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Administration

Petroleum Supply Monthly

with data for November 2018

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Preface

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

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

Scope of data

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

Sections

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

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Table 1. U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, November 2018
(Thousand Barrels)

Commodity	Supply					Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³	
Crude Oil⁴	356,995	--	--	224,694	22,038	10,875	514,573	78,278	0	1,098,174
Hydrocarbon Gas Liquids	137,123	-613	11,854	6,674	--	-16,129	22,379	49,622	99,166	208,841
Natural Gas Liquids	137,123	-613	2,240	6,173	--	-16,845	22,379	49,622	89,767	200,632
Ethane	53,863	--	211	--	--	188	--	6,890	46,996	50,512
Propane	44,329	--	8,815	4,532	--	-4,852	--	32,311	30,217	73,905
Normal Butane	12,393	--	-6,266	1,225	--	-12,171	10,904	6,417	2,202	47,086
Isobutane	11,279	--	-520	412	--	-382	6,514	98	4,941	8,572
Natural Gasoline	15,259	-613	--	4	--	372	4,961	3,907	5,410	20,557
Refinery Olefins	--	--	9,614	501	--	716	--	--	9,399	8,209
Ethylene	--	--	16	--	--	0	--	--	16	0
Propylene	--	--	9,433	394	--	820	--	--	9,007	6,111
Normal Butylene	--	--	175	107	--	-99	--	--	381	2,013
Isobutylene	--	--	-10	--	--	-5	--	--	-5	85
Other Liquids	--	37,629	--	27,277	2,956	-791	51,272	18,940	-1,559	328,097
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	37,634	--	1,405	3,687	777	36,221	5,728	0	30,394
Hydrogen	--	--	--	--	6,652	--	6,652	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	2,337	--	409	-625	170	--	1,951	0	1,180
Renewable Fuels (including Fuel Ethanol) ...	--	35,297	--	996	-2,377	610	29,529	3,776	0	29,201
Fuel Ethanol ⁵	--	31,514	--	236	-372	4	27,754	3,620	0	23,679
Renewable Fuels Except Fuel Ethanol	--	3,783	--	760	-2,005	606	1,775	156	0	5,522
Other Hydrocarbons	--	--	--	--	37	-3	40	--	0	13
Unfinished Oils	--	--	--	17,445	--	-102	7,767	11,334	-1,554	91,931
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	-5	--	8,427	-731	-1,475	7,288	1,878	0	205,738
Reformulated	--	-1	--	3,765	9,704	99	13,361	8	0	49,439
Conventional	--	-4	--	4,662	-10,435	-1,574	-6,073	1,870	0	156,299
Aviation Gasoline Blend. Comp.	--	--	--	--	--	9	-4	--	-5	34
Finished Petroleum Products	--	148	611,123	17,759	3,315	283	--	113,228	518,834	275,220
Finished Motor Gasoline	--	148	307,190	871	1,103	-647	--	32,539	277,420	24,267
Reformulated	--	--	97,120	--	-10,131	-5	--	--	86,994	47
Conventional	--	148	210,070	871	11,234	-642	--	32,539	190,426	24,220
Finished Aviation Gasoline	--	--	349	4	--	131	--	--	222	992
Kerosene-Type Jet Fuel	--	--	53,060	3,096	--	-2,919	--	6,008	53,067	39,303
Kerosene	--	--	433	--	--	159	--	248	26	2,592
Distillate Fuel Oil ⁵	--	--	160,503	6,799	2,212	2,173	--	43,514	123,827	126,356
15 ppm sulfur and under	--	--	150,531	6,365	2,212	2,553	--	36,342	120,213	111,210
Greater than 15 ppm to 500 ppm sulfur	--	--	3,901	45	--	-44	--	3,871	119	4,691
Greater than 500 ppm sulfur	--	--	6,071	389	--	-336	--	3,301	3,495	10,455
Residual Fuel Oil ⁶	--	--	13,493	4,254	--	559	--	7,585	9,603	29,793
Less than 0.31 percent sulfur	--	--	1,786	288	--	-150	--	NA	NA	2,189
0.31 to 1.00 percent sulfur	--	--	1,670	810	--	38	--	NA	NA	4,929
Greater than 1.00 percent sulfur	--	--	10,037	3,156	--	669	--	NA	NA	22,665
Petrochemical Feedstocks	--	--	9,756	379	--	222	--	--	9,913	3,608
Naphtha for Petro. Feed. Use	--	--	6,504	287	--	74	--	--	6,717	2,445
Other Oils for Petro. Feed. Use	--	--	3,252	92	--	148	--	--	3,196	1,163
Special Naphthas	--	--	1,110	135	--	128	--	--	1,117	1,200
Lubricants	--	--	5,195	1,146	--	-444	--	2,716	4,069	13,146
Waxes	--	--	146	193	--	4	--	121	214	691
Petroleum Coke	--	--	26,718	90	--	-831	--	19,389	8,250	7,575
Marketable	--	--	19,733	90	--	-831	--	19,389	1,265	7,575
Catalyst	--	--	6,985	--	--	--	--	--	6,985	--
Asphalt and Road Oil	--	--	9,729	791	--	1,777	--	1,086	7,657	25,086
Still Gas	--	--	20,572	--	--	--	--	--	20,572	--
Miscellaneous Products	--	--	2,869	1	--	-29	--	21	2,878	611
Total	494,118	37,164	622,977	276,404	28,309	-5,762	588,224	260,069	616,440	1,910,332

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

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

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil

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

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

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

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

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

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

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

Commodity	Supply					Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³	
Crude Oil⁴	3,629,276	--	--	2,611,230	80,970	14,218	5,653,698	653,560	0	1,098,174
Hydrocarbon Gas Liquids	1,448,588	-6,971	219,868	62,771	--	17,937	187,090	535,197	984,032	208,841
Natural Gas Liquids	1,448,588	-6,971	121,628	54,881	--	15,808	187,090	535,197	880,031	200,632
Ethane	569,292	--	2,063	--	--	-5,107	--	85,247	491,215	50,512
Propane	463,052	--	100,653	44,045	--	11,558	--	320,539	275,653	73,905
Normal Butane	120,127	--	23,242	7,186	--	8,765	58,086	65,705	17,999	47,086
Isobutane	128,424	--	-4,330	3,595	--	179	73,036	1,588	52,886	8,572
Natural Gasoline	167,693	-6,971	--	55	--	413	55,968	62,119	42,277	20,557
Refinery Olefins	--	--	98,240	7,890	--	2,129	--	--	104,001	8,209
Ethylene	--	--	64	--	--	0	--	--	64	0
Propylene	--	--	97,183	5,908	--	1,269	--	--	101,822	6,111
Normal Butylene	--	--	1,062	1,982	--	805	--	--	2,239	2,013
Isobutylene	--	--	-69	--	--	55	--	--	-124	85
Other Liquids	--	416,377	--	437,581	10,557	-357	685,961	178,281	631	328,097
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	416,422	--	11,858	36,603	323	401,854	62,707	0	30,394
Hydrogen	--	--	--	--	73,651	--	73,651	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	26,133	--	3,329	-7,059	-266	--	22,669	0	1,180
Renewable Fuels (including Fuel Ethanol) ...	--	390,289	--	8,434	-30,223	623	327,840	40,037	0	29,201
Fuel Ethanol ⁵	--	350,664	--	1,039	-4,972	631	308,455	37,645	0	23,679
Renewable Fuels Except Fuel Ethanol	--	39,625	--	7,395	-25,252	-8	19,385	2,392	0	5,522
Other Hydrocarbons	--	--	--	95	234	-34	363	--	0	13
Unfinished Oils	--	--	--	207,508	--	5,671	106,719	94,201	917	91,931
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	-45	--	218,215	-26,046	-6,370	177,121	21,373	0	205,738
Reformulated	--	-1	--	59,590	51,501	-4,016	114,943	163	0	49,439
Conventional	--	-44	--	158,625	-77,547	-2,354	62,178	21,210	0	156,299
Aviation Gasoline Blend. Comp.	--	--	--	--	--	19	267	--	-286	34
Finished Petroleum Products	--	1,728	6,685,472	232,504	56,439	-16,417	--	1,146,779	5,845,781	275,220
Finished Motor Gasoline	--	1,728	3,360,756	15,493	31,018	-374	--	293,649	3,115,720	24,267
Reformulated	--	--	1,087,531	--	-47,448	7	--	--	1,040,076	47
Conventional	--	1,728	2,273,225	15,493	78,466	-381	--	293,649	2,075,644	24,220
Finished Aviation Gasoline	--	--	3,939	66	--	-49	--	--	4,054	992
Kerosene-Type Jet Fuel	--	--	602,270	43,026	--	-1,915	--	74,385	572,826	39,303
Kerosene	--	--	2,958	616	--	454	--	1,326	1,794	2,592
Distillate Fuel Oil ⁵	--	--	1,713,442	57,852	25,422	-19,218	--	432,034	1,383,900	126,356
15 ppm sulfur and under	--	--	1,609,102	50,231	25,422	-16,681	--	364,800	1,336,636	111,210
Greater than 15 ppm to 500 ppm sulfur	--	--	32,912	1,036	--	-2,878	--	32,734	4,092	4,691
Greater than 500 ppm sulfur	--	--	71,428	6,585	--	341	--	34,500	43,172	10,455
Residual Fuel Oil ⁶	--	--	141,269	71,278	--	434	--	107,276	104,837	29,793
Less than 0.31 percent sulfur	--	--	20,152	8,570	--	41	--	NA	NA	2,189
0.31 to 1.00 percent sulfur	--	--	21,235	5,886	--	-1,672	--	NA	NA	4,929
Greater than 1.00 percent sulfur	--	--	99,882	56,822	--	2,061	--	NA	NA	22,665
Petrochemical Feedstocks	--	--	106,238	7,239	--	707	--	--	112,770	3,608
Naphtha for Petro. Feed. Use	--	--	69,681	5,919	--	596	--	--	75,004	2,445
Other Oils for Petro. Feed. Use	--	--	36,557	1,320	--	111	--	--	37,766	1,163
Special Naphthas	--	--	12,010	4,500	--	8	--	--	16,502	1,200
Lubricants	--	--	61,702	14,374	--	1,125	--	36,851	38,100	13,146
Waxes	--	--	1,543	1,652	--	-166	--	1,424	1,937	691
Petroleum Coke	--	--	300,180	3,628	--	-944	--	191,543	113,209	7,575
Marketable	--	--	222,607	3,628	--	-944	--	191,543	35,636	7,575
Catalyst	--	--	77,573	--	--	--	--	--	77,573	--
Asphalt and Road Oil	--	--	113,394	12,702	--	3,580	--	7,959	114,557	25,086
Still Gas	--	--	234,418	--	--	--	--	--	234,418	--
Miscellaneous Products	--	--	31,353	78	--	-59	--	334	31,156	611
Total	5,077,864	411,134	6,905,340	3,344,086	147,966	15,381	6,526,749	2,513,817	6,830,444	1,910,332

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

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

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil

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

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

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

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

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

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

Table 3. U.S. Daily Average Supply and Disposition of Crude Oil and Petroleum Products, November 2018
(Thousand Barrels per Day)

