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Administration

Petroleum Supply Monthly

with data for May 2019

July 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
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- Imports by country of origin
- Exports
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- Stocks
- Movements of crude oil, petroleum products, and biofuels

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Table 1. U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, May 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	375,354	--	--	221,900	18,512	7,559	518,299	89,908	0	1,124,976
Hydrocarbon Gas Liquids	149,975	-629	26,882	5,443	--	27,084	14,254	55,132	85,201	206,405
Natural Gas Liquids	149,975	-629	18,301	4,577	--	27,737	14,254	55,132	75,101	198,642
Ethane	58,498	--	144	--	--	4,156	--	8,674	45,812	56,245
Propane	48,407	--	9,131	3,161	--	10,371	--	33,010	17,318	63,334
Normal Butane	12,951	--	9,297	1,106	--	11,893	1,883	8,753	825	48,306
Isobutane	13,061	--	-271	310	--	702	6,658	308	5,432	11,825
Natural Gasoline	17,058	-629	--	--	--	615	5,713	4,388	5,713	18,932
Refinery Olefins	--	--	8,581	866	--	-653	--	--	10,100	7,763
Ethylene	--	--	20	--	--	0	--	--	20	0
Propylene	--	--	8,771	656	--	-863	--	--	10,290	6,681
Normal Butylene	--	--	-210	210	--	242	--	--	-242	1,038
Isobutylene	--	--	0	--	--	-32	--	--	32	44
Other Liquids	--	38,629	--	54,009	7,835	4,980	77,767	12,876	4,850	342,572
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	38,633	--	1,142	1,573	-1,289	37,647	4,990	0	31,462
Hydrogen	--	--	--	--	6,382	--	6,382	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	2,515	--	200	-693	-199	26	2,195	0	1,957
Renewable Fuels (including Fuel Ethanol)	--	36,118	--	927	-4,129	-1,099	31,221	2,794	0	29,463
Fuel Ethanol ⁵	--	32,443	--	--	-1,170	-400	29,298	2,375	0	22,818
Renewable Fuels Except Fuel Ethanol	--	3,675	--	927	-2,958	-699	1,923	419	0	6,645
Other Hydrocarbons	--	--	--	15	12	9	18	--	0	42
Unfinished Oils	--	--	--	20,938	--	1,827	8,470	5,784	4,857	97,934
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	-4	--	31,929	6,262	4,454	31,631	2,102	0	213,158
Reformulated	--	--	--	5,692	11,304	6,823	10,163	10	0	55,436
Conventional	--	-4	--	26,237	-5,043	-2,369	21,468	2,091	0	157,722
Aviation Gasoline Blend. Comp.	--	--	--	--	--	-12	19	--	-7	18
Finished Petroleum Products	--	162	616,415	22,535	-2,672	1,552	--	96,907	537,981	283,109
Finished Motor Gasoline	--	162	316,735	3,672	-5,092	1,015	--	23,039	291,423	22,559
Reformulated	--	--	101,813	--	-9,254	7	--	--	92,552	46
Conventional	--	162	214,922	3,672	4,162	1,008	--	23,039	198,871	22,513
Finished Aviation Gasoline	--	--	319	19	--	-149	--	--	487	1,044
Kerosene-Type Jet Fuel	--	--	53,586	5,815	--	-1,544	--	5,737	55,208	39,350
Kerosene	--	--	157	--	--	75	--	44	38	2,043
Distillate Fuel Oil ⁵	--	--	161,590	4,415	2,419	1,792	--	41,367	125,265	129,992
15 ppm sulfur and under	--	--	151,378	3,989	2,419	2,617	--	33,451	121,719	115,816
Greater than 15 ppm to 500 ppm sulfur	--	--	3,857	53	--	-350	--	4,198	62	3,485
Greater than 500 ppm sulfur	--	--	6,355	373	--	-475	--	3,718	3,485	10,691
Residual Fuel Oil ⁶	--	--	11,267	5,227	--	2,108	--	8,313	6,073	30,028
Less than 0.31 percent sulfur	--	--	1,494	445	--	774	--	NA	NA	3,361
0.31 to 1.00 percent sulfur	--	--	1,448	973	--	172	--	NA	NA	4,673
Greater than 1.00 percent sulfur	--	--	8,325	3,809	--	1,162	--	NA	NA	21,988
Petrochemical Feedstocks	--	--	9,465	474	--	223	--	--	9,716	3,411
Naphtha for Petro. Feed. Use	--	--	6,191	370	--	198	--	--	6,363	2,554
Other Oils for Petro. Feed. Use	--	--	3,274	104	--	25	--	--	3,353	857
Special Naphthas	--	--	880	471	--	-68	--	--	1,419	1,150
Lubricants	--	--	5,026	939	--	-919	--	3,499	3,385	10,147
Waxes	--	--	129	150	--	-69	--	155	193	661
Petroleum Coke	--	--	24,422	266	--	546	--	14,036	10,106	9,135
Marketable	--	--	17,641	266	--	546	--	14,036	3,325	9,135
Catalyst	--	--	6,781	--	--	--	--	--	6,781	--
Asphalt and Road Oil	--	--	9,561	1,086	--	-1,463	--	657	11,453	32,995
Still Gas	--	--	20,759	--	--	--	--	--	20,759	--
Miscellaneous Products	--	--	2,519	1	--	5	--	58	2,457	594
Total	525,329	38,162	643,297	303,887	23,674	41,175	610,320	254,823	628,031	1,957,062

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

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

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

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

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

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

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil 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-May 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	1,802,296	--	--	1,061,551	58,463	34,043	2,466,337	421,930	0	1,124,976
Hydrocarbon Gas Liquids	712,808	-3,024	94,103	35,146	--	17,888	82,165	253,620	485,360	206,405
Natural Gas Liquids	712,808	-3,024	52,673	31,956	--	18,281	82,165	253,620	440,347	198,642
Ethane	283,450	--	708	--	--	6,605	--	40,512	237,041	56,245
Propane	230,133	--	43,298	23,392	--	-324	--	151,035	146,112	63,334
Normal Butane	60,489	--	10,102	6,427	--	10,571	27,068	36,966	2,413	48,306
Isobutane	61,614	--	-1,435	2,115	--	3,335	32,245	655	26,059	11,825
Natural Gasoline	77,122	-3,024	--	22	--	-1,906	22,852	24,452	28,722	18,932
Refinery Olefins	--	--	41,430	3,190	--	-393	--	--	45,013	7,763
Ethylene	--	--	47	--	--	0	--	--	47	0
Propylene	--	--	42,155	2,380	--	-265	--	--	44,800	6,681
Normal Butylene	--	--	-761	780	--	-37	--	--	56	1,038
Isobutylene	--	--	-11	30	--	-91	--	--	110	44
Other Liquids	--	183,558	--	198,181	34,524	4,767	329,567	76,492	5,436	342,572
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	183,581	--	5,161	14,542	86	178,014	25,183	0	31,462
Hydrogen	--	--	--	--	31,705	--	31,705	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	11,929	--	436	-2,995	406	26	8,938	0	1,957
Renewable Fuels (including Fuel Ethanol) ...	--	171,652	--	4,698	-14,288	-341	146,158	16,244	0	29,463
Fuel Ethanol ⁵	--	154,466	--	564	-3,290	-520	137,209	15,051	0	22,818
Renewable Fuels Except Fuel Ethanol	--	17,186	--	4,134	-10,998	179	8,949	1,193	0	6,645
Other Hydrocarbons	--	--	--	27	119	21	125	--	0	42
Unfinished Oils	--	--	--	85,068	--	12,078	32,351	35,191	5,448	97,934
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	-23	--	107,952	19,982	-7,384	119,177	16,118	0	213,158
Reformulated	--	-3	--	25,049	43,929	5,335	63,572	68	0	55,436
Conventional	--	-20	--	82,903	-23,947	-12,719	55,605	16,050	0	157,722
Aviation Gasoline Blend. Comp.	--	--	--	--	--	-13	25	--	-12	18
Finished Petroleum Products	--	563	2,943,999	110,195	-6,372	-11,180	--	493,185	2,566,380	283,109
Finished Motor Gasoline	--	563	1,502,860	11,734	-16,692	-3,173	--	123,111	1,378,527	22,559
Reformulated	--	--	483,638	--	-42,429	2	--	--	441,207	46
Conventional	--	563	1,019,222	11,734	25,737	-3,175	--	123,111	937,320	22,513
Finished Aviation Gasoline	--	--	1,758	115	--	88	--	--	1,785	1,044
Kerosene-Type Jet Fuel	--	--	261,178	23,218	--	-2,236	--	30,566	256,066	39,350
Kerosene	--	--	1,217	101	--	-552	--	398	1,472	2,043
Distillate Fuel Oil ⁵	--	--	767,277	33,301	10,320	-10,014	--	191,192	629,719	129,992
15 ppm sulfur and under	--	--	714,376	31,875	10,320	-7,780	--	151,007	613,344	115,816
Greater than 15 ppm to 500 ppm sulfur	--	--	20,288	523	--	-1,626	--	20,163	2,274	3,485
Greater than 500 ppm sulfur	--	--	32,613	903	--	-608	--	20,022	14,102	10,691
Residual Fuel Oil ⁶	--	--	54,880	23,740	--	1,714	--	41,174	35,732	30,028
Less than 0.31 percent sulfur	--	--	8,713	2,868	--	1,216	--	NA	NA	3,361
0.31 to 1.00 percent sulfur	--	--	7,405	2,959	--	-44	--	NA	NA	4,673
Greater than 1.00 percent sulfur	--	--	38,762	17,913	--	542	--	NA	NA	21,988
Petrochemical Feedstocks	--	--	44,648	2,558	--	7	--	--	47,199	3,411
Naphtha for Petro. Feed. Use	--	--	29,814	2,016	--	160	--	--	31,670	2,554
Other Oils for Petro. Feed. Use	--	--	14,834	542	--	-153	--	--	15,529	857
Special Naphthas	--	--	4,523	1,885	--	-311	--	--	6,719	1,150
Lubricants	--	--	23,967	6,352	--	-3,808	--	17,402	16,725	10,147
Waxes	--	--	674	777	--	-15	--	619	847	661
Petroleum Coke	--	--	124,399	990	--	1,236	--	84,538	39,615	9,135
Marketable	--	--	91,843	990	--	1,236	--	84,538	7,059	9,135
Catalyst	--	--	32,556	--	--	--	--	--	32,556	--
Asphalt and Road Oil	--	--	44,519	5,419	--	5,950	--	3,950	40,038	32,995
Still Gas	--	--	99,207	--	--	--	--	--	99,207	--
Miscellaneous Products	--	--	12,892	5	--	-66	--	233	12,730	594
Total	2,515,104	181,097	3,038,102	1,405,073	86,615	45,518	2,878,069	1,245,227	3,057,176	1,957,062

-- = 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 A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).
³ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

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

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

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

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

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil 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, May 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	12,108	--	--	7,158	597	244	16,719	2,900	0
Hydrocarbon Gas Liquids	4,838	-20	867	176	--	874	460	1,778	2,748
Natural Gas Liquids	4,838	-20	590	148	--	895	460	1,778	2,423
Ethane	1,887	--	5	--	--	134	--	280	1,478
Propane	1,562	--	295	102	--	335	--	1,065	559
Normal Butane	418	--	300	36	--	384	61	282	27
Isobutane	421	--	-9	10	--	23	215	10	175
Natural Gasoline	550	-20	--	--	--	20	184	142	184
Refinery Olefins	--	--	277	28	--	-21	--	--	326
Ethylene	--	--	1	--	--	0	--	--	1
Propylene	--	--	283	21	--	-28	--	--	332
Normal Butylene	--	--	-7	7	--	8	--	--	-8
Isobutylene	--	--	0	--	--	-1	--	--	1
Other Liquids	--	1,246	--	1,742	253	161	2,509	415	156
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,246	--	37	51	-42	1,214	161	0
Hydrogen	--	--	--	--	206	--	206	--	0
Oxygenates (excluding Fuel Ethanol)	--	81	--	6	-22	-6	1	71	0
Renewable Fuels (including Fuel Ethanol)	--	1,165	--	30	-133	-35	1,007	90	0
Fuel Ethanol ⁵	--	1,047	--	--	-38	-13	945	77	0
Renewable Fuels Except Fuel Ethanol	--	119	--	30	-95	-23	62	14	0
Other Hydrocarbons	--	--	--	0	0	0	1	--	0
Unfinished Oils	--	--	--	675	--	59	273	187	157
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	0	--	1,030	202	144	1,020	68	0
Reformulated	--	--	--	184	365	220	328	0	0
Conventional	--	0	--	846	-163	-76	693	67	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	0	1	--	0
Finished Petroleum Products	--	5	19,884	727	-86	50	--	3,126	17,354
Finished Motor Gasoline	--	5	10,217	118	-164	33	--	743	9,401
Reformulated	--	--	3,284	--	-299	0	--	--	2,986
Conventional	--	5	6,933	118	134	33	--	743	6,415
Finished Aviation Gasoline	--	--	10	1	--	-5	--	--	16
Kerosene-Type Jet Fuel	--	--	1,729	188	--	-50	--	185	1,781
Kerosene	--	--	5	--	--	2	--	1	1
Distillate Fuel Oil ⁵	--	--	5,213	142	78	58	--	1,334	4,041
15 ppm sulfur and under	--	--	4,883	129	78	84	--	1,079	3,926
Greater than 15 ppm to 500 ppm sulfur	--	--	124	2	--	-11	--	135	2
Greater than 500 ppm sulfur	--	--	205	12	--	-15	--	120	112
Residual Fuel Oil ⁶	--	--	363	169	--	68	--	268	196
Less than 0.31 percent sulfur	--	--	48	14	--	25	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	47	31	--	6	--	NA	NA
Greater than 1.00 percent sulfur	--	--	269	123	--	37	--	NA	NA
Petrochemical Feedstocks	--	--	305	15	--	7	--	--	313
Naphtha for Petro. Feed. Use	--	--	200	12	--	6	--	--	205
Other Oils for Petro. Feed. Use	--	--	106	3	--	1	--	--	108
Special Naphthas	--	--	28	15	--	-2	--	--	46
Lubricants	--	--	162	30	--	-30	--	113	109
Waxes	--	--	4	5	--	-2	--	5	6
Petroleum Coke	--	--	788	9	--	18	--	453	326
Marketable	--	--	569	9	--	18	--	453	107
Catalyst	--	--	219	--	--	--	--	--	219
Asphalt and Road Oil	--	--	308	35	--	-47	--	21	369
Still Gas	--	--	670	--	--	--	--	--	670
Miscellaneous Products	--	--	81	0	--	0	--	2	79
Total	16,946	1,231	20,752	9,803	764	1,328	19,688	8,220	20,259

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil 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-May 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	11,936	--	--	7,030	387	225	16,333	2,794	0
Hydrocarbon Gas Liquids	4,721	-20	623	233	--	118	544	1,680	3,214
Natural Gas Liquids	4,721	-20	349	212	--	121	544	1,680	2,916
Ethane	1,877	--	--	--	--	44	--	268	1,570
Propane	1,524	--	287	155	--	-2	--	1,000	968
Normal Butane	401	--	67	43	--	70	179	245	16
Isobutane	408	--	15	14	--	22	214	4	173
Natural Gasoline	511	-20	--	0	--	-13	151	162	190
Refinery Olefins	--	--	274	21	--	-3	--	--	298
Ethylene	--	--	0	--	--	0	--	--	0
Propylene	--	--	279	16	--	-2	--	--	297
Normal Butylene	--	--	-5	5	--	0	--	--	0
Isobutylene	--	--	139	0	--	-1	--	--	1
Other Liquids	--	1,216	--	1,312	229	32	2,183	507	36
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	1,216	--	34	96	1	1,179	167	0
Hydrogen	--	--	--	--	210	--	210	--	0
Oxygenates (excluding Fuel Ethanol)	--	79	--	3	-20	3	0	59	0
Renewable Fuels (including Fuel Ethanol) ...	--	1,137	--	31	-95	-2	968	108	0
Fuel Ethanol ⁵	--	1,023	--	4	-22	-3	909	100	0
Renewable Fuels Except Fuel Ethanol	--	114	--	27	-73	1	59	8	0
Other Hydrocarbons	--	--	--	0	1	0	1	--	0
Unfinished Oils	--	--	--	563	--	80	214	233	36
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	0	--	715	132	-49	789	107	0
Reformulated	--	0	--	166	291	35	421	0	0
Conventional	--	0	--	549	-159	-84	368	106	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	4	19,497	730	-42	-74	--	3,266	16,996
Finished Motor Gasoline	--	4	9,953	78	-111	-21	--	815	9,129
Reformulated	--	--	3,203	--	-281	0	--	--	2,922
Conventional	--	4	6,750	78	170	-21	--	815	6,207
Finished Aviation Gasoline	--	--	12	1	--	1	--	--	12
Kerosene-Type Jet Fuel	--	--	1,730	154	--	-15	--	202	1,696
Kerosene	--	--	8	1	--	-4	--	3	10
Distillate Fuel Oil ⁵	--	--	5,081	221	68	-66	--	1,266	4,170
15 ppm sulfur and under	--	--	4,731	211	68	-52	--	1,000	4,062
Greater than 15 ppm to 500 ppm sulfur	--	--	134	3	--	-11	--	134	15
Greater than 500 ppm sulfur	--	--	216	6	--	-4	--	133	93
Residual Fuel Oil ⁶	--	--	363	157	--	11	--	273	237
Less than 0.31 percent sulfur	--	--	58	19	--	8	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	49	20	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	257	119	--	4	--	NA	NA
Petrochemical Feedstocks	--	--	296	17	--	0	--	--	313
Naphtha for Petro. Feed. Use	--	--	197	13	--	1	--	--	210
Other Oils for Petro. Feed. Use	--	--	98	4	--	-1	--	--	103
Special Naphthas	--	--	30	12	--	-2	--	--	44
Lubricants	--	--	159	42	--	-25	--	115	111
Waxes	--	--	4	5	--	0	--	4	6
Petroleum Coke	--	--	824	7	--	8	--	560	262
Marketable	--	--	608	7	--	8	--	560	47
Catalyst	--	--	216	--	--	--	--	--	216
Asphalt and Road Oil	--	--	295	36	--	39	--	26	265
Still Gas	--	--	657	--	--	--	--	--	657
Miscellaneous Products	--	--	85	0	--	0	--	2	84
Total	16,656	1,199	20,120	9,305	574	301	19,060	8,247	20,246

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil 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, May 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	1,970	--	--	25,555	6,990	2,389	2,471	33,700	733	0	15,125
Hydrocarbon Gas Liquids	16,793	-14	1,967	1,320	-3,895	--	1,133	489	7,252	7,297	7,411
Natural Gas Liquids	16,793	-14	1,362	933	-4,362	--	1,159	489	7,252	5,812	7,258
Ethane	6,844	--	--	--	--	--	-102	--	1,047	775	448
Propane	5,713	--	686	757	1,087	--	496	--	4,425	3,322	3,963
Normal Butane	1,850	--	658	26	137	--	788	4	1,716	163	2,403
Isobutane	783	--	18	150	-238	--	-13	383	1	342	182
Natural Gasoline	1,603	-14	--	--	-224	--	-10	102	63	1,210	262
Refinery Olefins	--	--	605	387	--	--	-26	--	--	1,485	153
Ethylene	--	--	20	--	--	--	--	--	--	20	--
Propylene	--	--	483	387	--	--	-9	--	--	1,346	85
Normal Butylene	--	--	57	--	--	--	15	--	--	42	24
Isobutylene	--	--	45	--	--	--	-32	--	--	77	44
Other Liquids	--	900	--	26,680	61,920	3,751	2,975	89,345	422	509	75,576
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	903	--	109	11,600	-1,719	-560	11,152	302	0	8,898
Hydrogen	--	--	--	--	--	103	--	103	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	1	--	--	1	0	--
Renewable Fuels (including Fuel Ethanol)	--	903	--	109	11,600	-1,823	-560	11,049	301	0	8,898
Fuel Ethanol	--	716	--	--	11,419	-1,473	-297	10,734	225	0	7,155
Renewable Fuels Except Fuel Ethanol	--	187	--	109	181	-350	-263	315	76	0	1,743
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	2,529	-18	--	-448	2,431	19	509	5,616
Motor Gasoline Blend.Comp. (MGBC)	--	-3	--	24,042	50,338	5,470	3,983	75,762	102	0	61,062
Reformulated	--	--	--	5,050	7,224	6,145	3,293	15,126	0	0	21,852
Conventional	--	-3	--	18,992	43,114	-676	690	60,636	101	0	39,210
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	123,203	10,392	49,288	-3,648	1,454	--	5,128	172,653	71,144
Finished Motor Gasoline	--	--	104,138	2,681	6,962	-3,997	969	--	351	108,465	4,629
Reformulated	--	--	41,033	--	--	-4,970	6	--	--	36,057	27
Conventional	--	--	63,105	2,681	6,962	973	963	--	351	72,408	4,602
Finished Aviation Gasoline	--	--	--	2	100	--	15	--	--	87	152
Kerosene-Type Jet Fuel	--	--	3,279	1,526	15,451	--	-535	--	747	20,044	8,298
Kerosene	--	--	56	--	--	--	36	--	1	19	1,395
Distillate Fuel Oil ⁶	--	--	10,761	2,921	24,723	349	2,261	--	2,155	34,338	40,694
15 ppm sulfur and under	--	--	10,292	2,854	23,206	349	2,795	--	1,271	32,635	35,142
Greater than 15 ppm to 500 ppm sulfur	--	--	49	53	1	--	-369	--	883	-411	1,312
Greater than 500 ppm sulfur	--	--	420	14	1,516	--	-165	--	0	2,115	4,240
Residual Fuel Oil ⁷	--	--	1,057	2,334	--	--	-147	--	992	2,546	6,275
Less than 0.31 percent sulfur	--	--	143	345	--	--	668	--	NA	NA	1,461
0.31 to 1.00 percent sulfur	--	--	325	580	--	--	-192	--	NA	NA	784
Greater than 1.00 percent sulfur	--	--	589	1,409	--	--	-623	--	NA	NA	4,030
Petrochemical Feedstocks	--	--	91	--	109	--	-17	--	--	217	97
Naphtha for Petro. Feed. Use	--	--	91	--	--	--	-17	--	--	108	97
Other Oils for Petro. Feed. Use	--	--	--	--	109	--	--	--	--	109	--
Special Naphthas	--	--	13	1	--	--	-5	--	--	19	36
Lubricants	--	--	366	181	511	--	-152	--	183	1,027	905
Waxes	--	--	10	65	--	--	-36	--	60	51	330
Petroleum Coke	--	--	821	--	209	--	--	--	579	451	--
Marketable	--	--	163	--	209	--	--	--	579	-207	--
Catalyst	--	--	658	--	--	--	--	--	--	658	--
Asphalt and Road Oil	--	--	1,092	681	1,223	--	-934	--	47	3,883	8,302
Still Gas	--	--	1,448	--	--	--	--	--	--	1,448	--
Miscellaneous Products	--	--	71	--	--	--	-1	--	14	58	31
Total	18,763	886	125,170	63,947	114,304	2,492	8,033	123,534	13,536	180,459	169,256

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

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

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

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

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

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

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil 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-May 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	9,486	--	--	109,155	26,553	5,006	3,470	145,988	742	0	15,125
Hydrocarbon Gas Liquids	80,465	-71	5,059	9,016	-12,398	--	-1,626	7,512	24,016	52,169	7,411
Natural Gas Liquids	80,465	-71	3,136	7,815	-14,010	--	-1,491	7,512	24,016	47,298	7,258
Ethane	32,553	--	--	--	--	--	-395	--	2,659	2,071	448
Propane	27,679	--	2,771	6,648	14,872	--	-2,024	--	15,669	38,325	3,963
Normal Butane	8,620	--	350	271	1,421	--	983	4,324	4,786	569	2,403
Isobutane	3,876	--	15	896	-896	--	-12	2,109	5	1,789	182
Natural Gasoline	7,737	-71	--	--	-1,189	--	-43	1,079	897	4,544	262
Refinery Olefins	--	--	1,923	1,201	--	--	-135	--	--	4,871	153
Ethylene	--	--	47	--	--	--	--	--	--	47	--
Propylene	--	--	1,775	1,201	--	--	-36	--	--	4,624	85
Normal Butylene	--	--	-38	--	--	--	-83	--	--	45	24
Isobutylene	--	--	139	--	--	--	-16	--	--	155	44
Other Liquids	--	4,600	--	93,108	295,803	29,625	3,241	417,622	1,123	1,150	75,576
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	4,615	--	981	50,635	-1,617	782	52,955	877	0	8,898
Hydrogen	--	--	--	--	--	434	--	434	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	5	--	--	5	0	--
Renewable Fuels (including Fuel Ethanol)	--	4,615	--	981	50,635	-2,056	782	52,521	872	0	8,898
Fuel Ethanol	--	3,588	--	--	49,087	-681	574	50,638	782	0	7,155
Renewable Fuels Except Fuel Ethanol	--	1,027	--	981	1,548	-1,375	208	1,883	89	0	1,743
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	8,641	145	--	411	7,104	121	1,150	5,616
Motor Gasoline Blend.Comp. (MGBC)	--	-15	--	83,486	245,023	31,242	2,048	357,563	125	0	61,062
Reformulated	--	--	--	22,784	37,075	16,523	3,020	73,355	7	0	21,852
Conventional	--	-15	--	60,702	207,948	14,719	-972	284,208	118	0	39,210
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	572,955	62,438	247,073	-29,241	-1,930	--	21,526	833,630	71,144
Finished Motor Gasoline	--	--	488,662	8,889	34,122	-30,561	749	--	1,494	498,869	4,629
Reformulated	--	--	193,419	--	--	-15,530	-3	--	--	177,892	27
Conventional	--	--	295,243	8,889	34,122	-15,031	752	--	1,494	320,977	4,602
Finished Aviation Gasoline	--	--	--	24	437	--	22	--	--	439	152
Kerosene-Type Jet Fuel	--	--	13,894	8,195	75,150	--	422	--	2,698	94,119	8,298
Kerosene	--	--	176	101	533	--	-657	--	179	1,288	1,395
Distillate Fuel Oil ⁶	--	--	45,804	28,931	128,294	1,320	-4,178	--	6,560	201,968	40,694
15 ppm sulfur and under	--	--	41,766	28,163	121,006	1,320	-2,536	--	4,244	190,547	35,142
Greater than 15 ppm to 500 ppm sulfur	--	--	1,230	523	88	--	-1,290	--	2,179	952	1,312
Greater than 500 ppm sulfur	--	--	2,808	245	7,200	--	-352	--	137	10,468	4,240
Residual Fuel Oil ⁷	--	--	6,003	11,555	-347	--	242	--	6,142	10,827	6,275
Less than 0.31 percent sulfur	--	--	1,812	939	--	--	560	--	NA	NA	1,461
0.31 to 1.00 percent sulfur	--	--	1,929	1,112	--	--	-645	--	NA	NA	784
Greater than 1.00 percent sulfur	--	--	2,262	9,504	-347	--	327	--	NA	NA	4,030
Petrochemical Feedstocks	--	--	332	14	-146	--	17	--	--	183	97
Naphtha for Petro. Feed. Use	--	--	332	3	--	--	17	--	--	318	97
Other Oils for Petro. Feed. Use	--	--	--	11	-146	--	--	--	--	-135	--
Special Naphthas	--	--	87	2	--	--	-7	--	--	96	36
Lubricants	--	--	1,911	858	2,049	--	-396	--	1,039	4,175	905
Waxes	--	--	49	385	--	--	-46	--	295	185	330
Petroleum Coke	--	--	3,821	20	2,401	--	--	--	2,648	3,594	--
Marketable	--	--	1,093	20	2,401	--	--	--	2,648	866	--
Catalyst	--	--	2,728	--	--	--	--	--	--	2,728	--
Asphalt and Road Oil	--	--	5,068	3,464	4,812	--	1,905	--	406	11,033	8,302
Still Gas	--	--	6,796	--	--	--	--	--	--	6,796	--
Miscellaneous Products	--	--	352	--	-231	--	-3	--	66	58	31
Total	89,951	4,529	578,014	273,717	557,031	5,390	3,155	571,122	47,407	886,949	169,256

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

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

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

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

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

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

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil 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, May 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	64	--	--	824	225	77	80	1,087	24	0
Hydrocarbon Gas Liquids	542	0	63	43	-126	--	37	16	234	235
Natural Gas Liquids	542	0	44	30	-141	--	37	16	234	187
Ethane	221	--	--	--	--	--	-3	--	34	25
Propane	184	--	22	24	35	--	16	--	--	107
Normal Butane	60	--	21	1	4	--	25	0	55	5
Isobutane	25	--	1	5	-8	--	0	12	0	11
Natural Gasoline	52	0	--	--	-7	--	0	3	2	39
Refinery Olefins	--	--	20	12	--	--	-1	--	--	48
Ethylene	--	--	1	--	--	--	--	--	--	1
Propylene	--	--	16	12	15	--	0	--	--	43
Normal Butylene	--	--	2	--	--	--	0	--	--	1
Isobutylene	--	--	1	--	--	--	-1	--	--	2
Other Liquids	--	29	--	861	1,997	121	96	2,882	14	16
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	29	--	4	374	-55	-18	360	10	0
Hydrogen	--	--	--	--	--	3	--	3	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	29	--	4	374	-59	-18	356	10	0
Fuel Ethanol ⁶	--	23	--	--	368	-48	-10	346	7	0
Renewable Fuels Except Fuel Ethanol	--	6	--	4	6	-11	-8	10	2	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	82	-1	--	-14	78	1	16
Motor Gasoline Blend.Comp. (MGBC) ⁶	--	0	--	776	1,624	176	128	2,444	3	0
Reformulated	--	--	--	163	233	198	106	488	0	0
Conventional	--	0	--	613	1,391	-22	22	1,956	3	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,974	335	1,590	-118	47	--	165	5,569
Finished Motor Gasoline	--	--	3,359	86	225	-129	31	--	11	3,499
Reformulated	--	--	1,324	--	--	-160	0	--	--	1,163
Conventional	--	--	2,036	86	225	31	31	--	11	2,336
Finished Aviation Gasoline	--	--	--	0	3	--	0	--	--	3
Kerosene-Type Jet Fuel	--	--	106	49	498	--	-17	--	24	647
Kerosene	--	--	2	--	--	--	1	--	0	1
Distillate Fuel Oil ⁶	--	--	347	94	798	11	73	--	70	1,108
15 ppm sulfur and under	--	--	332	92	749	11	90	--	41	1,053
Greater than 15 ppm to 500 ppm sulfur	--	--	2	2	0	--	-12	--	28	-13
Greater than 500 ppm sulfur	--	--	14	0	49	--	-5	--	0	68
Residual Fuel Oil ⁷	--	--	34	75	--	--	-5	--	32	82
Less than 0.31 percent sulfur	--	--	5	11	--	--	22	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	10	19	--	--	-6	--	NA	NA
Greater than 1.00 percent sulfur	--	--	19	45	--	--	-20	--	NA	NA
Petrochemical Feedstocks	--	--	3	--	4	--	-1	--	--	7
Naphtha for Petro. Feed. Use	--	--	3	--	--	--	-1	--	--	3
Other Oils for Petro. Feed. Use	--	--	--	--	4	--	--	--	--	4
Special Naphthas	--	--	0	0	--	--	0	--	--	1
Lubricants	--	--	12	6	16	--	-5	--	6	33
Waxes	--	--	0	2	--	--	-1	--	2	2
Petroleum Coke	--	--	26	--	7	--	--	--	19	15
Marketable	--	--	5	--	7	--	--	--	19	-7
Catalyst	--	--	21	--	--	--	--	--	--	21
Asphalt and Road Oil	--	--	35	22	39	--	-30	--	2	125
Still Gas	--	--	47	--	--	--	--	--	--	47
Miscellaneous Products	--	--	2	--	--	--	0	--	0	2
Total	605	29	4,038	2,063	3,687	80	259	3,985	437	5,821

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

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

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

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

⁷ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change 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-May 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	63	--	--	723	176	33	23	967	5	0
Hydrocarbon Gas Liquids	533	0	34	60	-82	--	-11	50	159	345
Natural Gas Liquids	533	0	21	52	-93	--	-10	50	159	313
Ethane	216	--	--	--	--	--	-3	--	18	14
Propane	183	--	18	44	98	--	-13	--	--	254
Normal Butane	57	--	2	2	9	--	7	29	32	4
Isobutane	26	--	0	6	-6	--	0	14	0	12
Natural Gasoline	51	0	--	--	-8	--	0	7	6	30
Refinery Olefins	--	--	13	8	--	--	-1	--	--	32
Ethylene	--	--	0	--	--	--	--	--	--	0
Propylene	--	--	12	8	11	--	0	--	--	31
Normal Butylene	--	--	0	--	--	--	-1	--	--	0
Isobutylene	--	--	1	--	--	--	0	--	--	1
Other Liquids	--	30	--	617	1,959	196	21	2,766	7	8
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	31	--	6	335	-11	5	351	6	0
Hydrogen	--	--	--	--	--	3	--	3	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	31	--	6	335	-14	5	348	6	0
Fuel Ethanol ⁶	--	24	--	--	325	-5	4	335	5	0
Renewable Fuels Except Fuel Ethanol	--	7	--	6	10	-9	1	12	1	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	57	1	--	3	47	1	8
Motor Gasoline Blend.Comp. (MGBC) ⁶	--	0	--	553	1,623	207	14	2,368	1	0
Reformulated	--	--	--	151	246	109	20	486	0	0
Conventional	--	0	--	402	1,377	97	-6	1,882	1	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,794	413	1,636	-194	-13	--	143	5,521
Finished Motor Gasoline	--	--	3,236	59	226	-202	5	--	10	3,304
Reformulated	--	--	1,281	--	--	-103	0	--	--	1,178
Conventional	--	--	1,955	59	226	-100	5	--	10	2,126
Finished Aviation Gasoline	--	--	--	0	3	--	0	--	--	3
Kerosene-Type Jet Fuel	--	--	92	54	498	--	3	--	18	623
Kerosene	--	--	1	1	4	--	-4	--	1	9
Distillate Fuel Oil ⁶	--	--	303	192	850	9	-28	--	43	1,338
15 ppm sulfur and under	--	--	277	187	801	9	-17	--	28	1,262
Greater than 15 ppm to 500 ppm sulfur	--	--	8	3	1	--	-9	--	14	6
Greater than 500 ppm sulfur	--	--	19	2	48	--	-2	--	1	69
Residual Fuel Oil ⁷	--	--	40	77	-2	--	2	--	41	72
Less than 0.31 percent sulfur	--	--	12	6	--	--	4	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	13	7	--	--	-4	--	NA	NA
Greater than 1.00 percent sulfur	--	--	15	63	-2	--	2	--	NA	NA
Petrochemical Feedstocks	--	--	2	0	-1	--	0	--	--	1
Naphtha for Petro. Feed. Use	--	--	2	0	--	--	0	--	--	2
Other Oils for Petro. Feed. Use	--	--	--	0	-1	--	--	--	--	-1
Special Naphthas	--	--	1	0	--	--	0	--	--	1
Lubricants	--	--	13	6	14	--	-3	--	7	28
Waxes	--	--	0	3	--	--	0	--	2	1
Petroleum Coke	--	--	25	0	16	--	--	--	18	24
Marketable	--	--	7	0	16	--	--	--	18	6
Catalyst	--	--	18	--	--	--	--	--	--	18
Asphalt and Road Oil	--	--	34	23	32	--	13	--	3	73
Still Gas	--	--	45	--	--	--	--	--	--	45
Miscellaneous Products	--	--	2	--	-2	--	0	--	0	0
Total	596	30	3,828	1,813	3,689	36	21	3,782	314	5,874

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

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

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

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

⁷ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change 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, May 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	67,757	--	--	84,939	-29,108	-4,815	6,214	109,421	3,138	0	142,986
Hydrocarbon Gas Liquids	31,914	-579	6,113	2,510	-10,036	--	9,399	1,959	6,823	11,741	46,850
Natural Gas Liquids	31,914	-579	4,788	2,189	-9,251	--	9,431	1,959	6,823	10,848	46,469
Ethane	11,181	--	--	--	--	--	492	--	2,432	4,310	5,424
Propane	11,247	--	2,200	1,469	-4,938	--	4,250	--	98	5,630	16,008
Normal Butane	3,904	--	2,486	629	-2,525	--	3,648	32	85	729	12,386
Isobutane	1,933	--	102	91	-229	--	595	1,258	1	43	3,033
Natural Gasoline	3,649	-579	--	--	2,388	--	446	669	4,206	137	9,618
Refinery Olefins	--	--	1,325	321	--	--	-32	--	--	893	381
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	1,190	269	--	--	-35	--	--	709	335
Normal Butylene	--	--	135	52	--	--	3	--	--	184	46
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	32,639	--	528	-10,189	1,727	-5,237	28,458	2,933	-1,449	63,901
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	32,640	--	94	-22,435	-253	-420	9,720	746	0	9,187
Hydrogen	--	--	--	--	--	1,155	--	1,155	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	2	0	--	2	0	3
Renewable Fuels (including Fuel Ethanol)	--	32,640	--	94	-22,435	-1,437	-429	8,547	744	0	9,142
Fuel Ethanol	--	30,113	--	--	-21,691	-324	-347	7,933	512	0	8,155
Renewable Fuels Except Fuel Ethanol	--	2,527	--	94	-743	-1,113	-82	614	232	0	987
Other Hydrocarbons	--	--	--	--	--	27	9	18	--	0	42
Unfinished Oils	--	--	--	59	-1,145	--	-1,041	-314	1,718	-1,449	13,243
Motor Gasoline Blend.Comp. (MGBC)	--	-1	--	375	13,391	1,980	-3,776	19,052	469	0	41,471
Reformulated	--	--	--	--	7,270	-4,485	328	2,457	--	0	6,436
Conventional	--	-1	--	375	6,121	6,465	-4,104	16,595	469	0	35,035
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	162	139,664	850	3,392	-527	-3,262	--	1,529	145,274	64,787
Finished Motor Gasoline	--	162	82,734	1	1,282	-1,656	87	--	179	82,258	5,909
Reformulated	--	--	11,267	--	--	4,951	--	--	--	16,218	--
Conventional	--	162	71,467	1	1,282	-6,607	87	--	179	66,040	5,909
Finished Aviation Gasoline	--	--	59	4	13	--	20	--	--	56	199
Kerosene-Type Jet Fuel	--	--	7,997	--	888	--	-790	--	37	9,638	7,547
Kerosene	--	--	35	--	--	--	14	--	1	20	172
Distillate Fuel Oil	--	--	33,467	236	2,627	1,128	-1,709	--	238	38,930	33,317
15 ppm sulfur and under	--	--	33,485	139	2,502	1,128	-1,760	--	1	39,014	32,285
Greater than 15 ppm to 500 ppm sulfur	--	--	33	--	125	--	68	--	105	-15	550
Greater than 500 ppm sulfur	--	--	-51	97	--	--	-17	--	132	-69	482
Residual Fuel Oil ⁶	--	--	1,215	44	-686	--	-14	--	162	425	1,175
Less than 0.31 percent sulfur	--	--	129	--	-97	--	35	--	NA	NA	85
0.31 to 1.00 percent sulfur	--	--	91	12	-40	--	16	--	NA	NA	244
Greater than 1.00 percent sulfur	--	--	995	32	-549	--	-65	--	NA	NA	846
Petrochemical Feedstocks	--	--	936	146	-43	--	39	--	--	1,000	538
Naphtha for Petro. Feed. Use	--	--	676	77	-43	--	47	--	--	663	447
Other Oils for Petro. Feed. Use	--	--	260	69	--	--	-8	--	--	337	91
Special Naphthas	--	--	-3	3	19	--	27	--	--	-8	129
Lubricants	--	--	177	108	149	--	-34	--	186	282	528
Waxes	--	--	24	3	--	--	-2	--	40	-11	42
Petroleum Coke	--	--	4,852	23	-287	--	-280	--	571	4,297	1,677
Marketable	--	--	3,561	23	-287	--	-280	--	571	3,006	1,677
Catalyst	--	--	1,291	--	--	--	--	--	--	1,291	--
Asphalt and Road Oil	--	--	3,622	282	-570	--	-625	--	116	3,844	13,442
Still Gas	--	--	4,135	--	--	--	--	--	--	4,135	--
Miscellaneous Products	--	--	414	--	--	--	5	--	1	408	112
Total	99,671	32,222	145,777	88,827	-45,940	-3,616	7,114	139,838	14,423	155,566	318,524