Commodity	Supply					Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³
Crude Oil⁴	11,900	--	--	7,490	735	363	17,152	2,609	0
Hydrocarbon Gas Liquids	4,571	-20	395	222	--	-538	746	1,654	3,306
Natural Gas Liquids	4,571	-20	75	206	--	-562	746	1,654	2,992
Ethane	1,795	--	7	--	--	6	--	230	1,567
Propane	1,478	--	294	151	--	-162	--	1,077	1,007
Normal Butane	413	--	-209	41	--	-406	363	214	73
Isobutane	376	--	-17	14	--	-13	217	3	165
Natural Gasoline	509	-20	--	0	--	12	165	130	180
Refinery Olefins	--	--	320	17	--	24	--	--	313
Ethylene	--	--	1	--	--	0	--	--	1
Propylene	--	--	314	13	--	27	--	--	300
Normal Butylene	--	--	6	4	--	-3	--	--	13
Isobutylene	--	--	0	--	--	0	--	--	0
Other Liquids	--	1,254	--	909	99	-26	1,709	631	-52
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,254	--	47	123	26	1,207	191	0
Hydrogen	--	--	--	--	222	--	222	--	0
Oxygenates (excluding Fuel Ethanol)	--	78	--	14	-21	6	--	65	0
Renewable Fuels (including Fuel Ethanol)	--	1,177	--	33	-79	20	984	126	0
Fuel Ethanol ⁵	--	1,050	--	8	-12	0	925	121	0
Renewable Fuels Except Fuel Ethanol	--	126	--	25	-67	20	59	5	0
Other Hydrocarbons	--	--	--	--	1	0	1	--	0
Unfinished Oils	--	--	--	582	--	-3	259	378	-52
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	0	--	281	-24	-49	243	63	0
Reformulated	--	0	--	126	323	3	445	0	0
Conventional	--	0	--	155	-348	-52	-202	62	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	5	20,371	592	111	9	--	3,774	17,294
Finished Motor Gasoline	--	5	10,240	29	37	-22	--	1,085	9,247
Reformulated	--	--	3,237	--	-338	0	--	--	2,900
Conventional	--	5	7,002	29	374	-21	--	1,085	6,348
Finished Aviation Gasoline	--	--	12	0	--	4	--	--	7
Kerosene-Type Jet Fuel	--	--	1,769	103	--	-97	--	200	1,769
Kerosene	--	--	14	--	--	5	--	8	1
Distillate Fuel Oil ⁵	--	--	5,350	227	74	72	--	1,450	4,128
15 ppm sulfur and under	--	--	5,018	212	74	85	--	1,211	4,007
Greater than 15 ppm to 500 ppm sulfur	--	--	130	2	--	-1	--	129	4
Greater than 500 ppm sulfur	--	--	202	13	--	-11	--	110	116
Residual Fuel Oil ⁶	--	--	450	142	--	19	--	253	320
Less than 0.31 percent sulfur	--	--	60	10	--	-5	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	56	27	--	1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	335	105	--	22	--	NA	NA
Petrochemical Feedstocks	--	--	325	13	--	7	--	--	330
Naphtha for Petro. Feed. Use	--	--	217	10	--	2	--	--	224
Other Oils for Petro. Feed. Use	--	--	108	3	--	5	--	--	107
Special Naphthas	--	--	37	5	--	4	--	--	37
Lubricants	--	--	173	38	--	-15	--	91	136
Waxes	--	--	5	6	--	0	--	4	7
Petroleum Coke	--	--	891	3	--	-28	--	646	275
Marketable	--	--	658	3	--	-28	--	646	42
Catalyst	--	--	233	--	--	--	--	--	233
Asphalt and Road Oil	--	--	324	26	--	59	--	36	255
Still Gas	--	--	686	--	--	--	--	--	686
Miscellaneous Products	--	--	96	0	--	-1	--	1	96
Total	16,471	1,239	20,766	9,213	944	-192	19,607	8,669	20,548

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

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

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

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

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

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

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

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

Commodity	Supply					Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³
Crude Oil⁴	10,866	--	--	7,818	242	43	16,927	1,957	0
Hydrocarbon Gas Liquids	4,337	-21	658	188	--	54	560	1,602	2,946
Natural Gas Liquids	4,337	-21	364	164	--	47	560	1,602	2,635
Ethane	1,704	--	--	--	--	-15	--	255	1,471
Propane	1,386	--	301	132	--	35	--	960	825
Normal Butane	360	--	70	22	--	26	174	197	54
Isobutane	385	--	-288	11	--	1	219	5	158
Natural Gasoline	502	-21	--	0	--	1	168	186	127
Refinery Olefins	--	--	294	24	--	6	--	--	311
Ethylene	--	--	0	--	--	0	--	--	0
Propylene	--	--	291	18	--	4	--	--	305
Normal Butylene	--	--	3	6	--	2	--	--	7
Isobutylene	--	--	301	--	--	0	--	--	0
Other Liquids	--	1,247	--	1,310	32	-1	2,054	534	2
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,247	--	36	110	1	1,203	188	0
Hydrogen	--	--	--	--	221	--	221	--	0
Oxygenates (excluding Fuel Ethanol)	--	78	--	10	-21	-1	--	68	0
Renewable Fuels (including Fuel Ethanol)	--	1,169	--	25	-90	2	982	120	0
Fuel Ethanol ⁵	--	1,050	--	3	-15	2	924	113	0
Renewable Fuels Except Fuel Ethanol	--	119	--	22	-76	0	58	7	0
Other Hydrocarbons	--	--	--	0	1	0	1	--	0
Unfinished Oils	--	--	--	621	--	17	320	282	3
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	0	--	653	-78	-19	530	64	0
Reformulated	--	0	--	178	154	-12	344	0	0
Conventional	--	0	--	475	-232	-7	186	64	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	0	1	--	-1
Finished Petroleum Products	--	5	20,016	696	169	-49	--	3,433	17,502
Finished Motor Gasoline	--	5	10,062	46	93	-1	--	879	9,329
Reformulated	--	--	3,256	--	-142	0	--	--	3,114
Conventional	--	5	6,806	46	235	-1	--	879	6,215
Finished Aviation Gasoline	--	--	12	0	--	0	--	--	12
Kerosene-Type Jet Fuel	--	--	1,803	129	--	-6	--	223	1,715
Kerosene	--	--	9	2	--	1	--	4	5
Distillate Fuel Oil ⁵	--	--	5,130	173	76	-58	--	1,294	4,143
15 ppm sulfur and under	--	--	4,818	150	76	-50	--	1,092	4,002
Greater than 15 ppm to 500 ppm sulfur	--	--	99	3	--	-9	--	98	12
Greater than 500 ppm sulfur	--	--	214	20	--	1	--	103	129
Residual Fuel Oil ⁶	--	--	423	213	--	1	--	321	314
Less than 0.31 percent sulfur	--	--	60	26	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	64	18	--	-5	--	NA	NA
Greater than 1.00 percent sulfur	--	--	299	170	--	6	--	NA	NA
Petrochemical Feedstocks	--	--	318	22	--	2	--	--	338
Naphtha for Petro. Feed. Use	--	--	209	18	--	2	--	--	225
Other Oils for Petro. Feed. Use	--	--	109	4	--	0	--	--	113
Special Naphthas	--	--	36	13	--	0	--	--	49
Lubricants	--	--	185	43	--	3	--	110	114
Waxes	--	--	5	5	--	0	--	4	6
Petroleum Coke	--	--	899	11	--	-3	--	573	339
Marketable	--	--	666	11	--	-3	--	573	107
Catalyst	--	--	232	--	--	--	--	--	232
Asphalt and Road Oil	--	--	340	38	--	11	--	24	343
Still Gas	--	--	702	--	--	--	--	--	702
Miscellaneous Products	--	--	94	0	--	0	--	1	93
Total	15,203	1,231	20,675	10,012	443	46	19,541	7,526	20,450

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

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

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

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

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

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

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

Table 5. PAD District 1 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, November 2018
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	1,887	--	--	24,976	2,957	1,938	1,336	30,253	170	0	12,290
Hydrocarbon Gas Liquids	16,213	-14	903	1,653	-1,902	--	-43	1,908	3,386	11,602	10,416
Natural Gas Liquids	16,213	-14	430	1,620	-2,198	--	-19	1,908	3,386	10,776	10,118
Ethane	6,971	--	--	--	--	--	-60	--	1,392	-13	623
Propane	5,316	--	603	1,382	3,291	--	135	--	1,569	8,888	7,173
Normal Butane	1,621	--	-175	141	612	--	-250	1,530	155	764	1,769
Isobutane	801	--	2	97	-162	--	123	244	1	370	256
Natural Gasoline	1,504	-14	--	--	-287	--	33	134	269	767	297
Refinery Olefins	--	--	473	33	--	--	-24	--	--	826	298
Ethylene	--	--	16	--	--	--	--	--	--	16	--
Propylene	--	--	467	33	--	--	-3	--	--	799	128
Normal Butylene	--	--	-34	--	--	--	-16	--	--	-18	130
Isobutylene	--	--	24	--	--	--	-5	--	--	29	40
Other Liquids	--	944	--	9,253	60,296	7,788	-5,286	82,345	313	909	70,914
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	947	--	155	9,748	-385	-476	10,655	286	0	8,409
Hydrogen	--	--	--	--	--	105	--	105	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0	--
Renewable Fuels (including Fuel Ethanol)	--	947	--	155	9,748	-490	-476	10,550	286	0	8,409
Fuel Ethanol	--	701	--	--	9,640	-361	-443	10,189	234	0	7,152
Renewable Fuels Except Fuel Ethanol	--	246	--	155	108	-129	-33	361	52	0	1,257
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	1,620	-27	--	-437	1,099	22	909	5,356
Motor Gasoline Blend.Comp. (MGBC)	--	-3	--	7,478	50,575	8,173	-4,373	70,591	5	0	57,149
Reformulated	--	--	--	3,750	8,053	3,514	-1,284	16,597	4	0	20,161
Conventional	--	-3	--	3,728	42,522	4,660	-3,089	53,994	2	0	36,988
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	115,114	9,386	51,671	-7,682	-2,112	--	2,968	167,632	70,971
Finished Motor Gasoline	--	--	97,354	678	8,039	-7,812	-1,127	--	263	99,122	3,714
Reformulated	--	--	39,085	--	--	-3,653	-6	--	--	35,438	29
Conventional	--	--	58,269	678	8,039	-4,159	-1,121	--	263	63,684	3,685
Finished Aviation Gasoline	--	--	--	1	83	--	-1	--	--	85	125
Kerosene-Type Jet Fuel	--	--	1,883	973	15,953	--	-2,143	--	736	20,216	8,371
Kerosene	--	--	150	--	109	--	58	--	67	134	2,207
Distillate Fuel Oil ⁶	--	--	10,457	5,592	25,439	130	827	--	925	39,866	42,570
15 ppm sulfur and under	--	--	9,705	5,269	23,943	130	1,188	--	505	37,355	36,628
Greater than 15 ppm to 500 ppm sulfur	--	--	250	45	265	--	-125	--	420	265	2,022
Greater than 500 ppm sulfur	--	--	502	278	1,231	--	-236	--	--	2,247	3,920
Residual Fuel Oil ⁷	--	--	1,207	1,495	-166	--	-239	--	188	2,587	6,445
Less than 0.31 percent sulfur	--	--	463	--	--	--	-45	--	NA	NA	849
0.31 to 1.00 percent sulfur	--	--	337	260	--	--	305	--	NA	NA	1,321
Greater than 1.00 percent sulfur	--	--	407	1,235	-166	--	-499	--	NA	NA	4,275
Petrochemical Feedstocks	--	--	104	--	36	--	17	--	--	123	114
Naphtha for Petro. Feed. Use	--	--	104	--	36	--	17	--	--	123	114
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	18	--	--	--	0	--	--	18	37
Lubricants	--	--	410	112	329	--	25	--	158	668	1,215
Waxes	--	--	26	127	--	--	-2	--	64	91	388
Petroleum Coke	--	--	1,069	1	447	--	--	--	495	1,022	--
Marketable	--	--	420	1	447	--	--	--	495	373	--
Catalyst	--	--	649	--	--	--	--	--	--	649	--
Asphalt and Road Oil	--	--	1,109	407	1,401	--	467	--	59	2,391	5,753
Still Gas	--	--	1,227	--	--	--	--	--	--	1,227	--
Miscellaneous Products	--	--	100	--	--	--	6	--	13	81	32
Total	18,100	930	116,017	45,268	113,022	2,045	-6,105	114,506	6,837	180,144	164,591

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See

Appendix B, Note 2C for a detailed explanation of these adjustments.

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

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

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

D.

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

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

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

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

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	19,099	--	--	267,808	54,929	17,841	811	349,707	9,159	0	12,290
Hydrocarbon Gas Liquids	166,479	-149	12,472	15,279	-23,293	--	1,939	14,432	33,784	120,633	10,416
Natural Gas Liquids	166,479	-149	8,678	13,358	-26,455	--	1,973	14,432	33,784	111,722	--
Ethane	72,307	--	--	--	--	--	169	--	10,367	3,046	--
Propane	54,230	--	7,120	11,761	33,092	--	1,328	--	19,361	85,514	--
Normal Butane	16,375	--	1,846	519	2,791	--	419	8,734	3,019	9,359	--
Isobutane	8,128	--	-288	1,078	-1,291	--	80	4,374	11	3,162	--
Natural Gasoline	15,439	-149	--	--	-2,322	--	-23	1,324	1,027	10,640	--
Refinery Olefins	--	--	3,794	1,921	--	--	-34	--	--	8,911	--
Ethylene	--	--	57	--	--	--	--	--	--	57	--
Propylene	--	--	3,849	1,921	--	--	-26	--	--	8,958	--
Normal Butylene	--	--	-413	--	--	--	-18	--	--	-395	--
Isobutylene	--	--	301	--	--	--	10	--	--	291	--
Other Liquids	--	10,648	--	202,859	636,263	67,916	1,786	913,175	3,294	-568	70,914
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	10,681	--	1,867	105,785	-414	-401	116,969	1,352	0	8,409
Hydrogen	--	--	--	--	--	1,135	--	1,135	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	13	--	--	13	0	--
Renewable Fuels (including Fuel Ethanol)	--	10,681	--	1,867	105,785	-1,636	-401	115,834	1,338	0	8,409
Fuel Ethanol	--	8,225	--	--	103,987	1,636	138	112,511	1,199	0	7,152
Renewable Fuels Except Fuel Ethanol	--	2,456	--	1,867	1,798	-3,199	-539	3,323	139	0	1,257
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	14,299	-67	--	143	14,271	386	-568	5,356
Motor Gasoline Blend.Comp. (MGBC)	--	-33	--	186,693	530,545	68,330	2,044	781,935	1,556	0	57,149
Reformulated	--	--	--	58,560	86,425	29,265	298	173,924	28	0	20,161
Conventional	--	-33	--	128,133	444,120	39,065	1,746	608,011	1,528	0	36,988
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	1,280,046	119,216	520,894	-66,756	-12,108	--	45,416	1,820,091	70,971
Finished Motor Gasoline	--	--	1,079,751	12,702	72,018	-69,966	-1,791	--	1,948	1,094,348	3,714
Reformulated	--	--	434,880	--	--	-24,472	5	--	--	410,403	29
Conventional	--	--	644,871	12,702	72,018	-45,494	-1,796	--	1,948	683,945	3,685
Finished Aviation Gasoline	--	--	--	29	1,011	--	-50	--	--	1,090	125
Kerosene-Type Jet Fuel	--	--	29,562	15,989	166,111	--	-1,138	--	4,821	207,979	8,371
Kerosene	--	--	1,352	614	1,310	--	409	--	106	2,761	2,207
Distillate Fuel Oil ⁶	--	--	109,236	48,396	258,709	3,210	-10,107	--	12,065	417,593	42,570
15 ppm sulfur and under	--	--	100,177	42,882	239,184	3,210	-7,230	--	7,353	385,330	36,628
Greater than 15 ppm to 500 ppm sulfur	--	--	1,200	1,036	1,099	--	-2,570	--	2,591	3,314	2,022
Greater than 500 ppm sulfur	--	--	7,859	4,478	18,426	--	-307	--	2,121	28,949	3,920
Residual Fuel Oil ⁷	--	--	15,768	30,395	-1,927	--	-859	--	13,772	31,323	6,445
Less than 0.31 percent sulfur	--	--	4,342	692	-91	--	-341	--	NA	NA	849
0.31 to 1.00 percent sulfur	--	--	4,953	1,679	-1,078	--	-105	--	NA	NA	1,321
Greater than 1.00 percent sulfur	--	--	6,473	28,024	-758	--	-413	--	NA	NA	4,275
Petrochemical Feedstocks	--	--	1,049	13	135	--	16	--	--	1,181	114
Naphtha for Petro. Feed. Use	--	--	1,049	12	144	--	16	--	--	1,189	114
Other Oils for Petro. Feed. Use	--	--	--	1	-9	--	--	--	--	-8	--
Special Naphthas	--	--	228	7	--	--	-10	--	--	245	37
Lubricants	--	--	4,429	1,686	4,523	--	153	--	2,697	7,788	1,215
Waxes	--	--	163	844	--	--	-139	--	743	403	388
Petroleum Coke	--	--	11,305	190	5,037	--	--	--	8,312	8,220	--
Marketable	--	--	4,350	190	5,037	--	--	--	8,312	1,265	--
Catalyst	--	--	6,955	--	--	--	--	--	--	6,955	--
Asphalt and Road Oil	--	--	11,718	8,351	13,967	--	1,405	--	803	31,828	5,753
Still Gas	--	--	14,414	--	--	--	--	--	--	14,414	--
Miscellaneous Products	--	--	1,071	--	--	--	3	--	150	918	32
Total	185,578	10,499	1,292,518	605,162	1,188,793	19,000	-7,572	1,277,314	91,654	1,940,155	164,591

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See

Appendix B, Note 2C for a detailed explanation of these adjustments.

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

biodiesel, marketable petroleum coke, and asphalt and road oil

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

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

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

D.

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

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

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

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

Table 7. PAD District 1 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, November 2018
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	63	--	--	833	99	65	45	1,008	6	0
Hydrocarbon Gas Liquids	540	0	30	55	-63	--	-1	64	113	387
Natural Gas Liquids	540	0	14	54	-73	--	-1	64	113	359
Ethane	232	--	--	--	--	--	-2	--	46	0
Propane	177	--	20	46	110	--	5	--	--	296
Normal Butane	54	--	-6	5	20	--	-8	51	5	25
Isobutane	27	--	0	3	-5	--	4	8	0	12
Natural Gasoline	50	0	--	--	-10	--	1	4	9	26
Refinery Olefins	--	--	16	1	--	--	-1	--	--	28
Ethylene	--	--	1	--	--	--	--	--	--	1
Propylene	--	--	16	1	10	--	0	--	--	27
Normal Butylene	--	--	-1	--	--	--	-1	--	--	-1
Isobutylene	--	--	1	--	--	--	0	--	--	1
Other Liquids	--	31	--	308	2,010	260	-176	2,745	10	30
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	32	--	5	325	-13	-16	355	10	0
Hydrogen	--	--	--	--	--	4	--	4	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	32	--	5	325	-16	-16	352	10	0
Fuel Ethanol ⁶	--	23	--	--	321	-12	-15	340	8	0
Renewable Fuels Except Fuel Ethanol	--	8	--	5	4	-4	-1	12	2	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	54	-1	--	-15	37	1	30
Motor Gasoline Blend.Comp. (MGBC) ⁶	--	0	--	249	1,686	272	-146	2,353	0	0
Reformulated	--	--	--	125	268	117	-43	553	0	0
Conventional	--	0	--	124	1,417	155	-103	1,800	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,837	313	1,722	-256	-70	--	99	5,588
Finished Motor Gasoline	--	--	3,245	23	268	-260	-38	--	9	3,304
Reformulated	--	--	1,303	--	--	-122	0	--	--	1,181
Conventional	--	--	1,942	23	268	-139	-37	--	9	2,123
Finished Aviation Gasoline	--	--	--	0	3	--	0	--	--	3
Kerosene-Type Jet Fuel	--	--	63	32	532	--	-71	--	25	674
Kerosene	--	--	5	--	4	--	2	--	2	4
Distillate Fuel Oil ⁶	--	--	349	186	848	4	28	--	31	1,329
15 ppm sulfur and under	--	--	324	176	798	4	40	--	17	1,245
Greater than 15 ppm to 500 ppm sulfur	--	--	8	2	9	--	-4	--	14	9
Greater than 500 ppm sulfur	--	--	17	9	41	--	-8	--	--	75
Residual Fuel Oil ⁷	--	--	40	50	-6	--	-8	--	6	86
Less than 0.31 percent sulfur	--	--	15	--	--	--	-2	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	11	9	--	--	10	--	NA	NA
Greater than 1.00 percent sulfur	--	--	14	41	-6	--	-17	--	NA	NA
Petrochemical Feedstocks	--	--	3	--	1	--	1	--	--	4
Naptha for Petro. Feed. Use	--	--	3	--	1	--	1	--	--	4
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	1	--	--	--	0	--	--	1
Lubricants	--	--	14	4	11	--	1	--	5	22
Waxes	--	--	1	4	--	--	0	--	2	3
Petroleum Coke	--	--	36	0	15	--	--	--	17	34
Marketable	--	--	14	0	15	--	--	--	17	12
Catalyst	--	--	22	--	--	--	--	--	--	22
Asphalt and Road Oil	--	--	37	14	47	--	16	--	2	80
Still Gas	--	--	41	--	--	--	--	--	--	41
Miscellaneous Products	--	--	3	--	--	--	0	--	0	3
Total	603	31	3,867	1,509	3,767	68	-204	3,817	228	6,005

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

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

Table 8. PAD District 1 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-November 2018
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	57	--	--	802	164	53	2	1,047	27	0
Hydrocarbon Gas Liquids	498	0	37	46	-70	--	6	43	101	361
Natural Gas Liquids	498	0	26	40	-79	--	6	43	101	334
Ethane	216	--	--	--	--	--	1	--	31	9
Propane	162	--	21	35	99	--	4	--	--	256
Normal Butane	49	--	6	2	8	--	1	26	9	28
Isobutane	24	--	-1	3	-4	--	0	13	0	9
Natural Gasoline	46	0	--	--	-7	--	0	4	3	32
Refinery Olefins	--	--	11	6	--	--	0	--	--	27
Ethylene	--	--	0	--	--	--	--	--	--	0
Propylene	--	--	12	6	9	--	0	--	--	27
Normal Butylene	--	--	-1	--	--	--	0	--	--	-1
Isobutylene	--	--	1	--	--	--	0	--	--	1
Other Liquids	--	32	--	607	1,905	203	5	2,734	10	-2
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	32	--	6	317	-1	-1	350	4	0
Hydrogen	--	--	--	--	--	3	--	3	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	32	--	6	317	-5	-1	347	4	0
Fuel Ethanol ⁶	--	25	--	--	311	5	0	337	4	0
Renewable Fuels Except Fuel Ethanol	--	7	--	6	5	-10	-2	10	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	43	0	--	0	43	1	-2
Motor Gasoline Blend.Comp. (MGBC) ⁶	--	0	--	559	1,588	205	6	2,341	5	0
Reformulated	--	--	--	175	259	88	1	521	0	0
Conventional	--	0	--	384	1,330	117	5	1,820	5	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,832	357	1,560	-200	-36	--	136	5,449
Finished Motor Gasoline	--	--	3,233	38	216	-209	-5	--	6	3,276
Reformulated	--	--	1,302	--	--	-73	0	--	--	1,229
Conventional	--	--	1,931	38	216	-136	-5	--	6	2,048
Finished Aviation Gasoline	--	--	--	0	3	--	0	--	--	3
Kerosene-Type Jet Fuel	--	--	89	48	497	--	-3	--	14	623
Kerosene	--	--	4	2	4	--	1	--	0	8
Distillate Fuel Oil ⁶	--	--	327	145	775	10	-30	--	36	1,250
15 ppm sulfur and under	--	--	300	128	716	10	-22	--	22	1,154
Greater than 15 ppm to 500 ppm sulfur	--	--	4	3	3	--	-8	--	8	10
Greater than 500 ppm sulfur	--	--	24	13	55	--	-1	--	6	87
Residual Fuel Oil ⁷	--	--	47	91	-6	--	-3	--	41	94
Less than 0.31 percent sulfur	--	--	13	2	0	--	-1	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	15	5	-3	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	19	84	-2	--	-1	--	NA	NA
Petrochemical Feedstocks	--	--	3	0	0	--	0	--	--	4
Naphtha for Petro. Feed. Use	--	--	3	0	0	--	0	--	--	4
Other Oils for Petro. Feed. Use	--	--	--	0	0	--	--	--	--	0
Special Naphthas	--	--	1	0	--	--	0	--	--	1
Lubricants	--	--	13	5	14	--	0	--	8	23
Waxes	--	--	0	3	--	--	0	--	2	1
Petroleum Coke	--	--	34	1	15	--	--	--	25	25
Marketable	--	--	13	1	15	--	--	--	25	4
Catalyst	--	--	21	--	--	--	--	--	--	21
Asphalt and Road Oil	--	--	35	25	42	--	4	--	2	95
Still Gas	--	--	43	--	--	--	--	--	--	43
Miscellaneous Products	--	--	3	--	--	--	0	--	0	3
Total	556	31	3,870	1,812	3,559	57	-23	3,824	274	5,809