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

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

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

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

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

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil 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-May 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	326,215	--	--	425,509	-134,646	-31,581	10,884	550,286	24,326	0	142,986
Hydrocarbon Gas Liquids	152,945	-2,792	16,816	14,858	-45,999	--	-3,181	13,295	36,474	89,240	46,850
Natural Gas Liquids	152,945	-2,792	10,289	13,360	-42,779	--	-3,133	13,295	36,474	84,387	46,469
Ethane	53,862	--	--	--	--	--	233	--	12,969	22,529	5,424
Propane	54,443	--	11,045	9,761	-31,469	--	-4,651	--	466	47,965	16,008
Normal Butane	18,628	--	-4	2,836	-11,171	--	997	3,037	1,183	4,522	12,386
Isobutane	9,221	--	-183	741	-483	--	1,081	6,960	5	1,250	3,033
Natural Gasoline	16,791	-2,792	--	22	18,475	--	-793	3,298	21,870	8,121	9,618
Refinery Olefins	--	--	6,527	1,498	--	--	-48	--	--	4,853	381
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	6,159	1,179	--	--	-20	--	--	4,138	335
Normal Butylene	--	--	323	289	--	--	42	--	--	570	46
Isobutylene	--	--	45	--	--	--	-70	--	--	145	0
Other Liquids	--	155,264	--	2,648	-65,060	-7,188	-8,049	89,063	11,834	-7,184	63,901
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	155,272	--	444	-103,620	-5,105	-434	44,411	3,014	0	9,187
Hydrogen	--	--	--	--	--	5,566	--	5,566	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	7	-1	--	8	0	3
Renewable Fuels (including Fuel Ethanol)	--	155,272	--	444	-103,620	-10,824	-454	38,720	3,006	0	9,142
Fuel Ethanol	--	143,734	--	--	-99,409	-5,909	-524	36,517	2,423	0	8,155
Renewable Fuels Except Fuel Ethanol	--	11,538	--	444	-4,211	-4,916	70	2,203	583	0	987
Other Hydrocarbons	--	--	--	--	--	146	21	125	--	0	42
Unfinished Oils	--	--	--	463	-1,769	--	499	-2,557	7,936	-7,184	13,243
Motor Gasoline Blend.Comp. (MGBC)	--	-8	--	1,741	40,329	-2,083	-8,114	47,209	884	0	41,471
Reformulated	--	-3	--	--	12,758	-4,137	247	8,371	--	0	6,436
Conventional	--	-5	--	1,741	27,571	2,054	-8,361	38,838	884	0	35,035
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	563	668,356	4,288	9,187	13,022	736	--	5,356	689,325	64,787
Finished Motor Gasoline	--	563	381,728	1	873	7,991	-595	--	711	391,040	5,909
Reformulated	--	--	53,666	--	--	5,352	--	--	--	59,018	--
Conventional	--	563	328,062	1	873	2,639	-595	--	711	332,022	5,909
Finished Aviation Gasoline	--	--	205	13	51	--	33	--	--	236	199
Kerosene-Type Jet Fuel	--	--	39,142	--	4,907	--	10	--	270	43,769	7,547
Kerosene	--	--	620	--	20	--	-109	--	4	745	172
Distillate Fuel Oil	--	--	167,062	1,311	13,424	5,031	-336	--	963	186,201	33,317
15 ppm sulfur and under	--	--	166,975	919	12,811	5,031	-649	--	3	186,382	32,285
Greater than 15 ppm to 500 ppm sulfur	--	--	540	--	613	--	168	--	508	477	550
Greater than 500 ppm sulfur	--	--	-453	392	--	--	145	--	452	-658	482
Residual Fuel Oil ⁶	--	--	6,317	308	-3,593	--	-105	--	727	2,410	1,175
Less than 0.31 percent sulfur	--	--	320	--	-263	--	28	--	NA	NA	85
0.31 to 1.00 percent sulfur	--	--	953	137	-115	--	-30	--	NA	NA	244
Greater than 1.00 percent sulfur	--	--	5,044	171	-3,215	--	-103	--	NA	NA	846
Petrochemical Feedstocks	--	--	4,654	800	-403	--	-27	--	--	5,078	538
Naphtha for Petro. Feed. Use	--	--	3,113	408	-329	--	20	--	--	3,172	447
Other Oils for Petro. Feed. Use	--	--	1,541	392	-74	--	-47	--	--	1,906	91
Special Naphthas	--	--	-8	27	116	--	-54	--	--	189	129
Lubricants	--	--	847	570	703	--	-299	--	920	1,499	528
Waxes	--	--	130	31	--	--	14	--	165	-18	42
Petroleum Coke	--	--	26,246	142	-3,801	--	339	--	1,090	21,159	1,677
Marketable	--	--	19,291	142	-3,801	--	339	--	1,090	14,204	1,677
Catalyst	--	--	6,955	--	--	--	--	--	--	6,955	--
Asphalt and Road Oil	--	--	18,607	1,085	-3,113	--	1,870	--	492	14,218	13,442
Still Gas	--	--	20,592	--	--	--	--	--	--	20,592	--
Miscellaneous Products	--	--	2,214	--	3	--	-5	--	15	2,207	112
Total	479,160	153,035	685,172	447,303	-236,518	-25,747	390	652,644	77,990	771,381	318,524

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

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

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

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

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

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil 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, May 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	2,186	--	--	2,740	-939	-155	200	3,530	101	0
Hydrocarbon Gas Liquids	1,029	-19	197	81	-324	--	303	63	220	379
Natural Gas Liquids	1,029	-19	154	71	-298	--	304	63	220	350
Ethane	361	--	--	--	--	--	16	--	78	139
Propane	363	--	71	47	-159	--	137	--	3	182
Normal Butane	126	--	4,987	20	-81	--	118	1	3	24
Isobutane	62	--	3	3	-7	--	19	41	0	1
Natural Gasoline	118	-19	--	--	77	--	14	22	136	4
Refinery Olefins	--	--	43	10	--	--	-1	--	--	29
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	38	9	-25	--	-1	--	--	23
Normal Butylene	--	--	4	2	--	--	0	--	--	6
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	1,053	--	17	-329	56	-169	918	95	-47
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,053	--	3	-724	-8	-14	314	24	0
Hydrogen	--	--	--	--	--	37	--	37	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	0	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	1,053	--	3	-724	-46	-14	276	24	0
Fuel Ethanol	--	971	--	--	-700	-10	-11	256	17	0
Renewable Fuels Except Fuel Ethanol	--	82	--	3	-24	-36	-3	20	7	0
Other Hydrocarbons	--	--	--	--	--	1	0	1	--	0
Unfinished Oils	--	--	--	2	-37	--	-34	-10	55	-47
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	12	432	64	-122	615	15	0
Reformulated	--	--	--	--	235	-145	11	79	--	0
Conventional	--	0	--	12	197	209	-132	535	15	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	5	4,505	27	109	-17	-105	--	49	4,686
Finished Motor Gasoline	--	5	2,669	0	41	-53	3	--	6	2,653
Reformulated	--	--	363	--	--	160	--	--	--	523
Conventional	--	5	2,305	0	41	-213	3	--	6	2,130
Finished Aviation Gasoline	--	--	2	0	0	--	1	--	--	2
Kerosene-Type Jet Fuel	--	--	258	--	29	--	-25	--	1	311
Kerosene	--	--	1	--	--	--	0	--	0	1
Distillate Fuel Oil	--	--	1,080	8	85	36	-55	--	8	1,256
15 ppm sulfur and under	--	--	1,080	4	81	36	-57	--	0	1,259
Greater than 15 ppm to 500 ppm sulfur	--	--	1	--	4	--	2	--	3	0
Greater than 500 ppm sulfur	--	--	-2	3	--	--	-1	--	4	-2
Residual Fuel Oil ⁶	--	--	39	1	-22	--	0	--	5	14
Less than 0.31 percent sulfur	--	--	4	--	-3	--	1	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	3	0	-1	--	1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	32	1	-18	--	-2	--	NA	NA
Petrochemical Feedstocks	--	--	30	5	-1	--	1	--	--	32
Naphtha for Petro. Feed. Use	--	--	22	2	-1	--	2	--	--	21
Other Oils for Petro. Feed. Use	--	--	8	2	--	--	0	--	--	11
Special Naphthas	--	--	0	0	1	--	1	--	--	0
Lubricants	--	--	6	3	5	--	-1	--	6	9
Waxes	--	--	1	0	--	--	0	--	1	0
Petroleum Coke	--	--	157	1	-9	--	-9	--	18	139
Marketable	--	--	115	1	-9	--	-9	--	18	97
Catalyst	--	--	42	--	--	--	--	--	--	42
Asphalt and Road Oil	--	--	117	9	-18	--	-20	--	4	124
Still Gas	--	--	133	--	--	--	--	--	--	133
Miscellaneous Products	--	--	13	--	--	--	0	--	0	13
Total	3,215	1,039	4,702	2,865	-1,482	-117	229	4,511	465	5,018

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

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

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

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

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

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil 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-May 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	2,160	--	--	2,818	-892	-209	72	3,644	161	0
Hydrocarbon Gas Liquids	1,013	-18	111	98	-305	--	-21	88	242	591
Natural Gas Liquids	1,013	-18	68	88	-283	--	-21	88	242	559
Ethane	357	--	--	--	--	--	2	--	86	149
Propane	361	--	73	65	-208	--	-31	--	3	318
Normal Butane	123	--	-4	19	-74	--	7	20	8	30
Isobutane	61	--	-1	5	-3	--	7	46	0	8
Natural Gasoline	111	-18	--	0	122	--	-5	22	145	54
Refinery Olefins	--	--	43	10	--	--	0	--	--	32
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	41	8	-21	--	0	--	--	27
Normal Butylene	--	--	2	2	--	--	0	--	--	4
Isobutylene	--	--	0	--	--	--	0	--	--	1
Other Liquids	--	1,028	--	18	-431	-48	-53	590	78	-48
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,028	--	3	-686	-34	-3	294	20	0
Hydrogen	--	--	--	--	--	37	--	37	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	0	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	1,028	--	3	-686	-72	-3	256	20	0
Fuel Ethanol	--	952	--	--	-658	-39	-3	242	16	0
Renewable Fuels Except Fuel Ethanol	--	76	--	3	-28	-33	0	15	4	0
Other Hydrocarbons	--	--	--	--	--	1	0	1	--	0
Unfinished Oils	--	--	--	3	-12	--	3	-17	53	-48
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	12	267	-14	-54	313	6	0
Reformulated	--	0	--	--	84	-27	2	55	--	0
Conventional	--	0	--	12	183	14	-55	257	6	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	4	4,426	28	61	86	5	--	35	4,565
Finished Motor Gasoline	--	4	2,528	0	6	53	-4	--	5	2,590
Reformulated	--	--	355	--	--	35	--	--	--	391
Conventional	--	4	2,173	0	6	17	-4	--	5	2,199
Finished Aviation Gasoline	--	--	1	0	0	--	0	--	--	2
Kerosene-Type Jet Fuel	--	--	259	--	32	--	0	--	2	290
Kerosene	--	--	4	--	0	--	-1	--	0	5
Distillate Fuel Oil	--	--	1,106	9	89	33	-2	--	6	1,233
15 ppm sulfur and under	--	--	1,106	6	85	33	-4	--	0	1,234
Greater than 15 ppm to 500 ppm sulfur	--	--	4	--	4	--	1	--	3	3
Greater than 500 ppm sulfur	--	--	-3	--	--	--	1	--	3	-4
Residual Fuel Oil ⁶	--	--	42	2	-24	--	-1	--	5	16
Less than 0.31 percent sulfur	--	--	2	--	-2	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	6	1	-1	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	33	1	-21	--	-1	--	NA	NA
Petrochemical Feedstocks	--	--	31	5	-3	--	0	--	--	34
Naphtha for Petro. Feed. Use	--	--	21	3	-2	--	0	--	--	21
Other Oils for Petro. Feed. Use	--	--	10	3	0	--	0	--	--	13
Special Naphthas	--	--	0	0	1	--	0	--	--	1
Lubricants	--	--	6	4	5	--	-2	--	6	10
Waxes	--	--	1	0	--	--	0	--	1	0
Petroleum Coke	--	--	174	1	-25	--	2	--	7	140
Marketable	--	--	128	1	-25	--	2	--	7	94
Catalyst	--	--	46	--	--	--	--	--	--	46
Asphalt and Road Oil	--	--	123	7	-21	--	12	--	3	94
Still Gas	--	--	136	--	--	--	--	--	--	136
Miscellaneous Products	--	--	15	--	0	--	0	--	0	15
Total	3,173	1,013	4,538	2,962	-1,566	-171	3	4,322	516	5,108

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil 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, May 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	247,137	--	--	63,734	33,443	20,201	-1,369	280,897	84,987	0	889,620
Hydrocarbon Gas Liquids	86,500	-14	16,398	158	25,109	--	15,560	8,980	39,120	64,491	145,524
Natural Gas Liquids	86,500	-14	9,560	--	24,791	--	16,198	8,980	39,120	56,539	138,443
Ethane	37,426	--	144	--	--	--	3,804	--	5,195	40,951	49,917
Propane	26,213	--	4,882	--	7,833	--	5,095	--	27,395	6,438	41,286
Normal Butane	5,119	--	4,987	--	3,842	--	7,011	981	6,183	-227	30,781
Isobutane	8,883	--	-453	--	1,178	--	125	3,981	306	5,196	7,862
Natural Gasoline	8,859	-14	--	--	-442	--	163	4,018	41	4,181	8,597
Refinery Olefins	--	--	6,838	158	--	--	-638	--	--	7,952	7,081
Ethylene	--	--	--	--	--	--	0	--	--	0	0
Propylene	--	--	7,091	--	--	--	-815	--	--	8,224	6,259
Normal Butylene	--	--	-208	158	--	--	177	--	--	-227	822
Isobutylene	--	--	-45	--	--	--	0	--	--	-45	0
Other Liquids	--	3,819	--	18,676	-62,122	3,313	1,943	-52,500	9,079	5,164	137,805
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	3,819	--	215	5,801	2,231	-387	8,839	3,614	0	8,424
Hydrogen	--	--	--	--	--	3,764	--	3,764	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	2,515	--	200	--	-696	-199	26	2,192	0	1,954
Renewable Fuels (including Fuel Ethanol)	--	1,304	--	--	5,801	-822	-188	5,049	1,422	0	6,470
Fuel Ethanol	--	682	--	--	5,538	111	143	4,780	1,408	0	4,623
Renewable Fuels Except Fuel Ethanol	--	622	--	--	263	-934	-331	269	14	0	1,847
Other Hydrocarbons	--	--	--	15	--	-15	--	--	--	0	--
Unfinished Oils	--	--	--	15,352	1,163	--	1,478	5,850	4,016	5,171	53,025
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	3,109	-69,086	1,082	864	-67,208	1,449	0	76,338
Reformulated	--	--	--	--	-16,940	7,291	1,316	-10,974	9	0	12,891
Conventional	--	--	--	3,109	-52,146	-6,209	-452	-56,234	1,440	0	63,447
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	-12	19	--	-7	18
Finished Petroleum Products	--	--	240,254	4,297	-53,934	-454	1,364	--	81,954	106,845	102,693
Finished Motor Gasoline	--	--	71,077	228	-8,080	-1,194	-379	--	21,798	40,613	8,142
Reformulated	--	--	14,889	--	--	-7,802	--	--	--	7,087	--
Conventional	--	--	56,188	228	-8,080	6,609	-379	--	21,798	33,526	8,142
Finished Aviation Gasoline	--	--	254	--	-113	--	-91	--	--	232	563
Kerosene-Type Jet Fuel	--	--	28,095	--	-17,452	--	-806	--	4,562	6,887	13,966
Kerosene	--	--	67	--	--	--	23	--	42	2	457
Distillate Fuel Oil	--	--	93,242	370	-28,059	740	445	--	37,093	28,755	38,503
15 ppm sulfur and under	--	--	84,354	109	-26,417	740	998	--	30,988	26,800	32,201
Greater than 15 ppm to 500 ppm sulfur	--	--	3,355	--	-126	--	-171	--	2,758	642	1,189
Greater than 500 ppm sulfur	--	--	5,533	261	-1,516	--	-382	--	3,347	1,313	5,113
Residual Fuel Oil ⁷	--	--	5,293	2,021	686	--	1,785	--	5,410	805	17,410
Less than 0.31 percent sulfur	--	--	1,055	100	97	--	-308	--	NA	NA	1,300
0.31 to 1.00 percent sulfur	--	--	623	66	40	--	155	--	NA	NA	3,135
Greater than 1.00 percent sulfur	--	--	3,615	1,855	549	--	1,938	--	NA	NA	12,975
Petrochemical Feedstocks	--	--	8,437	328	-66	--	201	--	--	8,498	2,773
Naphtha for Petro. Feed. Use	--	--	5,423	293	43	--	168	--	--	5,591	2,007
Other Oils for Petro. Feed. Use	--	--	3,014	35	-109	--	33	--	--	2,907	766
Special Naphthas	--	--	824	467	-19	--	-115	--	--	1,387	927
Lubricants	--	--	3,934	621	-565	--	-692	--	3,034	1,648	7,835
Waxes	--	--	95	46	--	--	-31	--	50	122	289
Petroleum Coke	--	--	13,769	216	353	--	758	--	9,481	4,099	5,626
Marketable	--	--	10,242	216	353	--	758	--	9,481	572	5,626
Catalyst	--	--	3,527	--	--	--	--	--	--	3,527	--
Asphalt and Road Oil	--	--	2,744	--	-619	--	254	--	442	1,429	5,843
Still Gas	--	--	10,866	--	--	--	--	--	--	10,866	--
Miscellaneous Products	--	--	1,557	--	--	--	12	--	43	1,502	359
Total	333,637	3,805	256,652	86,865	-57,504	23,060	17,498	237,377	215,140	176,501	1,275,642

-- = 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 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, biojiesel, marketable petroleum coke, and asphalt and road oil.

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

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

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

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

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

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

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil 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-May 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	1,184,141	--	--	288,068	170,739	85,144	9,130	1,323,904	395,057	0	889,620	
Hydrocarbon Gas Liquids	404,722	-55	63,961	491	110,248	--	23,094	45,732	184,704	325,837	145,524	
Natural Gas Liquids	404,722	-55	31,506	--	108,640	--	23,365	45,732	184,704	291,012	138,443	
Ethane	178,325	--	708	--	--	--	6,776	--	24,882	212,097	49,917	
Propane	122,834	--	23,438	--	33,712	--	7,083	--	130,533	42,368	41,286	
Normal Butane	22,539	--	9,196	--	15,340	--	8,456	13,408	28,483	-3,272	30,781	
Isobutane	42,174	--	-1,836	--	4,839	--	2,189	18,524	641	23,823	7,862	
Natural Gasoline	38,850	-55	--	--	-9,973	--	-1,139	13,800	165	15,996	8,597	
Refinery Olefins	--	--	32,455	491	--	--	-271	--	--	34,825	7,081	
Ethylene	--	--	--	--	--	--	0	--	--	0	0	
Propylene	--	--	33,532	--	--	--	-198	--	--	35,338	6,259	
Normal Butylene	--	--	-903	491	--	--	-73	--	--	-339	822	
Isobutylene	--	--	-174	--	--	--	0	--	--	-174	0	
Other Liquids	--	17,801	--	77,287	-279,629	20,724	5,642	-239,163	61,244	8,460	137,805	
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	17,801	--	576	28,222	16,614	215	42,994	20,004	0	8,424	
Hydrogen	--	--	--	--	--	18,957	--	18,957	--	0	--	
Oxygenates (excluding Fuel Ethanol)	--	11,929	--	436	--	-3,010	407	26	8,922	0	1,954	
Renewable Fuels (including Fuel Ethanol)	--	5,872	--	113	28,222	694	-192	24,011	11,082	0	6,470	
Fuel Ethanol	--	2,539	--	--	27,712	2,956	70	22,307	10,829	0	4,623	
Renewable Fuels Except Fuel Ethanol	--	3,333	--	113	510	-2,262	-262	1,704	253	0	1,847	
Other Hydrocarbons	--	--	--	27	--	-27	--	--	--	0	--	
Unfinished Oils	--	--	--	64,639	1,624	--	8,065	22,977	26,749	8,472	53,025	
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	12,072	-309,475	4,110	-2,625	-305,159	14,491	0	76,338	
Reformulated	--	--	--	325	-61,516	27,146	575	-34,674	54	0	12,891	
Conventional	--	--	--	11,747	-247,959	-23,037	-3,200	-270,485	14,436	0	63,447	
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	-13	25	--	-12	18	
Finished Petroleum Products	--	--	1,156,125	18,089	-262,977	-3,609	-9,604	--	412,632	504,600	102,693	
Finished Motor Gasoline	--	--	352,332	512	-34,499	-7,065	-3,509	--	115,411	199,377	8,142	
Reformulated	--	--	70,363	--	--	-30,016	0	--	--	40,347	--	
Conventional	--	--	281,969	512	-34,499	22,951	-3,509	--	115,411	159,031	8,142	
Finished Aviation Gasoline	--	--	1,447	59	-488	--	128	--	--	890	563	
Kerosene-Type Jet Fuel	--	--	138,265	30	-85,348	--	-1,471	--	24,060	30,358	13,966	
Kerosene	--	--	386	--	-553	--	270	--	206	-643	457	
Distillate Fuel Oil	--	--	436,031	777	-145,563	3,457	-4,685	--	163,835	135,552	38,503	
15 ppm sulfur and under	--	--	391,459	516	-137,662	3,457	-3,763	--	132,866	128,667	32,201	
Greater than 15 ppm to 500 ppm sulfur	--	--	16,658	--	-701	--	-493	--	14,449	2,001	1,189	
Greater than 500 ppm sulfur	--	--	27,914	261	-7,200	--	-429	--	16,520	4,884	5,113	
Residual Fuel Oil ⁷	--	--	23,951	7,952	3,940	--	1,159	--	28,987	5,697	17,410	
Less than 0.31 percent sulfur	--	--	5,608	1,591	263	--	400	--	NA	NA	1,300	
0.31 to 1.00 percent sulfur	--	--	2,457	578	115	--	596	--	NA	NA	3,135	
Greater than 1.00 percent sulfur	--	--	15,886	5,783	3,562	--	163	--	NA	NA	12,975	
Petrochemical Feedstocks	--	--	39,649	1,601	549	--	19	--	--	41,780	2,773	
Naphtha for Petro. Feed. Use	--	--	26,356	1,462	329	--	125	--	--	28,022	2,007	
Other Oils for Petro. Feed. Use	--	--	13,293	139	220	--	-106	--	--	13,758	766	
Special Naphthas	--	--	4,305	1,856	-116	--	-251	--	--	6,296	927	
Lubricants	--	--	18,849	4,438	-2,615	--	-2,723	--	14,015	9,380	7,835	
Waxes	--	--	495	146	--	--	17	--	133	491	289	
Petroleum Coke	--	--	68,832	718	2,862	--	730	--	63,137	8,545	5,626	
Marketable	--	--	51,860	718	2,862	--	730	--	63,137	-8,427	5,626	
Catalyst	--	--	16,972	--	--	--	--	--	--	16,972	--	
Asphalt and Road Oil	--	--	12,215	--	-1,375	--	747	--	2,700	7,394	5,843	
Still Gas	--	--	51,466	--	--	--	--	--	--	51,466	--	
Miscellaneous Products	--	--	7,902	--	228	--	-35	--	149	8,016	359	
Total	1,588,863	17,746	1,220,086	383,935	-261,620	102,259	28,262	1,130,473	1,053,638	838,897	1,275,642	

-- = 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 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, biojiesel, marketable petroleum coke, and asphalt and road oil.

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

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

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

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

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

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

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil 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, May 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	7,972	--	--	2,056	1,079	652	-44	9,061	2,742	0
Hydrocarbon Gas Liquids	2,790	0	529	5	810	--	502	290	1,262	2,080
Natural Gas Liquids	2,790	0	308	--	800	--	523	290	1,262	1,824
Ethane	1,207	--	5	--	--	--	123	--	168	1,321
Propane	846	--	157	--	253	--	164	--	884	208
Normal Butane	165	--	161	--	124	--	226	32	199	-7
Isobutane	287	--	-15	--	38	--	4	128	10	168
Natural Gasoline	286	0	--	--	-14	--	5	130	1	135
Refinery Olefins	--	--	221	5	--	--	-21	--	--	257
Ethylene	--	--	--	--	--	--	0	--	--	0
Propylene	--	--	229	--	10	--	-26	--	--	265
Normal Butylene	--	--	-7	5	--	--	6	--	--	-7
Isobutylene	--	--	-1	--	--	--	0	--	--	-1
Other Liquids	--	123	--	602	-2,004	107	63	-1,694	293	167
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	123	--	7	187	72	-12	285	117	0
Hydrogen	--	--	--	--	--	121	--	121	--	0
Oxygenates (excluding Fuel Ethanol)	--	81	--	6	--	-22	-6	1	71	0
Renewable Fuels (including Fuel Ethanol)	--	42	--	--	187	-27	-6	163	46	0
Fuel Ethanol	--	22	--	--	179	4	5	154	45	0
Renewable Fuels Except Fuel Ethanol	--	20	--	--	8	-30	-11	9	0	0
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	495	38	--	48	189	130	167
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	100	-2,229	35	28	-2,168	47	0
Reformulated	--	--	--	--	-546	235	42	-354	0	0
Conventional	--	--	--	100	-1,682	-200	-15	-1,814	46	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	1	--	0
Finished Petroleum Products	--	--	7,750	139	-1,740	-15	44	--	2,644	3,447
Finished Motor Gasoline	--	--	2,293	7	-261	-39	-12	--	703	1,310
Reformulated	--	--	480	--	--	-252	--	--	--	229
Conventional	--	--	1,813	7	-261	213	-12	--	703	1,081
Finished Aviation Gasoline	--	--	8	--	-4	--	-3	--	--	7
Kerosene-Type Jet Fuel	--	--	906	--	-563	--	-26	--	147	222
Kerosene	--	--	2	--	--	--	1	--	1	0
Distillate Fuel Oil	--	--	3,008	12	-905	24	14	--	1,197	928
15 ppm sulfur and under	--	--	2,721	4	-852	24	32	--	1,000	865
Greater than 15 ppm to 500 ppm sulfur	--	--	108	--	-4	--	-6	--	89	21
Greater than 500 ppm sulfur	--	--	178	8	-49	--	-12	--	108	42
Residual Fuel Oil ⁷	--	--	171	65	22	--	58	--	175	26
Less than 0.31 percent sulfur	--	--	34	3	3	--	-10	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	20	2	1	--	5	--	NA	NA
Greater than 1.00 percent sulfur	--	--	117	60	18	--	63	--	NA	NA
Petrochemical Feedstocks	--	--	272	11	-2	--	6	--	--	274
Naphtha for Petro. Feed. Use	--	--	175	9	1	--	5	--	--	180
Other Oils for Petro. Feed. Use	--	--	97	1	-4	--	1	--	--	94
Special Naphthas	--	--	27	15	-1	--	-4	--	--	45
Lubricants	--	--	127	20	-18	--	-22	--	98	53
Waxes	--	--	3	1	--	--	-1	--	2	4
Petroleum Coke	--	--	444	7	11	--	24	--	306	132
Marketable	--	--	330	7	11	--	24	--	306	18
Catalyst	--	--	114	--	--	--	--	--	--	114
Asphalt and Road Oil	--	--	89	--	-20	--	8	--	14	46
Still Gas	--	--	351	--	--	--	--	--	--	351
Miscellaneous Products	--	--	50	--	--	--	0	--	1	48
Total	10,762	123	8,279	2,802	-1,855	744	564	7,657	6,940	5,694

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

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

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

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

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

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

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil 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-May 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	7,842	--	--	1,908	1,131	564	60	8,768	2,616	0
Hydrocarbon Gas Liquids	2,680	0	424	3	730	--	153	303	1,223	2,158
Natural Gas Liquids	2,680	0	209	--	719	--	155	303	1,223	1,927
Ethane	1,181	--	5	--	--	--	45	--	165	1,405
Propane	813	--	155	--	223	--	47	--	864	281
Normal Butane	149	--	-85	--	102	--	56	89	189	-22
Isobutane	279	--	-12	--	32	--	14	123	4	158
Natural Gasoline	257	0	--	--	-66	--	-8	91	1	106
Refinery Olefins	--	--	215	3	--	--	-2	--	--	231
Ethylene	--	--	--	--	--	--	0	--	--	0
Propylene	--	--	222	--	11	--	-1	--	--	234
Normal Butylene	--	--	-6	3	--	--	0	--	--	-2
Isobutylene	--	--	-1	--	--	--	0	--	--	-1
Other Liquids	--	118	--	512	-1,852	137	37	-1,584	406	56
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	118	--	4	187	110	1	285	132	0
Hydrogen	--	--	--	--	--	126	--	126	--	0
Oxygenates (excluding Fuel Ethanol)	--	79	--	3	--	-20	3	0	59	0
Renewable Fuels (including Fuel Ethanol)	--	39	--	1	187	5	-1	159	73	0
Fuel Ethanol	--	17	--	--	184	20	0	148	72	0
Renewable Fuels Except Fuel Ethanol	--	22	--	1	3	-15	-2	11	2	0
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	428	11	--	53	152	177	56
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	80	-2,050	27	-17	-2,021	96	0
Reformulated	--	--	--	2	-407	180	4	-230	0	0
Conventional	--	--	--	78	-1,642	-153	-21	-1,791	96	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	--	7,656	120	-1,742	-24	-64	--	2,733	3,342
Finished Motor Gasoline	--	--	2,333	3	-228	-47	-23	--	764	1,320
Reformulated	--	--	466	--	--	-199	0	--	--	267
Conventional	--	--	1,867	3	-228	152	-23	--	764	1,053
Finished Aviation Gasoline	--	--	10	0	-3	--	1	--	--	6
Kerosene-Type Jet Fuel	--	--	916	0	-565	--	-10	--	159	201
Kerosene	--	--	3	--	-4	--	2	--	1	-4
Distillate Fuel Oil	--	--	2,888	5	-964	23	-31	--	1,085	898
15 ppm sulfur and under	--	--	2,592	3	-912	23	-25	--	880	852
Greater than 15 ppm to 500 ppm sulfur	--	--	110	--	-5	--	-3	--	96	13
Greater than 500 ppm sulfur	--	--	185	2	-48	--	-3	--	109	32
Residual Fuel Oil ⁷	--	--	159	53	26	--	8	--	192	38
Less than 0.31 percent sulfur	--	--	37	11	2	--	3	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	16	4	1	--	4	--	NA	NA
Greater than 1.00 percent sulfur	--	--	105	38	24	--	1	--	NA	NA
Petrochemical Feedstocks	--	--	263	11	4	--	0	--	--	277
Naphtha for Petro. Feed. Use	--	--	175	10	2	--	1	--	--	186
Other Oils for Petro. Feed. Use	--	--	88	1	1	--	-1	--	--	91
Special Naphthas	--	--	29	12	-1	--	-2	--	--	42
Lubricants	--	--	125	29	-17	--	-18	--	93	62
Waxes	--	--	3	1	--	--	0	--	1	3
Petroleum Coke	--	--	456	5	19	--	5	--	418	57
Marketable	--	--	343	5	19	--	5	--	418	-56
Catalyst	--	--	112	--	--	--	--	--	--	112
Asphalt and Road Oil	--	--	81	--	-9	--	5	--	18	49
Still Gas	--	--	341	--	--	--	--	--	--	341
Miscellaneous Products	--	--	52	--	2	--	0	--	1	53
Total	10,522	118	8,080	2,543	-1,733	677	187	7,487	6,978	5,556

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

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

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

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

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

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

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil 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, May 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	29,338	--	--	12,051	-17,693	-1,944	1,319	20,433	--	0	25,239
Hydrocarbon Gas Liquids	12,931	-10	539	133	-11,922	--	474	480	63	654	3,565
Natural Gas Liquids	12,931	-10	488	133	-11,922	--	418	480	63	659	3,469
Ethane	3,046	--	--	--	--	--	-38	--	--	-225	456
Propane	4,930	--	292	112	-4,223	--	193	--	0	918	1,273
Normal Butane	1,901	--	202	2	-1,656	--	239	107	2	101	1,062
Isobutane	958	--	-6	19	-1,012	--	12	205	--	-258	279
Natural Gasoline	2,096	-10	--	--	-1,722	--	12	168	60	124	399
Refinery Olefins	--	--	51	--	--	--	56	--	--	-5	96
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	2	--	--	--	-1	--	--	3	0
Normal Butylene	--	--	49	--	--	--	57	--	--	-8	96
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	406	--	373	999	-1,167	690	-171	4	89	9,576
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	406	--	41	436	364	44	1,203	1	0	507
Hydrogen	--	--	--	--	--	210	--	210	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	406	--	41	436	154	44	993	1	0	507
Fuel Ethanol	--	406	--	--	376	178	33	927	--	0	415
Renewable Fuels Except Fuel Ethanol	--	0	--	41	60	-23	11	66	1	0	92
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	11	-103	3	89	3,531
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	332	563	-1,531	635	-1,271	0	0	5,538
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	563	-1,531	635	-1,271	0	0	5,538
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	21,106	175	-943	1,389	834	--	18	20,875	9,323
Finished Motor Gasoline	--	--	9,732	--	-754	1,353	72	--	3	10,256	1,685
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	9,732	--	-754	1,353	72	--	3	10,256	1,685
Finished Aviation Gasoline	--	--	6	--	--	--	1	--	--	5	9
Kerosene-Type Jet Fuel	--	--	997	--	793	--	17	--	--	1,773	748
Kerosene	--	--	--	--	--	--	0	--	--	0	1
Distillate Fuel Oil	--	--	7,144	160	-98	35	734	--	--	6,507	4,294
15 ppm sulfur and under	--	--	7,068	160	-98	35	692	--	--	6,473	4,047
Greater than 15 ppm to 500 ppm sulfur	--	--	72	--	--	--	37	--	--	35	179
Greater than 500 ppm sulfur	--	--	4	--	--	--	5	--	--	-1	68
Residual Fuel Oil ⁶	--	--	353	--	--	--	-1	--	4	350	215
Less than 0.31 percent sulfur	--	--	157	--	--	--	12	--	NA	NA	29
0.31 to 1.00 percent sulfur	--	--	29	--	--	--	3	--	NA	NA	6
Greater than 1.00 percent sulfur	--	--	167	--	--	--	-16	--	NA	NA	180
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	8	-8	--
Waxes	--	--	--	--	--	--	--	--	0	0	--
Petroleum Coke	--	--	751	--	-295	--	-22	--	1	477	83
Marketable	--	--	510	--	-295	--	-22	--	1	236	83
Catalyst	--	--	241	--	--	--	--	--	--	241	--
Asphalt and Road Oil	--	--	1,289	14	-589	--	39	--	2	673	2,274
Still Gas	--	--	724	--	--	--	--	--	--	724	--
Miscellaneous Products	--	--	110	1	--	--	-6	--	0	117	14
Total	42,269	396	21,645	12,732	-29,559	-1,722	3,317	20,742	85	21,617	47,703

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

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

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

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

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

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil 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-May 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	139,283	--	--	55,499	-89,025	-9,232	3,699	92,826	--	0	25,239
Hydrocarbon Gas Liquids	65,396	-51	1,273	2,091	-55,994	--	105	3,014	1,465	8,131	3,565
Natural Gas Liquids	65,396	-51	1,045	2,091	-55,994	--	46	3,014	1,465	7,962	3,469
Ethane	18,701	--	--	--	--	--	-9	--	--	337	456
Propane	23,692	--	1,162	1,733	-18,692	--	-123	--	2	8,016	1,273
Normal Butane	9,034	--	-85	271	-7,453	--	119	1,207	8	433	1,062
Isobutane	4,538	--	-32	87	-4,163	--	12	1,015	--	-597	279
Natural Gasoline	9,431	-51	--	--	-7,313	--	47	792	1,455	-227	399
Refinery Olefins	--	--	228	--	--	--	59	--	--	169	96
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	17	--	--	--	-1	--	--	18	0
Normal Butylene	--	--	232	--	--	--	65	--	--	167	96
Isobutylene	--	--	-21	--	--	--	-5	--	--	-16	0
Other Liquids	--	2,011	--	709	1,957	-5,183	-62	-1,960	16	1,499	9,576
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	2,011	--	63	1,665	1,869	40	5,567	1	0	507
Hydrogen	--	--	--	--	--	994	--	994	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0	--
Renewable Fuels (including Fuel Ethanol)	--	2,011	--	63	1,665	875	40	4,573	1	0	507
Fuel Ethanol	--	2,011	--	--	1,405	988	62	4,342	--	0	415
Renewable Fuels Except Fuel Ethanol	--	0	--	63	259	-113	-22	231	1	0	92
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	34	-1,548	15	1,499	3,531
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	646	292	-7,053	-136	-5,979	0	0	5,538
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	292	-7,053	-136	-5,979	0	0	5,538
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	96,339	797	-4,198	6,158	347	--	85	98,663	9,323
Finished Motor Gasoline	--	--	45,469	--	-3,051	6,065	72	--	6	48,404	1,685
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	45,469	--	-3,051	6,065	72	--	6	48,404	1,685
Finished Aviation Gasoline	--	--	20	2	--	--	-1	--	--	23	9
Kerosene-Type Jet Fuel	--	--	4,870	--	3,761	--	-66	--	--	8,697	748
Kerosene	--	--	--	--	--	--	-1	--	--	1	1
Distillate Fuel Oil	--	--	31,602	508	-694	93	-150	--	0	31,659	4,294
15 ppm sulfur and under	--	--	31,366	508	-694	93	-110	--	0	31,383	4,047
Greater than 15 ppm to 500 ppm sulfur	--	--	254	--	--	--	-22	--	--	276	179
Greater than 500 ppm sulfur	--	--	-18	--	--	--	-18	--	--	0	68
Residual Fuel Oil ⁶	--	--	1,848	97	--	--	-21	--	35	1,931	215
Less than 0.31 percent sulfur	--	--	936	--	--	--	4	--	NA	NA	29
0.31 to 1.00 percent sulfur	--	--	117	--	--	--	-2	--	NA	NA	6
Greater than 1.00 percent sulfur	--	--	795	97	--	--	-23	--	NA	NA	180
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	1	--	--	--	--	36	-35	--
Waxes	--	--	--	--	--	--	--	--	1	-1	--
Petroleum Coke	--	--	3,658	--	-1,460	--	-111	--	1	2,308	83
Marketable	--	--	2,570	--	-1,460	--	-111	--	1	1,220	83
Catalyst	--	--	1,088	--	--	--	--	--	--	1,088	--
Asphalt and Road Oil	--	--	5,171	184	-2,754	--	627	--	5	1,970	2,274
Still Gas	--	--	3,246	--	--	--	--	--	--	3,246	--
Miscellaneous Products	--	--	455	5	--	--	-2	--	2	460	14
Total	204,679	1,960	97,612	59,096	-147,261	-8,258	4,089	93,880	1,567	108,293	47,703

-- = 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 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, bioiesel, marketable petroleum coke, and asphalt and road oil.

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

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

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

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

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

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil 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, May 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	946	--	--	389	-571	-63	43	659	--	0
Hydrocarbon Gas Liquids	417	0	17	4	-385	--	15	15	2	21
Natural Gas Liquids	417	0	16	4	-385	--	13	15	2	21
Ethane	98	--	--	--	--	--	-1	--	--	-7
Propane	159	--	9	4	-136	--	6	--	0	30
Normal Butane	61	--	7	0	-53	--	8	3	0	3
Isobutane	31	--	0	1	-33	--	0	7	--	-8
Natural Gasoline	68	0	--	--	-56	--	0	5	2	4
Refinery Olefins	--	--	2	--	--	--	2	--	--	0
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	0	--	--	--	0	--	--	0
Normal Butylene	--	--	2	--	--	--	2	--	--	0
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	13	--	12	32	-38	22	-6	0	3
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	13	--	1	14	12	1	39	0	0
Hydrogen	--	--	--	--	--	7	--	7	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	13	--	1	14	5	1	32	0	0
Fuel Ethanol	--	13	--	--	12	6	1	30	--	0
Renewable Fuels Except Fuel Ethanol	--	0	--	1	2	-1	0	2	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	0	-3	0	3
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	11	18	-49	20	-41	0	0
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	18	-49	20	-41	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	681	6	-30	45	27	--	1	673
Finished Motor Gasoline	--	--	314	--	-24	44	2	--	0	331
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	314	--	-24	44	2	--	0	331
Finished Aviation Gasoline	--	--	0	--	--	--	0	--	--	0
Kerosene-Type Jet Fuel	--	--	32	--	26	--	1	--	--	57
Kerosene	--	--	--	--	--	--	0	--	--	0
Distillate Fuel Oil	--	--	230	5	-3	1	24	--	--	210
15 ppm sulfur and under	--	--	228	5	-3	1	22	--	--	209
Greater than 15 ppm to 500 ppm sulfur	--	--	2	--	--	--	1	--	--	1
Greater than 500 ppm sulfur	--	--	0	--	--	--	0	--	--	0
Residual Fuel Oil ⁶	--	--	11	--	--	--	0	--	0	11
Less than 0.31 percent sulfur	--	--	5	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	1	--	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	5	--	--	--	-1	--	NA	NA
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	0	0
Waxes	--	--	--	--	--	--	--	--	0	0
Petroleum Coke	--	--	24	--	-10	--	-1	--	0	15
Marketable	--	--	16	--	-10	--	-1	--	0	8
Catalyst	--	--	8	--	--	--	--	--	--	8
Asphalt and Road Oil	--	--	42	0	-19	--	1	--	0	22
Still Gas	--	--	23	--	--	--	--	--	--	23
Miscellaneous Products	--	--	4	0	--	--	0	--	0	4
Total	1,364	13	698	411	-954	-56	107	669	3	697

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

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

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

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

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

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil 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-May 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	922	--	--	368	-590	-61	24	615	--	0
Hydrocarbon Gas Liquids	433	0	8	14	-371	--	1	20	10	54
Natural Gas Liquids	433	0	7	14	-371	--	0	20	10	53
Ethane	124	--	--	--	--	--	0	--	--	2
Propane	157	--	8	11	-124	--	-1	--	0	53
Normal Butane	60	--	-1	2	-49	--	1	8	0	3
Isobutane	30	--	0	1	-28	--	0	7	--	-4
Natural Gasoline	62	0	--	--	-48	--	0	5	10	-2
Refinery Olefins	--	--	2	--	--	--	0	--	--	1
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	0	--	--	--	0	--	--	0
Normal Butylene	--	--	2	--	--	--	0	--	--	1
Isobutylene	--	--	0	--	--	--	0	--	--	0
Other Liquids	--	13	--	5	13	-34	0	-13	0	10
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	13	--	0	11	12	0	37	0	0
Hydrogen	--	--	--	--	--	7	--	7	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	13	--	0	11	6	0	30	0	0
Fuel Ethanol	--	13	--	--	9	7	0	29	--	0
Renewable Fuels Except Fuel Ethanol	--	0	--	0	2	-1	0	2	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	0	-10	0	10
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	4	2	-47	-1	-40	0	0
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	2	-47	-1	-40	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	638	5	-28	41	2	--	1	653
Finished Motor Gasoline	--	--	301	--	-20	40	0	--	0	321
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	301	--	-20	40	0	--	0	321
Finished Aviation Gasoline	--	--	0	0	--	--	0	--	--	0
Kerosene-Type Jet Fuel	--	--	32	--	25	--	0	--	--	58
Kerosene	--	--	--	--	--	--	0	--	--	0
Distillate Fuel Oil	--	--	209	3	-5	1	-1	--	0	210
15 ppm sulfur and under	--	--	208	3	-5	1	-1	--	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	--	--	34	1	-18	--	4	--	0	13
Still Gas	--	--	21	--	--	--	--	--	--	21
Miscellaneous Products	--	--	3	0	--	--	0	--	0	3
Total	1,355	13	646	391	-975	-55	27	622	10	717

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

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

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

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

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

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil 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, May 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	29,153	--	--	35,621	6,368	2,680	-1,076	73,848	1,050	0	52,006
Hydrocarbon Gas Liquids	1,837	-12	1,865	1,322	744	--	518	2,346	1,875	1,017	3,055
Natural Gas Liquids	1,837	-12	2,103	1,322	744	--	531	2,346	1,875	1,242	3,003
Ethane	1	--	--	--	--	--	--	--	0	1	--
Propane	304	--	1,071	823	241	--	337	--	1,091	1,011	804
Normal Butane	177	--	964	449	202	--	207	759	765	61	1,674
Isobutane	504	--	68	50	301	--	-17	831	0	109	469
Natural Gasoline	851	-12	--	--	--	--	4	756	18	61	56
Refinery Olefins	--	--	-238	--	--	--	-13	--	--	-225	52
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	5	--	--	--	-3	--	--	8	2
Normal Butylene	--	--	-243	--	--	--	-10	--	--	-233	50
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	865	--	7,752	9,391	211	4,610	12,635	436	537	55,713
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	865	--	683	4,597	949	35	6,733	327	0	4,445
Hydrogen	--	--	--	--	--	1,150	--	1,150	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0	--
Renewable Fuels (including Fuel Ethanol)	--	865	--	683	4,597	-201	35	5,583	327	0	4,445
Fuel Ethanol	--	526	--	--	4,358	338	68	4,924	230	0	2,470
Renewable Fuels Except Fuel Ethanol	--	339	--	683	239	-538	-33	659	97	0	1,975
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	2,998	--	--	1,827	606	28	537	22,519
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	4,071	4,794	-739	2,748	5,296	82	0	28,749
Reformulated	--	--	--	642	2,446	2,353	1,886	3,554	1	0	14,257
Conventional	--	--	--	3,429	2,348	-3,092	862	1,742	81	0	14,492
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	92,188	6,821	2,196	569	1,162	--	8,277	92,334	35,162
Finished Motor Gasoline	--	--	49,054	762	590	401	266	--	709	49,832	2,194
Reformulated	--	--	34,624	--	--	-1,433	1	--	--	33,190	19
Conventional	--	--	14,430	762	590	1,834	265	--	709	16,642	2,175
Finished Aviation Gasoline	--	--	--	13	--	--	-94	--	--	107	121
Kerosene-Type Jet Fuel	--	--	13,218	4,289	320	--	570	--	392	16,865	8,791
Kerosene	--	--	-1	--	--	--	2	--	0	-3	18
Distillate Fuel Oil	--	--	16,976	728	807	167	61	--	1,882	16,735	13,184
15 ppm sulfur and under	--	--	16,179	727	807	167	-108	--	1,192	16,797	12,141
Greater than 15 ppm to 500 ppm sulfur	--	--	348	--	--	--	85	--	452	-189	255
Greater than 500 ppm sulfur	--	--	449	1	--	--	84	--	239	127	788
Residual Fuel Oil ⁶	--	--	3,349	828	--	--	485	--	1,745	1,947	4,953
Less than 0.31 percent sulfur	--	--	10	--	--	--	367	--	NA	NA	486
0.31 to 1.00 percent sulfur	--	--	380	315	--	--	190	--	NA	NA	504
Greater than 1.00 percent sulfur	--	--	2,959	513	--	--	-72	--	NA	NA	3,957
Petrochemical Feedstocks	--	--	1	--	--	--	0	--	--	1	3
Naphtha for Petro. Feed. Use	--	--	1	--	--	--	0	--	--	1	3
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	46	--	--	--	25	--	--	21	58
Lubricants	--	--	549	29	-95	--	-41	--	88	436	879
Waxes	--	--	--	36	--	--	--	--	5	31	--
Petroleum Coke	--	--	4,229	27	21	--	90	--	3,405	782	1,749
Marketable	--	--	3,165	27	21	--	90	--	3,405	-282	1,749
Catalyst	--	--	1,064	--	--	--	--	--	--	1,064	--
Asphalt and Road Oil	--	--	814	109	554	--	-197	--	50	1,623	3,134
Still Gas	--	--	3,586	--	--	--	--	--	--	3,586	--
Miscellaneous Products	--	--	367	--	--	--	-5	--	0	372	78
Total	30,990	853	94,053	51,516	18,699	3,460	5,214	88,829	11,639	93,889	145,936

-- = 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 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.

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

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

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

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

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

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil 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-May 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	143,172	--	--	183,320	26,380	9,126	6,860	353,333	1,805	0	52,006
Hydrocarbon Gas Liquids	9,280	-55	6,994	8,690	4,143	--	-504	12,612	6,961	9,983	3,055
Natural Gas Liquids	9,280	-55	6,697	8,690	4,143	--	-506	12,612	6,961	9,688	3,003
Ethane	9	--	--	--	--	--	--	--	1	8	--
Propane	1,485	--	4,882	5,250	1,577	--	-609	--	4,365	9,438	804
Normal Butane	1,668	--	1,214	3,049	1,863	--	16	5,092	2,525	161	1,674
Isobutane	1,805	--	601	391	703	--	65	3,637	4	-206	469
Natural Gasoline	4,313	-55	--	--	--	--	22	3,883	66	287	56
Refinery Olefins	--	--	297	--	--	--	2	--	--	295	52
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	672	--	--	--	-10	--	--	682	2
Normal Butylene	--	--	-375	--	--	--	12	--	--	-387	50
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	3,881	--	24,429	46,930	-3,454	3,996	64,005	2,274	1,511	55,713
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	3,881	--	3,097	23,099	2,781	-516	32,087	1,287	0	4,445
Hydrogen	--	--	--	--	--	5,754	--	5,754	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	3	--	--	3	0	--
Renewable Fuels (including Fuel Ethanol)	--	3,881	--	3,097	23,099	-2,976	-516	26,333	1,284	0	4,445
Fuel Ethanol	--	2,594	--	564	21,205	-644	-702	23,405	1,016	0	2,470
Renewable Fuels Except Fuel Ethanol	--	1,287	--	2,533	1,894	-2,332	186	2,928	268	0	1,975
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	11,325	--	--	3,069	6,375	370	1,511	22,519
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	10,007	23,831	-6,234	1,443	25,543	618	0	28,749
Reformulated	--	--	--	1,940	11,683	4,397	1,493	16,520	7	0	14,257
Conventional	--	--	--	8,067	12,148	-10,632	-50	9,023	610	0	14,492
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	450,224	24,583	10,915	7,297	-729	--	53,585	440,163	35,162
Finished Motor Gasoline	--	--	234,669	2,332	2,555	6,878	110	--	5,489	240,836	2,194
Reformulated	--	--	166,190	--	--	-2,235	5	--	--	163,950	19
Conventional	--	--	68,479	2,332	2,555	9,114	105	--	5,489	76,886	2,175
Finished Aviation Gasoline	--	--	86	17	--	--	-94	--	--	197	121
Kerosene-Type Jet Fuel	--	--	65,007	14,993	1,530	--	-1,131	--	3,539	79,122	8,791
Kerosene	--	--	35	--	--	--	-55	--	10	80	18
Distillate Fuel Oil	--	--	86,778	1,774	4,539	419	-665	--	19,834	74,341	13,184
15 ppm sulfur and under	--	--	82,810	1,769	4,539	419	-722	--	13,893	76,365	12,141
Greater than 15 ppm to 500 ppm sulfur	--	--	1,606	--	--	--	11	--	3,028	-1,433	255
Greater than 500 ppm sulfur	--	--	2,362	5	--	--	46	--	2,913	-592	788
Residual Fuel Oil ⁶	--	--	16,761	3,828	--	--	439	--	5,284	14,866	4,953
Less than 0.31 percent sulfur	--	--	37	338	--	--	224	--	NA	NA	486
0.31 to 1.00 percent sulfur	--	--	1,949	1,132	--	--	37	--	NA	NA	504
Greater than 1.00 percent sulfur	--	--	14,775	2,358	--	--	178	--	NA	NA	3,957
Petrochemical Feedstocks	--	--	13	143	--	--	-2	--	--	158	3
Naphtha for Petro. Feed. Use	--	--	13	143	--	--	-2	--	--	158	3
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	139	--	--	--	1	--	--	138	58
Lubricants	--	--	2,360	485	-137	--	-390	--	1,392	1,706	879
Waxes	--	--	--	215	--	--	--	--	25	190	--
Petroleum Coke	--	--	21,842	110	-2	--	278	--	17,663	4,009	1,749
Marketable	--	--	17,029	110	-2	--	278	--	17,663	-804	1,749
Catalyst	--	--	4,813	--	--	--	--	--	--	4,813	--
Asphalt and Road Oil	--	--	3,458	686	2,430	--	801	--	349	5,424	3,134
Still Gas	--	--	17,107	--	--	--	--	--	--	17,107	--
Miscellaneous Products	--	--	1,969	--	--	--	-21	--	1	1,989	78
Total	152,452	3,826	457,218	241,022	88,367	12,970	9,623	429,950	64,625	451,657	145,936

-- = 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 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.

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

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

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

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

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

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil 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, May 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	940	--	--	1,149	205	86	-35	2,382	34	0
Hydrocarbon Gas Liquids	59	0	60	43	24	--	17	76	60	33
Natural Gas Liquids	59	0	68	43	24	--	17	76	60	40
Ethane	0	--	--	--	--	--	--	--	0	0
Propane	10	--	35	27	8	--	11	--	35	33
Normal Butane	6	--	31	14	7	--	7	24	25	2
Isobutane	16	--	2	2	10	--	-1	27	0	4
Natural Gasoline	27	0	--	--	--	--	0	24	1	2
Refinery Olefins	--	--	-8	--	--	--	0	--	--	-7
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	0	--	--	--	0	--	--	0
Normal Butylene	--	--	-8	--	--	--	0	--	--	-8
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	28	--	250	303	7	149	408	14	17
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	28	--	22	148	31	1	217	11	0
Hydrogen	--	--	--	--	--	37	--	37	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	28	--	22	148	-6	1	180	11	0
Fuel Ethanol	--	17	--	--	141	11	2	159	7	0
Renewable Fuels Except Fuel Ethanol	--	11	--	22	8	-17	-1	21	3	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	97	--	--	59	20	1	17
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	131	155	-24	89	171	3	0
Reformulated	--	--	--	21	79	76	61	115	0	0
Conventional	--	--	--	111	76	-100	28	56	3	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	2,974	220	71	18	37	--	267	2,979
Finished Motor Gasoline	--	--	1,582	25	19	13	9	--	23	1,607
Reformulated	--	--	1,117	--	--	-46	0	--	--	1,071
Conventional	--	--	465	25	19	59	9	--	23	537
Finished Aviation Gasoline	--	--	--	0	--	--	-3	--	--	3
Kerosene-Type Jet Fuel	--	--	426	138	10	--	18	--	13	544
Kerosene	--	--	0	--	--	--	0	--	0	0
Distillate Fuel Oil	--	--	548	23	26	5	2	--	61	540
15 ppm sulfur and under	--	--	522	23	26	5	-3	--	38	542
Greater than 15 ppm to 500 ppm sulfur	--	--	11	--	--	--	3	--	15	-6
Greater than 500 ppm sulfur	--	--	14	0	--	--	3	--	8	4
Residual Fuel Oil ⁶	--	--	108	27	--	--	16	--	56	63
Less than 0.31 percent sulfur	--	--	0	--	--	--	12	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	12	10	--	--	6	--	NA	NA
Greater than 1.00 percent sulfur	--	--	95	17	--	--	-2	--	NA	NA
Petrochemical Feedstocks	--	--	0	--	--	--	0	--	--	0
Naphtha for Petro. Feed. Use	--	--	0	--	--	--	0	--	--	0
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	1	--	--	--	1	--	--	1
Lubricants	--	--	18	1	-3	--	-1	--	3	14
Waxes	--	--	--	1	--	--	--	--	0	1
Petroleum Coke	--	--	136	1	1	--	3	--	110	25
Marketable	--	--	102	1	1	--	3	--	110	-9
Catalyst	--	--	34	--	--	--	--	--	--	34
Asphalt and Road Oil	--	--	26	4	18	--	-6	--	2	52
Still Gas	--	--	116	--	--	--	--	--	--	116
Miscellaneous Products	--	--	12	--	--	--	0	--	0	12
Total	1,000	28	3,034	1,662	603	112	168	2,865	375	3,029

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

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

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, minus 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-May 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	948	--	--	1,214	175	60	45	2,340	12	0
Hydrocarbon Gas Liquids	61	0	46	58	27	--	-3	84	46	66
Natural Gas Liquids	61	0	44	58	27	--	-3	84	46	64
Ethane	0	--	--	--	--	--	--	--	0	0
Propane	10	--	32	35	10	--	-4	--	29	63
Normal Butane	11	--	8	20	12	--	0	34	17	1
Isobutane	12	--	4	3	5	--	0	24	0	-1
Natural Gasoline	29	0	--	--	--	--	0	26	0	2
Refinery Olefins	--	--	2	--	--	--	0	--	--	2
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	4	--	--	--	0	--	--	5
Normal Butylene	--	--	-2	--	--	--	0	--	--	-3
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	26	--	162	311	-23	26	424	15	10
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	26	--	21	153	18	-3	212	9	0
Hydrogen	--	--	--	--	--	38	--	38	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	26	--	21	153	-20	-3	174	9	0
Fuel Ethanol	--	17	--	4	140	-4	-5	155	7	0
Renewable Fuels Except Fuel Ethanol	--	9	--	17	13	-15	1	19	2	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	75	--	--	20	42	2	10
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	66	158	-41	10	169	4	0
Reformulated	--	--	--	13	77	29	10	109	0	0
Conventional	--	--	--	53	80	-70	0	60	4	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	2,982	163	72	48	-5	--	355	2,915
Finished Motor Gasoline	--	--	1,554	15	17	46	1	--	36	1,595
Reformulated	--	--	1,101	--	--	-15	0	--	--	1,086
Conventional	--	--	454	15	17	60	1	--	36	509
Finished Aviation Gasoline	--	--	1	0	--	--	-1	--	--	1
Kerosene-Type Jet Fuel	--	--	431	99	10	--	-7	--	23	524
Kerosene	--	--	0	--	--	--	0	--	0	1
Distillate Fuel Oil	--	--	575	12	30	3	-4	--	131	492
15 ppm sulfur and under	--	--	548	12	30	3	-5	--	92	506
Greater than 15 ppm to 500 ppm sulfur	--	--	11	--	--	--	0	--	20	-9
Greater than 500 ppm sulfur	--	--	16	0	--	--	0	--	19	-4
Residual Fuel Oil ⁶	--	--	111	25	--	--	3	--	35	98
Less than 0.31 percent sulfur	--	--	0	2	--	--	1	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	13	7	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	98	16	--	--	1	--	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	--	--	16	3	-1	--	-3	--	9	11
Waxes	--	--	--	1	--	--	--	--	0	1
Petroleum Coke	--	--	145	1	0	--	2	--	117	27
Marketable	--	--	113	1	0	--	2	--	117	-5
Catalyst	--	--	32	--	--	--	--	--	--	32
Asphalt and Road Oil	--	--	23	5	16	--	5	--	2	36
Still Gas	--	--	113	--	--	--	--	--	--	113
Miscellaneous Products	--	--	13	--	--	--	0	--	0	13
Total	1,010	25	3,028	1,596	585	86	64	2,847	428	2,991

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

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

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

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

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

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil 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, May 2019
(Thousand Barrels, Except Where Noted)

Process	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Supply							
Field Production	1,970	67,757	247,137	29,338	29,153	375,354	12,108
Alaskan	--	--	--	--	--	14,708	474
Lower 48 States	--	--	--	--	--	360,646	11,634
Imports (PAD District of Entry)	25,555	84,939	63,734	12,051	35,621	221,900	7,158
Commercial	25,555	84,939	63,734	12,051	35,621	221,900	7,158
Strategic Petroleum Reserve (SPR)	--	--	--	--	--	--	--
Net Receipts	6,990	-29,108	33,443	-17,693	6,368	--	--
Adjustments ¹	2,389	-4,815	20,201	-1,944	2,680	18,512	597
Disposition							
Stock Change ²	2,471	6,214	-1,369	1,319	-1,076	7,559	244
Commercial	--	--	2,401	--	--	11,329	365
SPR	--	--	-3,770	--	--	-3,770	-122
Refinery Inputs	33,700	109,421	280,897	20,433	73,848	518,299	16,719
Exports	733	3,138	84,987	--	1,050	89,908	2,900
Ending Stocks							
Total	15,125	142,986	889,620	25,239	52,006	1,124,976	--
Commercial	15,125	142,986	244,802	25,239	52,006	480,158	--
Refinery	12,188	15,077	50,795	2,819	21,725	102,604	--
Tank Farms and Pipelines	2,937	127,909	194,007	22,420	26,296	373,569	--
Cushing, Oklahoma	--	51,271	--	--	--	51,271	--
Lease	--	--	--	--	--	--	--
Alaskan Crude Oil In-Transit by Water	--	--	--	--	3,985	3,985	--
SPR	--	--	644,818	--	--	644,818	--
SPR Stocks							
Percent of Total Crude Oil Stocks (Percent)	--	--	--	--	--	57.3	--
Percent of Total Petroleum Stocks (Percent)	--	--	--	--	--	32.9	--
Days of Total Petroleum Net Imports (Days)	--	--	--	--	--	407	--
SPR Receipts Detail							
Receipts	--	--	--	--	--	--	--
Domestic	--	--	--	--	--	--	--
Imports	--	--	--	--	--	--	--
Imported by SPR	--	--	--	--	--	--	--
Imported for SPR by Others	--	--	--	--	--	--	--
Imports							
PAD District of Entry	25,555	84,939	63,734	12,051	35,621	221,900	7,158
PAD District of Processing	27,541	73,517	74,870	9,529	36,443	221,900	7,158

-- = 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, May 2019
(Thousand Barrels)

PAD District and State	May 2019		January-May 2019	
	Total	Daily Average	Total	Daily Average
PAD District 1	1,970	64	9,486	63
Florida	141	5	710	5
New York	19	1	91	1
Pennsylvania	580	19	2,629	17
Virginia	0	0	1	0
West Virginia	1,229	40	6,055	40
PAD District 2	67,757	2,186	326,215	2,160
Illinois	713	23	3,383	22
Indiana	137	4	668	4
Kansas	2,810	91	13,909	92
Kentucky	220	7	881	6
Michigan	440	14	2,130	14
Missouri	6	0	30	0
Nebraska	153	5	816	5
North Dakota	42,282	1,364	204,622	1,355
Ohio	2,195	71	10,115	67
Oklahoma	18,689	603	89,085	590
South Dakota	96	3	489	3
Tennessee	16	1	87	1
PAD District 3	247,137	7,972	1,184,141	7,842
Alabama	424	14	2,126	14
Arkansas	395	13	1,951	13
Louisiana	3,752	121	18,267	121
Mississippi	1,500	48	7,205	48
New Mexico	27,902	900	130,440	864
Texas	154,145	4,972	739,358	4,896
Federal Offshore PAD District 3	59,018	1,904	284,795	1,886
PAD District 4	29,338	946	139,283	922
Colorado	15,344	495	73,542	487
Idaho	2	0	12	0
Montana	2,100	68	9,702	64
Utah	3,280	106	15,666	104
Wyoming	8,611	278	40,362	267
PAD District 5	29,153	940	143,172	948
Alaska	14,708	474	72,921	483
South Alaska	427	14	2,254	15
North Slope	14,281	461	70,667	468
Arizona	1	0	4	0
California	14,070	454	68,552	454
Nevada	25	1	105	1
Federal Offshore PAD District 5	349	11	1,591	11
U.S. Total	375,354	12,108	1,802,296	11,936

- = 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, May 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	12	16,781	16,793	5,404	8,490	18,020	31,914
Natural Gas Liquids	12	16,781	16,793	5,404	8,490	18,020	31,914
Ethane	-	6,844	6,844	1,633	1,585	7,963	11,181
Propane	4	5,709	5,713	2,312	3,510	5,425	11,247
Normal Butane	8	1,842	1,850	485	1,526	1,893	3,904
Isobutane	-	783	783	566	459	908	1,933
Natural Gasoline	-	1,603	1,603	408	1,410	1,831	3,649

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	66,459	5,760	5,977	733	7,571	86,500	12,931	1,837	149,975
Natural Gas Liquids	66,459	5,760	5,977	733	7,571	86,500	12,931	1,837	149,975
Ethane	29,095	2,748	2,268	241	3,074	37,426	3,046	1	58,498
Propane	20,024	1,614	1,988	175	2,412	26,213	4,930	304	48,407
Normal Butane	6,788	-3,146	682	80	715	5,119	1,901	177	12,951
Isobutane	3,788	4,058	404	64	569	8,883	958	504	13,061
Natural Gasoline	6,764	486	635	173	801	8,859	2,096	851	17,058

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	241	247	812	150	524	1,486
Natural Gas Liquids	6	241	247	812	150	524	1,486
Ethane	-	-	-	33	2	107	142
Propane	3	114	117	483	71	155	709
Normal Butane	3	47	50	122	25	79	226
Isobutane	-	15	15	91	5	66	162
Natural Gasoline	-	65	65	83	47	117	247

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	149	765	1,854	21	-	2,789	206	243	4,971
Natural Gas Liquids	149	765	1,854	21	-	2,789	206	243	4,971
Ethane	44	248	-	-	-	292	4	-	438
Propane	29	312	27	15	-	383	90	20	1,319
Normal Butane	15	129	1,142	5	-	1,291	45	145	1,757
Isobutane	32	17	176	-	-	225	19	31	452
Natural Gasoline	29	59	509	1	-	598	48	47	1,005

- = 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, May 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	30,654	3,046	33,700	67,871	15,304	26,246	109,421
Hydrocarbon Gas Liquids	489	-	489	1,290	59	610	1,959
Natural Gas Liquids	489	-	489	1,290	59	610	1,959
Normal Butane	4	-	4	9	2	21	32
Isobutane	383	-	383	796	53	409	1,258
Natural Gasoline	102	-	102	485	4	180	669
Other Liquids	82,613	6,732	89,345	19,902	4,152	4,404	28,458
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	10,287	865	11,152	6,099	1,701	1,920	9,720
Hydrogen	92	11	103	698	288	169	1,155
Oxygenates (excluding Fuel Ethanol)	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE)	-	-	-	-	-	-	-
All Other Oxygenates ¹	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	10,195	854	11,049	5,383	1,413	1,751	8,547
Fuel Ethanol	9,959	775	10,734	5,106	1,152	1,675	7,933
Renewable Diesel Fuel ²	236	79	315	277	261	76	614
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	-	18	-	-	18
Unfinished Oils (net)	2,516	-85	2,431	57	-338	-33	-314
Naphthas and Lighter	914	-45	869	563	-175	-214	174
Kerosene and Light Gas Oils	-391	-	-391	762	-168	91	685
Heavy Gas Oils	1,687	-38	1,649	-1,200	5	181	-1,014
Residuum	306	-2	304	-68	-	-91	-159
Motor Gasoline Blend.Comp. (MGBC)(net)	69,810	5,952	75,762	13,746	2,789	2,517	19,052
Reformulated - RBOB	14,489	637	15,126	-85	1,508	1,034	2,457
Conventional	55,321	5,315	60,636	13,831	1,281	1,483	16,595
CBOB	39,966	5,311	45,277	11,961	1,153	1,372	14,486
GTAB	6,245	-	6,245	-	-	-	-
Other	9,110	4	9,114	1,870	128	111	2,109
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input	113,756	9,778	123,534	89,063	19,515	31,260	139,838

See footnotes at end of table.

Table 28. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, May 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	22,005	138,255	108,782	7,535	4,320	280,897	20,433	73,848	518,299
Hydrocarbon Gas Liquids	572	4,089	4,101	28	190	8,980	480	2,346	14,254
Natural Gas Liquids	572	4,089	4,101	28	190	8,980	480	2,346	14,254
Normal Butane	170	690	117	3	1	981	107	759	1,883
Isobutane	242	1,848	1,680	22	189	3,981	205	831	6,658
Natural Gasoline	160	1,551	2,304	3	-	4,018	168	756	5,713
Other Liquids	9,273	-39,929	-28,897	7,620	-567	-52,500	-171	12,635	77,767
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	2,251	2,993	2,191	1,151	253	8,839	1,203	6,733	37,647
Hydrogen	3	2,040	1,606	66	49	3,764	210	1,150	6,382
Oxygenates (excluding Fuel Ethanol)	-	26	-	-	-	26	-	-	26
Methyl Tertiary Butyl Ether (MTBE)	-	26	-	-	-	26	-	-	26
All Other Oxygenates ¹	-	-	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	2,248	927	585	1,085	204	5,049	993	5,583	31,221
Fuel Ethanol	2,129	867	535	1,072	177	4,780	927	4,924	29,298
Renewable Diesel Fuel ²	119	60	50	13	27	269	66	654	1,918
Other Renewable Fuels	-	-	-	-	-	-	-	5	5
Other Hydrocarbons	-	-	-	-	-	-	-	-	18
Unfinished Oils (net)	123	-3,414	9,625	-296	-188	5,850	-103	606	8,470
Naphthas and Lighter	22	-7,111	379	5	-84	-6,789	-66	243	-5,569
Kerosene and Light Gas Oils	-76	-1,727	1,295	-124	-83	-715	-240	-1,699	-2,360
Heavy Gas Oils	201	3,949	5,930	-80	-21	9,979	376	3,351	14,341
Residuum	-24	1,475	2,021	-97	-	3,375	-173	-1,289	2,058
Motor Gasoline Blend.Comp. (MGBC)(net)	6,884	-39,508	-40,717	6,765	-632	-67,208	-1,271	5,296	31,631
Reformulated - RBOB	6,217	-10,088	-6,233	-	-870	-10,974	-	3,554	10,163
Conventional	667	-29,420	-34,484	6,765	238	-56,234	-1,271	1,742	21,468
CBOB	668	-33,714	-34,543	6,807	261	-60,521	-1,290	293	-1,755
GTAB	-	-	-	-	-	-	-	-	6,245
Other	-1	4,294	59	-42	-23	4,287	19	1,449	16,978
Aviation Gasoline Blend. Comp. (net)	15	-	4	-	-	19	-	-	19
Total Input	31,850	102,415	83,986	15,183	3,943	237,377	20,742	88,829	610,320

- = 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, May 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	1,892	75	1,967	4,701	633	779	6,113
Natural Gas Liquids	1,287	75	1,362	3,710	505	573	4,788
Ethane	-	-	-	-	-	-	-
Propane	657	29	686	1,459	283	458	2,200
Normal Butane	598	60	658	2,150	248	88	2,486
Isobutane	32	-14	18	101	-26	27	102
Natural Gasoline	-	-	-	-	-	-	-
Refinery Olefins	605	-	605	991	128	206	1,325
Ethylene	20	-	20	-	-	-	-
Propylene	483	-	483	856	128	206	1,190
Normal Butylene	57	-	57	135	-	-	135
Isobutylene	45	-	45	-	-	-	-
Finished Motor Gasoline	96,331	7,807	104,138	53,970	11,351	17,413	82,734
Reformulated	40,622	411	41,033	8,586	1,533	1,148	11,267
Reformulated Blended with Fuel Ethanol	40,622	411	41,033	8,586	1,533	1,148	11,267
Reformulated Other	-	-	-	-	-	-	-
Conventional	55,709	7,396	63,105	45,384	9,818	16,265	71,467
Conventional Blended with Fuel Ethanol	58,056	7,357	65,413	42,140	9,988	15,011	67,139
Ed55 and Lower	58,012	7,357	65,369	42,129	9,956	14,935	67,020
Greater than Ed55	44	-	44	11	32	76	119
Conventional Other	-2,347	39	-2,308	3,244	-170	1,254	4,328
Finished Aviation Gasoline	-	-	-	-	59	-	59
Kerosene-Type Jet Fuel	3,279	-	3,279	6,188	961	848	7,997
Kerosene	56	-	56	35	-	-	35
Distillate Fuel Oil	9,904	857	10,761	18,064	4,977	10,426	33,467
15 ppm sulfur and under	9,502	790	10,292	18,054	5,074	10,357	33,485
Greater than 15 ppm to 500 ppm sulfur	-1	50	49	-67	-	100	33
Greater than 500 ppm sulfur	403	17	420	77	-97	-31	-51
Residual Fuel Oil	1,047	10	1,057	879	199	137	1,215
Less than 0.31 percent sulfur	134	9	143	129	-	-	129
0.31 to 1.00 percent sulfur	324	1	325	15	76	-	91
Greater than 1.00 percent sulfur	589	-	589	735	123	137	995
Petrochemical Feedstocks	91	-	91	906	-	30	936
Naphtha for Petro. Feed. Use	91	-	91	676	-	-	676
Other Oils for Petro. Feed. Use	-	-	-	230	-	30	260
Special Naphthas	-	13	13	-12	-	9	-3
Lubricants	167	199	366	-	-	177	177
Waxes	-	10	10	-	-	24	24
Petroleum Coke	801	20	821	3,187	795	870	4,852
Marketable	163	-	163	2,290	625	646	3,561
Catalyst	638	20	658	897	170	224	1,291
Asphalt and Road Oil	420	672	1,092	2,238	1,099	285	3,622
Still Gas	1,395	53	1,448	2,438	617	1,080	4,135
Miscellaneous Products	47	24	71	256	115	43	414
Total	115,430	9,740	125,170	92,850	20,806	32,121	145,777
Processing Gain(-) or Loss(+) ¹	-1,674	38	-1,636	-3,787	-1,291	-861	-5,939

See footnotes at end of table.

Table 29. Refinery and Blender Net Production of Finished Petroleum Products by PAD and Refining Districts, May 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	1,142	7,890	7,243	60	63	16,398	539	1,865	26,882
Natural Gas Liquids	774	4,729	3,951	43	63	9,560	488	2,103	18,301
Ethane	2	125	17	-	-	144	-	-	144
Propane	318	2,374	2,141	9	40	4,882	292	1,071	9,131
Normal Butane	491	2,887	1,549	34	26	4,987	202	964	9,297
Isobutane	-37	-657	244	-	-3	-453	-6	68	-271
Natural Gasoline	-	-	-	-	-	-	-	-	-
Refinery Olefins	368	3,161	3,292	17	-	6,838	51	-238	8,581
Ethylene	-	-	-	-	-	-	-	-	20
Propylene	372	3,331	3,371	17	-	7,091	2	5	8,771
Normal Butylene	-4	-125	-79	-	-	-208	49	-243	-210
Isobutylene	-	-45	-	-	-	-45	-	-	0
Finished Motor Gasoline	21,112	24,355	13,901	9,864	1,845	71,077	9,732	49,054	316,735
Reformulated	7,982	6,907	-	-	-	14,889	-	34,624	101,813
Reformulated Blended with Fuel Ethanol	7,982	6,907	-	-	-	14,889	-	34,624	101,813
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	13,130	17,448	13,901	9,864	1,845	56,188	9,732	14,430	214,922
Conventional Blended with Fuel Ethanol	13,058	1,739	5,250	10,660	1,765	32,472	9,209	14,393	188,626
Ed55 and Lower	13,042	1,739	5,250	10,646	1,765	32,442	9,195	14,390	188,416
Greater than Ed55	16	-	-	14	-	30	14	3	210
Conventional Other	72	15,709	8,651	-796	80	23,716	523	37	26,296
Finished Aviation Gasoline	89	72	93	-	-	254	6	-	319
Kerosene-Type Jet Fuel	1,494	13,549	12,849	203	0	28,095	997	13,218	53,586
Kerosene	-3	23	45	2	-	67	-	-1	157
Distillate Fuel Oil	7,059	42,628	39,287	2,491	1,777	93,242	7,144	16,976	161,590
15 ppm sulfur and under	7,065	40,326	32,819	2,367	1,777	84,354	7,068	16,179	151,378
Greater than 15 ppm to 500 ppm sulfur	-6	270	2,995	96	-	3,355	72	348	3,857
Greater than 500 ppm sulfur	-	2,032	3,473	28	-	5,533	4	449	6,355
Residual Fuel Oil	324	1,989	2,817	-1	164	5,293	353	3,349	11,267
Less than 0.31 percent sulfur	247	36	772	-	-	1,055	157	10	1,494
0.31 to 1.00 percent sulfur	-	36	588	-1	-	623	29	380	1,448
Greater than 1.00 percent sulfur	77	1,917	1,457	-	164	3,615	167	2,959	8,325
Petrochemical Feedstocks	142	5,232	3,063	-	-	8,437	-	1	9,465
Naphtha for Petro. Feed. Use	130	3,670	1,623	-	-	5,423	-	1	6,191
Other Oils for Petro. Feed. Use	12	1,562	1,440	-	-	3,014	-	-	3,274
Special Naphthas	43	570	-	211	-	824	-	46	880
Lubricants	19	1,475	1,506	934	-	3,934	-	549	5,026
Waxes	-	36	40	19	-	95	-	-	129
Petroleum Coke	457	7,453	5,681	143	35	13,769	751	4,229	24,422
Marketable	201	5,518	4,393	130	-	10,242	510	3,165	17,641
Catalyst	256	1,935	1,288	13	35	3,527	241	1,064	6,781
Asphalt and Road Oil	195	627	882	1,018	22	2,744	1,289	814	9,561
Still Gas	712	5,553	4,221	270	110	10,866	724	3,586	20,759
Miscellaneous Products	108	896	530	19	4	1,557	110	367	2,519
Total	32,893	112,348	92,158	15,233	4,020	256,652	21,645	94,053	643,297
Processing Gain(-) or Loss(+) ¹	-1,043	-9,933	-8,172	-50	-77	-19,275	-903	-5,224	-32,977

- = 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, May 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	30,654	3,046	33,700	67,871	15,304	26,246	109,421
Hydrocarbon Gas Liquids	383	-	383	1,289	53	553	1,895
Natural Gas Liquids	383	-	383	1,289	53	553	1,895
Normal Butane	-	-	-	8	-	5	13
Isobutane	383	-	383	796	53	409	1,258
Natural Gasoline	-	-	-	485	-	139	624
Other Liquids	-13,172	50	-13,122	-28,081	-5,227	-10,174	-43,482
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	161	153	314	937	486	312	1,735
Hydrogen	92	11	103	698	288	169	1,155
Oxygenates (excluding Fuel Ethanol)	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE)	-	-	-	-	-	-	-
All Other Oxygenates ¹	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	69	142	211	221	198	143	562
Fuel Ethanol	69	112	181	141	140	123	404
Renewable Diesel Fuel ²	-	30	30	80	58	20	158
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	-	18	-	-	18
Unfinished Oils (net)	2,509	-85	2,424	12	-338	-33	-359
Naphthas and Lighter	914	-45	869	563	-175	-214	174
Kerosene and Light Gas Oils	-391	-	-391	762	-168	91	685
Heavy Gas Oils	1,680	-38	1,642	-1,200	5	181	-1,014
Residuum	306	-2	304	-113	-	-91	-204
Motor Gasoline Blend.Comp. (MGBC)(net)	-15,842	-18	-15,860	-29,030	-5,375	-10,453	-44,858
Reformulated - RBOB	-10,185	-	-10,185	-7,486	129	-	-7,357
Conventional	-5,657	-18	-5,675	-21,544	-5,504	-10,453	-37,501
CBOB	-5,790	-22	-5,812	-23,164	-5,632	-10,564	-39,360
GTAB	-	-	-	-	-	-	-
Other	133	4	137	1,620	128	111	1,859
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input to Refineries	17,865	3,096	20,961	41,079	10,130	16,625	67,834
Atmospheric Crude Oil Distillation							
Gross Input (daily average)	990	100	1,090	2,183	505	847	3,536
Operable Capacity (daily average)	1,126	98	1,224	2,678	547	917	4,141
Operable Utilization Rate (percent) ³	88.0	101.4	89.1	81.5	92.5	92.5	85.4
Downstream Processing							
Fresh Feed Input (daily average)							
Catalytic Reforming	183	15	198	422	70	145	636
Catalytic Cracking	397	16	413	618	141	212	972
Catalytic Hydrocracking	34	-	34	186	66	58	310
Delayed and Fluid Coking	29	-	29	257	63	84	404
Crude Oil Qualities							
Sulfur Content, Weighted Average (percent)	0.47	1.68	0.58	1.41	1.81	0.63	1.28
API Gravity, Weighted Average (degrees)	36.68	32.26	36.29	33.82	28.53	39.34	34.33
Operable Capacity (daily average)	1,126	98	1,224	2,678	547	917	4,141
Operating	1,126	98	1,224	2,412	509	917	3,837
Idle	-	-	-	266	38	-	304
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, May 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	22,005	138,255	108,782	7,535	4,320	280,897	20,433	73,848	518,299
Hydrocarbon Gas Liquids	559	3,290	4,087	25	190	8,151	463	2,335	13,227
Natural Gas Liquids	559	3,290	4,087	25	190	8,151	463	2,335	13,227
Normal Butane	170	632	103	—	1	906	101	748	1,768
Isobutane	242	1,848	1,680	22	189	3,981	202	831	6,655
Natural Gasoline	147	810	2,304	3	—	3,264	160	756	4,804
Other Liquids	-9,264	-51,877	-32,083	-1,723	-1,764	-96,711	-5,105	-33,993	-192,413
Hydrogen/Oxygenates/Renewables/									
Other Hydrocarbons	295	2,108	1,850	115	115	4,483	542	1,536	8,610
Hydrogen	3	2,040	1,606	66	49	3,764	210	1,150	6,382
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	292	68	244	49	66	719	332	386	2,210
Fuel Ethanol	233	52	194	48	55	582	280	93	1,540
Renewable Diesel Fuel ²	59	16	50	1	11	137	52	293	670
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	—	—	—	—	—	18
Unfinished Oils (net)	123	-3,169	9,760	-296	-188	6,230	-103	606	8,798
Naphthas and Lighter	22	-7,111	379	5	-84	-6,789	-66	243	-5,569
Kerosene and Light Gas Oils	-76	-1,482	1,295	-124	-83	-470	-240	-1,699	-2,115
Heavy Gas Oils	201	3,949	6,065	-80	-21	10,114	376	3,351	14,469
Residuum	-24	1,475	2,021	-97	—	3,375	-173	-1,289	2,013
Motor Gasoline Blend.Comp. (MGBC)(net)	-9,697	-50,816	-43,697	-1,542	-1,691	-107,443	-5,544	-36,135	-209,840
Reformulated - RBOB	-983	-14,492	-6,233	—	-870	-22,578	—	-27,053	-67,173
Conventional	-8,714	-36,324	-37,464	-1,542	-821	-84,865	-5,544	-9,082	-142,667
CBOB	-8,713	-32,226	-36,118	-1,500	-792	-79,349	-5,562	-10,529	-140,612
GTAB	—	—	—	—	—	—	—	—	—
Other	-1	-4,098	-1,346	-42	-29	-5,516	18	1,447	-2,055
Aviation Gasoline Blend. Comp. (net)	15	—	4	—	—	19	—	—	19
Total Input to Refineries	13,300	89,668	80,786	5,837	2,746	192,337	15,791	42,190	339,113
Atmospheric Crude Oil Distillation									
Gross Input (daily average)	700	4,549	3,639	220	139	9,246	659	2,511	17,041
Operable Capacity (daily average)	745	5,042	3,696	256	136	9,876	687	2,875	18,802
Operable Utilization Rate (percent) ³	93.9	90.2	98.5	85.7	102.1	93.6	96.0	87.3	90.6
Downstream Processing									
Fresh Feed Input (daily average)									
Catalytic Reforming	153	651	630	36	26	1,497	101	411	2,843
Catalytic Cracking	194	1,232	1,030	14	32	2,502	179	655	4,721
Catalytic Hydrocracking	44	540	481	19	18	1,101	26	426	1,897
Delayed and Fluid Coking	27	713	507	26	—	1,273	61	390	2,157
Crude Oil Qualities									
Sulfur Content, Weighted Average (percent)	0.60	1.45	1.16	1.51	0.91	1.26	1.38	1.23	1.22
API Gravity, Weighted Average (degrees)	39.67	32.79	32.80	30.47	36.07	33.35	33.12	29.23	33.14
Operable Capacity (daily average)	745	5,042	3,696	256	136	9,876	687	2,875	18,802
Operating	745	5,042	3,696	256	136	9,876	677	2,875	18,489
Idle	—	—	—	—	—	—	10	—	314
Alaskan Crude Oil Receipts	—	—	—	—	—	—	—	11,546	11,546

— = 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, May 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	1,892	75	1,967	4,701	633	779	6,113
Natural Gas Liquids	1,287	75	1,362	3,710	505	573	4,788
Ethane	-	-	-	-	-	-	-
Propane	657	29	686	1,459	283	458	2,200
Normal Butane	598	60	658	2,150	248	88	2,486
Isobutane	32	-14	18	101	-26	27	102
Natural Gasoline	-	-	-	-	-	-	-
Refinery Olefins	605	-	605	991	128	206	1,325
Ethylene	20	-	20	-	-	-	-
Propylene	483	-	483	856	128	206	1,190
Normal Butylene	57	-	57	135	-	-	135
Isobutylene	45	-	45	-	-	-	-
Finished Motor Gasoline	684	1,181	1,865	6,237	2,167	2,836	11,240
Reformulated	684	-	684	-	-	-	-
Reformulated Blended with Fuel Ethanol	684	-	684	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-
Conventional	-	1,181	1,181	6,237	2,167	2,836	11,240
Conventional Blended with Fuel Ethanol	-	1,133	1,133	1,450	1,585	1,269	4,304
Ed55 and Lower	-	1,133	1,133	1,450	1,585	1,269	4,304
Greater than Ed55	-	-	-	-	-	-	-
Conventional Other	-	48	48	4,787	582	1,567	6,936
Finished Aviation Gasoline	-	-	-	-	59	-	59
Kerosene-Type Jet Fuel	3,279	-	3,279	6,232	961	848	8,041
Kerosene	56	-	56	35	-	-	35
Distillate Fuel Oil	9,665	800	10,465	17,823	4,775	10,373	32,971
15 ppm sulfur and under	9,301	733	10,034	17,813	4,872	10,304	32,989
Greater than 15 ppm to 500 ppm sulfur	-80	50	-30	-67	-	54	-13
Greater than 500 ppm sulfur	444	17	461	77	-97	15	-5
Residual Fuel Oil	1,042	10	1,052	879	199	137	1,215
Less than 0.31 percent sulfur	140	9	149	129	-	-	129
0.31 to 1.00 percent sulfur	317	1	318	15	76	-	91
Greater than 1.00 percent sulfur	585	-	585	735	123	137	995
Petrochemical Feedstocks	91	-	91	906	-	30	936
Naphtha for Petro. Feed. Use	91	-	91	676	-	-	676
Other Oils for Petro. Feed. Use	-	-	-	230	-	30	260
Special Naphthas	-	13	13	-12	-	9	-3
Lubricants	167	199	366	-	-	177	177
Waxes	-	10	10	-	-	24	24
Petroleum Coke	801	20	821	3,187	795	870	4,852
Marketable	163	-	163	2,290	625	646	3,561
Catalyst	638	20	658	897	170	224	1,291
Asphalt and Road Oil	420	672	1,092	2,193	1,099	283	3,575
Still Gas	1,395	53	1,448	2,438	617	1,080	4,135
Miscellaneous Products	47	24	71	256	115	43	414
Total	19,539	3,057	22,596	44,875	11,420	17,489	73,784
Processing Gain(-) or Loss(+) ¹	-1,674	39	-1,635	-3,796	-1,290	-864	-5,950

See footnotes at end of table.