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

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

Table 9. PAD District 2 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, November 2018
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	65,026	--	--	86,983	-17,454	-4,982	4,374	114,588	10,612	0	129,413
Hydrocarbon Gas Liquids	29,987	-561	577	2,899	-10,425	--	-6,940	4,075	7,097	18,245	55,797
Natural Gas Liquids	29,987	-561	-872	2,502	-9,632	--	-7,062	4,075	7,097	17,314	55,276
Ethane	10,313	--	--	--	--	--	-940	--	3,263	4,669	4,543
Propane	10,839	--	2,164	1,808	-6,450	--	-2,376	--	159	10,578	24,030
Normal Butane	3,831	--	-2,955	450	-1,948	--	-3,784	1,487	149	1,526	15,224
Isobutane	1,624	--	-81	240	167	--	-93	1,568	0	475	1,838
Natural Gasoline	3,380	-561	--	4	1,920	--	131	1,020	3,526	66	9,641
Refinery Olefins	--	--	1,449	397	--	--	122	--	--	931	521
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	1,315	361	--	--	39	--	--	844	373
Normal Butylene	--	--	133	36	--	--	82	--	--	87	103
Isobutylene	--	--	1	--	--	--	1	--	--	0	45
Other Liquids	--	31,613	--	374	-13,806	-2,865	1,705	14,133	1,980	-2,502	66,388
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	31,615	--	95	-19,746	-2,140	34	9,092	698	0	8,815
Hydrogen	--	--	--	--	--	1,133	--	1,133	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	3	0	--	3	0	4
Renewable Fuels (including Fuel Ethanol)	--	31,615	--	95	-19,746	-3,313	37	7,919	695	0	8,798
Fuel Ethanol	--	29,101	--	--	-19,045	-1,931	-79	7,529	675	0	7,854
Renewable Fuels Except Fuel Ethanol	--	2,514	--	95	-701	-1,383	116	390	20	0	944
Other Hydrocarbons	--	--	--	--	--	37	-3	40	--	0	13
Unfinished Oils	--	--	--	74	-1,038	--	766	-508	1,280	-2,502	14,844
Motor Gasoline Blend.Comp. (MGBC)	--	-2	--	205	6,978	-725	905	5,549	2	0	42,729
Reformulated	--	-1	--	--	2,119	-465	165	1,488	--	0	5,639
Conventional	--	-1	--	205	4,859	-260	740	4,061	2	0	37,090
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	148	139,544	1,145	2,269	4,038	2,100	--	937	144,108	57,340
Finished Motor Gasoline	--	148	78,225	--	148	2,656	497	--	89	80,590	6,293
Reformulated	--	--	11,035	--	--	620	--	--	--	11,655	--
Conventional	--	148	67,190	--	148	2,035	497	--	89	68,935	6,293
Finished Aviation Gasoline	--	--	18	3	27	--	7	--	--	41	149
Kerosene-Type Jet Fuel	--	--	8,407	--	1,310	--	265	--	44	9,408	7,133
Kerosene	--	--	123	--	17	--	-33	--	1	172	127
Distillate Fuel Oil	--	--	35,134	357	3,227	1,383	436	--	64	39,601	27,931
15 ppm sulfur and under	--	--	35,302	246	3,125	1,383	664	--	0	39,391	27,142
Greater than 15 ppm to 500 ppm sulfur	--	--	93	--	102	--	-75	--	24	246	320
Greater than 500 ppm sulfur	--	--	-261	111	--	--	-153	--	39	-36	469
Residual Fuel Oil ⁶	--	--	1,430	186	-712	--	102	--	241	561	1,193
Less than 0.31 percent sulfur	--	--	49	--	--	--	-15	--	NA	NA	66
0.31 to 1.00 percent sulfur	--	--	202	41	--	--	-20	--	NA	NA	144
Greater than 1.00 percent sulfur	--	--	1,179	145	-712	--	137	--	NA	NA	983
Petrochemical Feedstocks	--	--	891	162	-156	--	-11	--	--	908	609
Naphtha for Petro. Feed. Use	--	--	637	74	-133	--	-13	--	--	591	476
Other Oils for Petro. Feed. Use	--	--	254	88	-23	--	2	--	--	317	133
Special Naphthas	--	--	77	10	10	--	-1	--	--	98	159
Lubricants	--	--	221	100	103	--	58	--	170	196	973
Waxes	--	--	36	12	--	--	-1	--	30	19	51
Petroleum Coke	--	--	5,607	12	-836	--	-79	--	199	4,663	1,322
Marketable	--	--	4,183	12	-836	--	-79	--	199	3,239	1,322
Catalyst	--	--	1,424	--	--	--	--	--	--	1,424	--
Asphalt and Road Oil	--	--	4,557	303	-869	--	834	--	98	3,060	11,292
Still Gas	--	--	4,350	--	--	--	--	--	--	4,350	--
Miscellaneous Products	--	--	468	--	--	--	26	--	1	441	108
Total	95,013	31,200	140,121	91,401	-39,415	-3,809	1,239	132,796	20,626	159,851	308,938

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

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

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

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See

Appendix B, Note 2C for a detailed explanation of these adjustments.

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

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

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

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

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

Table 10. PAD District 2 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-November 2018
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	672,042	--	--	934,528	-200,892	-96,127	-2,330	1,263,397	48,484	0	129,413
Hydrocarbon Gas Liquids	324,931	-6,393	37,764	28,348	-107,324	--	5,668	34,720	95,350	141,588	55,797
Natural Gas Liquids	324,931	-6,393	23,002	23,799	-98,736	--	5,900	34,720	95,350	130,633	--
Ethane	115,587	--	--	--	--	--	-490	--	30,339	39,473	--
Propane	114,575	--	24,412	19,305	-78,146	--	4,011	--	1,532	74,603	--
Normal Butane	38,406	--	0	2,618	-23,458	--	3,409	7,385	3,505	3,324	--
Isobutane	19,529	--	-1,459	1,821	1,538	--	-322	17,087	6	4,658	--
Natural Gasoline	36,834	-6,393	--	55	47,595	--	-708	10,248	59,976	8,575	--
Refinery Olefins	--	--	14,762	4,549	--	--	-232	--	--	10,955	--
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	14,119	3,984	--	--	-265	--	--	9,780	--
Normal Butylene	--	--	680	565	--	--	-12	--	--	1,257	--
Isobutylene	--	--	-37	--	--	--	45	--	--	-82	--
Other Liquids	--	348,583	--	5,957	-131,830	-24,174	-3,132	194,244	28,865	-21,440	66,388
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	348,595	--	712	-226,371	-14,961	-1,563	101,497	8,041	0	8,815
Hydrogen	--	--	--	--	--	12,305	--	12,305	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	12	-3	--	15	0	4
Renewable Fuels (including Fuel Ethanol)	--	348,595	--	686	-226,371	-27,582	-1,526	88,829	8,026	0	8,798
Fuel Ethanol	--	322,256	--	--	-218,518	-14,670	-1,226	83,262	7,032	0	7,854
Renewable Fuels Except Fuel Ethanol	--	26,339	--	686	-7,852	-12,911	-300	5,567	995	0	944
Other Hydrocarbons	--	--	--	26	--	303	-34	363	--	0	13
Unfinished Oils	--	--	--	646	-1,105	--	1,376	-824	20,429	-21,440	14,844
Motor Gasoline Blend.Comp. (MGBC)	--	-12	--	4,599	95,646	-9,212	-2,945	93,571	395	0	42,729
Reformulated	--	-1	--	64	27,020	-13,565	-524	14,041	1	0	5,639
Conventional	--	-11	--	4,535	68,626	4,353	-2,421	79,530	394	0	37,090
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	1,728	1,529,977	10,219	35,873	36,849	863	--	10,903	1,602,879	57,340
Finished Motor Gasoline	--	1,728	868,947	--	4,804	23,883	-243	--	1,967	897,637	6,293
Reformulated	--	--	121,711	--	--	16,160	--	--	--	137,871	--
Conventional	--	1,728	747,236	--	4,804	7,722	-243	--	1,967	759,766	6,293
Finished Aviation Gasoline	--	--	431	28	173	--	-9	--	--	641	149
Kerosene-Type Jet Fuel	--	--	86,944	--	12,905	--	233	--	510	99,106	7,133
Kerosene	--	--	999	2	45	--	7	--	23	1,016	127
Distillate Fuel Oil	--	--	375,324	2,424	42,584	12,966	-864	--	1,305	432,857	27,931
15 ppm sulfur and under	--	--	375,604	1,631	41,305	12,966	-990	--	277	432,219	27,142
Greater than 15 ppm to 500 ppm sulfur	--	--	1,000	--	1,279	--	-4	--	533	1,750	320
Greater than 500 ppm sulfur	--	--	-1,280	793	--	--	130	--	495	-1,112	469
Residual Fuel Oil ⁶	--	--	15,751	1,133	-8,242	--	-40	--	1,692	6,990	1,193
Less than 0.31 percent sulfur	--	--	456	1	-371	--	-43	--	NA	NA	66
0.31 to 1.00 percent sulfur	--	--	2,309	368	-153	--	-40	--	NA	NA	144
Greater than 1.00 percent sulfur	--	--	12,986	764	-7,718	--	43	--	NA	NA	983
Petrochemical Feedstocks	--	--	10,306	1,550	-1,230	--	121	--	--	10,505	609
Naphtha for Petro. Feed. Use	--	--	6,990	768	-986	--	124	--	--	6,648	476
Other Oils for Petro. Feed. Use	--	--	3,316	782	-244	--	-3	--	--	3,857	133
Special Naphthas	--	--	631	380	277	--	58	--	--	1,230	159
Lubricants	--	--	2,319	1,445	2,047	--	90	--	2,159	3,562	973
Waxes	--	--	350	55	--	--	-12	--	357	60	51
Petroleum Coke	--	--	61,944	269	-9,563	--	-195	--	1,714	51,131	1,322
Marketable	--	--	45,867	269	-9,563	--	-195	--	1,714	35,054	1,322
Catalyst	--	--	16,077	--	--	--	--	--	--	16,077	--
Asphalt and Road Oil	--	--	52,698	2,925	-7,990	--	1,734	--	1,156	44,744	11,292
Still Gas	--	--	48,180	--	--	--	--	--	--	48,180	--
Miscellaneous Products	--	--	5,153	8	62	--	-17	--	21	5,219	108
Total	996,973	343,918	1,567,741	979,052	-404,173	-83,452	1,069	1,492,361	183,602	1,723,028	308,938

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See

Appendix B, Note 2C for a detailed explanation of these adjustments.

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

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

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

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

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

Table 11. PAD District 2 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, November 2018
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	2,168	--	--	2,899	-582	-166	146	3,820	354	0
Hydrocarbon Gas Liquids	1,000	-19	19	97	-348	--	-231	136	237	608
Natural Gas Liquids	1,000	-19	-29	83	-321	--	-235	136	237	577
Ethane	344	--	--	--	--	--	-31	--	109	156
Propane	361	--	72	60	-215	--	-79	--	5	353
Normal Butane	128	--	-1,660	15	-65	--	-126	50	5	51
Isobutane	54	--	-3	8	6	--	-3	52	0	16
Natural Gasoline	113	-19	--	0	64	--	4	34	118	2
Refinery Olefins	--	--	48	13	--	--	4	--	--	31
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	44	12	-26	--	1	--	--	28
Normal Butylene	--	--	4	1	--	--	3	--	--	3
Isobutylene	--	--	0	--	--	--	0	--	--	0
Other Liquids	--	1,054	--	12	-460	-96	57	471	66	-83
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,054	--	3	-658	-71	1	303	23	0
Hydrogen	--	--	--	--	--	38	--	38	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	0	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	1,054	--	3	-658	-110	1	264	23	0
Fuel Ethanol	--	970	--	--	-635	-64	-3	251	23	0
Renewable Fuels Except Fuel Ethanol	--	84	--	3	-23	-46	4	13	1	0
Other Hydrocarbons	--	--	--	--	--	1	0	1	--	0
Unfinished Oils	--	--	--	2	-35	--	26	-17	43	-83
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	7	233	-24	30	185	0	0
Reformulated	--	0	--	--	71	-16	6	50	--	0
Conventional	--	0	--	7	162	-9	25	135	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	5	4,651	38	76	135	70	--	31	4,804
Finished Motor Gasoline	--	5	2,608	--	5	89	17	--	3	2,686
Reformulated	--	--	368	--	--	21	--	--	--	389
Conventional	--	5	2,240	--	5	68	17	--	3	2,298
Finished Aviation Gasoline	--	--	1	0	1	--	0	--	--	1
Kerosene-Type Jet Fuel	--	--	280	--	44	--	9	--	1	314
Kerosene	--	--	4	--	1	--	-1	--	0	6
Distillate Fuel Oil	--	--	1,171	12	108	46	15	--	2	1,320
15 ppm sulfur and under	--	--	1,177	8	104	46	22	--	0	1,313
Greater than 15 ppm to 500 ppm sulfur	--	--	3	--	3	--	-3	--	1	8
Greater than 500 ppm sulfur	--	--	-9	4	--	--	-5	--	1	-1
Residual Fuel Oil ⁶	--	--	48	6	-24	--	3	--	8	19
Less than 0.31 percent sulfur	--	--	2	--	--	--	-1	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	7	1	--	--	-1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	39	5	-24	--	5	--	NA	NA
Petrochemical Feedstocks	--	--	30	5	-5	--	0	--	--	30
Naphtha for Petro. Feed. Use	--	--	21	2	-4	--	0	--	--	20
Other Oils for Petro. Feed. Use	--	--	8	3	-1	--	0	--	--	11
Special Naphthas	--	--	3	0	0	--	0	--	--	3
Lubricants	--	--	7	3	3	--	2	--	6	7
Waxes	--	--	1	0	--	--	0	--	1	1
Petroleum Coke	--	--	187	0	-28	--	-3	--	7	155
Marketable	--	--	139	0	-28	--	-3	--	7	108
Catalyst	--	--	47	--	--	--	--	--	--	47
Asphalt and Road Oil	--	--	152	10	-29	--	28	--	3	102
Still Gas	--	--	145	--	--	--	--	--	--	145
Miscellaneous Products	--	--	16	--	--	--	1	--	0	15
Total	3,167	1,040	4,671	3,047	-1,314	-127	41	4,427	688	5,328

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

Table 12. PAD District 2 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-November 2018
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	2,012	--	--	2,798	-601	-288	-7	3,783	145	0
Hydrocarbon Gas Liquids	973	-19	113	85	-321	--	17	104	285	424
Natural Gas Liquids	973	-19	69	71	-296	--	18	104	285	391
Ethane	346	--	--	--	--	--	-1	--	91	118
Propane	343	--	73	58	-234	--	12	--	5	223
Normal Butane	115	--	0	8	-70	--	10	22	10	10
Isobutane	58	--	-4	5	5	--	-1	51	0	14
Natural Gasoline	110	-19	--	0	143	--	-2	31	180	26
Refinery Olefins	--	--	44	14	--	--	-1	--	--	33
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	42	12	-26	--	-1	--	--	29
Normal Butylene	--	--	2	2	--	--	0	--	--	4
Isobutylene	--	--	0	--	--	--	0	--	--	0
Other Liquids	--	1,044	--	18	-395	-72	-9	582	86	-64
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,044	--	2	-678	-45	-5	304	24	0
Hydrogen	--	--	--	--	--	37	--	37	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	0	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	1,044	--	2	-678	-83	-5	266	24	0
Fuel Ethanol	--	965	--	--	-654	-44	-4	249	21	0
Renewable Fuels Except Fuel Ethanol	--	79	--	2	-24	-39	-1	17	3	0
Other Hydrocarbons	--	--	--	0	--	1	0	1	--	0
Unfinished Oils	--	--	--	2	-3	--	4	-2	61	-64
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	14	286	-28	-9	280	1	0
Reformulated	--	0	--	0	81	-41	-2	42	0	0
Conventional	--	0	--	14	205	13	-7	238	1	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	5	4,581	31	107	110	3	--	33	4,799
Finished Motor Gasoline	--	5	2,602	--	14	72	-1	--	6	2,688
Reformulated	--	--	364	--	--	48	--	--	--	413
Conventional	--	5	2,237	--	14	23	-1	--	6	2,275
Finished Aviation Gasoline	--	--	1	0	1	--	0	--	--	2
Kerosene-Type Jet Fuel	--	--	260	--	39	--	1	--	2	297
Kerosene	--	--	3	0	0	--	0	--	0	3
Distillate Fuel Oil	--	--	1,124	7	127	39	-3	--	4	1,296
15 ppm sulfur and under	--	--	1,125	5	124	39	-3	--	1	1,294
Greater than 15 ppm to 500 ppm sulfur	--	--	3	--	4	--	0	--	2	5
Greater than 500 ppm sulfur	--	--	-4	2	--	--	0	--	1	-3
Residual Fuel Oil ⁶	--	--	47	3	-25	--	0	--	5	21
Less than 0.31 percent sulfur	--	--	1	0	-1	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	7	1	0	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	39	2	-23	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	31	5	-4	--	0	--	--	31
Naphtha for Petro. Feed. Use	--	--	21	2	-3	--	0	--	--	20
Other Oils for Petro. Feed. Use	--	--	10	2	-1	--	0	--	--	12
Special Naphthas	--	--	2	1	1	--	0	--	--	4
Lubricants	--	--	7	4	6	--	0	--	6	11
Waxes	--	--	1	0	--	--	0	--	1	0
Petroleum Coke	--	--	185	1	-29	--	-1	--	5	153
Marketable	--	--	137	1	-29	--	-1	--	5	105
Catalyst	--	--	48	--	--	--	--	--	--	48
Asphalt and Road Oil	--	--	158	9	-24	--	5	--	3	134
Still Gas	--	--	144	--	--	--	--	--	--	144
Miscellaneous Products	--	--	15	0	0	--	0	--	0	16
Total	2,985	1,030	4,694	2,931	-1,210	-250	3	4,468	550	5,159

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

Table 13. PAD District 3 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, November 2018
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil⁶	232,814	--	--	63,627	27,178	26,768	6,508	277,537	66,343	0	886,439
Hydrocarbon Gas Liquids	75,588	-16	10,486	71	23,576	--	-7,415	12,307	38,135	66,678	132,902
Natural Gas Liquids	75,588	-16	2,992	--	23,079	--	-8,001	12,307	38,135	59,202	125,634
Ethane	32,255	--	211	--	--	--	1,156	--	2,235	42,490	44,785
Propane	23,248	--	4,923	--	6,821	--	-2,485	--	29,932	7,545	39,095
Normal Butane	4,857	--	-1,660	--	2,285	--	-6,463	5,868	5,846	231	25,695
Isobutane	7,606	--	-482	--	692	--	-453	3,627	96	4,546	5,818
Natural Gasoline	7,622	-16	--	--	-134	--	244	2,812	26	4,390	10,241
Refinery Olefins	--	--	7,494	71	--	--	586	--	--	7,476	7,268
Ethylene	--	--	--	--	--	--	0	--	--	0	0
Propylene	--	--	7,423	--	--	--	786	--	--	7,134	5,601
Normal Butylene	--	--	106	71	--	--	-199	--	--	376	1,667
Isobutylene	--	--	-35	--	--	--	-1	--	--	-34	0
Other Liquids	--	3,849	--	14,474	-56,853	870	161	-54,081	16,239	21	129,450
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	3,849	--	480	4,876	5,585	1,128	9,064	4,598	0	7,991
Hydrogen	--	--	--	--	--	4,100	--	4,100	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	2,337	--	409	--	-629	170	--	1,947	0	1,176
Renewable Fuels (including Fuel Ethanol)	--	1,512	--	71	4,876	2,114	958	4,964	2,651	0	6,815
Fuel Ethanol	--	675	--	--	4,870	2,020	463	4,502	2,599	0	5,087
Renewable Fuels Except Fuel Ethanol	--	837	--	71	6	95	495	462	51	0	1,728
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	13,377	1,065	--	-1,292	5,773	9,935	26	47,858
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	617	-62,794	-4,715	316	-68,914	1,706	0	73,567
Reformulated	--	--	--	--	-12,494	6,715	154	-5,936	3	0	11,060
Conventional	--	--	--	617	-50,300	-11,430	162	-62,978	1,703	0	62,507
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	9	-4	--	-5	34
Finished Petroleum Products	--	--	244,771	3,666	-55,022	3,108	-1,982	--	99,290	99,215	104,930
Finished Motor Gasoline	--	--	75,860	159	-8,016	2,695	158	--	30,099	40,442	10,769
Reformulated	--	--	14,177	--	--	-7,115	--	--	--	7,062	--
Conventional	--	--	61,683	159	-8,016	9,811	158	--	30,099	33,380	10,769
Finished Aviation Gasoline	--	--	236	--	-110	--	58	--	--	68	469
Kerosene-Type Jet Fuel	--	--	27,747	--	-18,058	--	-594	--	4,510	5,773	14,153
Kerosene	--	--	141	--	-126	--	95	--	177	-257	200
Distillate Fuel Oil	--	--	90,600	412	-29,512	412	-540	--	39,300	23,152	38,962
15 ppm sulfur and under	--	--	82,198	412	-27,914	412	-558	--	32,937	22,729	31,872
Greater than 15 ppm to 500 ppm sulfur	--	--	3,225	--	-367	--	103	--	3,298	-543	1,908
Greater than 500 ppm sulfur	--	--	5,177	--	-1,231	--	-85	--	3,065	966	5,182
Residual Fuel Oil ⁷	--	--	6,959	1,797	878	--	287	--	6,949	2,398	16,763
Less than 0.31 percent sulfur	--	--	1,041	288	--	--	152	--	NA	NA	996
0.31 to 1.00 percent sulfur	--	--	439	306	--	--	-497	--	NA	NA	2,589
Greater than 1.00 percent sulfur	--	--	5,479	1,203	878	--	632	--	NA	NA	13,178
Petrochemical Feedstocks	--	--	8,759	217	120	--	216	--	--	8,880	2,880
Naphtha for Petro. Feed. Use	--	--	5,761	213	97	--	70	--	--	6,001	1,850
Other Oils for Petro. Feed. Use	--	--	2,998	4	23	--	146	--	--	2,879	1,030
Special Naphthas	--	--	973	125	-10	--	101	--	--	987	960
Lubricants	--	--	4,057	907	-432	--	-523	--	2,110	2,945	9,831
Waxes	--	--	84	4	--	--	7	--	24	57	252
Petroleum Coke	--	--	14,732	45	690	--	-999	--	15,224	1,242	4,684
Marketable	--	--	11,147	45	690	--	-999	--	15,224	-2,343	4,684
Catalyst	--	--	3,585	--	--	--	--	--	--	3,585	--
Asphalt and Road Oil	--	--	1,912	--	-445	--	-201	--	891	777	4,640
Still Gas	--	--	10,928	--	--	--	--	--	--	10,928	--
Miscellaneous Products	--	--	1,783	--	--	--	-47	--	7	1,823	367
Total	308,402	3,833	255,257	81,838	-61,120	30,746	-2,728	235,763	220,007	165,914	1,253,721