Table 31. Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts, May 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	1,142	7,890	7,243	60	63	16,398	539	1,865	26,882	
Natural Gas Liquids	774	4,729	3,951	43	63	9,560	488	2,103	18,301	
Ethane	2	125	17	-	-	144	-	-	144	
Propane	318	2,374	2,141	9	40	4,882	292	1,071	9,131	
Normal Butane	491	2,887	1,549	34	26	4,987	202	964	9,297	
Isobutane	-37	-657	244	-	-3	-453	-6	68	-271	
Natural Gasoline	-	-	-	-	-	-	-	-	-	
Refinery Olefins	368	3,161	3,292	17	-	6,838	51	-238	8,581	
Ethylene	-	-	-	-	-	-	-	-	20	
Propylene	372	3,331	3,371	17	-	7,091	2	5	8,771	
Normal Butylene	-4	-125	-79	-	-	-208	49	-243	-210	
Isobutylene	-	-45	-	-	-	-45	-	-	0	
Finished Motor Gasoline	2,625	11,405	10,567	530	664	25,791	4,795	2,777	46,468	
Reformulated	-	-	-	-	-	-	-	-	595	
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	595	
Reformulated Other	-	-	-	-	-	-	-	-	-	
Conventional	2,625	11,405	10,567	530	664	25,791	4,795	2,182	45,189	
Conventional Blended with Fuel Ethanol	2,364	519	1,945	463	545	5,836	2,846	329	14,448	
Ed55 and Lower	2,363	519	1,945	463	545	5,835	2,846	329	14,447	
Greater than Ed55	1	-	-	-	-	1	-	-	1	
Conventional Other	261	10,886	8,622	67	119	19,955	1,949	1,853	30,741	
Finished Aviation Gasoline	89	72	93	-	-	254	6	-	319	
Kerosene-Type Jet Fuel	1,494	13,515	12,834	203	-	28,046	940	13,217	53,523	
Kerosene	-3	59	43	2	-	101	-	0	192	
Distillate Fuel Oil	6,998	42,688	39,304	2,479	1,761	93,230	7,189	16,617	160,472	
15 ppm sulfur and under	7,004	40,432	32,836	2,355	1,761	84,388	7,113	15,828	150,352	
Greater than 15 ppm to 500 ppm sulfur	-6	270	2,995	96	-	3,355	72	348	3,732	
Greater than 500 ppm sulfur	-	1,986	3,473	28	-	5,487	4	441	6,388	
Residual Fuel Oil	324	2,131	3,066	-1	164	5,684	353	3,339	11,643	
Less than 0.31 percent sulfur	247	36	862	-	-	1,145	157	-	1,580	
0.31 to 1.00 percent sulfur	-	52	588	-1	-	639	29	380	1,457	
Greater than 1.00 percent sulfur	77	2,043	1,616	-	164	3,900	167	2,959	8,606	
Petrochemical Feedstocks	142	5,232	3,063	-	-	8,437	-	1	9,465	
Naphtha for Petro. Feed. Use	130	3,670	1,623	-	-	5,423	-	1	6,191	
Other Oils for Petro. Feed. Use	12	1,562	1,440	-	-	3,014	-	-	3,274	
Special Naphthas	43	570	-	211	-	824	-	46	880	
Lubricants	19	1,475	1,506	934	-	3,934	-	549	5,026	
Waxes	-	36	40	19	-	95	-	-	129	
Petroleum Coke	457	7,453	5,681	143	35	13,769	751	4,229	24,422	
Marketable	201	5,518	4,393	130	-	10,242	510	3,165	17,641	
Catalyst	256	1,935	1,288	13	35	3,527	241	1,064	6,781	
Asphalt and Road Oil	195	627	768	1,018	22	2,630	1,289	814	9,400	
Still Gas	712	5,553	4,221	270	110	10,866	724	3,586	20,759	
Miscellaneous Products	108	896	530	19	4	1,557	110	367	2,519	
Total	14,345	99,602	88,959	5,887	2,823	211,616	16,696	47,407	372,099	
Processing Gain(-) or Loss(+) ¹	-1,045	-9,934	-8,173	-50	-77	-19,279	-905	-5,217	-32,986	

- = 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, May 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	106	-	106	1	6	57	64
Natural Gas Liquids	106	-	106	1	6	57	64
Normal Butane	4	-	4	1	2	16	19
Isobutane	-	-	-	-	-	-	-
Natural Gasoline	102	-	102	-	4	41	45
Other Liquids	95,785	6,682	102,467	47,983	9,379	14,578	71,940
Oxygenates/Renewables	10,126	712	10,838	5,162	1,215	1,608	7,985
Oxygenates (excluding Fuel Ethanol)	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE)	-	-	-	-	-	-	-
All Other Oxygenates ¹	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	10,126	712	10,838	5,162	1,215	1,608	7,985
Fuel Ethanol	9,890	663	10,553	4,965	1,012	1,552	7,529
Renewable Diesel Fuel ²	236	49	285	197	203	56	456
Other Renewable Fuels	-	-	-	-	-	-	-
Unfinished Oils (net)	7	-	7	45	-	-	45
Naphthas and Lighter	-	-	-	-	-	-	-
Kerosene and Light Gas Oils	-	-	-	-	-	-	-
Heavy Gas Oils	7	-	7	-	-	-	-
Residuum	-	-	-	45	-	-	45
Motor Gasoline Blend.Comp. (MGBC)(net)	85,652	5,970	91,622	42,776	8,164	12,970	63,910
Reformulated - RBOB	24,674	637	25,311	7,401	1,379	1,034	9,814
Conventional	60,978	5,333	66,311	35,375	6,785	11,936	54,096
CBOB	45,756	5,333	51,089	35,125	6,785	11,936	53,846
GTAB	6,245	-	6,245	-	-	-	-
Other	8,977	-	8,977	250	-	-	250
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input	95,891	6,682	102,573	47,984	9,385	14,635	72,004

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	13	799	14	3	-	829	17	11	1,027
Natural Gas Liquids	13	799	14	3	-	829	17	11	1,027
Normal Butane	-	58	14	3	-	75	6	11	115
Isobutane	-	-	-	-	-	-	3	-	3
Natural Gasoline	13	741	-	-	-	754	8	-	909
Other Liquids	18,537	11,948	3,186	9,343	1,197	44,211	4,934	46,628	270,180
Oxygenates/Renewables	1,956	885	341	1,036	138	4,356	661	5,197	29,037
Oxygenates (excluding Fuel Ethanol)	-	26	-	-	-	26	-	-	26
Methyl Tertiary Butyl Ether (MTBE)	-	26	-	-	-	26	-	-	26
All Other Oxygenates ¹	-	-	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	1,956	859	341	1,036	138	4,330	661	5,197	29,011
Fuel Ethanol	1,896	815	341	1,024	122	4,198	647	4,831	27,758
Renewable Diesel Fuel ²	60	44	-	12	16	132	14	361	1,248
Other Renewable Fuels	-	-	-	-	-	-	-	5	5
Unfinished Oils (net)	-	-245	-135	-	-	-380	-	-	-328
Naphthas and Lighter	-	-	-	-	-	-	-	-	-
Kerosene and Light Gas Oils	-	-245	-	-	-	-245	-	-	-245
Heavy Gas Oils	-	-	-135	-	-	-135	-	-	-128
Residuum	-	-	-	-	-	-	-	-	45
Motor Gasoline Blend.Comp. (MGBC)(net)	16,581	11,308	2,980	8,307	1,059	40,235	4,273	41,431	241,471
Reformulated - RBOB	7,200	4,404	-	-	-	11,604	-	30,607	77,336
Conventional	9,381	6,904	2,980	8,307	1,059	28,631	4,273	10,824	164,135
CBOB	9,381	-1,488	1,575	8,307	1,053	18,828	4,272	10,822	138,857
GTAB	-	-	-	-	-	-	-	-	6,245
Other	-	8,392	1,405	-	6	9,803	1	2	19,033
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-	-	-
Total Input	18,550	12,747	3,200	9,346	1,197	45,040	4,951	46,639	271,207

- = 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, May 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	95,647	6,626	102,273	47,733	9,184	14,577	71,494
Reformulated	39,938	411	40,349	8,586	1,533	1,148	11,267
Reformulated Blended with Fuel Ethanol	39,938	411	40,349	8,586	1,533	1,148	11,267
Reformulated Other	-	-	-	-	-	-	-
Conventional	55,709	6,215	61,924	39,147	7,651	13,429	60,227
Conventional Blended with Fuel Ethanol	58,056	6,224	64,280	40,690	8,403	13,742	62,835
Ed55 and Lower	58,012	6,224	64,236	40,679	8,371	13,666	62,716
Greater than Ed55	44	-	44	11	32	76	119
Conventional Other	-2,347	-9	-2,356	-1,543	-752	-313	-2,608
Finished Aviation Gasoline	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	0	-	0	-44	-	0	-44
Kerosene	-	-	-	-	-	-	-
Distillate Fuel Oil	239	57	296	241	202	53	496
15 ppm sulfur and under	201	57	258	241	202	53	496
Greater than 15 ppm to 500 ppm sulfur	79	-	79	-	-	46	46
Greater than 500 ppm sulfur	-41	-	-41	-	-	-46	-46
Residual Fuel Oil	5	-	5	-	-	-	-
Less than 0.31 percent sulfur	-6	-	-6	-	-	-	-
0.31 to 1.00 percent sulfur	7	-	7	-	-	-	-
Greater than 1.00 percent sulfur	4	-	4	-	-	-	-
Special Naphthas	-	-	-	-	-	-	-
Lubricants	-	-	-	-	-	-	-
Asphalt and Road Oil	-	-	-	45	-	2	47
Miscellaneous Products	-	-	-	-	-	-	-
Total Production	95,891	6,683	102,574	47,975	9,386	14,632	71,993
Processing Gain(-) or Loss(+) ¹	0	-1	-1	9	-1	3	11

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Finished Motor Gasoline	18,487	12,950	3,334	9,334	1,181	45,286	4,937	46,277	270,267
Reformulated	7,982	6,907	-	-	-	14,889	-	34,029	100,534
Reformulated Blended with Fuel Ethanol	7,982	6,907	-	-	-	14,889	-	34,029	100,534
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	10,505	6,043	3,334	9,334	1,181	30,397	4,937	12,248	169,733
Conventional Blended with Fuel Ethanol	10,694	1,220	3,305	10,197	1,220	26,636	6,363	14,064	174,178
Ed55 and Lower	10,679	1,220	3,305	10,183	1,220	26,607	6,349	14,061	173,969
Greater than Ed55	15	-	-	14	-	29	14	3	209
Conventional Other	-189	4,823	29	-863	-39	3,761	-1,426	-1,816	-4,445
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	0	34	15	-	0	49	57	1	63
Kerosene	-	-36	2	-	-	-34	-	-1	-35
Distillate Fuel Oil	61	-60	-17	12	16	12	-45	359	1,118
15 ppm sulfur and under	61	-106	-17	12	16	-34	-45	351	1,026
Greater than 15 ppm to 500 ppm sulfur	-	-	-	-	-	-	-	-	125
Greater than 500 ppm sulfur	-	46	-	-	-	46	-	8	-33
Residual Fuel Oil	-	-142	-249	-	-	-391	-	10	-376
Less than 0.31 percent sulfur	-	-	-90	-	-	-90	-	10	-86
0.31 to 1.00 percent sulfur	-	-16	-	-	-	-16	-	-	-9
Greater than 1.00 percent sulfur	-	-126	-159	-	-	-285	-	-	-281
Special Naphthas	-	-	-	-	-	-	-	-	-
Lubricants	-	-	-	-	-	-	-	-	-
Asphalt and Road Oil	-	-	114	-	-	114	-	-	161
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total Production	18,548	12,746	3,199	9,346	1,197	45,036	4,949	46,646	271,198
Processing Gain(-) or Loss(+) ¹	2	1	1	0	0	4	2	-7	9

- = 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, May 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	11,426	762	12,188	10,548	2,175	2,354	15,077
Petroleum Products	15,265	2,235	17,500	27,220	8,491	10,540	46,251
Hydrocarbon Gas Liquids	708	14	722	2,328	298	1,004	3,630
Natural Gas Liquids	555	14	569	1,980	281	996	3,257
Ethane	—	—	—	—	—	—	—
Propane	64	2	66	461	34	118	613
Normal Butane	366	2	368	1,202	202	166	1,570
Isobutane	125	10	135	269	45	286	600
Natural Gasoline	—	—	—	48	—	426	474
Refinery Olefins	153	0	153	348	17	8	373
Ethylene	—	—	—	—	—	—	—
Propylene	85	0	85	302	17	8	327
Normal Butylene	24	0	24	46	0	0	46
Isobutylene	44	0	44	0	0	0	0
Oxygenates/Renewable Fuels/Other Hydrocarbons	159	87	246	97	69	32	198
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	159	87	246	55	69	32	156
Fuel Ethanol	159	82	241	35	54	27	116
Renewable Diesel Fuel ²	—	5	5	20	15	5	40
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	42	—	—	42
Unfinished Oils	5,102	401	5,503	7,651	1,012	3,793	12,456
Naphthas and Lighter	1,150	283	1,433	2,228	202	1,252	3,682
Kerosene and Light Gas Oils	1,114	—	1,114	1,429	394	471	2,294
Heavy Gas Oils	1,946	111	2,057	2,666	412	1,156	4,234
Residuum	892	7	899	1,328	4	914	2,246
Motor Gasoline Blending Components (MGBC)	5,057	260	5,317	7,261	2,199	2,766	12,226
Reformulated - RBOB	1,446	—	1,446	1,040	—	—	1,040
Conventional	3,611	260	3,871	6,221	2,199	2,766	11,186
CBOB	770	192	962	2,279	1,018	1,803	5,100
GTAB	—	—	—	—	—	—	—
Other	2,841	68	2,909	3,942	1,181	963	6,086
Aviation Gasoline Blending Components	—	—	—	—	—	—	—
Finished Motor Gasoline	—	28	28	788	141	224	1,153
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	—	28	28	788	141	224	1,153
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	—	28	28	788	141	224	1,153
Finished Aviation Gasoline	—	—	—	—	93	—	93
Kerosene-Type Jet Fuel	708	—	708	1,273	284	206	1,763
Kerosene	207	1	208	132	—	7	139
Distillate Fuel Oil	2,345	234	2,579	3,842	1,088	1,724	6,654
15 ppm sulfur and under	1,990	67	2,057	3,652	944	1,412	6,008
Greater than 15 ppm to 500 ppm sulfur	132	151	283	—	10	205	215
Greater than 500 ppm sulfur	223	16	239	190	134	107	431
Residual Fuel Oil	447	28	475	683	274	87	1,044
Less than 0.31 percent sulfur	125	26	151	77	—	—	77
0.31 to 1.00 percent sulfur	58	2	60	93	52	—	145
Greater than 1.00 percent sulfur	264	—	264	513	222	87	822
Petrochemical Feedstocks	97	—	97	538	—	—	538
Naphtha for Petro. Feed. Use	97	—	97	447	—	—	447
Other Oils for Petro. Feed. Use	—	—	—	91	—	—	91
Special Naphthas	—	15	15	36	—	13	49
Lubricants	316	208	524	—	—	162	162
Waxes	—	330	330	—	—	42	42
Petroleum Coke	—	—	—	471	1,103	103	1,677
Marketable	—	—	—	471	1,103	103	1,677
Catalyst	—	—	—	—	—	—	—
Asphalt and Road Oil	108	609	717	2,039	1,904	372	4,315
Miscellaneous Products	11	20	31	81	26	5	112
Total Stocks, All Oils	26,691	2,997	29,688	37,768	10,666	12,894	61,328

See footnotes at end of table.

Table 34. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, May 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	1,669	28,535	18,992	1,248	351	50,795	2,819	21,725	102,604
Petroleum Products	9,904	60,994	52,412	4,201	1,384	128,895	11,278	53,241	257,165
Hydrocarbon Gas Liquids	2,469	1,643	4,417	12	41	8,582	483	1,213	14,630
Natural Gas Liquids	1,832	1,397	3,086	11	41	6,367	387	1,161	11,741
Ethane	254	—	—	—	—	254	—	—	254
Propane	288	143	134	3	4	572	74	144	1,469
Normal Butane	921	996	1,837	3	27	3,784	194	576	6,492
Isobutane	274	223	945	5	7	1,454	88	438	2,715
Natural Gasoline	95	35	170	—	3	303	31	3	811
Refinery Olefins	637	246	1,331	1	0	2,215	96	52	2,889
Ethylene	0	—	—	—	—	0	—	—	0
Propylene	631	38	723	1	0	1,393	0	2	1,807
Normal Butylene	6	208	608	0	0	822	96	50	1,038
Isobutylene	0	0	0	0	0	0	0	0	44
Oxygenates/Renewable Fuels/Other Hydrocarbons	44	48	230	55	13	390	234	451	1,519
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	44	48	230	55	13	390	234	451	1,477
Fuel Ethanol	37	25	58	35	10	165	146	28	696
Renewable Diesel Fuel ²	7	23	172	20	3	225	88	423	781
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	—	—	—	—	—	42
Unfinished Oils	2,754	23,495	16,997	1,157	732	45,135	3,531	21,507	88,132
Naphthas and Lighter	1,205	7,370	2,204	297	274	11,350	942	3,255	20,662
Kerosene and Light Gas Oils	457	3,646	2,434	222	200	6,959	594	4,548	15,509
Heavy Gas Oils	603	10,615	9,465	546	258	21,487	1,394	10,338	39,510
Residuum	489	1,864	2,894	92	—	5,339	601	3,366	12,451
Motor Gasoline Blending Components (MGBC)	2,528	12,637	13,044	320	345	28,874	3,036	14,097	63,550
Reformulated - RBOB	126	1,379	1,010	—	—	2,515	—	5,510	10,511
Conventional	2,402	11,258	12,034	320	345	26,359	3,036	8,587	53,039
CBOB	1,313	3,580	5,987	224	93	11,197	1,622	2,501	21,382
GTAB	—	—	1	—	—	1	—	—	1
Other	1,089	7,678	6,046	96	252	15,161	1,414	6,086	31,656
Aviation Gasoline Blending Components	11	—	7	—	—	18	—	—	18
Finished Motor Gasoline	111	999	1,619	9	—	2,738	698	766	5,383
Reformulated	—	—	—	—	—	—	—	19	19
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	19	19
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	111	999	1,619	9	—	2,738	698	747	5,364
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	49	—	49
Ed55 and Lower	—	—	—	—	—	—	49	—	49
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	111	999	1,619	9	—	2,738	649	747	5,315
Finished Aviation Gasoline	40	197	177	—	—	414	9	47	563
Kerosene-Type Jet Fuel	298	3,790	2,322	58	—	6,468	323	3,657	12,919
Kerosene	22	5	137	7	—	171	1	2	521
Distillate Fuel Oil	850	6,511	6,858	406	113	14,738	1,907	5,807	31,685
15 ppm sulfur and under	817	5,385	5,463	255	113	12,033	1,713	5,193	27,004
Greater than 15 ppm to 500 ppm sulfur	33	130	413	32	—	608	126	225	1,457
Greater than 500 ppm sulfur	—	996	982	119	—	2,097	68	389	3,224
Residual Fuel Oil	111	2,417	1,677	29	49	4,283	215	2,176	8,193
Less than 0.31 percent sulfur	8	—	256	—	—	264	29	—	521
0.31 to 1.00 percent sulfur	—	124	104	29	—	257	6	244	712
Greater than 1.00 percent sulfur	103	2,293	1,317	—	49	3,762	180	1,932	6,960
Petrochemical Feedstocks	132	1,854	765	22	—	2,773	—	3	3,411
Naphtha for Petro. Feed. Use	55	1,222	708	22	—	2,007	—	3	2,554
Other Oils for Petro. Feed. Use	77	632	57	—	—	766	—	—	857
Special Naphthas	82	716	—	119	—	917	—	58	1,039
Lubricants	47	2,042	1,745	852	—	4,686	—	670	6,042
Waxes	—	77	136	76	—	289	—	—	661
Petroleum Coke	24	4,071	1,531	—	—	5,626	83	1,749	9,135
Marketable	24	4,071	1,531	—	—	5,626	83	1,749	9,135
Catalyst	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	367	273	643	1,078	73	2,434	744	960	9,170
Miscellaneous Products	14	219	107	1	18	359	14	78	594
Total Stocks, All Oils	11,573	89,529	71,404	5,449	1,735	179,690	14,097	74,966	359,769

— = 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, May 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	5.7	2.5	5.4	6.9	4.2	3.0	5.6
Finished Motor Gasoline ¹	48.3	36.6	47.4	49.3	48.2	47.8	48.8
Finished Aviation Gasoline ²	-	-	-	-	0.4	-	0.1
Kerosene-Type Jet Fuel	9.9	-	9.1	9.1	6.3	3.2	7.3
Kerosene	0.2	-	0.2	0.1	-	-	0.0
Distillate Fuel Oil ³	29.1	25.9	28.8	25.9	30.9	39.2	29.8
Residual Fuel Oil	3.1	0.3	2.9	1.3	1.3	0.5	1.1
Naphtha for Petro. Feed. Use	0.3	-	0.3	1.0	-	-	0.6
Other Oils for Petro. Feed. Use	-	-	-	0.3	-	0.1	0.2
Special Naphthas	-	0.4	0.0	0.0	-	0.0	0.0
Lubricants	0.5	6.7	1.0	-	-	0.7	0.2
Waxes	-	0.3	0.0	-	-	0.1	0.0
Petroleum Coke	2.4	0.7	2.3	4.7	5.2	3.3	4.4
Asphalt and Road Oil	1.3	22.6	3.0	3.2	7.2	1.1	3.2
Still Gas	4.2	1.8	4.0	3.6	4.0	4.1	3.8
Miscellaneous Products	0.1	0.8	0.2	0.4	0.8	0.2	0.4
Processing Gain(-) or Loss(+) ⁴	-5.0	1.3	-4.5	-5.5	-8.5	-3.3	-5.4

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	5.2	5.8	6.0	0.8	1.5	5.6	2.6	2.5	5.0
Finished Motor Gasoline ¹	52.1	42.9	41.6	27.4	50.5	42.8	46.7	48.3	45.3
Finished Aviation Gasoline ²	0.3	0.1	0.1	-	-	0.1	0.0	-	0.1
Kerosene-Type Jet Fuel	6.8	9.9	10.7	2.8	-	9.6	4.6	17.5	10.0
Kerosene	0.0	0.0	0.0	0.0	-	0.0	-	0.0	0.0
Distillate Fuel Oil ³	31.4	31.1	32.7	33.9	41.9	32.0	34.8	21.6	30.0
Residual Fuel Oil	1.5	1.6	2.6	0.0	3.9	2.0	1.7	4.4	2.2
Naphtha for Petro. Feed. Use	0.6	2.7	1.4	-	-	1.9	-	0.0	1.2
Other Oils for Petro. Feed. Use	0.1	1.1	1.2	-	-	1.0	-	-	0.6
Special Naphthas	0.2	0.4	-	2.9	-	0.3	-	0.1	0.2
Lubricants	0.1	1.1	1.3	12.8	-	1.4	-	0.7	0.9
Waxes	-	0.0	0.0	0.3	-	0.0	-	-	0.0
Petroleum Coke	2.1	5.4	4.7	2.0	0.8	4.7	3.7	5.6	4.6
Asphalt and Road Oil	0.9	0.5	0.6	13.9	0.5	0.9	6.3	1.1	1.8
Still Gas	3.2	4.1	3.5	3.7	2.6	3.7	3.5	4.7	3.9
Miscellaneous Products	0.5	0.7	0.4	0.0	0.0	0.5	0.5	0.5	0.5
Processing Gain(-) or Loss(+) ⁴	-4.7	-7.3	-6.8	-0.7	-1.8	-6.6	-4.4	-6.9	-6.2

- = 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, May 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	345	580	1,409	2,334
Connecticut	-	-	-	-
Delaware	-	-	-	-
Florida	-	-	97	97
Georgia	-	-	-	-
Maine	-	-	-	-
Maryland	-	-	-	-
Massachusetts	-	-	-	-
New Hampshire	-	-	-	-
New Jersey	345	579	1,312	2,236
New York	-	-	-	-
North Carolina	-	-	-	-
Pennsylvania	-	-	-	-
Rhode Island	-	-	-	-
South Carolina	-	-	-	-
Vermont	-	1	-	1
Virginia	-	-	-	-
West Virginia	-	-	-	-
PAD District 2	-	12	32	44
Illinois	-	-	-	-
Indiana	-	-	-	-
Michigan	-	-	32	32
Minnesota	-	9	-	9
North Dakota	-	3	-	3
Ohio	-	-	-	-
Wisconsin	-	-	-	-
PAD District 3	100	66	1,855	2,021
Alabama	-	-	-	-
Louisiana	-	66	-	66
Mississippi	-	-	-	-
New Mexico	-	-	-	-
Texas	100	-	1,855	1,955
PAD District 4	-	-	-	-
Idaho	-	-	-	-
Montana	-	-	-	-
PAD District 5	-	315	513	828
Alaska	-	-	-	-
California	-	-	464	464
Hawaii	-	-	-	-
Oregon	-	-	49	49
Washington	-	315	-	315
U.S. Total	445	973	3,809	5,227

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

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil^{1,2}	27,541	73,517	74,870	9,529	36,443	221,900	7,158
Hydrocarbon Gas Liquids	1,320	2,510	158	133	1,322	5,443	176
Natural Gas Liquids	933	2,189	—	133	1,322	4,577	148
Ethane	—	—	—	—	—	—	—
Propane	757	1,469	—	112	823	3,161	102
Normal Butane	26	629	—	2	449	1,106	36
Isobutane	150	91	—	19	50	310	10
Natural Gasoline	—	—	—	—	—	—	—
Refinery Olefins	387	321	158	—	—	866	28
Ethylene	—	—	—	—	—	—	—
Propylene	387	269	—	—	—	656	21
Normal Butylene	—	52	158	—	—	210	7
Isobutylene	—	—	—	—	—	—	—
Other Liquids	26,680	470	18,734	373	7,752	54,009	1,742
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	109	94	215	41	683	1,142	37
Hydrogen	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol)	—	—	200	—	—	200	6
Methyl Tertiary Butyl Ether (MTBE)	—	—	45	—	—	45	1
Other Oxygenates ³	—	—	155	—	—	155	5
Renewable Fuels (including Fuel Ethanol)	109	94	—	41	683	927	30
Fuel Ethanol	—	—	—	—	—	—	—
Biodiesel	109	94	—	41	37	281	9
Other Renewable Diesel Fuel	—	—	—	—	646	646	21
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	15	—	—	15	0
Unfinished Oils ¹	2,529	1	15,410	—	2,998	20,938	675
Naphthas and Lighter	1,076	—	322	—	—	1,398	45
Kerosene and Lighter Gas Oils	—	—	17	—	—	17	1
Heavy Gas Oils	1,453	1	8,549	—	2,998	13,001	419
Residuum	—	—	6,522	—	—	6,522	210
Motor Gasoline Blend.Comp. (MGBC)	24,042	375	3,109	332	4,071	31,929	1,030
Reformulated - RBOB	5,050	—	—	—	642	5,692	184
Conventional	18,992	375	3,109	332	3,429	26,237	846
CBOB	2,416	90	—	—	625	3,131	101
GTAB	3,675	—	—	—	—	3,675	119
Other	12,901	285	3,109	332	2,804	19,431	627
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	10,392	850	4,297	175	6,821	22,535	727
Finished Motor Gasoline	2,681	1	228	—	762	3,672	118
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	2,681	1	228	—	762	3,672	118
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	2,681	1	228	—	762	3,672	118
Finished Aviation Gasoline	2	4	—	—	13	19	1
Kerosene-Type Jet Fuel	1,526	—	—	—	4,289	5,815	188
Bonded Aircraft Fuel	470	—	—	—	1,214	1,684	54
Other	1,056	—	—	—	3,075	4,131	133
Kerosene	—	—	—	—	—	—	—
Distillate Fuel Oil	2,921	236	370	160	728	4,415	142
15 ppm sulfur and under	2,854	139	109	160	727	3,989	129
Bonded	—	—	—	—	—	—	—
Other	2,854	139	109	160	727	3,989	129
Greater than 15 ppm to 500 ppm sulfur	53	—	—	—	—	53	2
Bonded	—	—	—	—	—	—	—
Other	53	—	—	—	—	53	2
Greater than 500 ppm to 2000 ppm sulfur	14	63	261	—	1	339	11
Bonded	—	—	—	—	—	—	—
Other	14	63	261	—	1	339	11
Greater than 2000 ppm	—	34	—	—	—	34	1
Bonded	—	—	—	—	—	—	—
Other	—	34	—	—	—	34	1
Residual Fuel Oil	2,334	44	2,021	—	828	5,227	169
Less than 0.31 percent sulfur	345	—	100	—	—	445	14
0.31 to 1.00 percent sulfur	580	12	66	—	315	973	31
Greater than 1.00 percent sulfur	1,409	32	1,855	—	513	3,809	123
Petrochemical Feedstocks	—	146	328	—	—	474	15
Naphtha for Petro. Feed. Use	—	77	293	—	—	370	12
Other Oils for Petro. Feed. Use	—	69	35	—	—	104	3
Special Naphthas	1	3	467	—	—	471	15
Lubricants	181	108	621	—	29	939	30
Waxes	65	3	46	—	36	150	5
Petroleum Coke (Marketable)	—	23	216	—	27	266	9
Asphalt and Road Oil	681	282	—	14	109	1,086	35
Miscellaneous Products	—	—	—	1	—	1	0
Total	65,933	77,347	98,059	10,210	52,338	303,887	9,803

— = 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-May 2019
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil^{1,2}	116,933	383,760	330,951	44,465	185,442	1,061,551	7,030
Hydrocarbon Gas Liquids	9,016	14,858	491	2,091	8,690	35,146	233
Natural Gas Liquids	7,815	13,360	-	2,091	8,690	31,956	212
Ethane	-	-	-	-	-	-	-
Propane	6,648	9,761	-	1,733	5,250	23,392	155
Normal Butane	271	2,836	-	271	3,049	6,427	43
Isobutane	896	741	-	87	391	2,115	14
Natural Gasoline	-	22	-	-	-	22	0
Refinery Olefins	1,201	1,498	491	-	-	3,190	21
Ethylene	-	-	-	-	-	-	-
Propylene	1,201	1,179	-	-	-	2,380	16
Normal Butylene	-	289	491	-	-	780	5
Isobutylene	-	-	-	-	-	30	0
Other Liquids	93,108	2,440	77,495	709	24,429	198,181	1,312
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	981	444	576	63	3,097	5,161	34
Hydrogen	-	-	-	-	-	-	-
Oxygenates (excluding Fuel Ethanol)	-	-	436	-	-	436	3
Methyl Tertiary Butyl Ether (MTBE)	-	-	126	-	-	126	1
Other Oxygenates ³	-	-	310	-	-	310	2
Renewable Fuels (including Fuel Ethanol)	981	444	113	63	3,097	4,698	31
Fuel Ethanol	-	-	-	-	564	564	4
Biodiesel	981	444	113	63	174	1,775	12
Other Renewable Diesel Fuel	-	-	-	-	2,359	2,359	16
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	27	-	-	27	0
Unfinished Oils ¹	8,641	255	64,847	-	11,325	85,068	563
Naphthas and Lighter	2,718	28	648	-	397	3,791	25
Kerosene and Lighter Gas Oils	-	-	75	-	-	75	0
Heavy Gas Oils	5,923	227	46,155	-	10,883	63,188	418
Residuum	-	-	17,969	-	45	18,014	119
Motor Gasoline Blend Comp. (MGBC)	83,486	1,741	12,072	646	10,007	107,952	715
Reformulated - RBOB	22,784	-	325	-	1,940	25,049	166
Conventional	60,702	1,741	11,747	646	8,067	82,903	549
CBOB	5,557	466	-	-	1,371	7,394	49
GTAB	12,527	-	593	-	607	13,727	91
Other	42,618	1,275	11,154	646	6,089	61,782	409
Aviation Gasoline Blend Comp.	-	-	-	-	-	-	-
Finished Petroleum Products	62,438	4,288	18,089	797	24,583	110,195	730
Finished Motor Gasoline	8,889	1	512	-	2,332	11,734	78
Reformulated	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-
Conventional	8,889	1	512	-	2,332	11,734	78
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-
Conventional Other	8,889	1	512	-	2,332	11,734	78
Finished Aviation Gasoline	24	13	59	2	17	115	1
Kerosene-Type Jet Fuel	8,195	-	30	-	14,993	23,218	154
Bonded Aircraft Fuel	1,949	-	-	-	5,082	7,031	47
Other	6,246	-	30	-	9,911	16,187	107
Kerosene	101	-	-	-	-	101	1
Distillate Fuel Oil	28,931	1,311	777	508	1,774	33,301	221
15 ppm sulfur and under	28,163	919	516	508	1,769	31,875	211
Bonded	-	-	-	-	-	-	-
Other	28,163	919	516	508	1,769	31,875	211
Greater than 15 ppm to 500 ppm sulfur	523	-	-	-	-	523	3
Bonded	-	-	-	-	-	-	-
Other	523	-	-	-	-	523	3
Greater than 500 ppm to 2000 ppm sulfur	245	262	261	-	5	773	5
Bonded	-	-	-	-	-	-	-
Other	245	262	261	-	5	773	5
Greater than 2000 ppm	-	130	-	-	-	130	1
Bonded	-	-	-	-	-	-	-
Other	-	130	-	-	-	130	1
Residual Fuel Oil	11,555	308	7,952	97	3,828	23,740	157
Less than 0.31 percent sulfur	939	-	1,591	-	338	2,868	19
0.31 to 1.00 percent sulfur	1,112	137	578	-	1,132	2,959	20
Greater than 1.00 percent sulfur	9,504	171	5,783	97	2,358	17,913	119
Petrochemical Feedstocks	14	800	1,601	-	143	2,558	17
Naphtha for Petro. Feed. Use	3	408	1,462	-	143	2,016	13
Other Oils for Petro. Feed. Use	11	392	139	-	-	542	4
Special Naphthas	2	27	1,856	-	-	1,885	12
Lubricants	858	570	4,438	1	485	6,352	42
Waxes	385	31	146	-	215	777	5
Petroleum Coke (Marketable)	20	142	718	-	110	990	7
Asphalt and Road Oil	3,464	1,085	-	184	686	5,419	36
Miscellaneous Products	-	-	-	5	-	5	0
Total	281,495	405,346	427,026	48,062	243,144	1,405,073	9,305

- = 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, May 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	48,172	-	-	3,650	-	-	-	-	319	319
Algeria	1,650	-	-	2,737	-	-	-	-	-	-
Angola	1,433	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	905	-	-	-	-	-	-	-	-	-
Ecuador	5,519	-	-	-	-	-	-	-	-	-
Equatorial Guinea	663	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	11,340	-	-	-	-	-	-	-	-	-
Kuwait	1,753	-	-	-	-	-	-	-	-	-
Libya	3,033	-	-	413	-	-	-	-	-	-
Nigeria	7,518	-	-	-	-	-	-	-	-	-
Saudi Arabia	14,015	-	-	-	-	-	-	-	319	319
United Arab Emirates	-	-	-	500	-	-	-	-	-	-
Venezuela	343	-	-	-	-	-	-	-	-	-
Non-OPEC	173,728	4,577	866	17,288	-	3,672	3,672	5,692	25,918	31,610
Argentina	1,042	54	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	196	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	1,685	-	87	87	480	2,067	2,547
Brazil	6,610	-	-	288	-	-	-	-	1,046	1,046
Brunei	595	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	117,347	4,481	708	1,676	-	409	409	2,516	3,020	5,536
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	12,748	-	-	-	-	-	-	-	200	200
Denmark	1,315	-	-	-	-	-	-	8	329	337
Egypt	456	-	-	1,007	-	108	108	-	85	85
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	227	227	-	2,035	2,035
France	-	-	-	103	-	842	842	-	289	289
Germany	-	-	-	-	-	1	1	-	660	660
Guatemala	283	-	-	-	-	-	-	-	-	-
India	-	-	-	322	-	-	-	-	3,888	3,888
Indonesia	-	-	-	-	-	-	-	-	53	53
Italy	-	-	-	362	-	-	-	-	641	641
Korea, South	-	-	-	-	-	53	53	-	307	307
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	325	325
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	18,856	-	-	-	-	-	-	-	405	405
Netherlands	486	-	-	82	-	779	779	862	3,802	4,664
Norway	2,589	-	-	641	-	62	62	-	871	871
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	558	600	1,158
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	5,881	-	-	9,004	-	48	48	-	1,459	1,459
Spain	194	-	-	212	-	-	-	-	953	953
Sweden	-	-	-	-	-	-	-	-	113	113
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	1,021	-	-	-	-	-	-	-	-	-
United Kingdom	4,305	-	-	322	-	752	752	1,268	1,587	2,855
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	42	158	1,388	-	304	304	0	1,183	1,183
Total	221,900	4,577	866	20,938	-	3,672	3,672	5,692	26,237	31,929
Persian Gulf³	27,108	-	-	500	-	-	-	-	319	319