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See

Appendix B, Note 2C for a detailed explanation of these adjustments.

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

biodiesel, marketable petroleum coke, and asphalt and road oil

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

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

⁶ 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-November 2018
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil⁶	2,334,613	--	--	844,580	275,320	163,410	19,073	3,007,004	591,846	0	886,439
Hydrocarbon Gas Liquids	792,957	-181	146,833	1,418	251,965	--	7,571	103,204	390,378	691,839	132,902
Natural Gas Liquids	792,957	-181	70,147	1	246,539	--	5,255	103,204	390,378	610,626	--
Ethane	336,743	--	2,063	--	--	--	-4,879	--	44,532	446,451	--
Propane	241,483	--	53,937	1	86,155	--	5,557	--	289,236	86,783	--
Normal Butane	42,512	--	18,312	--	33,387	--	2,970	29,474	54,793	6,974	--
Isobutane	87,631	--	-4,165	--	7,976	--	452	40,221	1,567	49,202	--
Natural Gasoline	84,588	-181	--	--	-28,277	--	1,155	33,509	250	21,216	--
Refinery Olefins	--	--	76,686	1,417	--	--	2,316	--	--	81,213	--
Ethylene	--	--	7	--	--	--	0	--	--	7	--
Propylene	--	--	76,207	--	--	--	1,578	--	--	80,055	--
Normal Butylene	--	--	805	1,417	--	--	738	--	--	1,484	--
Isobutylene	--	--	-333	--	--	--	0	--	--	-333	--
Other Liquids	--	42,730	--	186,443	-615,930	-4,907	3,358	-556,511	139,872	21,616	129,450
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	42,730	--	3,836	62,699	41,092	1,170	98,166	51,020	0	7,991
Hydrogen	--	--	--	--	--	44,443	--	44,443	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	26,133	--	3,329	--	-7,094	-263	--	22,631	0	1,176
Renewable Fuels (including Fuel Ethanol)	--	16,597	--	438	62,699	3,812	1,433	53,723	28,389	0	6,815
Fuel Ethanol	--	8,799	--	--	60,922	8,692	1,009	49,569	27,834	0	5,087
Renewable Fuels Except Fuel Ethanol	--	7,798	--	438	1,777	-4,879	424	4,154	555	0	1,728
Other Hydrocarbons	--	--	--	69	--	-69	0	--	--	0	--
Unfinished Oils	--	--	--	162,761	1,172	--	2,938	66,643	72,450	21,902	47,858
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	19,846	-679,801	-45,999	-769	-721,587	16,402	0	73,567
Reformulated	--	--	--	--	-140,135	37,976	-72	-102,199	112	0	11,060
Conventional	--	--	--	19,846	-539,666	-83,975	-697	-619,388	16,290	0	62,507
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	19	267	--	-286	34
Finished Petroleum Products	--	--	2,618,313	55,741	-573,277	44,540	-3,602	--	971,220	1,177,699	104,930
Finished Motor Gasoline	--	--	773,723	838	-75,543	37,308	1,887	--	269,649	464,790	10,769
Reformulated	--	--	156,050	--	--	-40,740	--	--	--	115,310	--
Conventional	--	--	617,673	838	-75,543	78,047	1,887	--	269,649	349,479	10,769
Finished Aviation Gasoline	--	--	2,913	--	-1,184	--	0	--	--	1,729	469
Kerosene-Type Jet Fuel	--	--	314,006	--	-190,235	--	309	--	60,104	63,358	14,153
Kerosene	--	--	484	--	-1,355	--	24	--	1,173	-2,068	200
Distillate Fuel Oil	--	--	970,673	2,368	-311,681	7,232	-6,860	--	387,186	288,267	38,962
15 ppm sulfur and under	--	--	883,708	1,446	-290,877	7,232	-6,931	--	334,839	273,602	31,872
Greater than 15 ppm to 500 ppm sulfur	--	--	27,003	--	-2,378	--	-333	--	27,119	-2,161	1,908
Greater than 500 ppm sulfur	--	--	59,962	922	-18,426	--	404	--	25,228	16,826	5,182
Residual Fuel Oil ⁷	--	--	67,766	28,685	10,169	--	406	--	80,972	25,242	16,763
Less than 0.31 percent sulfur	--	--	13,046	7,877	462	--	346	--	NA	NA	996
0.31 to 1.00 percent sulfur	--	--	6,735	1,924	1,231	--	-1,878	--	NA	NA	2,589
Greater than 1.00 percent sulfur	--	--	47,985	18,884	8,476	--	1,938	--	NA	NA	13,178
Petrochemical Feedstocks	--	--	94,857	5,336	1,095	--	567	--	--	100,721	2,880
Naphtha for Petro. Feed. Use	--	--	61,616	4,799	842	--	453	--	--	66,804	1,850
Other Oils for Petro. Feed. Use	--	--	33,241	537	253	--	114	--	--	33,917	1,030
Special Naphthas	--	--	10,788	4,113	-277	--	-39	--	--	14,663	960
Lubricants	--	--	48,054	11,097	-6,211	--	770	--	27,990	24,180	9,831
Waxes	--	--	1,030	377	--	--	-15	--	260	1,162	252
Petroleum Coke	--	--	165,356	2,868	8,109	--	-879	--	138,295	38,917	4,684
Marketable	--	--	125,524	2,868	8,109	--	-879	--	138,295	-915	4,684
Catalyst	--	--	39,832	--	--	--	--	--	--	39,832	--
Asphalt and Road Oil	--	--	26,566	--	-6,101	--	239	--	5,503	14,722	4,640
Still Gas	--	--	122,853	--	--	--	--	--	--	122,853	--
Miscellaneous Products	--	--	19,244	59	-62	--	-11	--	87	19,165	367
Total	3,127,570	42,549	2,765,146	1,088,182	-661,922	203,043	26,400	2,553,697	2,093,316	1,891,154	1,253,721

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See

Appendix B, Note 2C for a detailed explanation of these adjustments.

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

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

⁶ 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 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, November 2018
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil⁶	7,760	--	--	2,121	906	892	217	9,251	2,211	0
Hydrocarbon Gas Liquids	2,520	-1	350	2	786	--	-247	410	1,271	2,223
Natural Gas Liquids	2,520	-1	100	--	769	--	-267	410	1,271	1,973
Ethane	1,075	--	7	--	--	--	39	--	75	1,416
Propane	775	--	164	--	227	--	-83	--	998	252
Normal Butane	162	--	-55	--	76	--	-215	196	195	8
Isobutane	254	--	-16	--	23	--	-15	121	3	152
Natural Gasoline	254	-1	--	--	-4	--	8	94	1	146
Refinery Olefins	--	--	250	2	--	--	20	--	--	249
Ethylene	--	--	--	--	--	--	0	--	--	0
Propylene	--	--	247	--	17	--	26	--	--	238
Normal Butylene	--	--	4	2	--	--	-7	--	--	13
Isobutylene	--	--	-1	--	--	--	0	--	--	-1
Other Liquids	--	128	--	482	-1,895	29	5	-1,803	541	1
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	128	--	16	163	186	38	302	153	0
Hydrogen	--	--	--	--	--	137	--	137	--	0
Oxygenates (excluding Fuel Ethanol)	--	78	--	14	--	-21	6	--	65	0
Renewable Fuels (including Fuel Ethanol)	--	50	--	2	163	70	32	165	88	0
Fuel Ethanol	--	23	--	--	162	67	15	150	87	0
Renewable Fuels Except Fuel Ethanol	--	28	--	2	0	3	17	15	2	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	446	36	--	-43	192	331	1
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	21	-2,093	-157	11	-2,297	57	0
Reformulated	--	--	--	--	-416	224	5	-198	0	0
Conventional	--	--	--	21	-1,677	-381	5	-2,099	57	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	--	8,159	122	-1,834	104	-66	--	3,310	3,307
Finished Motor Gasoline	--	--	2,529	5	-267	90	5	--	1,003	1,348
Reformulated	--	--	473	--	--	-237	--	--	--	235
Conventional	--	--	2,056	5	-267	327	5	--	1,003	1,113
Finished Aviation Gasoline	--	--	8	--	-4	--	2	--	--	2
Kerosene-Type Jet Fuel	--	--	925	--	-602	--	-20	--	150	192
Kerosene	--	--	5	--	-4	--	3	--	6	-9
Distillate Fuel Oil	--	--	3,020	14	-984	14	-18	--	1,310	772
15 ppm sulfur and under	--	--	2,740	14	-930	14	-19	--	1,098	758
Greater than 15 ppm to 500 ppm sulfur	--	--	108	--	-12	--	3	--	110	-18
Greater than 500 ppm sulfur	--	--	173	--	-41	--	-3	--	102	32
Residual Fuel Oil ⁷	--	--	232	60	29	--	10	--	232	80
Less than 0.31 percent sulfur	--	--	35	10	--	--	5	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	15	10	--	--	-17	--	NA	NA
Greater than 1.00 percent sulfur	--	--	183	40	29	--	21	--	NA	NA
Petrochemical Feedstocks	--	--	292	7	4	--	7	--	--	296
Naphtha for Petro. Feed. Use	--	--	192	7	3	--	2	--	--	200
Other Oils for Petro. Feed. Use	--	--	100	0	1	--	5	--	--	96
Special Naphthas	--	--	32	4	0	--	3	--	--	33
Lubricants	--	--	135	30	-14	--	-17	--	70	98
Waxes	--	--	3	0	--	--	0	--	1	2
Petroleum Coke	--	--	491	2	23	--	-33	--	507	41
Marketable	--	--	372	2	23	--	-33	--	507	-78
Catalyst	--	--	120	--	--	--	--	--	--	120
Asphalt and Road Oil	--	--	64	--	-15	--	-7	--	30	26
Still Gas	--	--	364	--	--	--	--	--	--	364
Miscellaneous Products	--	--	59	--	--	--	-2	--	0	61
Total	10,280	128	8,509	2,728	-2,037	1,025	-91	7,859	7,334	5,530