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, May 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	45	155	-	281	646	-	3,989	53	339	34	4,415
Argentina	45	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	155	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	161	-	-	3,098	53	78	34	3,263
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	462	-	-	-	462
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	92	-	-	-	-	106	-	106
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	28	-	-	429	-	-	-	429
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	125	-	125
Netherlands	-	-	-	-	-	-	-	-	30	-	30
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	646	-	0	0	0	0	0
Total	45	155	-	281	646	-	3,989	53	339	34	4,415
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, May 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	-	-	-	-	-	-	-	150	150
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	150	150
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	19	-	5,815	471	445	973	3,659	5,077
Argentina	-	-	-	-	-	345	579	-	924
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	9	-	734	112	-	328	1,139	1,467
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	100	-	708	808
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	10	-	3,378	161	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	764	764
Netherlands	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	1,037	1,037
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	0	-	1,703	198	0	66	11	77
Total	-	19	-	5,815	471	445	973	3,809	5,227
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, May 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	—	—	—	—	—	177	—	4,296	52,468	1,554	139	1,693
Algeria	—	—	—	—	—	—	—	2,737	4,387	53	88	142
Angola	—	—	—	—	—	—	—	—	1,433	46	—	46
Congo (Brazzaville)	—	—	—	—	—	—	—	—	905	29	—	29
Ecuador	—	—	—	—	—	—	—	150	5,669	178	5	183
Equatorial Guinea	—	—	—	—	—	—	—	—	663	21	—	21
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	11,340	366	—	366
Kuwait	—	—	—	—	—	—	—	—	1,753	57	—	57
Libya	—	—	—	—	—	—	—	413	3,446	98	13	111
Nigeria	—	—	—	—	—	—	—	—	7,518	243	—	243
Saudi Arabia	—	—	—	—	—	—	—	319	14,334	452	10	462
United Arab Emirates	—	—	—	—	—	177	—	677	677	—	22	22
Venezuela	—	—	—	—	—	—	—	—	343	11	—	11
Non-OPEC	370	104	150	266	1,086	762	1	77,691	251,419	5,604	2,506	8,110
Argentina	—	—	—	216	—	12	—	1,251	2,293	34	40	74
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	196	196	—	6	6
Bahamas	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	108	—	108	108	—	3	3
Belgium	—	—	—	—	—	1	—	4,320	4,320	—	139	139
Brazil	—	—	—	—	—	—	—	1,489	8,099	213	48	261
Brunei	—	—	—	—	—	—	—	—	595	19	—	19
Cameroon	—	—	—	—	—	—	—	—	—	—	—	—
Canada	77	69	35	47	811	223	1	19,819	137,166	3,785	639	4,425
Chad	—	—	—	—	—	—	—	—	—	—	—	—
China	—	—	41	—	—	—	—	41	41	—	1	1
Colombia	—	—	—	—	—	—	—	1,470	14,218	411	47	459
Denmark	—	—	—	—	—	—	—	337	1,652	42	11	53
Egypt	—	—	—	—	—	—	—	1,200	1,656	15	39	53
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	2,262	2,262	—	73	73
France	—	35	—	—	—	13	—	1,282	1,282	—	41	41
Germany	—	—	—	—	—	19	—	878	878	—	28	28
Guatemala	—	—	—	—	—	—	—	—	283	9	—	9
India	—	—	—	—	—	—	—	4,210	4,210	—	136	136
Indonesia	—	—	—	—	—	61	—	114	114	—	4	4
Italy	—	—	—	—	—	8	—	1,011	1,011	—	33	33
Korea, South	—	—	1	—	—	263	—	4,630	4,630	—	149	149
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	325	325	—	10	10
Malaysia	—	—	20	—	—	1	—	21	21	—	1	1
Mexico	199	—	—	—	—	—	—	1,493	20,349	608	48	656
Netherlands	—	—	—	—	—	1	—	5,568	6,054	16	180	195
Norway	—	—	—	—	—	—	—	1,574	4,163	84	51	134
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	1,158	1,158	—	37	37
Qatar	—	—	—	—	—	52	—	52	52	—	2	2
Russia	—	—	—	—	—	—	—	11,548	17,429	190	373	562
Spain	—	—	1	—	120	—	—	1,286	1,480	6	41	48
Sweden	—	—	—	3	—	—	—	116	116	—	4	4
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	1,021	33	—	33
United Kingdom	4	—	—	—	—	—	—	3,933	8,238	139	127	266
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	90	0	52	0	155	0	0	5,999	5,999	0	195	196
Total	370	104	150	266	1,086	939	1	81,987	303,887	7,158	2,645	9,803
Persian Gulf³	—	—	—	—	—	337	—	1,156	28,264	874	37	912

— = 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-May 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	251,904	—	—	16,675	—	81	81	—	4,396	4,396
Algeria	5,415	—	—	11,429	—	—	—	—	—	—
Angola	2,956	—	—	326	—	—	—	—	—	—
Congo (Brazzaville)	4,640	—	—	173	—	—	—	—	—	—
Ecuador	24,904	—	—	—	—	—	—	—	—	—
Equatorial Guinea	1,622	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	52,927	—	—	—	—	—	—	—	—	—
Kuwait	11,103	—	—	—	—	—	—	—	—	—
Libya	8,802	—	—	916	—	—	—	—	—	—
Nigeria	21,034	—	—	360	—	—	—	—	840	840
Saudi Arabia	89,100	—	—	1,004	—	81	81	—	2,250	2,250
United Arab Emirates	—	—	—	2,422	—	—	—	—	—	—
Venezuela	29,401	—	—	45	—	—	—	—	1,306	1,306
Non-OPEC	809,647	31,956	3,190	68,393	—	11,653	11,653	25,049	78,507	103,556
Argentina	5,376	199	—	—	—	—	—	—	451	451
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	398	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	8,023	—	253	253	490	2,856	3,346
Brazil	15,277	—	—	1,125	—	—	—	—	7,241	7,241
Brunei	2,034	—	—	—	—	—	—	—	—	—
Cameroon	658	—	—	494	—	—	—	—	—	—
Canada	573,755	30,954	2,699	3,678	—	2,495	2,495	12,910	10,406	23,316
Chad	949	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	146	146
Colombia	57,055	—	—	430	—	—	—	—	1,740	1,740
Denmark	2,809	—	—	—	—	—	—	8	399	407
Egypt	2,064	—	—	2,482	—	138	138	—	85	85
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	227	227	—	3,758	3,758
France	—	—	—	438	—	3,139	3,139	—	1,146	1,146
Germany	—	—	—	1,101	—	8	8	2	710	712
Guatemala	826	—	—	—	—	—	—	—	—	—
India	—	—	—	919	—	—	—	—	10,959	10,959
Indonesia	—	—	—	—	—	—	—	—	566	566
Italy	—	—	—	1,198	—	150	150	—	2,994	2,994
Korea, South	—	—	—	—	—	971	971	—	1,078	1,078
Latvia	—	—	—	—	—	—	—	—	69	69
Lithuania	—	—	—	—	—	—	—	—	325	325
Malaysia	—	—	—	289	—	—	—	—	—	—
Mexico	94,396	—	67	—	—	—	—	—	1,070	1,070
Netherlands	486	—	—	2,204	—	1,219	1,219	5,425	6,860	12,285
Norway	8,004	309	—	3,549	—	198	198	7	2,344	2,351
Oman	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	558	4,578	5,136
Qatar	—	—	—	—	—	—	—	—	—	—
Russia	19,942	—	—	32,606	—	300	300	—	4,720	4,720
Spain	194	—	—	1,799	—	—	—	—	4,847	4,847
Sweden	—	191	—	1,400	—	158	158	—	438	438
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	5,891	—	—	—	—	—	—	—	—	—
United Kingdom	10,154	192	—	949	—	1,787	1,787	5,649	3,410	9,059
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	9,777	111	424	5,311	—	610	610	0	5,311	5,311
Total	1,061,551	31,956	3,190	85,068	—	11,734	11,734	25,049	82,903	107,952
Persian Gulf³	153,130	—	—	3,426	—	81	81	—	2,250	2,250

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-May 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	126	310	564	1,775	2,359	-	29,876	523	773	130	31,302
Argentina	126	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	501	-	-	-	501
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	143	-	-	-	-	-	-	-
Brazil	-	310	564	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	660	-	-	16,601	247	512	130	17,490
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	279	-	-	-	279
Colombia	-	-	-	-	-	-	3,063	-	-	-	3,063
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	121	-	-	-	-	-	-	-
Germany	-	-	-	538	-	-	-	-	106	-	106
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	6,477	-	-	-	6,477
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	143	-	-	518	-	-	-	518
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	125	-	125
Netherlands	-	-	-	-	-	-	-	-	30	-	30
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	2,359	-	0	0	0	0	0
Total	126	310	564	1,775	2,359	-	31,875	523	773	130	33,301
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-May 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	-	-	-	3,262	3,262
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	150	150
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	115	-	22,367	1,885	2,868	2,959	14,651	20,478
Argentina	-	-	-	-	-	939	1,102	-	2,041
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	562	562
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	9	226	-	-	1	1
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	28	-	2,976	402	-	1,279	3,944	5,223
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	275	-	-	-	-	-
Colombia	101	-	-	-	-	100	-	2,165	2,265
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	237	197	-	-	4	4
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	10	-	13,800	462	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	6	82	749	-	3,228	3,977
Netherlands	-	77	-	-	-	-	-	845	845
Norway	-	-	-	-	-	-	-	244	244
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	484	-	-	-	-	-
Russia	-	-	-	-	-	742	-	2,594	3,336
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	286	286
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	0	0	-	4,580	516	338	578	778	1,694
Total	101	115	-	23,218	1,885	2,868	2,959	17,913	23,740
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-May 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	501	—	27,796	279,700	1,668	184	1,852
Algeria	—	—	—	—	—	—	—	11,429	16,844	36	76	112
Angola	—	—	—	—	—	—	—	326	3,282	20	2	22
Congo (Brazzaville)	—	—	—	—	—	—	—	173	4,813	31	1	32
Ecuador	—	—	—	—	—	—	—	150	25,054	165	1	166
Equatorial Guinea	—	—	—	—	—	—	—	—	1,622	11	—	11
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	18	52,945	351	0	351
Kuwait	—	—	—	—	—	—	—	101	11,204	74	1	74
Libya	—	—	—	—	—	—	—	916	9,718	58	6	64
Nigeria	—	—	—	—	—	—	—	1,532	22,566	139	10	149
Saudi Arabia	—	—	—	—	—	—	—	5,825	94,925	590	39	629
United Arab Emirates	—	—	—	—	—	501	—	3,143	3,143	—	21	21
Venezuela	—	—	—	—	31	—	—	4,183	33,584	195	28	222
Non-OPEC	2,016	542	777	990	5,388	5,851	5	315,726	1,125,373	5,362	2,091	7,453
Argentina	—	—	—	487	—	21	—	3,325	8,701	36	22	58
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	398	398	—	3	3
Bahamas	—	—	—	—	—	—	—	1,063	1,063	—	7	7
Bahrain	—	—	—	—	—	387	—	387	387	—	3	3
Belgium	—	—	—	—	—	26	—	11,791	11,791	—	78	78
Brazil	—	9	—	—	—	—	—	9,485	24,762	101	63	164
Brunei	—	—	—	—	—	—	—	—	2,034	13	—	13
Cameroon	—	—	—	—	—	—	—	494	1,152	4	3	8
Canada	408	403	244	241	4,458	1,125	5	96,805	670,560	3,800	641	4,441
Chad	—	—	—	—	—	—	—	—	949	6	—	6
China	—	—	288	—	—	—	—	988	988	—	7	7
Colombia	—	—	—	—	39	—	—	7,638	64,693	378	51	428
Denmark	—	—	—	—	—	—	—	407	3,216	19	3	21
Egypt	—	—	—	—	—	—	—	2,705	4,769	14	18	32
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	15	—	4,000	4,000	—	26	26
France	—	127	—	—	—	75	—	5,046	5,046	—	33	33
Germany	—	—	42	—	—	97	—	2,604	2,604	—	17	17
Guatemala	—	—	—	—	—	—	—	—	826	5	—	5
India	—	—	—	—	—	1	—	18,794	18,794	—	124	124
Indonesia	—	—	1	—	—	328	—	895	895	—	6	6
Italy	34	—	—	—	—	100	—	4,478	4,478	—	30	30
Korea, South	—	—	3	—	130	1,741	—	18,856	18,856	—	125	125
Latvia	—	—	—	—	—	—	—	69	69	—	0	0
Lithuania	—	—	—	—	—	—	—	325	325	—	2	2
Malaysia	—	—	53	—	65	1	—	408	408	—	3	3
Mexico	897	—	—	—	—	—	—	6,224	100,620	625	41	666
Netherlands	—	—	—	—	—	28	—	16,700	17,186	3	111	114
Norway	—	—	—	—	—	—	—	6,651	14,655	53	44	97
Oman	—	—	—	204	—	—	—	204	204	—	1	1
Portugal	—	—	—	—	—	—	—	5,136	5,136	—	34	34
Qatar	—	—	—	—	—	1,330	—	3,885	3,885	—	26	26
Russia	—	—	—	—	—	203	—	41,807	61,749	132	277	409
Spain	—	—	5	—	541	—	—	7,362	7,556	1	49	50
Sweden	—	—	—	16	—	3	—	2,492	2,492	—	17	17
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	5,891	39	—	39
United Kingdom	186	—	—	24	—	96	—	12,293	22,447	67	81	149
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	491	3	141	18	155	274	0	22,011	31,788	66	145	211
Total	2,016	542	777	990	5,419	6,352	5	343,522	1,405,073	7,030	2,275	9,305
Persian Gulf³	—	—	—	—	—	2,218	—	13,359	166,489	1,014	88	1,103

— = 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, May 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	10,281	-	-	399	-	-	-	-	319	319
Algeria	1,650	-	-	399	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	905	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	939	-	-	-	-	-	-	-	-	-
Nigeria	4,219	-	-	-	-	-	-	-	-	-
Saudi Arabia	2,568	-	-	-	-	-	-	-	319	319
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	17,260	933	387	2,130	-	2,681	2,681	5,050	18,673	23,723
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	167	1,152	1,319
Brazil	-	-	-	288	-	-	-	-	1,046	1,046
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	7,999	933	387	1,257	-	309	309	2,516	1,951	4,467
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	200	200
Denmark	1,315	-	-	-	-	-	-	8	329	337
Egypt	456	-	-	-	-	108	108	-	85	85
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	1,871	1,871
France	-	-	-	-	-	842	842	-	-	-
Germany	-	-	-	-	-	-	-	-	7	7
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	164	-	-	-	-	3,106	3,106
Indonesia	-	-	-	-	-	-	-	-	53	53
Italy	-	-	-	-	-	-	-	-	319	319
Korea, South	-	-	-	-	-	-	-	-	93	93
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	75	75
Netherlands	-	-	-	-	-	631	631	533	3,621	4,154
Norway	2,589	-	-	-	-	62	62	-	826	826
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	558	573	1,131
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	2,402	-	-	421	-	48	48	-	1,142	1,142
Spain	-	-	-	-	-	-	-	-	953	953
Sweden	-	-	-	-	-	-	-	-	113	113
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	2,305	-	-	-	-	681	681	1,268	728	1,996
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	194	0	0	0	-	0	0	0	430	430
Total	27,541	933	387	2,529	-	2,681	2,681	5,050	18,992	24,042
Persian Gulf³	2,568	-	-	-	-	-	-	-	319	319

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, May 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	-	-	-	109	-	-	2,854	53	14	-	2,921
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	17	-	-	2,392	53	14	-	2,459
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	462	-	-	-	462
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	92	-	-	-	-	-	-	-
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	-	-	-	109	-	-	2,854	53	14	-	2,921
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, May 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	-	2	-	1,526	1	345	580	1,409	2,334
Argentina	-	-	-	-	-	345	579	-	924
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	2	-	722	1	-	1	764	765
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	481	481
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	804	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	11	11
Netherlands	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	142	142
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	0	-	0	0	0	0	11	11
Total	-	2	-	1,526	1	345	580	1,409	2,334
Persian Gulf³	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, May 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	-	-	-	-	-	33	-	751	11,032	332	24	356
Algeria	-	-	-	-	-	-	-	399	2,049	53	13	66
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	905	29	-	29
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	939	30	-	30
Nigeria	-	-	-	-	-	-	-	-	4,219	136	-	136
Saudi Arabia	-	-	-	-	-	-	-	319	2,887	83	10	93
United Arab Emirates	-	-	-	-	-	33	-	33	33	-	1	1
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	65	-	681	148	-	37,641	54,901	557	1,214	1,771
Argentina	-	-	-	-	-	11	-	935	935	-	30	30
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	1	-	1,320	1,320	-	43	43
Brazil	-	-	-	-	-	-	-	1,334	1,334	-	43	43
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	32	-	406	108	-	11,865	19,864	258	383	641
Chad	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	6	-	-	-	-	6	6	-	0	0
Colombia	-	-	-	-	-	-	-	1,143	1,143	-	37	37
Denmark	-	-	-	-	-	-	-	337	1,652	42	11	53
Egypt	-	-	-	-	-	-	-	193	649	15	6	21
Estonia	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	1,871	1,871	-	60	60
France	-	-	-	-	-	10	-	852	852	-	27	27
Germany	-	-	-	-	-	14	-	113	113	-	4	4
Guatemala	-	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	3,270	3,270	-	105	105
Indonesia	-	-	-	-	-	-	-	53	53	-	2	2
Italy	-	-	-	-	-	1	-	320	320	-	10	10
Korea, South	-	-	1	-	-	1	-	899	899	-	29	29
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	1	-	1	1	-	0	0
Mexico	-	-	-	-	-	-	-	86	86	-	3	3
Netherlands	-	-	-	-	-	1	-	4,786	4,786	-	154	154
Norway	-	-	-	-	-	-	-	888	3,477	84	29	112
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	1,131	1,131	-	36	36
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	1,753	4,155	77	57	134
Spain	-	-	1	-	120	-	-	1,074	1,268	6	35	41
Sweden	-	-	-	-	-	-	-	113	113	-	4	4
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	2,677	4,982	74	86	161
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	25	-	155	0	-	621	621	1	20	21
Total	-	-	65	-	681	181	-	38,392	65,933	888	1,238	2,127
Persian Gulf³	-	-	-	-	-	33	-	352	2,920	83	11	94

- = 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, May 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	73,517	2,189	321	1	-	1	1	-	375	375
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	73,517	2,189	321	1	-	1	1	-	375	375
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	0	-	0	0
Total	73,517	2,189	321	1	-	1	1	-	375	375
Persian Gulf³	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, May 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	-	-	-	94	-	-	139	-	63	34	236
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	94	-	-	139	-	63	34	236
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	-	-	-	94	-	-	139	-	63	34	236
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, May 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	-	4	-	-	3	-	12	32	44
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	4	-	-	3	-	12	32	44
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	-	4	-	-	3	-	12	32	44
Persian Gulf³	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, May 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	77	69	3	23	282	108	-	3,830	77,347	2,372	124	2,495
Argentina	-	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-	-
Canada	77	69	3	20	282	108	-	3,827	77,344	2,372	123	2,495
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	-	-	-	3	-	-	-	3	3	-	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	0
Total	77	69	3	23	282	108	-	3,830	77,347	2,372	124	2,495
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-	-

- = 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, May 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	18,002	-	-	2,513	-	-	-	-	-	-
Algeria	-	-	-	1,600	-	-	-	-	-	-
Angola	479	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	1,142	-	-	-	-	-	-	-	-	-
Equatorial Guinea	663	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	7,829	-	-	-	-	-	-	-	-	-
Kuwait	452	-	-	-	-	-	-	-	-	-
Libya	-	-	-	413	-	-	-	-	-	-
Nigeria	2,048	-	-	-	-	-	-	-	-	-
Saudi Arabia	5,046	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	500	-	-	-	-	-	-
Venezuela	343	-	-	-	-	-	-	-	-	-
Non-OPEC	56,868	-	158	12,897	-	228	228	-	3,109	3,109
Argentina	347	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	1,685	-	-	-	-	311	311
Brazil	5,185	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	17,611	-	-	68	-	-	-	-	9	9
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	10,491	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	1,007	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	227	227	-	-	-
France	-	-	-	103	-	-	-	-	-	-
Germany	-	-	-	-	-	1	1	-	325	325
Guatemala	283	-	-	-	-	-	-	-	-	-
India	-	-	-	158	-	-	-	-	782	782
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	322	322
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	325	325
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	17,401	-	-	-	-	-	-	-	330	330
Netherlands	486	-	-	82	-	-	-	-	153	153
Norway	-	-	-	310	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	27	27
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	2,043	-	-	8,083	-	-	-	-	317	317
Spain	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	1,021	-	-	-	-	-	-	-	-	-
United Kingdom	2,000	-	-	322	-	-	-	-	208	208
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	-	158	1,079	-	0	0	-	0	0
Total	74,870	-	158	15,410	-	228	228	-	3,109	3,109
Persian Gulf³	13,327	-	-	500	-	-	-	-	-	-

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, May 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	45	155	-	-	-	-	109	-	261	-	370
Argentina	45	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	155	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	109	-	-	-	109
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	106	-	106
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	125	-	125
Netherlands	-	-	-	-	-	-	-	-	30	-	30
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	45	155	-	-	-	-	109	-	261	-	370
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, May 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	-	-	-	-	467	100	66	1,855	2,021
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	108	-	-	294	294
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	100	-	227	327
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	161	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	439	439
Netherlands	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	895	895
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	198	0	66	0	66
Total	-	-	-	-	467	100	66	1,855	2,021
Persian Gulf³	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, May 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	—	—	—	—	—	144	—	2,657	20,659	581	86	666
Algeria	—	—	—	—	—	—	—	1,600	1,600	—	52	52
Angola	—	—	—	—	—	—	—	—	479	15	—	15
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	1,142	37	—	37
Equatorial Guinea	—	—	—	—	—	—	—	—	663	21	—	21
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	7,829	253	—	253
Kuwait	—	—	—	—	—	—	—	—	452	15	—	15
Libya	—	—	—	—	—	—	—	413	413	—	13	13
Nigeria	—	—	—	—	—	—	—	—	2,048	66	—	66
Saudi Arabia	—	—	—	—	—	—	—	—	5,046	163	—	163
United Arab Emirates	—	—	—	—	—	144	—	644	644	—	21	21
Venezuela	—	—	—	—	—	—	—	—	343	11	—	11
Non-OPEC	293	35	46	216	—	477	—	20,532	77,400	1,834	662	2,497
Argentina	—	—	—	216	—	1	—	262	609	11	8	20
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	108	—	108	108	—	3	3
Belgium	—	—	—	—	—	—	—	1,996	1,996	—	64	64
Brazil	—	—	—	—	—	—	—	155	5,340	167	5	172
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	—	—	—	—	—	588	18,199	568	19	587
Chad	—	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	327	10,818	338	11	349
Denmark	—	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	1,007	1,007	—	32	32
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	227	227	—	7	7
France	—	35	—	—	—	3	—	141	141	—	5	5
Germany	—	—	—	—	—	5	—	437	437	—	14	14
Guatemala	—	—	—	—	—	—	—	—	283	9	—	9
India	—	—	—	—	—	—	—	940	940	—	30	30
Indonesia	—	—	—	—	—	61	—	61	61	—	2	2
Italy	—	—	—	—	—	7	—	329	329	—	11	11
Korea, South	—	—	—	—	—	240	—	401	401	—	13	13
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	325	325	—	10	10
Malaysia	—	—	19	—	—	—	—	19	19	—	1	1
Mexico	199	—	—	—	—	—	—	1,093	18,494	561	35	597
Netherlands	—	—	—	—	—	—	—	277	763	16	9	25
Norway	—	—	—	—	—	—	—	310	310	—	10	10
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	27	27	—	1	1
Qatar	—	—	—	—	—	52	—	52	52	—	2	2
Russia	—	—	—	—	—	—	—	9,295	11,338	66	300	366
Spain	—	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	1,021	33	—	33
United Kingdom	4	—	—	—	—	—	—	534	2,534	65	17	82
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	90	0	27	0	—	0	—	1,621	1,621	0	53	52
Total	293	35	46	216	—	621	—	23,189	98,059	2,415	748	3,163
Persian Gulf³	—	—	—	—	—	304	—	804	14,131	430	26	456

— = 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, May 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	9,529	133	-	-	-	-	-	-	332	332
Canada	9,529	133	-	-	-	-	-	-	332	332
Qatar	-	-	-	-	-	-	-	-	-	-
Other	0	0	-	-	-	-	-	-	0	0
Total	9,529	133	-	-	-	-	-	-	332	332
PAD District 5										
OPEC	19,889	-	-	738	-	-	-	-	-	-
Algeria	-	-	-	738	-	-	-	-	-	-
Angola	954	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	4,377	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	3,511	-	-	-	-	-	-	-	-	-
Kuwait	1,301	-	-	-	-	-	-	-	-	-
Libya	2,094	-	-	-	-	-	-	-	-	-
Nigeria	1,251	-	-	-	-	-	-	-	-	-
Saudi Arabia	6,401	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	16,554	1,322	-	2,260	-	762	762	642	3,429	4,071
Argentina	695	54	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	196	-	-	-	-	-	-
Brazil	1,425	-	-	-	-	-	-	-	-	-
Brunei	595	-	-	-	-	-	-	-	-	-
Canada	8,691	1,226	-	350	-	99	99	-	353	353
China	-	-	-	-	-	-	-	-	-	-
Colombia	2,257	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	164	164
Germany	-	-	-	-	-	-	-	-	328	328
Indonesia	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	309	-	304	304	-	220	220
Korea, South	-	-	-	-	-	53	53	-	214	214
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	1,455	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	148	148	329	28	357
Oman	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	275	275
Sweden	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	108	108
United Kingdom	-	-	-	-	-	71	71	-	651	651
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Other	1,436	42	-	1,405	-	87	87	313	1,088	1,401
Total	36,443	1,322	-	2,998	-	762	762	642	3,429	4,071
Persian Gulf³	11,213	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, May 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	-	-	-	41	-	-	160	-	-	-	160
Canada	-	-	-	41	-	-	160	-	-	-	160
Qatar	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	0	-	-	-	0
Total	-	-	-	41	-	-	160	-	-	-	160
PAD District 5											
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	37	646	-	727	-	1	-	728
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	9	-	-	298	-	1	-	299
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	28	-	-	429	-	-	-	429
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	646	-	0	-	0	-	0
Total	-	-	-	37	646	-	727	-	1	-	728
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, May 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	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
PAD District 5									
OPEC	-	-	-	-	-	-	-	150	150
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	150	150
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	13	-	4,289	-	-	315	363	678
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Canada	-	3	-	12	-	-	315	49	364
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Japan	-	-	-	1,186	-	-	-	-	-
Korea, South	-	10	-	2,574	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	314	314
Netherlands	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Other	-	0	-	517	-	-	0	0	0
Total	-	13	-	4,289	-	-	315	513	828
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, May 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	-	-	-	-	14	-	1	681	10,210	307	22	329
Canada	-	-	-	-	14	-	1	681	10,210	307	22	329
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	0	-	0	0	0	0	0	0
Total	-	-	-	-	14	-	1	681	10,210	307	22	329
PAD District 5												
OPEC	-	-	-	-	-	-	-	888	20,777	642	29	670
Algeria	-	-	-	-	-	-	-	738	738	-	24	24
Angola	-	-	-	-	-	-	-	-	954	31	-	31
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	150	4,527	141	5	146
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	3,511	113	-	113
Kuwait	-	-	-	-	-	-	-	-	1,301	42	-	42
Libya	-	-	-	-	-	-	-	-	2,094	68	-	68
Nigeria	-	-	-	-	-	-	-	-	1,251	40	-	40
Saudi Arabia	-	-	-	-	-	-	-	-	6,401	206	-	206
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	36	27	109	29	-	15,007	31,561	534	484	1,018
Argentina	-	-	-	-	-	-	-	54	749	22	2	24
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	196	196	-	6	6
Brazil	-	-	-	-	-	-	-	-	1,425	46	-	46
Brunei	-	-	-	-	-	-	-	-	595	19	-	19
Canada	-	-	-	27	109	7	-	2,858	11,549	280	92	373
China	-	-	35	-	-	-	-	35	35	-	1	1
Colombia	-	-	-	-	-	-	-	-	2,257	73	-	73
Finland	-	-	-	-	-	-	-	164	164	-	5	5
Germany	-	-	-	-	-	-	-	328	328	-	11	11
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	2,019	2,019	-	65	65
Korea, South	-	-	-	-	-	22	-	3,330	3,330	-	107	107
Malaysia	-	-	1	-	-	-	-	1	1	-	0	0
Mexico	-	-	-	-	-	-	-	314	1,769	47	10	57
Netherlands	-	-	-	-	-	-	-	505	505	-	16	16
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	921	921	-	30	30
Sweden	-	-	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	108	108	-	3	3
United Kingdom	-	-	-	-	-	-	-	722	722	-	23	23
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	0	0	0	0	-	3,452	4,888	47	113	159
Total	-	-	36	27	109	29	-	15,895	52,338	1,176	513	1,688
Persian Gulf³	-	-	-	-	-	-	-	-	11,213	362	-	362

- = 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-May 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	44,117	-	-	1,606	-	81	81	-	4,396	4,396
Algeria	5,415	-	-	1,201	-	-	-	-	-	-
Angola	572	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	4,640	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	2,971	-	-	-	-	-	-	-	-	-
Nigeria	15,196	-	-	360	-	-	-	-	840	840
Saudi Arabia	15,323	-	-	-	-	81	81	-	2,250	2,250
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	45	-	-	-	-	1,306	1,306
Non-OPEC	72,816	7,815	1,201	7,035	-	8,808	8,808	22,784	56,306	79,090
Argentina	-	-	-	-	-	-	-	-	52	52
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	166	166	177	1,812	1,989
Brazil	546	-	-	288	-	-	-	-	6,637	6,637
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	204	-	-	-	-	-	-
Canada	35,259	7,240	1,201	1,581	-	2,049	2,049	12,910	7,296	20,206
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	3,835	-	-	-	-	-	-	-	1,140	1,140
Denmark	2,809	-	-	-	-	-	-	8	329	337
Egypt	1,443	-	-	-	-	138	138	-	85	85
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	3,282	3,282
France	-	-	-	128	-	3,139	3,139	-	441	441
Germany	-	-	-	222	-	7	7	2	7	9
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	164	-	-	-	-	7,746	7,746
Indonesia	-	-	-	-	-	-	-	-	566	566
Italy	-	-	-	68	-	150	150	-	2,370	2,370
Korea, South	-	-	-	-	-	-	-	-	93	93
Latvia	-	-	-	-	-	-	-	-	69	69
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	75	75
Netherlands	-	-	-	292	-	1,071	1,071	3,798	6,182	9,980
Norway	8,004	192	-	-	-	198	198	7	1,949	1,956
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	558	3,662	4,220
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	9,079	-	-	2,462	-	300	300	-	4,403	4,403
Spain	194	-	-	1,062	-	-	-	-	4,228	4,228
Sweden	-	191	-	-	-	158	158	-	113	113
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	5,524	-	-	-	-	1,432	1,432	5,324	1,795	7,119
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	6,123	192	0	564	-	0	0	0	1,974	1,974
Total	116,933	7,815	1,201	8,641	-	8,889	8,889	22,784	60,702	83,486
Persian Gulf³	15,323	-	-	-	-	81	81	-	2,250	2,250

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-May 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	-	-	-	981	-	-	26,457	523	245	-	27,225
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	501	-	-	-	501
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	143	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	122	-	-	13,700	247	245	-	14,192
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	279	-	-	-	279
Colombia	-	-	-	-	-	-	3,063	-	-	-	3,063
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	121	-	-	-	-	-	-	-
Germany	-	-	-	538	-	-	-	-	-	-	-
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	-	-	-	981	-	-	28,163	523	245	-	28,931
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-May 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	24	—	7,362	2	939	1,112	7,592	9,643
Argentina	—	—	—	—	—	939	1,102	—	2,041
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	562	562
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	9	—	—	—	1	1
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	6	—	2,958	2	—	10	3,011	3,021
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	275	—	—	—	—	—
Colombia	101	—	—	—	—	—	—	1,821	1,821
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	237	—	—	—	4	4
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	3,399	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	137	137
Netherlands	—	18	—	—	—	—	—	610	610
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	484	—	—	—	—	—
Russia	—	—	—	—	—	—	—	1,080	1,080
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	286	286
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	0	0	—	0	0	0	0	80	80
Total	101	24	—	8,195	2	939	1,112	9,504	11,555
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-May 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	87	-	10,652	54,769	292	71	363
Algeria	-	-	-	-	-	-	-	1,201	6,616	36	8	44
Angola	-	-	-	-	-	-	-	-	572	4	-	4
Congo (Brazzaville)	-	-	-	-	-	-	-	-	4,640	31	-	31
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	101	101	-	1	1
Libya	-	-	-	-	-	-	-	-	2,971	20	-	20
Nigeria	-	-	-	-	-	-	-	1,532	16,728	101	10	111
Saudi Arabia	-	-	-	-	-	-	-	4,142	19,465	101	27	129
United Arab Emirates	-	-	-	-	-	87	-	307	307	-	2	2
Venezuela	-	-	-	-	31	-	-	3,369	3,369	-	22	22
Non-OPEC	3	11	385	20	3,433	771	-	153,910	226,726	482	1,019	1,501
Argentina	-	-	-	-	-	11	-	2,104	2,104	-	14	14
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	1,063	1,063	-	7	7
Bahrain	-	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	21	-	2,319	2,319	-	15	15
Brazil	-	-	-	-	-	-	-	6,935	7,481	4	46	50
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	204	204	-	1	1
Canada	-	11	213	3	2,698	521	-	56,024	91,283	234	371	605
Chad	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	65	-	-	-	-	619	619	-	4	4
Colombia	-	-	-	-	39	-	-	6,164	9,999	25	41	66
Denmark	-	-	-	-	-	-	-	337	3,146	19	2	21
Egypt	-	-	-	-	-	-	-	223	1,666	10	1	11
Estonia	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	3,282	3,282	-	22	22
France	-	-	-	-	-	34	-	3,863	3,863	-	26	26
Germany	-	-	42	-	-	64	-	882	882	-	6	6
Guatemala	-	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	1	-	14,629	14,629	-	97	97
Indonesia	-	-	1	-	-	-	-	567	567	-	4	4
Italy	-	-	-	-	-	6	-	2,594	2,594	-	17	17
Korea, South	-	-	3	-	-	87	-	3,582	3,582	-	24	24
Latvia	-	-	-	-	-	-	-	69	69	-	0	0
Lithuania	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	1	-	1	1	-	0	0
Mexico	-	-	-	-	-	-	-	212	212	-	1	1
Netherlands	-	-	-	-	-	2	-	11,973	11,973	-	79	79
Norway	-	-	-	-	-	-	-	2,346	10,350	53	16	69
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	4,220	4,220	-	28	28
Qatar	-	-	-	-	-	-	-	2,555	2,555	-	17	17
Russia	-	-	-	-	-	18	-	8,905	17,984	60	59	119
Spain	-	-	4	-	541	-	-	5,892	6,086	1	39	40
Sweden	-	-	-	2	-	3	-	753	753	-	5	5
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	3	-	-	8	-	-	-	8,754	14,278	37	58	95
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	57	7	155	2	-	2,839	8,962	39	19	58
Total	3	11	385	20	3,464	858	-	164,562	281,495	774	1,090	1,864
Persian Gulf³	-	-	-	-	-	87	-	7,105	22,428	101	47	149

- = 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-May 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	383,760	13,360	1,498	255	-	1	1	-	1,741	1,741
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	475	-	-	-	-	-	-	-	-	-
Brunei	417	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	381,410	13,360	1,498	255	-	1	1	-	1,741	1,741
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	-	0	0
Total	383,760	13,360	1,498	255	-	1	1	-	1,741	1,741
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-May 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	-	-	-	444	-	-	919	-	262	130	1,311
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	444	-	-	919	-	262	130	1,311
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	-	-	-	444	-	-	919	-	262	130	1,311
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-May 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	-	13	-	-	27	-	137	171	308
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	13	-	-	27	-	137	171	308
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	-	13	-	-	27	-	137	171	308
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-May 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	408	392	31	142	1,085	570	-	21,586	405,346	2,541	143	2,684
Argentina	-	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	475	3	-	3
Brunei	-	-	-	-	-	-	-	-	417	3	-	3
Cameroon	-	-	-	-	-	-	-	-	-	-	-	-
Canada	408	392	31	128	1,085	566	-	21,568	402,978	2,526	143	2,669
Chad	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	1,458	10	-	10
Netherlands	-	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	4	-	4	4	-	0	0
Russia	-	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	14	-	-	-	14	14	-	0	0
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	0	0	0	-	0	0	-1	0	-1
Total	408	392	31	142	1,085	570	-	21,586	405,346	2,541	143	2,684
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-May 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	104,385	-	-	12,367	-	-	-	-	-	-
Algeria	-	-	-	7,614	-	-	-	-	-	-
Angola	479	-	-	326	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	173	-	-	-	-	-	-
Ecuador	2,599	-	-	-	-	-	-	-	-	-
Equatorial Guinea	663	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	37,491	-	-	-	-	-	-	-	-	-
Kuwait	5,610	-	-	-	-	-	-	-	-	-
Libya	-	-	-	916	-	-	-	-	-	-
Nigeria	2,997	-	-	-	-	-	-	-	-	-
Saudi Arabia	25,642	-	-	1,004	-	-	-	-	-	-
United Arab Emirates	-	-	-	2,334	-	-	-	-	-	-
Venezuela	28,904	-	-	-	-	-	-	-	-	-
Non-OPEC	226,566	-	491	52,480	-	512	512	325	11,747	12,072
Argentina	589	-	-	-	-	-	-	-	399	399
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	8,023	-	-	-	-	311	311
Brazil	8,817	-	-	753	-	-	-	-	604	604
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	658	-	-	290	-	-	-	-	-	-
Canada	75,258	-	-	607	-	-	-	-	9	9
Chad	949	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	74	74
Colombia	37,691	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	70	70
Egypt	621	-	-	2,482	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	227	227	-	312	312
France	-	-	-	310	-	-	-	-	111	111
Germany	-	-	-	879	-	1	1	-	375	375
Guatemala	826	-	-	-	-	-	-	-	-	-
India	-	-	-	466	-	-	-	-	3,213	3,213
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	680	-	-	-	-	624	624
Korea, South	-	-	-	-	-	-	-	-	303	303
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	325	325
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	87,252	-	67	-	-	-	-	-	995	995
Netherlands	486	-	-	1,912	-	-	-	-	547	547
Norway	-	-	-	3,188	-	-	-	-	322	322
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	916	916
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	4,907	-	-	27,624	-	-	-	-	317	317
Spain	-	-	-	525	-	-	-	-	294	294
Sweden	-	-	-	663	-	-	-	-	325	325
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	3,814	-	-	-	-	-	-	-	-	-
United Kingdom	4,630	-	-	600	-	284	284	325	257	582
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	68	-	424	3,478	-	0	0	0	1,044	1,044
Total	330,951	-	491	64,847	-	512	512	325	11,747	12,072
Persian Gulf³	68,743	-	-	3,338	-	-	-	-	-	-

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-May 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	126	310	-	113	-	-	223	-	261	-	484
Argentina	126	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	310	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	223	-	-	-	223
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	106	-	106
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	125	-	125
Netherlands	-	-	-	-	-	-	-	-	30	-	30
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	-	0
Total	126	310	-	113	-	-	516	-	261	-	777
Persian Gulf ³	-	-	-	-	-	-	-	-	-	-	-

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-May 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	1,856	1,591	578	4,583	6,752
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	226	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	-	-	6	373	-	-	294	294
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	100	-	344	444
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	197	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	462	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	6	82	749	-	1,952	2,701
Netherlands	-	59	-	-	-	-	-	235	235
Norway	-	-	-	-	-	-	-	244	244
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	742	-	1,514	2,256
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	0	-	0	516	0	578	0	578
Total	-	59	-	30	1,856	1,591	578	5,783	7,952
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-May 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	-	-	-	-	-	414	-	14,292	118,677	691	95	786
Algeria	-	-	-	-	-	-	-	7,614	7,614	-	50	50
Angola	-	-	-	-	-	-	-	326	805	3	2	5
Congo (Brazzaville)	-	-	-	-	-	-	-	173	173	-	1	1
Ecuador	-	-	-	-	-	-	-	-	2,599	17	-	17
Equatorial Guinea	-	-	-	-	-	-	-	-	663	4	-	4
Gabon	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	18	37,509	248	0	248
Kuwait	-	-	-	-	-	-	-	-	5,610	37	-	37
Libya	-	-	-	-	-	-	-	916	916	-	6	6
Nigeria	-	-	-	-	-	-	-	-	2,997	20	-	20
Saudi Arabia	-	-	-	-	-	-	-	1,683	27,325	170	11	181
United Arab Emirates	-	-	-	-	-	414	-	2,748	2,748	-	18	18
Venezuela	-	-	-	-	-	-	-	814	29,718	191	5	197
Non-OPEC	1,462	139	146	718	-	4,024	-	81,783	308,349	1,500	542	2,042
Argentina	-	-	-	487	-	10	-	1,022	1,611	4	7	11
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	387	-	387	387	-	3	3
Belgium	-	-	-	-	-	5	-	8,339	8,339	-	55	55
Brazil	-	9	-	-	-	-	-	1,902	10,719	58	13	71
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	290	948	4	2	6
Canada	-	-	-	-	-	-	-	1,512	76,770	498	10	508
Chad	-	-	-	-	-	-	-	-	949	6	-	6
China	-	-	32	-	-	-	-	106	106	-	1	1
Colombia	-	-	-	-	-	-	-	444	38,135	250	3	253
Denmark	-	-	-	-	-	-	-	70	70	-	0	0
Egypt	-	-	-	-	-	-	-	2,482	3,103	4	16	21
Estonia	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	15	-	554	554	-	4	4
France	-	127	-	-	-	41	-	589	589	-	4	4
Germany	-	-	-	-	-	33	-	1,394	1,394	-	9	9
Guatemala	-	-	-	-	-	-	-	-	826	5	-	5
India	-	-	-	-	-	-	-	3,876	3,876	-	26	26
Indonesia	-	-	-	-	-	328	-	328	328	-	2	2
Italy	34	-	-	-	-	94	-	1,434	1,434	-	9	9
Korea, South	-	-	-	-	-	1,608	-	2,373	2,373	-	16	16
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	325	325	-	2	2
Malaysia	-	-	51	-	-	-	-	51	51	-	0	0
Mexico	897	-	-	-	-	-	-	4,873	92,125	578	32	610
Netherlands	-	-	-	-	-	26	-	2,821	3,307	3	19	22
Norway	-	-	-	-	-	-	-	3,754	3,754	-	25	25
Oman	-	-	-	204	-	-	-	204	204	-	1	1
Portugal	-	-	-	-	-	-	-	916	916	-	6	6
Qatar	-	-	-	-	-	1,326	-	1,326	1,326	-	9	9
Russia	-	-	-	-	-	-	-	30,197	35,104	32	200	232
Spain	-	-	1	-	-	-	-	933	933	-	6	6
Sweden	-	-	-	-	-	-	-	988	988	-	7	7
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	3,814	25	-	25
United Kingdom	183	-	-	16	-	96	-	1,761	6,391	31	12	42
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	348	3	62	11	-	55	-	6,532	6,600	2	43	45
Total	1,462	139	146	718	-	4,438	-	96,075	427,026	2,192	636	2,828
Persian Gulf³	-	-	-	-	-	2,127	-	6,162	74,905	455	41	496

- = 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-May 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	44,465	2,091	-	-	-	-	-	-	646	646
Canada	44,465	2,091	-	-	-	-	-	-	646	646
Qatar	-	-	-	-	-	-	-	-	-	-
Other	0	0	-	-	-	-	-	-	0	0
Total	44,465	2,091	-	-	-	-	-	-	646	646
PAD District 5										
OPEC	103,402	-	-	2,702	-	-	-	-	-	-
Algeria	-	-	-	2,614	-	-	-	-	-	-
Angola	1,905	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	22,305	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	15,436	-	-	-	-	-	-	-	-	-
Kuwait	5,493	-	-	-	-	-	-	-	-	-
Libya	5,831	-	-	-	-	-	-	-	-	-
Nigeria	2,841	-	-	-	-	-	-	-	-	-
Saudi Arabia	48,135	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	88	-	-	-	-	-	-
Venezuela	497	-	-	-	-	-	-	-	-	-
Non-OPEC	82,040	8,690	-	8,623	-	2,332	2,332	1,940	8,067	10,007
Argentina	4,787	199	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	398	-	-	-	-	-	-
Brazil	5,439	-	-	84	-	-	-	-	-	-
Brunei	1,617	-	-	-	-	-	-	-	-	-
Canada	37,363	8,263	-	1,235	-	445	445	-	714	714
China	-	-	-	-	-	-	-	-	72	72
Colombia	15,529	-	-	430	-	-	-	-	600	600
Finland	-	-	-	-	-	-	-	-	164	164
Germany	-	-	-	-	-	-	-	-	328	328
Indonesia	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	813	-	610	610	-	1,513	1,513
Korea, South	-	-	-	-	-	971	971	-	682	682
Malaysia	-	-	-	289	-	-	-	-	-	-
Mexico	5,686	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	148	148	1,627	131	1,758
Oman	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	189	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	275	275
Sweden	-	-	-	737	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	327	327
United Kingdom	-	-	-	349	-	71	71	-	1,358	1,358
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Other	11,619	228	-	4,099	-	87	87	313	1,903	2,216
Total	185,442	8,690	-	11,325	-	2,332	2,332	1,940	8,067	10,007
Persian Gulf³	69,064	-	-	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-May 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	-	-	-	63	-	-	508	-	-	-	508
Canada	-	-	-	63	-	-	508	-	-	-	508
Qatar	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	0	-	-	-	0
Total	-	-	-	63	-	-	508	-	-	-	508
PAD District 5											
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	564	174	2,359	-	1,769	-	5	-	1,774
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	564	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	31	-	-	1,251	-	5	-	1,256
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	143	-	-	518	-	-	-	518
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	0	0	2,359	-	0	-	0	-	0
Total	-	-	564	174	2,359	-	1,769	-	5	-	1,774
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-May 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	-	-	-	-	-	-	-	150	150
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	150	150
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	17	-	14,993	-	338	1,132	2,208	3,678
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Canada	-	7	-	12	-	-	1,132	371	1,503
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Japan	-	-	-	2,120	-	-	-	-	-
Korea, South	-	10	-	10,401	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	1,139	1,139
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	-	1,875	-	0	0	193	193
Total	-	17	-	14,993	-	338	1,132	2,358	3,828
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-May 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	-	-	-	-	184	1	5	3,597	48,062	294	24	318
Canada	-	-	-	-	184	1	5	3,597	48,062	294	24	318
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	0	0	0	0	0	0	0	0
Total	-	-	-	-	184	1	5	3,597	48,062	294	24	318
PAD District 5												
OPEC	-	-	-	-	-	-	-	2,852	106,254	685	19	704
Algeria	-	-	-	-	-	-	-	2,614	2,614	-	17	17
Angola	-	-	-	-	-	-	-	-	1,905	13	-	13
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	150	22,455	148	1	149
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	15,436	102	-	102
Kuwait	-	-	-	-	-	-	-	-	5,493	36	-	36
Libya	-	-	-	-	-	-	-	-	5,831	39	-	39
Nigeria	-	-	-	-	-	-	-	-	2,841	19	-	19
Saudi Arabia	-	-	-	-	-	-	-	-	48,135	319	-	319
United Arab Emirates	-	-	-	-	-	-	-	88	88	-	1	1
Venezuela	-	-	-	-	-	-	-	-	497	3	-	3
Non-OPEC	143	-	215	110	686	485	-	54,850	136,890	543	363	907
Argentina	-	-	-	-	-	-	-	199	4,986	32	1	33
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	398	398	-	3	3
Brazil	-	-	-	-	-	-	-	648	6,087	36	4	40
Brunei	-	-	-	-	-	-	-	-	1,617	11	-	11
Canada	-	-	-	110	491	37	-	14,104	51,467	247	93	341
China	-	-	191	-	-	-	-	263	263	-	2	2
Colombia	-	-	-	-	-	-	-	1,030	16,559	103	7	110
Finland	-	-	-	-	-	-	-	164	164	-	1	1
Germany	-	-	-	-	-	-	-	328	328	-	2	2
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	22	-	-	-	-	5,078	5,078	-	34	34
Korea, South	-	-	-	-	130	46	-	12,901	12,901	-	85	85
Malaysia	-	-	2	-	65	-	-	356	356	-	2	2
Mexico	-	-	-	-	-	-	-	1,139	6,825	38	8	45
Netherlands	-	-	-	-	-	-	-	1,906	1,906	-	13	13
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	694	694	-	5	5
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	3,367	3,367	-	22	22
Sweden	-	-	-	-	-	-	-	737	737	-	5	5
Taiwan	143	-	-	-	-	-	-	660	660	-	4	4
United Kingdom	-	-	-	-	-	-	-	1,778	1,778	-	12	12
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Other	0	-	0	0	0	402	-	9,100	20,719	76	60	137
Total	143	-	215	110	686	485	-	57,702	243,144	1,228	382	1,610
Persian Gulf³	-	-	-	-	-	-	-	88	69,152	457	1	458

- = 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, May 2019
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil¹	733	3,138	84,987	-	1,050	89,908	2,900
Hydrocarbon Gas Liquids	7,252	6,823	39,120	63	1,875	55,132	1,778
Natural Gas Liquids	7,252	6,823	39,120	63	1,875	55,132	1,778
Ethane	1,047	2,432	5,195	-	0	8,674	280
Propane	4,425	98	27,395	0	1,091	33,010	1,065
Normal Butane	1,716	85	6,183	2	765	8,753	282
Isobutane	1	1	306	-	0	308	10
Natural Gasoline	63	4,206	41	60	18	4,388	142
Refinery Olefins	-	-	-	-	-	-	-
Ethylene	-	-	-	-	-	-	-
Propylene	-	-	-	-	-	-	-
Normal Butylene	-	-	-	-	-	-	-
Isobutylene	-	-	-	-	-	-	-
Other Liquids	422	2,933	9,079	4	436	12,876	415
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	302	746	3,614	1	327	4,990	161
Hydrogen	-	-	-	-	-	-	-
Oxygenates (excluding Fuel Ethanol)	1	2	2,192	-	0	2,195	71
Methyl Tertiary Butyl Ether (MTBE)	-	-	1,218	-	0	1,218	39
Other Oxygenates	1	2	975	-	0	978	32
Renewable Fuels (including Fuel Ethanol) ...	301	744	1,422	1	327	2,794	90
Fuel Ethanol	225	512	1,408	-	230	2,375	77
Biodiesel	76	232	14	1	97	419	14
Other Renewable Diesel	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	-	-	-	-	-
Unfinished Oils	19	1,718	4,016	3	28	5,784	187
Naphthas and Lighter	6	1,715	3,913	-	20	5,655	182
Kerosene and Light Gas Oils	12	3	103	3	8	130	4
Heavy Gas Oils	-	-	-	-	-	-	-
Residuum	-	-	-	-	-	-	-
Motor Gasoline Blend.Comp. (MGBC)	102	469	1,449	0	82	2,102	68
Reformulated	0	-	9	-	1	10	0
Conventional	101	469	1,440	0	81	2,091	67
Aviation Gasoline Blend. Comp.	-	-	-	-	-	-	-
Finished Petroleum Products	5,128	1,529	81,954	18	8,277	96,907	3,126
Finished Motor Gasoline	351	179	21,798	3	709	23,039	743
Reformulated	-	-	-	-	-	-	-
Conventional	351	179	21,798	3	709	23,039	743
Finished Aviation Gasoline	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	747	37	4,562	-	392	5,737	185
Kerosene	1	1	42	-	0	44	1
Distillate Fuel Oil	2,155	238	37,093	-	1,882	41,367	1,334
15 ppm sulfur and under	1,271	1	30,988	-	1,192	33,451	1,079
Greater than 15 ppm to 500 ppm sulfur	883	105	2,758	-	452	4,198	135
Greater than 500 ppm sulfur	0	132	3,347	-	239	3,718	120
Residual Fuel Oil	992	162	5,410	4	1,745	8,313	268
Naphtha for Petro. Feed. Use	-	-	-	-	-	-	-
Other Oils for Petro. Feed. Use	-	-	-	-	-	-	-
Special Naphthas	-	-	-	-	-	-	-
Lubricants	183	186	3,034	8	88	3,499	113
Waxes	60	40	50	0	5	155	5
Petroleum Coke	579	571	9,481	1	3,405	14,036	453
Asphalt and Road Oil	47	116	442	2	50	657	21
Miscellaneous Products	14	1	43	0	0	58	2
Total	13,536	14,423	215,140	85	11,639	254,823	8,220

- = 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-May 2019
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil¹	742	24,326	395,057	-	1,805	421,930	2,794
Hydrocarbon Gas Liquids	24,016	36,474	184,704	1,465	6,961	253,620	1,680
Natural Gas Liquids	24,016	36,474	184,704	1,465	6,961	253,620	1,680
Ethane	2,659	12,969	24,882	-	1	40,512	268
Propane	15,669	469	131,397	2	4,394	151,035	1,000
Normal Butane	4,818	1,172	28,672	8	2,542	36,966	245
Isobutane	5	5	645	-	4	655	4
Natural Gasoline	897	21,870	165	1,455	66	24,452	162
Refinery Olefins	-	-	-	-	-	-	-
Ethylene	-	-	-	-	-	-	-
Propylene	-	-	-	-	-	-	-
Normal Butylene	-	-	-	-	-	-	-
Isobutylene	-	-	-	-	-	-	-
Other Liquids	1,123	11,834	61,244	16	2,274	76,492	507
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	877	3,014	20,004	1	1,287	25,183	167
Hydrogen	-	-	-	-	-	-	-
Oxygenates (excluding Fuel Ethanol)	5	8	8,922	0	3	8,938	59
Methyl Tertiary Butyl Ether (MTBE)	0	0	5,117	-	0	5,117	34
Other Oxygenates	5	8	3,805	0	2	3,821	25
Renewable Fuels (including Fuel Ethanol) ...	872	3,006	11,082	1	1,284	16,244	108
Fuel Ethanol	782	2,423	10,829	-	1,016	15,051	100
Biodiesel	89	583	253	1	268	1,193	8
Other Renewable Diesel	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	-	-	-	-	-
Unfinished Oils	121	7,936	26,749	15	370	35,191	233
Naphthas and Lighter	58	7,896	25,976	1	340	34,271	227
Kerosene and Light Gas Oils	63	40	773	14	29	919	6
Heavy Gas Oils	-	-	-	-	-	-	-
Residuum	-	-	-	-	-	-	-
Motor Gasoline Blend.Comp. (MGBC)	125	884	14,491	0	618	16,118	107
Reformulated	7	-	54	-	7	68	0
Conventional	118	884	14,436	0	610	16,050	106
Aviation Gasoline Blend. Comp.	-	-	-	-	-	-	-
Finished Petroleum Products	21,526	5,356	412,632	85	53,585	493,185	3,266
Finished Motor Gasoline	1,494	711	115,411	6	5,489	123,111	815
Reformulated	-	-	-	-	-	-	-
Conventional	1,494	711	115,411	6	5,489	123,111	815
Finished Aviation Gasoline	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	2,698	270	24,060	-	3,539	30,566	202
Kerosene	179	4	206	-	10	398	3
Distillate Fuel Oil	6,560	963	163,835	0	19,834	191,192	1,266
15 ppm sulfur and under	4,244	3	132,866	0	13,893	151,007	1,000
Greater than 15 ppm to 500 ppm sulfur	2,179	508	14,449	-	3,028	20,163	134
Greater than 500 ppm sulfur	137	452	16,520	-	2,913	20,022	133
Residual Fuel Oil	6,142	727	28,987	35	5,284	41,174	273
Naphtha for Petro. Feed. Use	-	-	-	-	-	-	-
Other Oils for Petro. Feed. Use	-	-	-	-	-	-	-
Special Naphthas	-	-	-	-	-	-	-
Lubricants	1,039	920	14,015	36	1,392	17,402	115
Waxes	295	165	133	1	25	619	4
Petroleum Coke	2,648	1,090	63,137	1	17,663	84,538	560
Asphalt and Road Oil	406	492	2,700	5	349	3,950	26
Miscellaneous Products	66	15	149	2	1	233	2
Total	47,407	77,990	1,053,638	1,567	64,625	1,245,227	8,247

- = 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, May 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	—	—	—	316	—	65	65	—	—	—
Australia	912	0	—	1	—	0	0	0	—	0
Bahamas	—	22	—	—	—	274	274	0	0	0
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	13	106	—	20	—	—	—	—	—	—
Belize	—	—	—	—	—	167	167	—	38	38
Brazil	2,535	2,444	—	1,038	—	1,548	1,548	—	205	205
Canada	14,102	6,984	—	1,731	—	568	568	—	809	809
Cayman Islands	—	—	—	—	—	0	0	0	—	0
Chile	2,847	1,128	—	9	—	124	124	—	—	—
China	7,665	264	—	2	—	0	0	—	—	—
Colombia	379	0	—	1,638	—	969	969	—	—	—
Costa Rica	—	174	—	1	—	270	270	—	—	—
Denmark	700	—	—	—	—	—	—	—	—	—
Dominican Republic	449	953	—	0	—	346	346	—	—	—
Ecuador	—	952	—	—	—	526	526	—	—	—
Egypt	—	531	—	—	—	—	—	—	—	—
El Salvador	—	237	—	0	—	367	367	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—
France	1,419	867	—	44	—	—	—	—	0	0
Germany	735	0	—	7	—	—	—	—	0	0
Ghana	—	240	—	—	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	318	318	—	—	—
Greece	—	0	—	—	—	0	0	—	—	—
Guatemala	—	420	—	8	—	996	996	—	171	171
Honduras	—	597	—	—	—	443	443	—	0	0
Hong Kong	—	0	—	0	—	—	—	—	—	—
India	7,875	4,273	—	0	—	—	—	—	—	—
Indonesia	—	1,069	—	—	—	—	—	—	—	—
Ireland	599	—	—	—	—	—	—	—	—	—
Israel	729	0	—	—	—	9	9	—	—	—
Italy	6,362	0	—	—	—	320	320	—	—	—
Jamaica	—	0	—	—	—	125	125	—	0	0
Japan	2,244	12,711	—	3	—	316	316	0	—	0
Korea, South	10,255	4,961	—	19	—	1	1	0	—	0
Lebanon	—	—	—	—	—	—	—	—	—	—
Mexico	—	3,994	—	83	—	12,091	12,091	9	820	829
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	963	—	0	—	—	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—	—	—
Netherlands	2,749	1,909	—	662	—	482	482	—	—	—
New Zealand	—	—	—	0	—	—	—	—	—	—
Nicaragua	425	—	—	—	—	179	179	—	—	—
Nigeria	—	43	—	0	—	320	320	—	—	—
Norway	1,419	265	—	—	—	—	—	—	—	—
Pakistan	—	—	—	—	—	—	—	—	—	—
Panama	1,919	0	—	1	—	540	540	—	0	0
Peru	1,109	251	—	1	—	536	536	—	46	46
Philippines	—	551	—	0	—	—	—	—	—	—
Portugal	—	354	—	—	—	—	—	—	—	—
Puerto Rico	—	9	—	1	—	4	4	—	0	0
Romania	—	0	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	0	—	—	—	—	0	0
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	2,574	0	—	12	—	—	—	—	—	—
South Africa	324	0	—	0	—	494	494	—	—	—
Spain	1,139	1,484	—	—	—	—	—	—	—	—
Switzerland	—	—	—	—	—	—	—	—	—	—
Taiwan	7,749	577	—	174	—	0	0	—	—	—
Thailand	805	0	—	1	—	—	—	—	—	—
Trinidad and Tobago	—	0	—	0	—	0	0	—	—	—
Turkey	—	553	—	—	—	—	—	—	—	—
United Arab Emirates	1,712	—	—	—	—	—	—	—	—	—
United Kingdom	6,717	2,513	—	0	—	1	1	—	—	—
Venezuela	—	2	—	—	—	6	6	—	2	2
Other	1,447	2,731	—	12	—	634	634	1	—	2
Total	89,908	55,132	—	5,784	—	23,039	23,039	10	2,091	2,102

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, May 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	—	—	—	681	310	—	—	991
Australia	—	—	0	—	—	—	1	—	—	—	1
Bahamas	—	—	0	—	—	—	163	—	375	—	538
Bahrain	—	—	0	—	—	—	—	—	—	—	—
Belgium	8	0	0	—	—	—	—	—	—	—	—
Belize	—	—	—	—	—	—	140	45	—	—	185
Brazil	—	—	253	—	—	—	4,551	—	303	—	4,853
Canada	—	1	551	405	—	—	0	670	171	—	841
Cayman Islands	—	—	—	—	—	—	55	—	—	—	55
Chile	218	—	1	—	—	—	3,163	—	—	—	3,163
China	0	0	0	—	—	—	1	—	—	—	1
Colombia	—	—	215	—	—	—	952	—	—	—	952
Costa Rica	—	—	0	—	—	—	719	—	—	—	719
Denmark	—	—	—	—	—	—	—	—	—	—	—
Dominican Republic	—	—	0	—	—	—	177	—	262	—	439
Ecuador	—	—	—	—	—	—	1,065	545	—	—	1,610
Egypt	—	—	—	—	—	—	0	—	—	—	0
El Salvador	—	—	—	—	—	—	251	302	—	—	553
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	0	—	—	—	—	797	311	—	—	1,108
Germany	—	0	0	—	—	—	0	—	—	—	0
Ghana	—	—	—	—	—	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	—	2,049	—	601	—	2,650
Greece	—	—	—	—	—	—	—	—	—	—	—
Guatemala	—	—	0	—	—	—	511	491	139	—	1,141
Honduras	—	—	—	—	—	—	66	154	300	—	520
Hong Kong	—	—	—	—	—	—	—	—	—	—	—
India	—	—	343	—	—	—	2	—	—	—	2
Indonesia	—	—	0	—	—	—	—	—	—	—	—
Ireland	—	—	—	—	—	—	254	—	—	—	254
Israel	—	0	0	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—	—
Jamaica	—	—	0	—	—	—	50	—	120	—	170
Japan	—	973	32	—	—	—	2	—	—	—	2
Korea, South	155	0	215	—	—	—	2	—	—	—	2
Lebanon	—	—	—	—	—	—	—	—	—	—	—
Mexico	836	0	45	1	—	—	7,474	93	37	—	7,604
Montenegro	—	—	—	—	—	—	—	—	—	—	—
Morocco	—	—	—	1	—	—	892	77	—	—	970
Mozambique	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	2	63	14	—	—	1,813	616	308	—	2,737
New Zealand	—	—	—	—	—	—	0	—	—	—	0
Nicaragua	—	—	—	—	—	—	—	215	—	—	215
Nigeria	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	88	—	—	—	88
Pakistan	—	—	—	—	—	—	—	—	—	—	—
Panama	—	—	0	—	—	—	1,065	39	100	—	1,203
Peru	—	—	73	—	—	—	1,620	—	—	—	1,620
Philippines	—	0	217	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Puerto Rico	—	0	2	—	—	—	1	0	—	—	1
Romania	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	43	—	—	—	—	—	—	—	—
Serbia	—	—	—	—	—	—	—	—	—	—	—
Singapore	—	0	25	—	—	—	—	—	100	—	100
South Africa	—	—	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	1,109	—	—	—	1,109
Switzerland	—	—	1	—	—	—	—	—	—	—	—
Taiwan	0	—	—	—	—	—	—	9	—	—	9
Thailand	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	0	—	—	—	480	—	—	—	480
Turkey	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	176	—	—	—	—	—	—	—	—
United Kingdom	—	0	86	—	—	—	2,157	—	—	—	2,157
Venezuela	—	—	—	—	—	—	—	—	—	—	—
Other	1	2	34	0	—	—	1,100	321	902	—	2,324
Total	1,218	978	2,375	419	—	—	33,451	4,198	3,718	—	41,367

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, May 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	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—
Bahamas	—	—	—	65	—	254	—	—
Bahrain	—	—	—	0	—	—	—	—
Belgium	—	—	—	—	—	—	—	—
Belize	—	—	—	5	—	—	—	—
Brazil	—	—	—	—	—	—	—	—
Canada	1	—	—	1,685	—	685	—	—
Cayman Islands	0	—	—	12	—	—	—	—
Chile	1	—	—	452	—	1	—	—
China	0	—	—	—	—	0	—	—
Colombia	—	—	—	—	—	0	—	—
Costa Rica	0	—	—	199	—	—	—	—
Denmark	—	—	—	—	—	—	—	—
Dominican Republic	—	—	—	126	—	290	—	—
Ecuador	—	—	—	—	—	212	—	—
Egypt	—	—	—	—	—	—	—	—
El Salvador	0	—	—	30	—	0	—	—
Finland	—	—	—	—	—	0	—	—
France	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—
Ghana	—	—	—	—	—	345	—	—
Gibraltar	—	—	—	—	—	336	—	—
Greece	—	—	—	—	—	—	—	—
Guatemala	30	—	—	286	—	100	—	—
Honduras	11	—	—	67	—	203	—	—
Hong Kong	0	—	—	—	—	—	—	—
India	—	—	—	0	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—
Ireland	—	—	—	—	—	—	—	—
Israel	—	—	—	333	—	—	—	—
Italy	—	—	—	—	—	—	—	—
Jamaica	0	—	—	70	—	649	—	—
Japan	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	0	—	—
Lebanon	—	—	—	—	—	391	—	—
Mexico	0	—	—	1,182	—	1,635	—	—
Montenegro	—	—	—	—	—	—	—	—
Morocco	—	—	—	—	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—
Netherlands	—	—	—	0	—	925	—	—
New Zealand	—	—	—	—	—	—	—	—
Nicaragua	0	—	—	0	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—
Pakistan	—	—	—	—	—	—	—	—
Panama	0	—	—	291	—	518	—	—
Peru	0	—	—	216	—	—	—	—
Philippines	—	—	—	0	—	—	—	—
Portugal	—	—	—	—	—	—	—	—
Puerto Rico	—	—	—	—	—	0	—	—
Romania	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	1	—	—
Serbia	—	—	—	—	—	—	—	—
Singapore	—	—	—	—	—	1,221	—	—
South Africa	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—
Switzerland	—	—	—	—	—	—	—	—
Taiwan	—	—	—	—	—	0	—	—
Thailand	—	—	—	—	—	0	—	—
Trinidad and Tobago	0	—	—	240	—	—	—	—
Turkey	—	—	—	—	—	—	—	—
United Arab Emirates	0	—	—	—	—	—	—	—
United Kingdom	0	—	—	—	—	—	—	—
Venezuela	—	—	—	0	—	—	—	—
Other	1	—	—	478	—	547	—	—
Total	44	—	—	5,737	—	8,313	—	—

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, May 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	3	—	—	8	—	1,384	1,384	—	45	45
Australia	0	110	—	4	—	117	1,029	29	4	33
Bahamas	0	—	1	3	—	1,158	1,158	—	37	37
Bahrain	—	—	—	0	—	0	0	—	0	0
Belgium	—	580	—	567	1	1,283	1,296	0	41	42
Belize	—	—	—	1	0	396	396	—	13	13
Brazil	1	1,314	—	210	1	11,866	14,401	82	383	465
Canada	96	837	164	271	7	15,636	29,738	455	504	959
Cayman Islands	—	—	1	1	—	70	70	—	2	2
Chile	1	—	93	73	0	5,263	8,111	92	170	262
China	2	1,076	1	18	0	1,365	9,030	247	44	291
Colombia	0	0	0	101	0	3,877	4,256	12	125	137
Costa Rica	0	—	3	24	—	1,390	1,390	—	45	45
Denmark	—	—	—	0	—	0	700	23	0	23
Dominican Republic	0	181	119	45	0	2,500	2,949	14	81	95
Ecuador	0	0	0	83	0	3,384	3,384	—	109	109
Egypt	—	—	—	12	—	544	544	—	18	18
El Salvador	—	—	—	8	—	1,195	1,195	—	39	39
Finland	0	—	—	1	—	1	1	—	0	0
France	0	300	—	316	—	2,635	4,054	46	85	131
Germany	0	0	0	3	0	11	745	24	0	24
Ghana	—	—	—	0	—	585	585	—	19	19
Gibraltar	—	—	—	—	—	3,305	3,305	—	107	107
Greece	—	252	—	1	—	253	253	—	8	8
Guatemala	0	173	0	28	—	3,354	3,354	—	108	108
Honduras	0	203	—	14	—	2,058	2,058	—	66	66
Hong Kong	0	—	0	1	0	1	1	—	0	0
India	2	1,801	0	55	0	6,476	14,351	254	209	463
Indonesia	0	—	3	1	0	1,073	1,073	—	35	35
Ireland	—	193	—	0	0	447	1,046	19	14	34
Israel	0	—	0	30	—	373	1,102	24	12	36
Italy	—	570	—	0	—	891	7,253	205	29	234
Jamaica	—	—	0	5	0	1,019	1,019	—	33	33
Japan	17	2,702	1	16	3	16,776	19,020	72	541	614
Korea, South	0	120	0	4	0	5,479	15,734	331	177	508
Lebanon	—	127	—	0	—	518	518	—	17	17
Mexico	20	1,126	213	1,119	42	30,820	30,820	—	994	994
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	—	—	0	—	1,934	1,934	—	62	62
Mozambique	—	94	—	—	—	94	94	—	3	3
Netherlands	3	67	2	55	0	6,921	9,670	89	223	312
New Zealand	0	99	—	1	—	100	100	—	3	3
Nicaragua	—	—	—	6	—	401	826	14	13	27
Nigeria	—	—	—	105	—	468	468	—	15	15
Norway	—	127	—	0	—	481	1,900	46	16	61
Pakistan	0	—	—	0	—	0	0	—	0	0
Panama	—	—	32	27	—	2,613	4,532	62	84	146
Peru	0	0	—	114	0	2,858	3,967	36	92	128
Philippines	0	0	—	2	—	771	771	—	25	25
Portugal	—	—	—	0	—	354	354	—	11	11
Puerto Rico	0	—	1	16	—	34	34	—	1	1
Romania	—	61	—	0	—	61	61	—	2	2
Saudi Arabia	0	3	—	4	—	51	51	—	2	2
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	0	193	1	1	—	1,552	4,126	83	50	133
South Africa	0	105	—	14	—	614	938	10	20	30
Spain	0	223	—	2	0	2,819	3,958	37	91	128
Switzerland	—	—	—	0	—	1	1	—	0	0
Taiwan	8	0	0	4	0	773	8,522	250	25	275
Thailand	—	0	1	4	0	7	812	26	0	26
Trinidad and Tobago	—	—	—	4	0	724	724	—	23	23
Turkey	—	—	—	10	—	564	564	—	18	18
United Arab Emirates	0	—	1	19	0	197	1,909	55	6	62
United Kingdom	0	0	0	3	—	4,760	11,477	217	154	370
Venezuela	—	7	—	5	—	21	21	—	1	1
Other	2	1,392	20	80	4	8,239	9,686	46	266	310
Total	155	14,036	657	3,499	58	164,915	254,823	2,900	5,320	8,220

— = 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-May 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	—	1,488	—	948	948	—	—	—
Australia	1,559	1,144	—	3	—	457	457	1	—	1
Bahamas	—	197	—	0	—	572	572	0	1	1
Bahrain	—	—	—	0	—	—	—	—	—	—
Belgium	139	783	—	371	—	—	—	—	0	0
Belize	—	—	—	—	—	194	194	—	116	116
Brazil	6,806	8,368	—	3,824	—	7,902	7,902	—	1,896	1,896
Canada	73,547	39,071	—	8,013	—	3,288	3,288	—	4,165	4,165
Cayman Islands	—	47	—	—	—	382	382	0	0	0
Chile	5,637	3,492	—	40	—	1,230	1,230	—	—	—
China	16,769	1,604	—	1,465	—	6	6	—	—	—
Colombia	3,019	148	—	6,448	—	3,259	3,259	0	319	319
Costa Rica	—	631	—	12	—	2,367	2,367	—	—	—
Denmark	3,015	0	—	—	—	—	—	0	0	0
Dominican Republic	1,947	7,638	—	1,252	—	1,856	1,856	0	61	62
Ecuador	—	5,322	—	26	—	3,729	3,729	—	798	798
Egypt	—	2,509	—	—	—	—	—	—	1	1
El Salvador	—	1,163	—	2	—	1,734	1,734	0	0	1
Finland	—	—	—	0	—	1	1	—	—	—
France	6,401	3,435	—	123	—	1	1	—	0	0
Germany	4,346	112	—	35	—	2	2	—	0	0
Ghana	—	240	—	0	—	0	0	—	—	—
Gibraltar	—	—	—	—	—	318	318	—	—	—
Greece	448	0	—	—	—	0	0	—	—	—
Guatemala	—	2,198	—	15	—	5,196	5,196	0	930	930
Honduras	—	1,918	—	3	—	3,080	3,080	—	542	542
Hong Kong	—	0	—	0	—	—	—	—	—	—
India	43,647	17,360	—	19	—	0	0	1	—	1
Indonesia	630	11,038	—	18	—	—	—	—	—	—
Ireland	5,532	—	—	0	—	—	—	—	—	—
Israel	729	1	—	7	—	9	9	—	—	—
Italy	17,853	234	—	0	—	320	320	—	—	—
Jamaica	—	182	—	0	—	1,034	1,034	—	2	2
Japan	10,818	53,852	—	2,181	—	317	317	4	0	5
Korea, South	52,670	15,531	—	907	—	152	152	1	0	1
Lebanon	—	—	—	—	—	—	—	—	—	—
Mexico	—	21,616	—	1,558	—	70,715	70,715	54	6,714	6,767
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	5,387	—	0	—	—	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—	—	—
Netherlands	39,424	7,313	—	3,070	—	946	946	—	—	—
New Zealand	—	2	—	0	—	0	0	—	—	—
Nicaragua	1,620	—	—	—	—	726	726	—	—	—
Nigeria	—	394	—	0	—	320	320	—	—	—
Norway	5,244	3,708	—	122	—	1	1	—	—	—
Pakistan	—	—	—	—	—	—	—	—	—	—
Panama	8,412	1	—	3	—	3,390	3,390	—	61	61
Peru	2,308	475	—	9	—	3,193	3,193	—	147	147
Philippines	—	1,037	—	1	—	—	—	—	—	—
Portugal	—	1,609	—	—	—	—	—	—	—	—
Puerto Rico	—	60	—	5	—	11	11	—	0	0
Romania	—	0	—	—	—	—	—	—	—	—
Saudi Arabia	—	4	—	3	—	—	—	—	0	0
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	11,576	1,966	—	341	—	320	320	—	50	50
South Africa	649	121	—	0	—	499	499	0	—	0
Spain	4,007	6,421	—	0	—	480	480	—	0	0
Switzerland	—	289	—	0	—	—	—	—	—	—
Taiwan	28,128	4,490	—	816	—	1	1	—	0	0
Thailand	17,429	0	—	3	—	—	—	—	—	—
Trinidad and Tobago	—	1	—	0	—	258	258	—	240	240
Turkey	—	2,435	—	0	—	—	—	1	—	1
United Arab Emirates	7,150	1	—	1	—	2	2	0	—	0
United Kingdom	33,487	9,019	—	1	—	6	6	—	0	0
Venezuela	—	270	—	2,039	—	1,479	1,479	4	2	6
Other	6,971	8,782	—	967	—	2,410	2,410	2	5	5
Total	421,930	253,620	—	35,191	—	123,111	123,111	68	16,050	16,118

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-May 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	—	—	3,655	310	139	—	4,105
Australia	0	0	0	—	—	—	1	—	—	—	1
Bahamas	—	1	1	—	—	—	1,717	—	1,422	—	3,139
Bahrain	—	—	0	—	—	—	—	—	—	—	—
Belgium	29	0	0	—	—	—	—	—	—	—	—
Belize	—	—	—	—	—	—	140	217	41	—	398
Brazil	—	0	4,568	0	—	—	21,978	1,104	2,439	—	25,522
Canada	—	2	2,713	986	—	—	616	2,081	521	—	3,219
Cayman Islands	—	—	—	—	—	—	400	—	—	—	400
Chile	1,056	—	5	—	—	—	13,973	—	250	—	14,223
China	0	2	1	—	—	—	6	299	—	—	305
Colombia	—	—	732	—	—	—	6,285	—	—	—	6,285
Costa Rica	—	0	1	—	—	—	3,324	—	—	—	3,324
Denmark	—	—	—	—	—	—	—	—	—	—	—
Dominican Republic	—	—	1	—	—	—	1,236	1,300	1,062	—	3,598
Ecuador	—	0	0	—	—	—	3,167	1,912	—	—	5,079
Egypt	—	—	0	—	—	—	0	—	—	—	0
El Salvador	—	—	—	—	—	—	1,523	1,473	—	—	2,996
Finland	—	—	0	—	—	—	—	—	—	—	—
France	—	1	31	—	—	—	6,680	902	—	—	7,582
Germany	0	0	0	5	—	—	1	—	—	—	1
Ghana	—	—	—	—	—	—	2	—	—	—	2
Gibraltar	—	—	—	—	—	—	2,099	275	3,132	—	5,505
Greece	—	—	—	—	—	—	—	—	—	—	—
Guatemala	—	—	0	—	—	—	2,732	3,217	466	—	6,415
Honduras	—	0	—	—	—	—	1,166	1,017	938	—	3,121
Hong Kong	—	0	0	0	—	—	—	—	—	—	—
India	0	0	2,238	1	—	—	28	—	—	—	28
Indonesia	—	—	0	—	—	—	—	—	—	—	—
Ireland	—	0	0	—	—	—	254	—	—	—	254
Israel	—	0	1	—	—	—	0	—	—	—	0
Italy	—	—	0	—	—	—	66	—	—	—	66
Jamaica	—	0	228	—	—	—	570	71	416	—	1,056
Japan	—	3,805	88	—	—	—	3	24	—	—	27
Korea, South	155	1	1,007	—	—	—	715	—	—	—	715
Lebanon	—	—	0	—	—	—	0	—	—	—	0
Mexico	3,618	3	331	7	—	—	42,494	588	397	—	43,479
Montenegro	—	—	—	—	—	—	—	—	—	—	—
Morocco	—	—	—	5	—	—	1,996	77	—	—	2,073
Mozambique	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	2	338	152	—	—	5,198	616	2,218	—	8,032
New Zealand	—	—	—	—	—	—	0	—	—	—	0
Nicaragua	—	—	—	—	—	—	168	848	210	—	1,226
Nigeria	—	—	174	—	—	—	—	—	—	—	—
Norway	0	—	50	—	—	—	336	—	—	—	336
Pakistan	—	—	—	—	—	—	—	—	—	—	—
Panama	—	—	0	—	—	—	4,758	597	1,748	—	7,102
Peru	—	0	506	30	—	—	9,621	—	—	—	9,621
Philippines	—	0	850	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Puerto Rico	—	1	5	—	—	—	2	71	—	—	73
Romania	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	1	154	—	—	—	—	—	—	—	—
Serbia	—	—	—	—	—	—	—	—	—	—	—
Singapore	0	2	26	1	—	—	138	50	1,892	—	2,080
South Africa	—	—	0	—	—	—	0	—	—	—	0
Spain	—	—	133	—	—	—	2,066	248	—	—	2,314
Switzerland	—	—	229	6	—	—	0	—	4	—	4
Taiwan	0	0	2	—	—	—	0	9	—	—	9
Thailand	—	0	0	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	0	—	—	—	789	788	240	—	1,817
Turkey	—	—	—	—	—	—	1	—	—	—	1
United Arab Emirates	—	—	252	—	—	—	0	—	—	—	0
United Kingdom	—	0	87	—	—	—	6,130	—	—	—	6,130
Venezuela	259	—	—	—	—	—	275	—	—	—	275
Other	—	—	299	—	—	—	4,698	2,069	2,487	—	9,254
Total	5,117	3,821	15,051	1,193	—	—	151,007	20,163	20,022	—	191,192