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

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

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

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil⁶	6,990	--	--	2,529	824	489	57	9,003	1,772	0
Hydrocarbon Gas Liquids	2,374	-1	440	4	754	--	23	309	1,169	2,071
Natural Gas Liquids	2,374	-1	210	0	738	--	16	309	1,169	1,828
Ethane	1,008	--	6	--	--	--	-15	--	133	1,337
Propane	723	--	161	0	258	--	17	--	866	260
Normal Butane	127	--	457	--	100	--	9	88	164	21
Isobutane	262	--	-12	--	24	--	1	120	5	147
Natural Gasoline	253	-1	--	--	-85	--	3	100	1	64
Refinery Olefins	--	--	230	4	--	--	7	--	--	243
Ethylene	--	--	0	--	--	--	0	--	--	0
Propylene	--	--	228	--	16	--	5	--	--	240
Normal Butylene	--	--	2	4	--	--	2	--	--	4
Isobutylene	--	--	-1	--	--	--	0	--	--	-1
Other Liquids	--	128	--	558	-1,844	-15	10	-1,666	419	65
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	128	--	11	188	123	4	294	153	0
Hydrogen	--	--	--	--	--	133	--	133	--	0
Oxygenates (excluding Fuel Ethanol)	--	78	--	10	--	-21	-1	--	68	0
Renewable Fuels (including Fuel Ethanol)	--	50	--	1	188	11	4	161	85	0
Fuel Ethanol	--	26	--	--	182	26	3	148	83	0
Renewable Fuels Except Fuel Ethanol	--	23	--	1	5	-15	1	12	2	0
Other Hydrocarbons	--	--	--	0	--	0	0	--	--	0
Unfinished Oils	--	--	--	487	4	--	9	200	217	66
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	59	-2,035	-138	-2	-2,160	49	0
Reformulated	--	--	--	--	-420	114	0	-306	0	0
Conventional	--	--	--	59	-1,616	-251	-2	-1,854	49	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	1	--	-1
Finished Petroleum Products	--	--	7,839	167	-1,716	133	-11	--	2,908	3,526
Finished Motor Gasoline	--	--	2,317	3	-226	112	6	--	807	1,392
Reformulated	--	--	467	--	--	-122	--	--	--	345
Conventional	--	--	1,849	3	-226	234	6	--	807	1,046
Finished Aviation Gasoline	--	--	9	--	-4	--	0	--	--	5
Kerosene-Type Jet Fuel	--	--	940	--	-570	--	1	--	180	190
Kerosene	--	--	1	--	-4	--	0	--	4	-6
Distillate Fuel Oil	--	--	2,906	7	-933	22	-21	--	1,159	863
15 ppm sulfur and under	--	--	2,646	4	-871	22	-21	--	1,003	819
Greater than 15 ppm to 500 ppm sulfur	--	--	81	--	-7	--	-1	--	81	-6
Greater than 500 ppm sulfur	--	--	180	3	-55	--	1	--	76	50
Residual Fuel Oil ⁷	--	--	203	86	30	--	1	--	242	76
Less than 0.31 percent sulfur	--	--	39	24	1	--	1	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	20	6	4	--	-6	--	NA	NA
Greater than 1.00 percent sulfur	--	--	144	57	25	--	6	--	NA	NA
Petrochemical Feedstocks	--	--	284	16	3	--	2	--	--	302
Naphtha for Petro. Feed. Use	--	--	184	14	3	--	1	--	--	200
Other Oils for Petro. Feed. Use	--	--	100	2	1	--	0	--	--	102
Special Naphthas	--	--	32	12	-1	--	0	--	--	44
Lubricants	--	--	144	33	-19	--	2	--	84	72
Waxes	--	--	3	1	--	--	0	--	1	3
Petroleum Coke	--	--	495	9	24	--	-3	--	414	117
Marketable	--	--	376	9	24	--	-3	--	414	-3
Catalyst	--	--	119	--	--	--	--	--	--	119
Asphalt and Road Oil	--	--	80	--	-18	--	1	--	16	44
Still Gas	--	--	368	--	--	--	--	--	--	368
Miscellaneous Products	--	--	58	0	0	--	0	--	0	57
Total	9,364	127	8,279	3,258	-1,982	608	79	7,646	6,267	5,662

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

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

Table 17. PAD District 4 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, November 2018
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	27,966	--	--	12,866	-17,769	-4,139	1,553	17,372	--	0	23,725
Hydrocarbon Gas Liquids	13,480	-9	22	419	-12,224	--	-600	699	81	1,508	4,140
Natural Gas Liquids	13,480	-9	3	419	-12,224	--	-665	699	81	1,554	4,073
Ethane	4,324	--	--	--	--	--	32	--	--	-150	561
Propane	4,631	--	196	330	-3,892	--	-94	--	--	1,359	1,463
Normal Butane	1,873	--	-207	80	-1,536	--	-603	298	1	514	1,448
Isobutane	773	--	14	9	-855	--	24	193	--	-276	264
Natural Gasoline	1,879	-9	--	--	-1,499	--	-24	208	80	107	337
Refinery Olefins	--	--	19	--	--	--	65	--	--	-46	67
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	-2	--	--	--	0	--	--	-2	0
Normal Butylene	--	--	21	--	--	--	65	--	--	-44	67
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	431	--	61	642	-562	59	233	0	280	9,452
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	431	--	6	391	258	7	1,079	--	0	448
Hydrogen	--	--	--	--	--	176	--	176	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	431	--	6	391	82	7	903	--	0	448
Fuel Ethanol	--	431	--	--	336	81	-16	864	--	0	363
Renewable Fuels Except Fuel Ethanol	--	0	--	6	55	1	23	39	--	0	85
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	-191	-89	0	280	3,567
Motor Gasoline Blend Comp. (MGBC)	--	--	--	55	251	-820	243	-757	--	0	5,437
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	251	-820	243	-757	--	0	5,437
Aviation Gasoline Blend Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	19,018	167	-458	762	377	--	20	19,092	8,033
Finished Motor Gasoline	--	--	9,079	--	-407	739	-90	--	1	9,500	1,502
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	9,079	--	-407	739	-90	--	1	9,500	1,502
Finished Aviation Gasoline	--	--	5	--	--	--	1	--	--	4	9
Kerosene-Type Jet Fuel	--	--	837	28	664	--	-85	--	--	1,614	620
Kerosene	--	--	--	--	--	--	0	--	--	0	1
Distillate Fuel Oil	--	--	5,961	123	223	23	412	--	--	5,918	4,032
15 ppm sulfur and under	--	--	5,882	123	223	23	330	--	--	5,921	3,745
Greater than 15 ppm to 500 ppm sulfur	--	--	36	--	--	--	38	--	--	-2	210
Greater than 500 ppm sulfur	--	--	43	--	--	--	44	--	--	-1	77
Residual Fuel Oil ⁶	--	--	408	5	--	--	-27	--	9	431	246
Less than 0.31 percent sulfur	--	--	231	--	--	--	6	--	NA	NA	34
0.31 to 1.00 percent sulfur	--	--	28	--	--	--	-6	--	NA	NA	14
Greater than 1.00 percent sulfur	--	--	149	5	--	--	-27	--	NA	NA	198
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	6	-6	--
Waxes	--	--	--	--	--	--	--	--	0	0	--
Petroleum Coke	--	--	724	--	-309	--	-32	--	0	447	93
Marketable	--	--	528	--	-309	--	-32	--	0	251	93
Catalyst	--	--	196	--	--	--	--	--	--	196	--
Asphalt and Road Oil	--	--	1,295	10	-629	--	200	--	3	474	1,513
Still Gas	--	--	618	--	--	--	--	--	--	618	--
Miscellaneous Products	--	--	91	1	--	--	-2	--	--	94	17
Total	41,446	422	19,040	13,513	-29,809	-3,939	1,389	18,304	101	20,880	45,350

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See

Appendix B, Note 2C for a detailed explanation of these adjustments.

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

biogiesel, marketable petroleum coke, and asphalt and road oil

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

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

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

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

Table 18. PAD District 4 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-November 2018
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	284,457	--	--	124,395	-180,110	-20,071	1,363	207,178	130	0	23,725
Hydrocarbon Gas Liquids	142,988	-98	3,278	3,597	-130,523	--	507	6,537	828	11,370	4,140
Natural Gas Liquids	142,988	-98	3,029	3,597	-130,523	--	455	6,537	828	11,173	--
Ethane	44,646	--	--	--	--	--	93	--	--	2,245	--
Propane	49,368	--	2,784	3,116	-44,992	--	-21	--	5	10,292	--
Normal Butane	19,361	--	457	252	-16,911	--	412	2,617	90	40	--
Isobutane	8,820	--	-212	229	-9,316	--	-11	2,081	--	-2,549	--
Natural Gasoline	20,793	-98	--	--	-16,996	--	-18	1,839	733	1,145	--
Refinery Olefins	--	--	249	--	--	--	52	--	--	197	--
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	29	--	--	--	0	--	--	29	--
Normal Butylene	--	--	220	--	--	--	52	--	--	168	--
Isobutylene	--	--	--	--	--	--	0	--	--	0	--
Other Liquids	--	4,651	--	912	6,099	-9,174	581	-67	24	1,951	9,452
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	4,651	--	33	4,328	3,908	114	12,790	16	0	448
Hydrogen	--	--	--	--	--	2,255	--	2,255	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	0	--	0	0	--
Renewable Fuels (including Fuel Ethanol)	--	4,651	--	33	4,328	1,652	114	10,535	15	0	448
Fuel Ethanol	--	4,651	--	--	3,907	1,507	39	10,012	14	0	363
Renewable Fuels Except Fuel Ethanol	--	0	--	33	421	145	75	523	2	0	85
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	30	--	--	816	-2,744	7	1,951	3,567
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	849	1,771	-13,081	-349	-10,113	1	0	5,437
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	1,771	-13,081	-349	-10,113	1	0	5,437
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	219,725	1,137	-7,987	11,505	-549	--	291	224,639	8,033
Finished Motor Gasoline	--	--	103,956	--	-6,544	11,574	-312	--	12	109,286	1,502
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	103,956	--	-6,544	11,574	-312	--	12	109,286	1,502
Finished Aviation Gasoline	--	--	54	6	--	--	0	--	--	60	9
Kerosene-Type Jet Fuel	--	--	11,954	124	8,114	--	-102	--	--	20,294	620
Kerosene	--	--	1	--	--	--	-1	--	1	1	1
Distillate Fuel Oil	--	--	68,615	692	92	-69	-176	--	0	69,506	4,032
15 ppm sulfur and under	--	--	68,210	692	132	-69	-225	--	0	69,190	3,745
Greater than 15 ppm to 500 ppm sulfur	--	--	400	--	-40	--	38	--	--	322	210
Greater than 500 ppm sulfur	--	--	5	--	--	--	11	--	--	-6	77
Residual Fuel Oil ⁶	--	--	4,069	14	--	--	31	--	114	3,938	246
Less than 0.31 percent sulfur	--	--	2,246	--	--	--	2	--	NA	NA	34
0.31 to 1.00 percent sulfur	--	--	289	--	--	--	10	--	NA	NA	14
Greater than 1.00 percent sulfur	--	--	1,534	14	--	--	19	--	NA	NA	198
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	91	-91	--
Waxes	--	--	--	--	--	--	--	--	4	-4	--
Petroleum Coke	--	--	8,650	--	-3,222	--	10	--	15	5,403	93
Marketable	--	--	6,073	--	-3,222	--	10	--	15	2,826	93
Catalyst	--	--	2,577	--	--	--	--	--	--	2,577	--
Asphalt and Road Oil	--	--	13,754	290	-6,427	--	0	--	52	7,565	1,513
Still Gas	--	--	7,506	--	--	--	--	--	--	7,506	--
Miscellaneous Products	--	--	1,166	11	--	--	1	--	1	1,175	17
Total	427,445	4,553	223,003	130,041	-312,520	-17,740	1,902	213,648	1,273	237,959	45,350

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See

Appendix B, Note 2C for a detailed explanation of these adjustments.