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-May 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	—	—	—	341	—	2,290	—	—
Bahrain	—	—	—	0	—	—	—	—
Belgium	—	—	—	—	—	—	—	—
Belize	—	—	—	62	—	—	—	—
Brazil	0	—	—	502	—	320	—	—
Canada	183	—	—	6,475	—	4,544	—	—
Cayman Islands	1	—	—	149	—	0	—	—
Chile	3	—	—	1,869	—	1	—	—
China	0	—	—	0	—	2	—	—
Colombia	0	—	—	177	—	1	—	—
Costa Rica	10	—	—	932	—	0	—	—
Denmark	—	—	—	—	—	—	—	—
Dominican Republic	1	—	—	1,502	—	537	—	—
Ecuador	0	—	—	8	—	1,708	—	—
Egypt	—	—	—	—	—	—	—	—
El Salvador	0	—	—	148	—	0	—	—
Finland	—	—	—	—	—	0	—	—
France	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	0	—	—
Ghana	—	—	—	—	—	345	—	—
Gibraltar	—	—	—	—	—	1,279	—	—
Greece	—	—	—	—	—	—	—	—
Guatemala	30	—	—	965	—	332	—	—
Honduras	11	—	—	316	—	1,298	—	—
Hong Kong	0	—	—	—	—	—	—	—
India	—	—	—	0	—	66	—	—
Indonesia	—	—	—	—	—	—	—	—
Ireland	—	—	—	—	—	—	—	—
Israel	1	—	—	667	—	—	—	—
Italy	—	—	—	—	—	—	—	—
Jamaica	0	—	—	711	—	3,062	—	—
Japan	0	—	—	0	—	64	—	—
Korea, South	—	—	—	0	—	0	—	—
Lebanon	—	—	—	0	—	2,288	—	—
Mexico	145	—	—	7,811	—	8,837	—	—
Montenegro	—	—	—	—	—	—	—	—
Morocco	—	—	—	—	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—
Netherlands	—	—	—	0	—	5,185	—	—
New Zealand	0	—	—	—	—	—	—	—
Nicaragua	0	—	—	32	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—
Pakistan	0	—	—	—	—	—	—	—
Panama	1	—	—	2,561	—	3,985	—	—
Peru	1	—	—	1,052	—	0	—	—
Philippines	—	—	—	0	—	—	—	—
Portugal	—	—	—	—	—	—	—	—
Puerto Rico	0	—	—	1	—	1	—	—
Romania	—	—	—	—	—	—	—	—
Saudi Arabia	0	—	—	3	—	1	—	—
Serbia	—	—	—	—	—	—	—	—
Singapore	0	—	—	—	—	3,063	—	—
South Africa	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—
Switzerland	—	—	—	—	—	—	—	—
Taiwan	0	—	—	0	—	1	—	—
Thailand	—	—	—	—	—	0	—	—
Trinidad and Tobago	0	—	—	999	—	—	—	—
Turkey	1	—	—	0	—	—	—	—
United Arab Emirates	1	—	—	—	—	0	—	—
United Kingdom	0	—	—	325	—	370	—	—
Venezuela	—	—	—	17	—	0	—	—
Other	9	—	—	2,659	—	1,593	—	—
Total	398	—	—	30,566	—	41,174	—	—

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-May 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	4	83	2	188	0	7,101	7,114	0	47	47
Australia	2	847	1	86	2	2,545	4,104	10	17	27
Bahamas	0	—	11	15	0	6,568	6,568	—	43	43
Bahrain	0	—	—	1	—	1	1	—	0	0
Belgium	0	2,015	0	2,262	5	5,465	5,605	1	36	37
Belize	—	—	—	5	0	777	777	—	5	5
Brazil	4	6,680	—	2,114	3	61,705	68,511	45	409	454
Canada	425	2,853	632	1,278	39	77,886	151,434	487	516	1,003
Cayman Islands	—	—	3	6	—	988	988	—	7	7
Chile	2	1	265	409	0	22,597	28,233	37	150	187
China	11	5,012	5	100	3	8,514	25,283	111	56	167
Colombia	1	238	2	507	2	18,118	21,137	20	120	140
Costa Rica	0	181	158	75	0	7,691	7,691	—	51	51
Denmark	—	345	—	0	—	345	3,360	20	2	22
Dominican Republic	1	908	510	117	0	17,983	19,929	13	119	132
Ecuador	0	914	0	434	0	18,020	18,020	—	119	119
Egypt	—	851	100	89	—	3,552	3,552	—	24	24
El Salvador	0	180	0	109	—	6,333	6,333	—	42	42
Finland	0	293	0	4	—	298	298	—	2	2
France	1	933	—	411	—	12,518	18,919	42	83	125
Germany	6	275	3	17	0	455	4,801	29	3	32
Ghana	—	—	0	1	—	588	588	—	4	4
Gibraltar	—	—	—	—	—	7,103	7,103	—	47	47
Greece	—	678	—	1	—	680	1,128	3	5	7
Guatemala	0	1,918	0	106	—	18,107	18,107	—	120	120
Honduras	0	725	128	74	—	11,217	11,217	—	74	74
Hong Kong	1	—	0	10	0	12	12	—	0	0
India	6	16,582	5	528	1	36,834	80,481	289	244	533
Indonesia	0	0	7	109	0	11,173	11,803	4	74	78
Ireland	—	423	—	0	0	678	6,210	37	4	41
Israel	0	625	0	94	0	1,406	2,136	5	9	14
Italy	1	2,729	0	29	—	3,380	21,233	118	22	141
Jamaica	0	—	0	35	0	6,312	6,312	—	42	42
Japan	32	9,875	4	49	17	70,317	81,135	72	466	537
Korea, South	1	771	3	16	1	19,260	71,930	349	128	476
Lebanon	—	517	—	2	—	2,808	2,808	—	19	19
Mexico	88	7,419	1,635	5,507	149	179,685	179,685	—	1,190	1,190
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	1,873	1	0	—	9,340	9,340	—	62	62
Mozambique	—	386	—	—	—	386	386	—	3	3
Netherlands	11	1,462	9	388	1	26,910	66,334	261	178	439
New Zealand	0	220	—	4	—	226	226	—	1	1
Nicaragua	—	—	—	23	—	2,008	3,628	11	13	24
Nigeria	—	—	33	496	—	1,418	1,418	—	9	9
Norway	—	512	—	2	—	4,731	9,975	35	31	66
Pakistan	1	0	—	1	0	1	1	—	0	0
Panama	0	271	142	106	0	17,623	26,035	56	117	172
Peru	0	368	0	354	0	15,756	18,064	15	104	120
Philippines	0	0	0	9	1	1,899	1,899	—	13	13
Portugal	0	212	—	0	—	1,821	1,821	—	12	12
Puerto Rico	0	0	25	66	—	248	248	—	2	2
Romania	0	991	—	1	0	992	992	—	7	7
Saudi Arabia	0	101	0	25	0	293	293	—	2	2
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	1	193	149	72	0	8,263	19,838	77	55	131
South Africa	0	374	0	245	—	1,241	1,890	4	8	13
Spain	2	1,573	0	10	0	10,932	14,939	27	72	99
Switzerland	0	—	—	0	—	529	529	—	4	4
Taiwan	9	0	1	26	1	5,355	33,483	186	35	222
Thailand	0	122	2	20	1	148	17,576	115	1	116
Trinidad and Tobago	0	0	0	35	0	3,352	3,352	—	22	22
Turkey	0	4,764	—	64	—	7,267	7,267	—	48	48
United Arab Emirates	0	772	3	298	0	1,329	8,479	47	9	56
United Kingdom	1	636	1	9	0	16,586	50,073	222	110	332
Venezuela	—	25	—	24	—	4,395	4,395	—	29	29
Other	8	4,812	110	336	7	31,227	38,200	46	206	254
Total	619	84,538	3,950	17,402	233	823,296	1,245,227	2,794	5,452	8,247

— = 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, May 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	1,499	-32	-	118	-	-27	-27	-	10	10
Algeria	53	-	-	88	-	-	-	-	-	-
Angola	46	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	29	-	-	-	-	-	-	-	-	-
Ecuador	178	-31	-	-	-	-17	-17	-	-	-
Equatorial Guinea	21	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	366	-	-	-	-	-	-	-	-	-
Kuwait	57	-	-	-	-	-	-	-	-	-
Libya	98	-	-	13	-	-	-	-	-	-
Nigeria	243	-1	-	0	-	-10	-10	-	-	-
Saudi Arabia	452	-	-	0	-	-	-	-	10	10
United Arab Emirates	-55	-	-	16	-	-	-	-	-	-
Venezuela	11	0	-	-	-	0	0	-	0	0
Non-OPEC	2,759	-1,599	28	371	-	-597	-597	183	769	952
Argentina	34	2	-	-10	-	-2	-2	-	-	-
Aruba	-	0	-	-	-	0	0	-	-	-
Australia	-29	0	-	6	-	0	0	0	-	0
Bahamas	-	-1	-	-	-	-9	-9	0	0	0
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	0	-3	-	54	-	3	3	15	67	82
Brazil	131	-79	-	-24	-	-50	-50	-	27	27
Brunei	19	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	3,330	-81	23	-2	-	-5	-5	81	71	152
Chad	-	-	-	-	-	-	-	-	-	-
China	-247	-9	-	0	-	0	0	-	-	-
Colombia	399	0	-	-53	-	-31	-31	-	6	6
Denmark	20	-	-	-	-	-	-	0	11	11
Dominican Republic	-14	-29	-	0	-	-11	-11	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	7	7	-	66	66
France	-46	-28	-	2	-	27	27	-	9	9
Germany	-24	0	-	0	-	0	0	-	21	21
Guatemala	9	-14	-	0	-	-32	-32	-	-6	-6
Honduras	-	-19	-	-	-	-14	-14	-	0	0
India	-254	-138	-	10	-	-	-	-	125	125
Indonesia	-	-34	-	-	-	-	-	-	2	2
Italy	-205	0	-	12	-	-10	-10	-	21	21
Japan	-72	-410	-	10	-	0	0	0	7	7
Korea, South	-331	-160	-	-1	-	2	2	0	10	10
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	10	10
Malaysia	-	0	-	-	-	-	-	-	-	-
Mexico	608	-129	-	-3	-	-390	-390	0	-13	-14
Netherlands	-73	-62	-	-19	-	10	10	28	123	150
Norway	38	-9	-	21	-	2	2	-	28	28
Oman	-	-	-	0	-	-	-	-	-	-
Panama	-62	0	-	0	-	-17	-17	-	0	0
Portugal	-	-11	-	-	-	-	-	18	19	37
Puerto Rico	-	0	-	0	-	0	0	-	0	0
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	190	-	-	290	-	2	2	-	47	47
Spain	-30	-48	-	7	-	-	-	-	31	31
Sweden	-	-11	-	-	-	-	-	-	4	4
Trinidad and Tobago	33	0	-	0	-	0	0	-	-	-
United Kingdom	-78	-81	-	10	-	24	24	41	51	92
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-21	-	-	-	0	0	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	-587	-224	5	61	-	-103	-103	0	32	34
Total	4,258	-1,631	28	489	-	-625	-625	183	779	962
Persian Gulf²	819	-	-	16	-	-	-	-	10	10

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, May 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	-	-	-7	-	-	-	-34	-26	0	-	-60
Algeria	-	-	-	-	-	-	-	-8	-	-	-8
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-34	-18	-	-	-52
Equatorial Guinea	-	-	-	-	-	-	-	-	0	-	0
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-1	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-6	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-38	-27	-70	-4	21	-	-916	-108	-109	1	-1,132
Argentina	1	-	0	-	-	-	-22	-10	-	-	-32
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	0	-	-	-	0	-	-	-	0
Bahamas	-	-	0	-	-	-	-5	-	-12	-	-17
Bahrain	-	-	0	-	-	-	-	-	-	-	-
Belgium	0	0	0	-	-	-	-	-	-	-	-
Brazil	-	5	-8	-	-	-	-147	-	-10	-	-157
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	0	-18	-8	-	-	100	-20	-3	1	78
Chad	-	-	-	-	-	-	-	-	-	-	-
China	0	0	0	-	-	-	0	-	-	-	0
Colombia	-	-	-7	-	-	-	-16	-	-	-	-16
Denmark	-	-	-	-	-	-	-	-	-	-	-
Dominican Republic	-	-	0	-	-	-	-6	-	-8	-	-14
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	0	-	-	-	-	-26	-10	-	-	-36
Germany	-	0	0	3	-	-	0	-	3	-	3
Guatemala	-	-	0	-	-	-	-16	-16	-4	-	-37
Honduras	-	-	-	-	-	-	-2	-5	-10	-	-17
India	-	-	-11	-	-	-	0	-	-	-	0
Indonesia	-	-	0	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-31	-1	-	-	-	0	-	-	-	0
Korea, South	-5	0	-7	1	-	-	14	-	-	-	14
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	0	0	-	-	-	0	-	-	-	0
Mexico	-27	0	-1	0	-	-	-241	-3	3	-	-241
Netherlands	-	0	-2	0	-	-	-58	-20	-9	-	-87
Norway	-	-	-	-	-	-	-3	-	-	-	-3
Oman	-	-	-	-	-	-	-	-	-	-	-
Panama	-	-	0	-	-	-	-34	-1	-3	-	-39
Portugal	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	-	0	0	-	-	-	0	0	-	-	0
Qatar	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	0	-	-	-	0
Spain	-	-	-	-	-	-	-36	-	-	-	-36
Sweden	-	-	0	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	0	-	-	-	-15	-	-	-	-15
United Kingdom	-	0	-3	-	-	-	-70	-	-	-	-70
Vietnam	-	0	-1	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-5	-	-5	-	-10
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-7	-1	-11	0	21	-	-328	-23	-51	0	-400
Total	-38	-27	-77	-4	21	-	-950	-134	-109	1	-1,192
Persian Gulf²	-	-	-7	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, May 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	-	-2	-	-
Algeria	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-2	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	0	-	-
Kuwait	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	0	-	-
United Arab Emirates	0	-	-	-	-	-	-	-
Venezuela	-	-	-	0	-	-	-	-
Non-OPEC	-1	1	-	3	15	-98	12	3
Argentina	-	-	-	-	-	30	-	-
Aruba	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-2	-	-8	-	-
Bahrain	-	-	-	0	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-
Canada	0	0	-	-31	4	25	2	2
Chad	-	-	-	-	-	-	-	-
China	0	-	-	-	-	0	-	-
Colombia	-	-	-	-	-	26	-	-
Denmark	-	-	-	-	-	-	-	-
Dominican Republic	-	-	-	-4	-	-9	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	0	-	-
France	-	-	-	-	-	-	-	1
Germany	-	-	-	-	-	-	-	-
Guatemala	-1	-	-	-9	-	-3	-	-
Honduras	0	-	-	-2	-	-7	-	-
India	-	-	-	0	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Japan	-	-	-	38	6	-	3	-
Korea, South	-	0	-	109	5	0	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-
Mexico	0	-	-	-38	-	-28	6	-
Netherlands	-	-	-	0	-	-30	-	-
Norway	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-
Panama	0	-	-	-9	-	-17	-	-
Portugal	-	-	-	-	-	-	-	-
Puerto Rico	-	-	-	-	-	0	-	-
Qatar	0	-	-	-	-	-	-	-
Russia	-	-	-	-	-	33	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	0	-	0	-	-
Trinidad and Tobago	0	-	-	-8	-	-	-	-
United Kingdom	0	-	-	-	-	-	0	-
Vietnam	-	-	-	0	-	-	-	-
Virgin Islands, U.S.	-	-	-	-2	-	-11	-	-
Yemen	-	-	-	-	-	-	-	-
Other	0	1	-	-39	0	-99	1	0
Total	-1	1	-	3	15	-100	12	3
Persian Gulf²	0	-	-	0	-	0	-	-

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, May 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	0	0	-1	0	-3	1,496
Algeria	-	-	-	0	-	80	133
Angola	-	-	-	0	-	0	46
Congo (Brazzaville)	-	-	-	-	-	-	29
Ecuador	0	0	0	-3	0	-104	74
Equatorial Guinea	-	-	-	0	-	0	21
Gabon	-	-	0	0	-	0	0
Iran	-	-	-	-	-	-	-
Iraq	-	-	-	0	-	0	366
Kuwait	-	-	0	0	-	0	57
Libya	-	-	-	0	-	13	111
Nigeria	-	-	-	-3	-	-15	227
Saudi Arabia	0	0	-	0	-	9	461
United Arab Emirates	0	-	0	5	0	15	-40
Venezuela	-	0	-	0	-	-1	10
Non-OPEC	0	-444	14	-81	-2	-2,673	87
Argentina	0	7	-	0	-	-4	29
Aruba	-	-	-	0	-	0	0
Australia	0	-4	-	0	-	3	-27
Bahamas	0	-	0	0	-	-37	-37
Bahrain	-	-	-	3	-	3	3
Belgium	-	-19	-	-18	0	98	98
Brazil	0	-42	-	-7	0	-335	-203
Brunei	-	-	-	0	-	0	19
Cameroon	-	-	-	0	-	0	0
Canada	-2	-25	21	-2	0	135	3,465
Chad	-	-	-	-	-	-	-
China	1	-35	0	-1	0	-43	-290
Colombia	0	0	0	-3	0	-78	321
Denmark	-	-	-	0	-	11	31
Dominican Republic	0	-6	-4	-1	0	-79	-94
Estonia	-	-	-	-	-	-	-
Finland	0	-	-	0	-	73	73
France	0	-10	-	-10	-	-44	-89
Germany	0	0	0	1	0	28	4
Guatemala	0	-6	0	-1	-	-108	-99
Honduras	0	-7	-	0	-	-66	-66
India	0	-58	0	-2	0	-73	-327
Indonesia	0	-	0	2	0	-31	-31
Italy	-	-18	-	0	-	4	-201
Japan	-1	-87	0	-1	0	-467	-539
Korea, South	0	-4	0	8	0	-27	-358
Latvia	-	-	-	0	-	0	0
Lithuania	-	-	-	-	-	10	10
Malaysia	1	-	-	0	0	1	1
Mexico	-1	-36	-7	-36	-1	-946	-338
Netherlands	0	-2	0	-2	0	-44	-117
Norway	-	-4	-	0	-	35	73
Oman	-	-	0	0	-	0	0
Panama	-	-	-1	-1	-	-84	-146
Portugal	-	-	-	0	-	26	26
Puerto Rico	0	-	0	-1	-	-1	-1
Qatar	-	-	-	2	-	2	2
Russia	0	-	-	0	-	372	562
Spain	0	-7	4	0	0	-49	-80
Sweden	-	-6	-	0	-	-13	-13
Trinidad and Tobago	-	-	-	0	0	-23	10
United Kingdom	0	0	0	0	-	-27	-104
Vietnam	-	-	-	0	0	-1	-1
Virgin Islands, U.S.	-	-	-	0	0	-43	-43
Yemen	-	-	-	0	-	0	0
Other	2	-75	1	-11	-1	-851	-1,436
Total	0	-444	14	-83	-2	-2,675	1,583
Persian Gulf²	0	0	0	10	0	29	848

- = 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-May 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	1,621	-40	-	97	-	-36	-36	0	24	24
Algeria	36	-	-	76	-	-	-	-	-	-
Angola	20	-	-	2	-	-	-	-	-	-
Congo (Brazzaville)	31	-	-	-	-	-	-	-	-	-
Ecuador	165	-35	-	0	-	-25	-25	-	-5	-5
Equatorial Guinea	11	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	351	-	-	0	-	-	-	-	-	-
Kuwait	74	-	-	-	-	0	0	-	-	-
Libya	58	-	-	6	-	-	-	-	-	-
Nigeria	139	-3	-	2	-	-2	-2	-	6	6
Saudi Arabia	590	0	-	7	-	1	1	-	15	15
United Arab Emirates	-47	0	-	16	-	0	0	0	-	0
Venezuela	195	-2	-	-13	-	-10	-10	0	9	9
Non-OPEC	2,615	-1,428	21	234	-	-702	-702	165	419	584
Argentina	36	1	-	-10	-	-6	-6	-	3	3
Aruba	-	0	-	0	-	-1	-1	-	-	-
Australia	-10	-8	-	3	-	-3	-3	0	-	0
Bahamas	-	-1	-	0	-	-4	-4	0	0	0
Bahrain	-	-	-	0	-	-	-	-	-	-
Belgium	-1	-5	-	51	-	2	2	3	19	22
Brazil	56	-55	-	-18	-	-52	-52	-	35	35
Brunei	13	-	-	-2	-	-	-	-	-	-
Cameroon	4	-	-	3	-	-	-	-	-	-
Canada	3,313	-54	18	-29	-	-5	-5	85	41	127
Chad	6	-	-	-	-	-	-	-	-	-
China	-111	-11	-	-10	-	0	0	-	1	1
Colombia	358	-1	-	-40	-	-22	-22	0	9	9
Denmark	-1	0	-	-	-	-	-	0	3	3
Dominican Republic	-13	-50	-	-8	-	-12	-12	0	0	0
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	0	-	1	1	-	25	25
France	-42	-23	-	2	-	21	21	-	8	8
Germany	-29	-1	-	7	-	0	0	0	5	5
Guatemala	5	-15	-	0	-	-34	-34	0	-6	-6
Honduras	-	-13	-	0	-	-20	-20	-	-4	-4
India	-289	-115	-	6	-	0	0	0	73	73
Indonesia	-4	-73	-	0	-	-	-	-	4	4
Italy	-118	-2	-	8	-	-1	-1	-	20	20
Japan	-72	-357	-	-9	-	2	2	0	10	10
Korea, South	-349	-103	-	-6	-	5	5	0	7	7
Latvia	-	-	-	0	-	0	0	-	0	0
Lithuania	-4	-	-	-	-	-	-	-	2	2
Malaysia	-	0	-	2	-	0	0	-	-	-
Mexico	625	-143	0	-10	-	-468	-468	0	-37	-38
Netherlands	-258	-48	-	-6	-	2	2	36	45	81
Norway	18	-23	-	23	-	1	1	0	16	16
Oman	-	-	-	-2	-	-	-	-	-	-
Panama	-56	0	-	0	-	-22	-22	-	0	0
Portugal	-	-11	-	-	-	-	-	4	30	34
Puerto Rico	-	0	-	0	-	0	0	-	0	0
Qatar	-	-	-	0	-	0	0	-	-	-
Russia	132	-	-	216	-	2	2	-	31	31
Spain	-25	-43	-	12	-	-3	-3	-	32	32
Sweden	-	-11	-	8	-	1	1	-	3	3
Trinidad and Tobago	39	0	-	0	-	-2	-2	-	-2	-2
United Kingdom	-155	-58	-	6	-	12	12	37	23	60
Vietnam	-10	-	-	0	-	0	0	-	-	-
Virgin Islands, U.S.	-	-12	-	-	-	-2	-2	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	-443	-193	3	37	-	-94	-94	0	23	23
Total	4,236	-1,468	21	330	-	-738	-738	165	443	608
Persian Gulf²	967	0	-	23	-	1	1	0	15	15

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-May 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	-4	-	-	-	-10	-16	0	-	-25
Algeria	-	-	-	-	-	-	-	-3	-	-	-3
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	0	0	-	-	-	-21	-13	-	-	-34
Equatorial Guinea	-	-	-	-	-	-	-	-	0	-	0
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	0	-	-	-	0
Nigeria	-	-	-1	-	-	-	2	-	-	-	2
Saudi Arabia	-	0	-1	-	-	-	8	-	-	-	8
United Arab Emirates	-	-	-2	-	-	-	1	-	-	-	1
Venezuela	-2	-	-	-	-	-	0	-	-	-	0
Non-OPEC	-31	-23	-92	4	16	-	-779	-114	-127	1	-1,020
Argentina	1	-	0	0	-	-	-24	-2	-1	-	-27
Aruba	-	-	0	-	-	-	-1	-	-	-	-1
Australia	0	0	0	-	-	-	0	-	-	-	0
Bahamas	-	0	0	-	-	-	-8	-	-9	-	-17
Bahrain	-	-	0	-	-	-	-	-	-	-	-
Belgium	0	0	0	1	-	-	-	-	-	-	-
Brazil	-	2	-27	0	-	-	-146	-7	-16	-	-169
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	0	-	-	-	0
Canada	-	0	-18	-2	-	-	106	-12	0	1	95
Chad	-	-	-	-	-	-	-	-	-	-	-
China	0	0	0	-	-	-	2	-2	-	-	0
Colombia	-	-	-5	-	-	-	-21	-	-	-	-21
Denmark	-	-	-	-	-	-	-	-	-	-	-
Dominican Republic	-	-	0	-	-	-	-8	-9	-7	-	-24
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	0	-	-	-	-	-	-	-	-
France	-	0	0	1	-	-	-44	-6	-	-	-50
Germany	0	0	0	4	-	-	0	-	1	-	1
Guatemala	-	-	0	-	-	-	-18	-21	-3	-	-42
Honduras	-	0	-	-	-	-	-8	-7	-6	-	-21
India	0	0	-15	0	-	-	43	-	-	-	43
Indonesia	-	-	0	-	-	-	-	-	-	-	-
Italy	-	-	0	-	-	-	0	-	-	-	0
Japan	-	-25	-1	-	-	-	0	0	-	-	0
Korea, South	-1	0	-7	1	-	-	-1	-	-	-	-1
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	0	0	-	-	-	0	-	0	-	0
Mexico	-24	0	-2	0	-	-	-281	-4	-2	-	-287
Netherlands	-	0	-2	-1	-	-	-34	-4	-14	-	-53
Norway	0	-	0	-	-	-	-2	-	-	-	-2
Oman	-	-	-1	-	-	-	0	-	-	-	0
Panama	-	-	0	-	-	-	-32	-4	-12	-	-47
Portugal	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	-	0	0	-	-	-	0	0	-	-	0
Qatar	-	-	-	-	-	-	14	-	-	-	14
Russia	-	0	0	-	-	-	2	2	-	-	4
Spain	-	-	-1	1	-	-	-14	-2	-	-	-15
Sweden	-	-	0	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	0	-	-	-	-5	-5	-2	-	-12
United Kingdom	-	0	-1	-	-	-	-41	-	-	-	-41
Vietnam	-	0	0	-	-	-	0	-	-	-	0
Virgin Islands, U.S.	-	-	-	-	-	-	-4	-	-7	-	-11
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-7	0	-12	-1	16	-	-254	-31	-49	0	-336
Total	-33	-23	-96	4	16	-	-789	-130	-127	1	-1,046
Persian Gulf²	-	0	-3	-	-	-	23	-	-	-	23

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-May 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	-	-	5	-	10	-	-
Algeria	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-
Ecuador	0	-	-	0	-	-10	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-
Iraq	0	-	-	0	-	0	-	-
Kuwait	-	-	-	1	-	-	-	-
Libya	-	-	-	0	-	0	-	-
Nigeria	-	-	-	0	-	-	-	-
Saudi Arabia	0	-	-	4	-	4	-	-
United Arab Emirates	0	-	-	-	-	0	-	-
Venezuela	-	-	-	1	-	16	-	-
Non-OPEC	-2	1	-	-54	12	-126	13	4
Argentina	-	-	-	-2	-	14	-	-
Aruba	0	-	-	-1	-	-	-	-
Australia	-	-	-	-	-	0	-	-
Bahamas	-	-	-	-2	-	-11	-	-
Bahrain	-	-	-	0	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Brazil	0	-	-	-3	1	-2	-	0
Brunei	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-
Canada	-1	0	-	-23	3	4	3	3
Chad	-	-	-	-	-	-	-	-
China	0	-	-	2	-	0	-	-
Colombia	1	-	-	-1	-	15	-	-
Denmark	-	-	-	-	-	-	-	-
Dominican Republic	0	-	-	-10	-	-4	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	0	-	-
France	-	-	-	-	-	-	-	1
Germany	-	-	-	-	-	0	-	-
Guatemala	0	-	-	-6	-	-2	-	-
Honduras	0	-	-	-2	-	-9	-	-
India	-	-	-	2	1	0	-	-
Indonesia	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	0	-
Japan	0	-	-	14	3	0	2	0
Korea, South	-	0	-	91	3	0	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	0	-	-	-	-	-	-	-
Malaysia	0	-	-	-	-	-	-	-
Mexico	-1	-	-	-52	1	-32	6	-
Netherlands	-	1	-	0	-	-29	-	-
Norway	-	-	-	-	-	2	-	-
Oman	-	-	-	-	-	-	-	-
Panama	0	-	-	-13	-	-26	-	-
Portugal	-	-	-	-	-	-	-	-
Puerto Rico	0	-	-	0	-	0	-	-
Qatar	0	-	-	3	-	-	-	-
Russia	-	-	-	0	-	22	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	0	-	2	-	-
Trinidad and Tobago	0	-	-	-7	-	-	-	-
United Kingdom	0	-	-	-2	-	-2	1	-
Vietnam	-	-	-	0	-	0	-	-
Virgin Islands, U.S.	-	-	-	-8	-	-6	-	-
Yemen	-	-	-	-	-	-	-	-
Other	-1	0	-	-34	0	-62	1	0
Total	-2	1	-	-49	12	-115	13	4
Persian Gulf²	0	-	-	8	-	5	-	-

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-May 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	-12	0	-5	0	12	1,633
Algeria	-	-	0	0	-	73	108
Angola	-	-	0	0	-	2	22
Congo (Brazzaville)	-	-	-	-	-	-	32
Ecuador	0	-6	0	-3	0	-118	47
Equatorial Guinea	-	-	-	0	-	0	11
Gabon	-	-	0	0	-	0	0
Iran	-	-	-	-	-	-	-
Iraq	-	-	0	0	-	0	351
Kuwait	-	0	0	0	-	1	74
Libya	-	-	-	0	-	6	64
Nigeria	-	-	0	-3	-	1	140
Saudi Arabia	0	-1	0	0	0	37	627
United Arab Emirates	0	-5	0	1	0	12	-35
Venezuela	-	0	0	0	-	-1	193
Non-OPEC	1	-541	10	-68	-2	-3,190	-575
Argentina	0	3	0	-1	0	-25	11
Aruba	-	-	0	0	-	-3	-3
Australia	0	-6	0	-1	0	-14	-25
Bahamas	0	-	0	0	0	-36	-36
Bahrain	0	-	-	3	-	3	3
Belgium	0	-13	0	-15	0	42	41
Brazil	0	-44	-	-14	0	-346	-290
Brunei	-	-	-	0	-	-2	11
Cameroon	-	-	-	0	-	3	8
Canada	-1	-17	25	-1	0	125	3,438
Chad	-	-	-	0	-	0	6
China	2	-33	0	-1	0	-50	-161
Colombia	0	-2	0	-3	0	-69	288
Denmark	-	-2	-	0	-	0	-1
Dominican Republic	0	-6	-3	-1	0	-118	-131
Estonia	-	-	-	0	-	0	0
Finland	0	-2	0	0	-	25	25
France	0	-6	-	-2	-	-49	-92
Germany	0	-2	0	1	0	14	-15
Guatemala	0	-13	0	-1	-	-120	-114
Honduras	0	-5	-1	0	-	-74	-74
India	0	-110	0	-3	0	-119	-409
Indonesia	0	0	0	1	0	-68	-72
Italy	0	-18	0	0	-	7	-111
Japan	0	-65	0	0	0	-426	-498
Korea, South	0	-5	1	11	0	-3	-351
Latvia	-	-	-	0	0	0	0
Lithuania	-	0	-	0	-	2	-2
Malaysia	0	-4	0	0	0	-1	-1
Mexico	-1	-49	-11	-36	-1	-1,149	-524
Netherlands	0	-10	0	-2	0	-68	-325
Norway	-	-3	-	0	-	13	31
Oman	-	1	0	0	-	-3	-3
Panama	0	-2	-1	-1	0	-113	-169
Portugal	0	-1	-	0	-	22	22
Puerto Rico	0	0	0	0	-	-2	-2
Qatar	0	0	0	9	-	25	25
Russia	0	-	0	1	-	277	409
Spain	0	-10	4	0	0	-24	-49
Sweden	0	-2	-	0	0	1	1
Trinidad and Tobago	0	0	0	0	0	-22	17
United Kingdom	0	-4	0	1	0	-28	-183
Vietnam	0	0	0	0	0	0	-10
Virgin Islands, U.S.	-	-	0	0	0	-39	-39
Yemen	-	-	-	0	-	0	0
Other	1	-111	-4	-13	-1	-778	-1,221
Total	1	-553	10	-73	-2	-3,177	1,059
Persian Gulf²	0	-6	0	12	0	77	1,044

- = 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, May 2019
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Crude Oil	15,125	142,986	889,620	25,239	52,006	1,124,976
Refinery	12,188	15,077	50,795	2,819	21,725	102,604
Tank Farms and Pipelines (Includes Cushing, OK)	2,937	127,909	194,007	22,420	26,296	373,569
Cushing, Oklahoma	–	51,271	–	–	–	51,271
Leases	–	–	–	–	–	–
Strategic Petroleum Reserve ¹	–	–	644,818	–	–	644,818
Alaskan In Transit	–	–	–	–	3,985	3,985
Total Stocks, All Oils (excluding Crude Oil)²	154,131	175,538	386,022	22,464	93,930	832,086
Refinery	17,500	46,251	128,895	11,278	53,241	257,165
Bulk Terminal	107,007	90,965	201,219	6,930	35,379	441,501
Pipeline	29,377	36,836	53,119	4,050	5,067	128,449
Natural Gas Processing Plant	247	1,486	2,789	206	243	4,971
Natural Gas Liquids	7,258	46,469	138,443	3,469	3,003	198,642
Refinery	569	3,257	6,367	387	1,161	11,741
Bulk Terminal	4,872	25,486	112,494	784	1,599	145,235
Pipeline	1,570	16,240	16,793	2,092	–	36,695
Natural Gas Processing Plant	247	1,486	2,789	206	243	4,971
Ethane	448	5,424	49,917	456	–	56,245
Refinery	–	–	254	–	–	254
Bulk Terminal	271	1,716	43,057	–	–	45,044
Pipeline	177	3,566	6,314	452	–	10,509
Natural Gas Processing Plant	–	142	292	4	–	438
Propane	3,963	16,008	41,286	1,273	804	63,334
Refinery	66	613	572	74	144	1,469
Bulk Terminal	2,695	11,009	34,975	265	640	49,584
Pipeline	1,085	3,677	5,356	844	–	10,962
Natural Gas Processing Plant	117	709	383	90	20	1,319
Normal Butane	2,403	12,386	30,781	1,062	1,674	48,306
Refinery	368	1,570	3,784	194	576	6,492
Bulk Terminal	1,741	9,466	23,529	502	953	36,191
Pipeline	244	1,124	2,177	321	–	3,866
Natural Gas Processing Plant	50	226	1,291	45	145	1,757
Isobutane	182	3,033	7,862	279	469	11,825
Refinery	135	600	1,454	88	438	2,715
Bulk Terminal	–	1,420	5,423	–	–	6,843
Pipeline	32	851	760	172	–	1,815
Natural Gas Processing Plant	15	162	225	19	31	452
Natural Gasoline	262	9,618	8,597	399	56	18,932
Refinery	–	474	303	31	3	811
Bulk Terminal	165	1,875	5,510	17	6	7,573
Pipeline	32	7,022	2,186	303	–	9,543
Natural Gas Processing Plant	65	247	598	48	47	1,005
Refinery Olefins	153	381	7,081	96	52	7,763
Refinery	153	373	2,215	96	52	2,889
Bulk Terminal	–	8	4,866	–	–	4,874
Pipeline	–	–	–	–	–	–
Natural Gas Processing Plant	–	–	–	–	–	–
Ethylene	–	–	0	–	–	0
Refinery	–	–	0	–	–	0
Bulk Terminal	–	–	–	–	–	–
Pipeline	–	–	–	–	–	–
Natural Gas Processing Plant	–	–	–	–	–	–
Propylene	85	335	6,259	0	2	6,681
Refinery	85	327	1,393	0	2	1,807
Bulk Terminal	–	8	4,866	–	–	4,874
Pipeline	–	–	–	–	–	–
Natural Gas Processing Plant	–	–	–	–	–	–
Normal Butylene	24	46	822	96	50	1,038
Refinery	24	46	822	96	50	1,038
Bulk Terminal	–	–	–	–	–	–
Pipeline	–	–	–	–	–	–
Natural Gas Processing Plant	–	–	–	–	–	–
Isobutylene	44	0	0	0	0	44
Refinery	44	0	0	0	0	44
Bulk Terminal	–	–	–	–	–	–
Pipeline	–	–	–	–	–	–
Natural Gas Processing Plant	–	–	–	–	–	–
Other Hydrocarbons	–	42	–	–	–	42
Refinery	–	42	–	–	–	42
Oxygenates (excluding Fuel Ethanol)	–	3	1,954	–	–	1,957
Refinery	–	–	–	–	–	–
Bulk Terminal	–	3	1,954	–	–	1,957
Pipeline	–	–	–	–	–	–

See footnotes at end of table.

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

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
MTBE	—	—	1,826	—	—	1,826
Refinery	—	—	—	—	—	—
Bulk Terminal ³	—	—	1,826	—	—	1,826
Pipeline	—	—	—	—	—	—
Other Oxygenates⁴	—	3	128	—	—	131
Refinery	—	—	—	—	—	—
Bulk Terminal	—	3	128	—	—	131
Pipeline	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	8,898	9,142	6,470	507	4,445	29,463
Refinery	246	156	390	234	451	1,477
Bulk Terminal	8,611	8,986	6,080	269	3,994	27,941
Pipeline	41	—	—	4	—	45
Fuel Ethanol²	7,155	8,155	4,623	415	2,470	22,818
Refinery	241	116	165	146	28	696
Bulk Terminal	6,873	8,039	4,458	265	2,442	22,077
Pipeline	41	—	—	4	—	45
Renewable Diesel Fuel⁵	1,743	987	1,847	92	1,932	6,602
Refinery	5	40	225	88	423	781
Bulk Terminal	1,738	947	1,622	4	1,509	5,821
Pipeline	—	—	—	—	—	—
Other Renewable Fuels	—	—	—	—	43	43
Refinery	—	—	—	—	—	—
Bulk Terminal	—	—	—	—	43	43
Pipeline	—	—	—	—	—	—
Unfinished Oils	5,616	13,243	53,025	3,531	22,519	97,934
Naphthas and Lighter	1,433	3,716	12,522	942	3,630	22,243
Refinery	1,433	3,682	11,350	942	3,255	20,662
Bulk Terminal	—	34	1,172	—	375	1,581
Kerosene and Light Gas Oils	1,114	2,294	9,195	594	4,633	17,830
Refinery	1,114	2,294	6,959	594	4,548	15,509
Bulk Terminal	—	—	2,236	—	85	2,321
Heavy Gas Oils	2,170	4,615	25,746	1,394	10,861	44,786
Refinery	2,057	4,234	21,487	1,394	10,338	39,510
Bulk Terminal	113	381	4,259	—	523	5,276
Residuum	899	2,618	5,562	601	3,395	13,075
Refinery	899	2,246	5,339	601	3,366	12,451
Bulk Terminal	—	372	223	—	29	624
Motor Gasoline Blending Components²	61,062	41,471	76,338	5,538	28,749	213,158
Refinery	5,317	12,226	28,874	3,036	14,097	63,550
Bulk Terminal	43,567	20,029	28,977	1,566	12,023	106,162
Pipeline	12,178	9,216	18,487	936	2,629	43,446
Reformulated - RBOB	21,852	6,436	12,891	—	14,257	55,436
Refinery	1,446	1,040	2,515	—	5,510	10,511
Bulk Terminal	15,913	3,476	4,935	—	7,111	31,435
Pipeline	4,493	1,920	5,441	—	1,636	13,490
Conventional	39,210	35,035	63,447	5,538	14,492	157,722
Refinery	3,871	11,186	26,359	3,036	8,587	53,039
Bulk Terminal	27,654	16,553	24,042	1,566	4,912	74,727
Pipeline	7,685	7,296	13,046	936	993	29,956
CBOB	27,516	27,814	34,170	4,121	7,884	101,505
Refinery	962	5,100	11,197	1,622	2,501	21,382
Bulk Terminal	18,884	15,622	10,171	1,563	4,395	50,635
Pipeline	7,670	7,092	12,802	936	988	29,488
GTAB	157	—	1	—	—	158
Refinery	—	—	1	—	—	1
Bulk Terminal	157	—	—	—	—	157
Pipeline	—	—	—	—	—	—
Other	11,537	7,221	29,276	1,417	6,608	56,059
Refinery	2,909	6,086	15,161	1,414	6,086	31,656
Bulk Terminal	8,613	931	13,871	3	517	23,935
Pipeline	15	204	244	—	5	468
Aviation Gasoline Blending Components	—	—	18	—	—	18
Refinery	—	—	18	—	—	18
Bulk Terminal	—	—	—	—	—	—
Finished Motor Gasoline	4,629	5,909	8,142	1,685	2,194	22,559
Refinery	28	1,153	2,738	698	766	5,383
Bulk Terminal	1,983	2,428	3,317	731	1,267	9,726
Pipeline	2,618	2,328	2,087	256	161	7,450
Reformulated	27	—	—	—	19	46
Refinery	—	—	—	—	19	19
Bulk Terminal	27	—	—	—	—	27
Pipeline	—	—	—	—	—	—
Reformulated (Blended with Fuel Ethanol)	27	—	—	—	19	46
Refinery	—	—	—	—	19	19
Bulk Terminal	27	—	—	—	—	27
Pipeline	—	—	—	—	—	—

See footnotes at end of table.

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

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Reformulated (Other)	—	—	—	—	—	—
Refinery	—	—	—	—	—	—
Bulk Terminal	—	—	—	—	—	—
Pipeline	—	—	—	—	—	—
Conventional	4,602	5,909	8,142	1,685	2,175	22,513
Refinery	28	1,153	2,738	698	747	5,364
Bulk Terminal	1,956	2,428	3,317	731	1,267	9,699
Pipeline	2,618	2,328	2,087	256	161	7,450
Conventional (Blended with Fuel Ethanol)	40	164	—	51	—	255
Refinery	—	—	—	49	—	49
Bulk Terminal	40	164	—	2	—	206
Pipeline	—	—	—	—	—	—
Ed55 and Lower	40	164	—	51	—	255
Refinery	—	—	—	49	—	49
Bulk Terminal	40	164	—	2	—	206
Pipeline	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—
Refinery	—	—	—	—	—	—
Bulk Terminal	—	—	—	—	—	—
Pipeline	—	—	—	—	—	—
Conventional (Other)	4,562	5,745	8,142	1,634	2,175	22,258
Refinery	28	1,153	2,738	649	747	5,315
Bulk Terminal	1,916	2,264	3,317	729	1,267	9,493
Pipeline	2,618	2,328	2,087	256	161	7,450
Finished Aviation Gasoline	152	199	563	9	121	1,044
Refinery	—	93	414	9	47	563
Bulk Terminal	152	106	149	—	74	481
Pipeline	—	—	—	—	—	—
Kerosene-Type Jet Fuel	8,298	7,547	13,966	748	8,791	39,350
Refinery	708	1,763	6,468	323	3,657	12,919
Bulk Terminal	3,815	3,898	3,297	337	4,272	15,619
Pipeline	3,775	1,886	4,201	88	862	10,812
Kerosene	1,395	172	457	1	18	2,043
Refinery	208	139	171	1	2	521
Bulk Terminal	1,156	33	266	—	16	1,471
Pipeline	31	—	20	—	—	51
Distillate Fuel Oil²	40,694	33,317	38,503	4,294	13,184	129,992
Refinery	2,579	6,654	14,738	1,907	5,807	31,685
Bulk Terminal	28,951	19,497	12,234	1,713	5,968	68,363
Pipeline	9,164	7,166	11,531	674	1,409	29,944
15 ppm sulfur and Under	35,142	32,285	32,201	4,047	12,141	115,816
Refinery	2,057	6,008	12,033	1,713	5,193	27,004
Bulk Terminal	24,753	19,316	9,441	1,662	5,666	60,838
Pipeline	8,332	6,961	10,727	672	1,282	27,974
Greater than 15 ppm to 500 ppm sulfur	1,312	550	1,189	179	255	3,485
Refinery	283	215	608	126	225	1,457
Bulk Terminal	1,022	143	488	51	—	1,704
Pipeline	7	192	93	2	30	324
Greater than 500 ppm sulfur	4,240	482	5,113	68	788	10,691
Refinery	239	431	2,097	68	389	3,224
Bulk Terminal	3,176	38	2,305	—	302	5,821
Pipeline	825	13	711	—	97	1,646
Residual Fuel Oil⁶	6,275	1,175	17,410	215	4,953	30,028
Refinery	475	1,044	4,283	215	2,176	8,193
Bulk Terminal	5,800	131	13,127	—	2,771	21,829
Pipeline	—	—	—	—	6	6
Less than 0.31% Sulfur	1,461	85	1,300	29	486	3,361
Refinery	151	77	264	29	—	521
Bulk Terminal	1,310	8	1,036	—	486	2,840
0.31% to 1.00% Sulfur	784	244	3,135	6	504	4,673
Refinery	60	145	257	6	244	712
Bulk Terminal	724	99	2,878	—	260	3,961
Greater than 1.00% Percent Sulfur	4,030	846	12,975	180	3,957	21,988
Refinery	264	822	3,762	180	1,932	6,960
Bulk Terminal	3,766	24	9,213	—	2,025	15,028
Petrochemical Feedstocks	97	538	2,773	—	3	3,411
Refinery	97	538	2,773	—	3	3,411
Naphtha for Petrochemical Feedstock Use	97	447	2,007	—	3	2,554
Other Oils for Petrochemical Feedstock Use	—	91	766	—	—	857
Special Naphthas	36	129	927	—	58	1,150
Refinery	15	49	917	—	58	1,039
Bulk Terminal	21	80	10	—	—	111
Lubricants	905	528	7,835	—	879	10,147
Refinery	524	162	4,686	—	670	6,042
Bulk Terminal	381	366	3,149	—	209	4,105
Waxes	330	42	289	—	—	661
Refinery	330	42	289	—	—	661
Petroleum Coke	—	1,677	5,626	83	1,749	9,135
Refinery	—	1,677	5,626	83	1,749	9,135
Asphalt and Road Oil	8,302	13,442	5,843	2,274	3,134	32,995
Refinery	717	4,315	2,434	744	960	9,170
Bulk Terminal	7,585	9,127	3,409	1,530	2,174	23,825

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

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Miscellaneous Products	31	112	359	14	78	594
Refinery	31	112	359	14	78	594
Bulk Terminal	—	—	—	—	—	—
Pipeline	—	—	—	—	—	—
Total Stocks, All Oils	169,256	318,524	1,275,642	47,703	145,936	1,957,062

— = 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, May 2019
(Thousand Barrels)

Commodity	Motor Gasoline			Motor Gasoline Blending Components ¹			Kerosene
	Reformulated	Conventional	Total	Reformulated	Conventional	Total	
PAD District 1	27	1,984	2,011	17,359	31,525	48,884	1,364
Connecticut	—	—	—	1,235	46	1,281	13
Delaware	—	—	—	494	596	1,090	193
District of Columbia	—	—	—	—	—	—	—
Florida	—	755	755	—	6,240	6,240	—
Georgia	—	253	253	—	2,347	2,347	—
Maine	—	—	—	407	279	686	45
Maryland	—	—	—	1,411	102	1,513	59
Massachusetts	3	—	3	1,387	—	1,387	19
New Hampshire	—	—	—	—	—	—	—
New Jersey	—	381	381	7,895	10,731	18,626	408
New York	24	—	24	756	1,879	2,635	345
North Carolina	—	267	267	—	2,244	2,244	129
Pennsylvania	—	22	22	1,358	4,283	5,641	84
Rhode Island	—	—	—	798	—	798	—
South Carolina	—	211	211	—	1,365	1,365	22
Vermont	—	40	40	—	—	—	4
Virginia	—	33	33	1,618	1,223	2,841	43
West Virginia	—	22	22	—	190	190	—
PAD District 2	—	3,581	3,581	4,516	27,739	32,255	172
Illinois	—	344	344	2,342	4,132	6,474	154
Indiana	—	234	234	766	3,123	3,889	—
Iowa	—	164	164	—	1,024	1,024	—
Kansas	—	297	297	—	2,971	2,971	7
Kentucky	—	174	174	557	1,085	1,642	4
Michigan	—	164	164	31	2,677	2,708	—
Minnesota	—	382	382	—	2,144	2,144	—
Missouri	—	165	165	299	409	708	—
Nebraska	—	77	77	—	468	468	—
North Dakota	—	52	52	—	710	710	—
Ohio	—	621	621	3	3,129	3,132	7
Oklahoma	—	593	593	—	2,830	2,830	—
South Dakota	—	36	36	—	302	302	—
Tennessee	—	171	171	—	1,661	1,661	—
Wisconsin	—	107	107	518	1,074	1,592	—
PAD District 3	—	6,055	6,055	7,450	50,401	57,851	437
Alabama	—	133	133	—	1,334	1,334	7
Arkansas	—	194	194	20	782	802	—
Louisiana	—	1,448	1,448	1,010	11,694	12,704	137
Mississippi	—	1,161	1,161	198	2,575	2,773	—
New Mexico	—	20	20	—	581	581	—
Texas	—	3,099	3,099	6,222	33,435	39,657	293
PAD District 4	—	1,429	1,429	—	4,602	4,602	1
Colorado	—	295	295	—	1,158	1,158	—
Idaho	—	291	291	—	155	155	—
Montana	—	360	360	—	1,314	1,314	—
Utah	—	101	101	—	1,312	1,312	1
Wyoming	—	382	382	—	663	663	—
PAD District 5	19	2,014	2,033	12,621	13,499	26,120	18
Alaska	—	822	822	—	—	—	16
Arizona	—	68	68	725	331	1,056	—
California	19	260	279	11,698	6,190	17,888	2
Hawaii	—	1	1	—	1,032	1,032	—
Nevada	—	170	170	19	351	370	—
Oregon	—	60	60	—	1,756	1,756	—
Washington	—	633	633	179	3,839	4,018	—
U.S. Total	46	15,063	15,109	41,946	127,766	169,712	1,992

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, May 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	26,810	1,305	3,415	31,530	6,275	2,878
Connecticut	1,417	8	48	1,473	13	—
Delaware	357	39	53	449	463	5
District of Columbia	—	—	—	—	—	—
Florida	2,299	60	—	2,359	691	102
Georgia	982	—	—	982	297	12
Maine	1,122	1	87	1,210	59	—
Maryland	999	178	—	1,177	296	1
Massachusetts	917	172	153	1,242	27	—
New Hampshire	534	—	—	534	1	30
New Jersey	8,354	184	1,740	10,278	2,929	41
New York	2,981	21	358	3,360	888	246
North Carolina	1,293	—	2	1,295	—	15
Pennsylvania	2,939	264	598	3,801	493	2,241
Rhode Island	634	72	—	706	—	—
South Carolina	692	—	—	692	50	110
Vermont	—	—	—	—	—	—
Virginia	1,134	276	376	1,786	68	2
West Virginia	156	30	—	186	—	73
PAD District 2	25,324	358	469	26,151	1,175	12,331
Illinois	3,607	—	—	3,607	216	617
Indiana	2,947	—	95	3,042	94	260
Iowa	2,890	1	—	2,891	2	560
Kansas	2,684	—	—	2,684	66	8,038
Kentucky	808	2	—	810	149	126
Michigan	1,462	54	—	1,516	146	1,497
Minnesota	1,763	—	21	1,784	233	202
Missouri	559	86	9	654	—	69
Nebraska	1,039	—	—	1,039	—	262
North Dakota	1,038	2	—	1,040	26	64
Ohio	2,189	—	106	2,295	123	530
Oklahoma	1,793	205	125	2,123	29	46
South Dakota	808	—	—	808	—	22
Tennessee	829	—	—	829	76	2
Wisconsin	908	8	113	1,029	15	36
PAD District 3	21,474	1,096	4,402	26,972	17,410	35,930
Alabama	852	7	66	925	465	33
Arkansas	803	—	4	807	—	43
Louisiana	5,336	445	1,246	7,027	8,182	1,571
Mississippi	768	284	135	1,187	58	2,851
New Mexico	306	—	—	306	49	4
Texas	13,409	360	2,951	16,720	8,656	31,428
PAD District 4	3,375	177	68	3,620	215	429
Colorado	669	—	—	669	6	23
Idaho	261	—	—	261	—	—
Montana	1,065	73	—	1,138	74	44
Utah	704	35	68	807	56	272
Wyoming	676	69	—	745	79	90
PAD District 5	10,859	225	691	11,775	4,947	804
Alaska	1,190	—	40	1,230	198	3
Arizona	571	—	—	571	—	388
California	5,121	225	214	5,560	3,139	190
Hawaii	199	—	435	634	775	108
Nevada	282	—	2	284	—	—
Oregon	1,048	—	—	1,048	41	—
Washington	2,448	—	—	2,448	794	115
U.S. Total	87,842	3,161	9,045	100,048	30,022	52,372

— = 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, May 2019
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	392	44	0	5,171	68,771	6,698	6,270	2,255	33,950
Petroleum Products	16,425	206	0	16,748	39,735	8,181	5,213	107,197	22,906
Natural Gas Liquids	6,551	186	0	1,636	27,823	4,335	461	739	6,234
Ethane	5,124	0	-	0	11,991	520	-	0	813
Propane	775	57	0	1,180	8,022	2,108	212	739	762
Normal Butane	161	74	0	372	3,690	916	77	0	245
Isobutane	267	55	0	84	1,127	333	172	0	333
Natural Gasoline	224	0	-	0	2,993	458	-	0	4,081
Refinery Olefins	0	0	-	467	318	-	-	0	0
Ethylene	-	-	-	-	-	-	-	-	-
Propylene	0	0	-	467	318	-	-	0	0
Normal Butylene	-	-	-	-	-	-	-	-	-
Isobutylene	-	-	-	-	-	-	-	-	-
Unfinished Oils	18	0	-	0	1,336	-	-	0	173
Motor Gasoline Blending Components	6,731	0	0	1,374	1,577	1,662	0	55,695	11,118
Reformulated - RBOB	0	0	0	64	162	-	0	7,160	7,496
Conventional	6,731	0	0	1,310	1,415	1,662	0	48,535	3,622
CBOB	6,731	0	0	1,310	1,282	1,662	0	48,385	3,007
GTAB	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	133	-	-	150	615
Renewable Fuels	0	0	0	11,164	6,300	413	4,557	436	0
Fuel Ethanol	0	0	0	10,983	5,974	376	4,358	436	0
Renewable Diesel Fuel ²	0	0	0	181	326	36	199	0	0
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	80	0	0	275	153	240	0	6,767	1,466
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	80	0	0	275	153	240	0	6,767	1,466
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	80	0	0	275	153	240	0	6,767	1,466
Finished Aviation Gasoline	0	0	-	0	0	-	-	100	13
Kerosene-Type Jet Fuel	384	0	0	83	0	840	0	15,752	1,405
Kerosene	-	-	-	-	-	-	-	-	-
Distillate Fuel Oil	2,661	0	0	990	1,032	671	0	26,394	2,183
15 ppm sulfur and under	2,661	0	0	990	1,032	671	0	24,877	2,058
Greater than 15 ppm to 500 ppm sulfur	0	0	-	0	0	-	-	1	125
Greater than 500 ppm sulfur	-	0	-	0	0	-	-	1,516	-
Residual Fuel Oil	0	0	-	-	686	-	-	-	0
Petrochemical Feedstocks	0	0	-	0	43	-	-	109	0
Naphtha for Petrochemical Feedstock Use	0	0	-	-	43	-	-	-	0
Other Oils for Petrochemical Feedstock Use	-	0	-	0	0	-	-	109	-
Special Naphthas	0	0	-	-	0	-	-	-	19
Lubricants	0	0	0	0	0	-	0	511	149
Waxes	-	-	-	-	-	-	-	-	-
Marketable Petroleum Coke	0	0	0	183	251	0	0	26	0
Asphalt and Road Oil	0	20	0	576	216	20	195	668	146
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total	16,817	250	0	21,920	108,506	14,879	11,483	109,452	56,856

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, May 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	97	0	23,461	930	0	0	0	0
Petroleum Products	0	5,061	0	13,714	4,180	2,201	0	95	49
Natural Gas Liquids	0	137	0	12,219	3,892	146	0	0	0
Ethane	0	—	0	2,627	1,202	—	0	0	0
Propane	0	0	0	5,047	1,255	29	0	0	0
Normal Butane	0	110	0	2,124	433	15	0	0	0
Isobutane	0	27	0	887	356	102	0	0	0
Natural Gasoline	0	—	0	1,534	646	—	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	3,850	0	155	0	944	0	0	0
Reformulated - RBOB	—	2,446	0	0	0	0	0	0	—
Conventional	0	1,404	0	155	0	944	0	0	0
CBOB	0	1,404	0	155	0	944	0	0	0
GTAB	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	0	—	0	0	—
Renewable Fuels	0	63	0	0	0	0	0	0	24
Fuel Ethanol	0	0	0	0	0	0	0	0	0
Renewable Diesel Fuel ²	0	63	0	0	0	0	0	0	24
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	404	0	590	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	404	0	590	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	404	0	590	0	0	0
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	—
Kerosene-Type Jet Fuel	0	295	0	22	0	25	0	0	0
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	0	514	0	476	0	293	0	0	0
15 ppm sulfur and under	0	514	0	476	0	293	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	0	0	0	—	0	0	—
Greater than 500 ppm sulfur	—	—	0	—	0	—	0	0	—
Residual Fuel Oil	—	—	—	0	0	—	—	0	—
Petrochemical Feedstocks	—	—	0	0	0	—	0	0	—
Naphtha for Petrochemical Feedstock Use	—	—	—	0	0	—	—	0	—
Other Oils for Petrochemical Feedstock Use	—	—	0	—	0	—	0	0	—
Special Naphthas	—	—	—	0	0	—	—	0	—
Lubricants	—	0	0	0	0	0	0	95	—
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	0	0	146	128	46	0	0	25
Asphalt and Road Oil	0	201	0	291	160	158	0	0	0
Miscellaneous Products	—	—	—	—	—	—	—	—	—
Total	0	5,158	0	37,175	5,110	2,201	0	95	49

— = 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, May 2019
(Thousand Barrels)

Commodity	From 1 to		From 2 to			From 3 to			
	2	3	1	3	4	1	2	4	5
Crude Oil	186	44	268	66,933	6,698	129	33,950	0	-
Petroleum Products	16,294	0	2,458	29,398	7,748	81,896	21,142	0	4,659
Natural Gas Liquids	6,438	0	860	26,794	4,335	617	6,107	0	-
Ethane	5,124	0	0	11,991	520	0	813	0	-
Propane	747	0	860	7,577	2,108	617	657	0	-
Normal Butane	103	0	0	3,281	916	0	245	0	-
Isobutane	240	0	0	952	333	0	311	0	-
Natural Gasoline	224	0	0	2,993	458	0	4,081	0	-
Motor Gasoline Blending Components	6,731	0	691	1,444	1,662	44,149	10,805	0	3,850
Reformulated - RBOB	0	0	0	162	-	7,160	7,496	-	2,446
Conventional	6,731	0	691	1,282	1,662	36,989	3,309	0	1,404
CBOB	6,731	0	691	1,282	1,662	36,989	3,007	0	1,404
GTAB	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	-	-	302	-	-
Renewable Fuels	-	-	-	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-	-	-	-
Renewable Diesel Fuel ¹	-	-	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	80	0	249	153	240	1,467	891	0	0
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	80	0	249	153	240	1,467	891	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	80	0	249	153	240	1,467	891	0	0
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	384	0	83	0	840	13,176	1,254	0	295
Kerosene	-	-	-	-	-	-	-	-	-
Distillate Fuel Oil	2,661	0	575	1,007	671	22,487	2,085	0	514
15 ppm sulfur and under	2,661	0	575	1,007	671	20,970	1,960	0	514
Greater than 15 ppm to 500 ppm sulfur	0	0	0	0	-	1	125	-	-
Greater than 500 ppm sulfur	-	0	0	0	-	1,516	-	-	-
Residual Fuel Oil	-	-	-	-	-	-	-	-	-
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total	16,480	44	2,726	96,331	14,446	82,025	55,092	0	4,659

See footnotes at end of table.

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

Commodity	From 4 to				From 5 to	
	1	2	3	5	3	4
Crude Oil	0	23,461	324	-	0	0
Petroleum Products	0	13,276	3,892	1,852	0	0
Natural Gas Liquids	0	12,219	3,892	-	0	0
Ethane	0	2,627	1,202	-	0	0
Propane	0	5,047	1,255	-	0	0
Normal Butane	0	2,124	433	-	0	0
Isobutane	0	887	356	-	0	0
Natural Gasoline	0	1,534	646	-	0	0
Motor Gasoline Blending Components	0	155	0	944	0	0
Reformulated - RBOB	0	0	0	0	0	-
Conventional	0	155	0	944	0	0
CBOB	0	155	0	944	0	0
GTAB	-	-	-	-	-	-
Other	-	0	0	-	0	-
Renewable Fuels	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-
Renewable Diesel Fuel ¹	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-
Finished Motor Gasoline	0	404	0	590	0	0
Reformulated	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-
Conventional	0	404	0	590	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-
Conventional Other	0	404	0	590	0	0
Finished Aviation Gasoline	-	-	-	-	-	-
Kerosene-Type Jet Fuel	0	22	0	25	0	0
Kerosene	-	-	-	-	-	-
Distillate Fuel Oil	0	476	0	293	0	0
15 ppm sulfur and under	0	476	0	293	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	36,737	4,216	1,852	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, May 2019
(Thousand Barrels)

Commodity	From 1 to			From 2 to		
	2	3	5	1	3	5
Crude Oil	206	0	-	311	1,693	-
Petroleum Products	18	0	0	1,344	2,690	0
Natural Gas Liquids	-	0	-	0	0	-
Ethane	-	-	-	-	-	-
Propane	-	0	-	0	0	-
Normal Butane	-	-	-	-	-	-
Isobutane	-	-	-	-	-	-
Natural Gasoline	-	-	-	-	-	-
Unfinished Oils	18	0	-	0	1,336	-
Motor Gasoline Blending Components	0	0	-	683	133	-
Reformulated - RBOB	0	-	-	64	-	-
Conventional	0	0	-	619	133	-
CBOB	0	0	-	619	0	-
GTAB	-	-	-	-	-	-
Other	0	0	-	0	133	-
Renewable Fuels	0	0	-	220	448	-
Fuel Ethanol	0	0	-	220	417	-
Renewable Diesel Fuel ¹	0	0	-	-	31	-
Other Renewable Fuels	-	-	-	-	-	-
Finished Motor Gasoline	0	0	-	26	0	-
Reformulated	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-
Conventional	0	0	-	26	0	-
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-
Conventional Other	0	0	-	26	0	-
Finished Aviation Gasoline	0	0	-	0	0	-
Kerosene-Type Jet Fuel	0	0	-	0	0	-
Kerosene	-	-	-	-	-	-
Distillate Fuel Oil	0	0	-	415	25	-
15 ppm sulfur and under	0	0	-	415	25	-
Greater than 15 ppm to 500 ppm sulfur	-	-	-	-	-	-
Greater than 500 ppm sulfur	-	-	-	-	-	-
Residual Fuel Oil	0	0	-	-	686	-
Less than 0.31 percent sulfur	0	0	-	-	97	-
0.31 to 1.00 percent sulfur	0	0	-	-	40	-
Greater than 1.00 percent sulfur	0	0	-	-	549	-
Petrochemical Feedstocks	0	0	-	0	43	-
Naphtha for Petrochemical Feedstock Use	0	0	-	-	43	-
Other Oils for Petrochemical Feedstock Use	-	0	-	0	0	-
Special Naphthas	0	0	-	-	0	-
Lubricants	0	0	0	0	0	0
Waxes	-	-	-	-	-	-
Marketable Petroleum Coke	-	-	-	-	-	-
Asphalt and Road Oil	0	0	-	0	19	-
Miscellaneous Products	-	-	-	-	-	-
Total	224	0	0	1,655	4,383	0

See footnotes at end of table.

Table 59. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, May 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	2,126	—	2,126	—	0	—	0	0	0
Petroleum Products	24,911	22	541	24,348	1,526	0	0	0	95
Natural Gas Liquids	28	—	—	28	—	—	0	—	0
Ethane	—	—	—	—	—	—	—	—	—
Propane	28	—	—	28	—	—	0	—	0
Normal Butane	—	—	—	—	—	—	—	—	—
Isobutane	—	—	—	—	—	—	—	—	—
Natural Gasoline	—	—	—	—	—	—	—	—	—
Unfinished Oils	0	—	—	—	173	—	0	0	0
Motor Gasoline Blending Components	11,546	—	150	11,396	313	—	0	0	0
Reformulated - RBOB	0	—	—	—	0	—	0	0	—
Conventional	11,546	—	150	11,396	313	—	0	0	0
CBOB	11,396	—	—	11,396	0	—	0	0	0
GTAB	—	—	—	—	—	—	—	—	—
Other	150	—	150	—	313	—	0	0	0
Renewable Fuels	436	—	—	436	0	—	0	0	0
Fuel Ethanol	436	—	—	436	0	—	0	0	0
Renewable Diesel Fuel ¹	—	—	—	—	0	—	—	0	0
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	5,300	—	—	5,300	575	—	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	5,300	—	—	5,300	575	—	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	5,300	—	—	5,300	575	—	0	0	0
Finished Aviation Gasoline	100	22	—	78	13	—	0	0	0
Kerosene-Type Jet Fuel	2,576	—	—	2,576	151	—	0	0	0
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	3,907	—	—	3,907	98	—	0	0	0
15 ppm sulfur and under	3,907	—	—	3,907	98	—	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	—	—	—	—	0	—	—	0	0
Greater than 1.00 percent sulfur	—	—	—	—	0	—	—	0	0
Petrochemical Feedstocks	109	—	109	—	0	—	0	0	0
Naphtha for Petrochemical Feedstock Use	—	—	—	—	0	—	—	0	0
Other Oils for Petrochemical Feedstock Use	109	—	109	—	—	—	0	—	0
Special Naphthas	—	—	—	—	19	—	—	0	0
Lubricants	511	—	282	229	149	0	0	0	95
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	398	—	—	398	35	—	0	0	0
Miscellaneous Products	—	—	—	—	—	—	—	—	—
Total	27,037	22	2,667	24,348	1,526	0	0	0	95

— = 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, May 2019
(Thousand Barrels)

Commodity	From 1 to				From 2 to			
	2	3	4	5	1	3	4	5
Crude Oil	0	0	0	0	4,592	145	0	6,270
Propane	28	57	0	0	320	445	0	212
Propylene	0	0	-	-	467	318	-	-
Normal Butane	58	74	0	0	372	409	0	77
Isobutane	27	55	0	0	84	175	0	172
Fuel Ethanol	0	0	0	0	10,763	5,557	376	4,358
Biodiesel	0	0	0	0	181	295	36	199
Marketable Petroleum Coke	0	0	0	0	183	251	0	0
Asphalt and Road Oil	0	20	0	0	576	197	20	195

Commodity	From 3 to				From 4 to			
	1	2	4	5	1	2	3	5
Crude Oil	0	0	0	97	0	0	606	0
Propane	94	105	0	0	0	0	0	29
Propylene	0	0	-	-	0	0	0	-
Normal Butane	0	0	0	110	0	0	0	15
Isobutane	0	22	0	27	0	0	0	102
Fuel Ethanol	0	0	0	0	0	0	0	0
Biodiesel	0	0	0	63	0	0	0	0
Marketable Petroleum Coke	26	0	0	0	0	146	128	46
Asphalt and Road Oil	270	111	0	201	0	291	160	158

Commodity	From 5 to			
	1	2	3	4
Crude Oil	0	0	0	0
Propane	0	0	0	0
Propylene	0	0	0	-
Normal Butane	0	0	0	0
Isobutane	0	0	0	0
Fuel Ethanol	0	0	0	0
Biodiesel	0	0	0	24
Marketable Petroleum Coke	0	0	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, May 2019
(Thousand Barrels)

PADD	Pipeline	Tanker and Barge	Rail	Total
From 1 to				
2	186	206	0	392
3	44	0	0	44
4	0	-	0	0
5	-	-	0	0
From 2 to				
1	268	311	4,592	5,171
3	66,933	1,693	145	68,771
4	6,698	-	0	6,698
5	-	-	6,270	6,270
From 3 to				
1	129	2,126	0	2,255
2	33,950	0	0	33,950
4	0	-	0	0
5	-	-	97	97
From 4 to				
1	0	0	0	0
2	23,461	0	0	23,461
3	324	0	606	930
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, May 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	7,426	436	6,990	57,803	86,911	-29,108	69,745	36,302	33,443
Petroleum Products	123,945	16,631	107,314	53,045	69,877	-16,832	44,216	135,163	-90,947
Natural Gas Liquids	2,375	6,737	-4,362	25,004	34,255	-9,251	31,901	7,110	24,791
Ethane	0	5,124	-5,124	8,564	12,511	-3,947	13,193	813	12,380
Propane	1,919	832	1,087	6,584	11,522	-4,938	9,334	1,501	7,833
Normal Butane	372	235	137	2,530	5,055	-2,525	4,197	355	3,842
Isobutane	84	322	-238	1,487	1,716	-229	1,538	360	1,178
Natural Gasoline	0	224	-224	5,839	3,451	2,388	3,639	4,081	-442
Refinery Olefins	467	0	467	0	785	-785	318	0	318
Ethylene	0	0	-	-	-	-	0	0	-
Propylene	467	0	467	0	785	-785	318	0	318
Normal Butylene	0	0	-	0	0	-	0	0	-
Isobutylene	0	0	-	0	0	-	0	0	-
Unfinished Oils	0	18	-18	191	1,336	-1,145	1,336	173	1,163
Motor Gasoline Blending Components	57,069	6,731	50,338	18,004	4,613	13,391	1,577	70,663	-69,086
Reformulated - RBOB	7,224	0	7,224	7,496	226	7,270	162	17,102	-16,940
Conventional	49,845	6,731	43,114	10,508	4,387	6,121	1,415	53,561	-52,146
CBOB	49,695	6,731	42,964	9,893	4,254	5,639	1,282	52,796	-51,514
GTAB	0	0	-	-	-	-	0	0	-
Other	150	0	150	615	133	482	133	765	-632
Renewable Fuels	11,600	0	11,600	0	22,435	-22,435	6,300	499	5,801
Fuel Ethanol	11,419	0	11,419	0	21,691	-21,691	5,974	436	5,538
Renewable Diesel Fuel ²	181	0	181	0	743	-743	326	63	263
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	7,042	80	6,962	1,950	668	1,282	153	8,233	-8,080
Reformulated	0	0	-	0	0	-	0	0	-
Reformulated Blended with Fuel Ethanol	0	0	-	0	0	-	0	0	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	7,042	80	6,962	1,950	668	1,282	153	8,233	-8,080
Conventional Blended with Fuel Ethanol	0	0	-	0	0	-	0	0	-
Ed55 and Lower	0	0	-	0	0	-	0	0	-
Greater than Ed55	0	0	-	0	0	-	0	0	-
Conventional Other	7,042	80	6,962	1,950	668	1,282	153	8,233	-8,080
Finished Aviation Gasoline	100	0	100	13	0	13	0	113	-113
Kerosene-Type Jet Fuel	15,835	384	15,451	1,811	923	888	0	17,452	-17,452
Kerosene	0	0	-	0	0	-	0	0	-
Distillate Fuel Oil	27,384	2,661	24,723	5,320	2,693	2,627	1,032	29,091	-28,059
15 ppm sulfur and under	25,867	2,661	23,206	5,195	2,693	2,502	1,032	27,449	-26,417
Greater than 15 ppm to 500 ppm sulfur	1	0	1	125	0	125	0	126	-126
Greater than 500 ppm sulfur	1,516	0	1,516	0	0	-	0	1,516	-1,516
Residual Fuel Oil	0	0	-	0	686	-686	686	0	686
Petrochemical Feedstocks	109	0	109	0	43	-43	43	109	-66
Naphtha for Petrochemical Feedstock Use	0	0	-	0	43	-43	43	0	43
Other Oils for Petrochemical Feedstock Use	109	0	109	0	0	-	0	109	-109
Special Naphthas	0	0	-	19	0	19	0	19	-19
Lubricants	511	0	511	149	0	149	95	660	-565
Waxes	0	0	-	0	0	-	0	0	-
Marketable Petroleum Coke	209	0	209	146	434	-287	379	26	353
Asphalt and Road Oil	1,244	20	1,223	437	1,007	-570	396	1,014	-619
Miscellaneous Products	0	0	-	0	0	-	0	0	-
Total	131,371	17,067	114,304	110,848	156,788	-45,940	113,961	171,465	-57,504

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, May 2019
(Thousand Barrels) — Continued

Commodity	PAD District 4			PAD District 5		
	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts
Crude Oil	6,698	24,391	-17,693	6,368	0	6,368
Petroleum Products	8,229	20,095	-11,866	12,475	144	12,331
Natural Gas Liquids	4,335	16,257	-11,922	744	0	744
Ethane	520	3,829	-3,309	0	0	-
Propane	2,108	6,331	-4,223	241	0	241
Normal Butane	916	2,572	-1,656	202	0	202
Isobutane	333	1,345	-1,012	301	0	301
Natural Gasoline	458	2,180	-1,722	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	1,662	1,099	563	4,794	0	4,794
Reformulated - RBOB	-	-	-	2,446	0	2,446
Conventional	1,662	1,099	563	2,348	0	2,348
CBOB	1,662	1,099	563	2,348	0	2,348
GTAB	-	-	-	-	-	-
Other	0	0	-	0	0	-
Renewable Fuels	436	0	436	4,621	24	4,597
Fuel Ethanol	376	0	376	4,358	0	4,358
Renewable Diesel Fuel ²	60	0	60	263	24	239
Other Renewable Fuels	-	-	-	0	0	-
Finished Motor Gasoline	240	994	-754	590	0	590
Reformulated	-	-	-	0	0	-
Reformulated Blended with Fuel Ethanol	-	-	-	0	0	-
Reformulated Other	-	-	-	-	-	-
Conventional	240	994	-754	590	0	590
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	240	994	-754	590	0	590
Finished Aviation Gasoline	0	0	-	0	0	-
Kerosene-Type Jet Fuel	840	47	793	320	0	320
Kerosene	0	0	-	0	0	-
Distillate Fuel Oil	671	769	-98	807	0	807
15 ppm sulfur and under	671	769	-98	807	0	807
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	95	-95
Waxes	0	0	-	0	0	-
Marketable Petroleum Coke	25	320	-295	46	25	21
Asphalt and Road Oil	20	609	-589	554	0	554
Miscellaneous Products	0	0	-	0	0	-
Total	14,927	44,486	-29,559	18,843	144	18,699

- = 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.

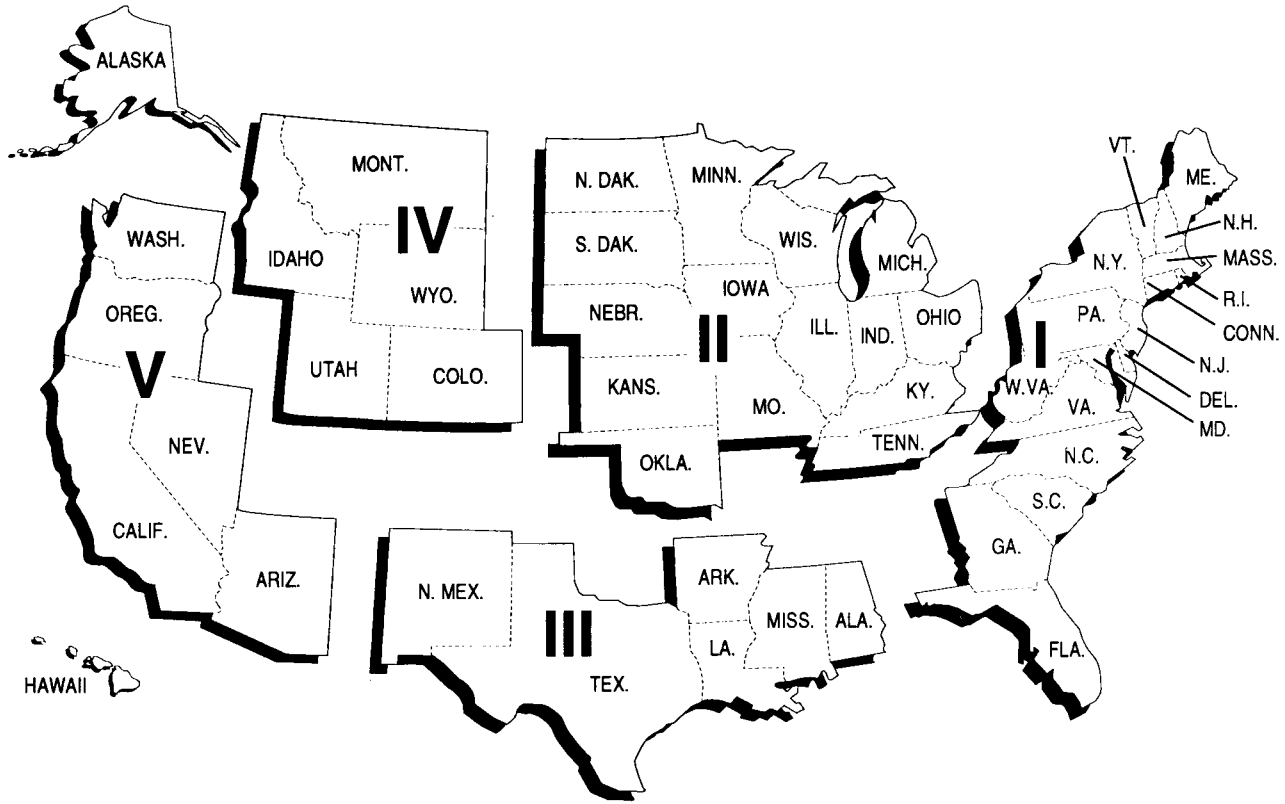
PAD District IV

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

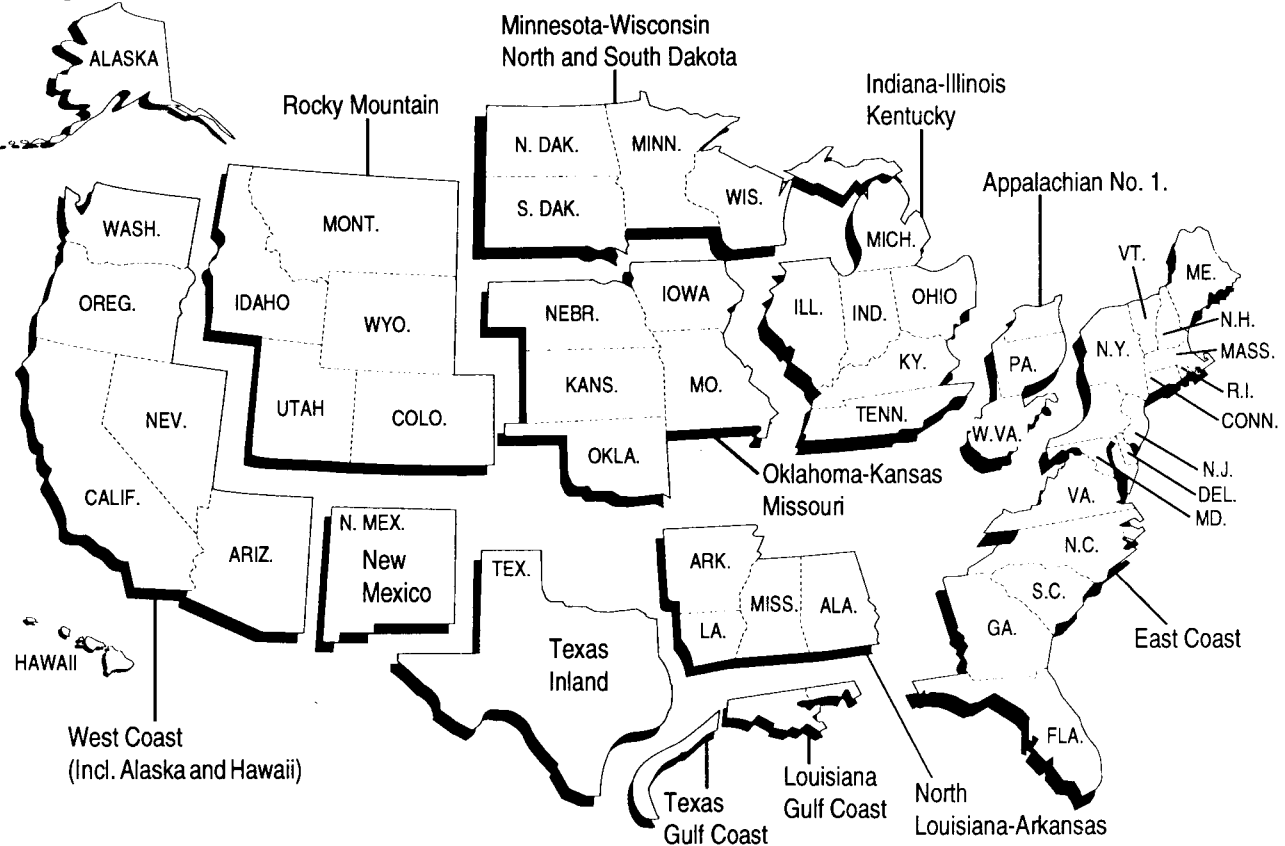
PAD District V

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; CH₃-(CH₂)_n-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 (C₆H₆). An aromatic hydrocarbon present in small proportion in some crude oils and made commercially from petroleum by the catalytic reforming of naphthenes in petroleum naphtha. Also made from coal in the manufacture of coke. Used as a solvent, in manufacturing detergents, synthetic fibers, and petrochemicals and as a component of high-octane gasoline.

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

feedstocks.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Flexicoking. A thermal cracking process which converts heavy

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

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

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

Examples:

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

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

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

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

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

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

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

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

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

Heavy Gas Oil. Petroleum distillates with an approximate boiling

range from 651 degrees Fahrenheit to 1000 degrees Fahrenheit.

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

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

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

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

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

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

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

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

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

Isopentane. See *Natural Gasoline and Isopentane.*

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Reformulated Blendstock for Oxygenate Blending (RBOB).

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

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

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

All Other Motor Gasoline Blending Components.

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

MTBE (Methyl tertiary butyl ether) (CH₃)₃COCH₃. 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, (C₅H₁₂), 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.