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

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

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

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

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

Table 19. PAD District 4 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, November 2018
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	932	--	--	429	-592	-138	52	579	--	0
Hydrocarbon Gas Liquids	449	0	1	14	-407	--	-20	23	3	50
Natural Gas Liquids	449	0	0	14	-407	--	-22	23	3	52
Ethane	144	--	--	--	--	--	1	--	--	-5
Propane	154	--	7	11	-130	--	-3	--	--	45
Normal Butane	62	--	-7	3	-51	--	-20	10	0	17
Isobutane	26	--	0	0	-29	--	1	6	--	-9
Natural Gasoline	63	0	--	--	-50	--	-1	7	3	4
Refinery Olefins	--	--	1	--	--	--	2	--	--	-2
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	0	--	--	--	0	--	--	0
Normal Butylene	--	--	1	--	--	--	2	--	--	-1
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	14	--	2	21	-19	2	8	0	9
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	14	--	0	13	9	0	36	--	0
Hydrogen	--	--	--	--	--	6	--	6	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	14	--	0	13	3	0	30	--	0
Fuel Ethanol	--	14	--	--	11	3	-1	29	--	0
Renewable Fuels Except Fuel Ethanol	--	0	--	0	2	0	1	1	--	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	-6	-3	0	9
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	2	8	-27	8	-25	--	0
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	8	-27	8	-25	--	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	634	6	-15	25	13	--	1	636
Finished Motor Gasoline	--	--	303	--	-14	25	-3	--	0	317
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	303	--	-14	25	-3	--	0	317
Finished Aviation Gasoline	--	--	0	--	--	--	0	--	--	0
Kerosene-Type Jet Fuel	--	--	28	1	22	--	-3	--	--	54
Kerosene	--	--	--	--	--	--	0	--	--	0
Distillate Fuel Oil	--	--	199	4	7	1	14	--	--	197
15 ppm sulfur and under	--	--	196	4	7	1	11	--	--	197
Greater than 15 ppm to 500 ppm sulfur	--	--	1	--	--	--	1	--	--	0
Greater than 500 ppm sulfur	--	--	1	--	--	--	-1	--	--	0
Residual Fuel Oil ⁶	--	--	14	0	--	--	-1	--	0	14
Less than 0.31 percent sulfur	--	--	8	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	1	--	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	5	0	--	--	-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	--	--	18	--	-10	--	-1	--	0	8
Catalyst	--	--	7	--	--	--	--	--	--	7
Asphalt and Road Oil	--	--	43	0	-21	--	7	--	0	16
Still Gas	--	--	21	--	--	--	--	--	--	21
Miscellaneous Products	--	--	3	0	--	--	0	--	--	3
Total	1,382	14	635	450	-994	-131	46	610	3	696

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

Table 20. PAD District 4 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-November 2018
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	852	--	--	372	-539	-60	4	620	0	0
Hydrocarbon Gas Liquids	428	0	10	11	-391	--	2	20	2	34
Natural Gas Liquids	428	0	9	11	-391	--	1	20	2	33
Ethane	134	--	--	--	--	--	0	--	--	7
Propane	148	--	8	9	-135	--	0	--	0	31
Normal Butane	58	--	1	1	-51	--	1	8	0	0
Isobutane	26	--	-1	1	-28	--	0	6	--	-8
Natural Gasoline	62	0	--	--	-51	--	0	6	2	3
Refinery Olefins	--	--	1	--	--	--	0	--	--	1
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	0	--	--	--	0	--	--	0
Normal Butylene	--	--	1	--	--	--	0	--	--	1
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	14	--	3	18	-27	2	0	0	6
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	14	--	0	13	12	0	38	0	0
Hydrogen	--	--	--	--	--	7	--	7	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	0	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	14	--	0	13	5	0	32	0	0
Fuel Ethanol	--	14	--	--	12	5	0	30	0	0
Renewable Fuels Except Fuel Ethanol	--	0	--	0	1	0	0	2	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	0	--	--	2	-8	0	6
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	3	5	-39	-1	-30	0	0
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	5	-39	-1	-30	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	658	3	-24	34	-2	--	1	673
Finished Motor Gasoline	--	--	311	--	-20	35	-1	--	0	327
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	311	--	-20	35	-1	--	0	327
Finished Aviation Gasoline	--	--	0	0	--	--	0	--	--	0
Kerosene-Type Jet Fuel	--	--	36	0	24	--	0	--	--	61
Kerosene	--	--	0	--	--	--	0	--	0	0
Distillate Fuel Oil	--	--	205	2	0	0	-1	--	0	208
15 ppm sulfur and under	--	--	204	2	0	0	-1	--	0	207
Greater than 15 ppm to 500 ppm sulfur	--	--	1	--	0	--	0	--	--	1
Greater than 500 ppm sulfur	--	--	0	--	--	--	0	--	--	0
Residual Fuel Oil ⁶	--	--	12	0	--	--	0	--	0	12
Less than 0.31 percent sulfur	--	--	7	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	1	--	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	5	0	--	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	0	0
Waxes	--	--	--	--	--	--	--	--	0	0
Petroleum Coke	--	--	26	--	-10	--	0	--	0	16
Marketable	--	--	18	--	-10	--	0	--	0	8
Catalyst	--	--	8	--	--	--	--	--	--	8
Asphalt and Road Oil	--	--	41	1	-19	--	0	--	0	23
Still Gas	--	--	22	--	--	--	--	--	--	22
Miscellaneous Products	--	--	3	0	--	--	0	--	0	4
Total	1,280	14	668	389	-936	-53	6	640	4	712

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

Table 21. PAD District 5 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, November 2018
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	29,300	--	--	36,242	5,087	2,452	-2,896	74,823	1,154	0	46,307
Hydrocarbon Gas Liquids	1,855	-13	-134	1,632	975	--	-1,131	3,390	924	1,132	5,586
Natural Gas Liquids	1,855	-13	-313	1,632	975	--	-1,098	3,390	924	920	5,531
Ethane	--	--	--	--	--	--	--	--	0	0	--
Propane	295	--	929	1,012	230	--	-32	--	651	1,847	2,144
Normal Butane	211	--	-1,269	554	587	--	-1,071	1,721	266	-833	2,950
Isobutane	475	--	27	66	158	--	17	882	1	-174	396
Natural Gasoline	874	-13	--	--	--	--	-12	787	5	81	41
Refinery Olefins	--	--	179	--	--	--	-33	--	--	212	55
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	230	--	--	--	-2	--	--	232	9
Normal Butylene	--	--	-51	--	--	--	-31	--	--	-20	46
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	791	--	3,115	9,721	-2,275	2,570	8,642	407	-267	51,894
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	791	--	669	4,731	369	84	6,331	145	0	4,732
Hydrogen	--	--	--	--	--	1,138	--	1,138	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	1	--	--	1	0	--
Renewable Fuels (including Fuel Ethanol)	--	791	--	669	4,731	-770	84	5,193	144	0	4,732
Fuel Ethanol	--	606	--	236	4,200	-181	79	4,670	112	0	3,223
Renewable Fuels Except Fuel Ethanol	--	185	--	433	531	-589	5	523	33	0	1,509
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	2,374	--	--	1,052	1,492	97	-267	20,306
Motor Gasoline Blend Comp. (MGBC)	--	--	--	72	4,990	-2,644	1,434	819	165	0	26,856
Reformulated	--	--	--	15	2,322	-59	1,064	1,212	2	0	12,579
Conventional	--	--	--	57	2,668	-2,585	370	-393	163	0	14,277
Aviation Gasoline Blend Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	92,676	3,395	1,540	3,089	1,900	--	10,013	88,787	33,946
Finished Motor Gasoline	--	--	46,672	34	236	2,826	-85	--	2,087	47,766	1,989
Reformulated	--	--	32,823	--	--	17	1	--	--	32,839	18
Conventional	--	--	13,849	34	236	2,808	-86	--	2,087	14,926	1,971
Finished Aviation Gasoline	--	--	90	--	--	--	66	--	--	24	240
Kerosene-Type Jet Fuel	--	--	14,186	2,095	131	--	-362	--	719	16,055	9,026
Kerosene	--	--	19	--	--	--	39	--	3	-23	57
Distillate Fuel Oil	--	--	18,351	315	623	264	1,038	--	3,225	15,290	12,861
15 ppm sulfur and under	--	--	17,444	315	623	264	929	--	2,900	14,817	11,823
Greater than 15 ppm to 500 ppm sulfur	--	--	297	--	--	--	15	--	128	154	231
Greater than 500 ppm sulfur	--	--	610	--	--	--	94	--	197	319	807
Residual Fuel Oil ⁶	--	--	3,489	771	--	--	436	--	198	3,626	5,146
Less than 0.31 percent sulfur	--	--	2	--	--	--	-248	--	NA	NA	244
0.31 to 1.00 percent sulfur	--	--	664	203	--	--	256	--	NA	NA	861
Greater than 1.00 percent sulfur	--	--	2,823	568	--	--	426	--	NA	NA	4,031
Petrochemical Feedstocks	--	--	2	--	--	--	0	--	--	2	5
Naphtha for Petro. Feed. Use	--	--	2	--	--	--	0	--	--	2	5
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	42	--	--	--	28	--	--	14	44
Lubricants	--	--	507	27	--	--	-4	--	272	266	1,127
Waxes	--	--	--	50	--	--	--	--	3	47	--
Petroleum Coke	--	--	4,586	32	8	--	279	--	3,470	877	1,476
Marketable	--	--	3,455	32	8	--	279	--	3,470	-254	1,476
Catalyst	--	--	1,131	--	--	--	--	--	--	1,131	--
Asphalt and Road Oil	--	--	856	71	542	--	477	--	36	955	1,888
Still Gas	--	--	3,449	--	--	--	--	--	--	3,449	--
Miscellaneous Products	--	--	427	--	--	--	-12	--	0	439	87
Total	31,155	778	92,542	44,384	17,323	3,266	443	86,855	12,498	89,652	137,733

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See

Appendix B, Note 2C for a detailed explanation of these adjustments.

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

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

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

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

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

Table 22. PAD District 5 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-November 2018
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	319,065	--	--	439,919	50,751	15,918	-4,699	826,412	3,940	0	46,307
Hydrocarbon Gas Liquids	21,233	-150	19,521	14,129	9,175	--	2,252	28,197	14,858	18,601	5,586
Natural Gas Liquids	21,233	-150	16,772	14,126	9,175	--	2,225	28,197	14,858	15,876	--
Ethane	9	--	--	--	--	--	--	--	9	0	--
Propane	3,396	--	12,400	9,862	3,891	--	683	--	10,405	18,461	--
Normal Butane	3,473	--	2,578	3,797	4,191	--	1,555	9,876	4,306	-1,698	--
Isobutane	4,316	--	1,794	467	1,093	--	-20	9,273	5	-1,588	--
Natural Gasoline	10,039	-150	--	--	--	--	7	9,048	133	701	--
Refinery Olefins	--	--	2,749	3	--	--	27	--	--	2,725	--
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	2,979	3	--	--	-18	--	--	3,000	--
Normal Butylene	--	--	-230	--	--	--	45	--	--	-275	--
Isobutylene	--	--	--	--	--	--	0	--	--	0	--
Other Liquids	--	9,765	--	41,410	105,398	-19,105	-2,950	135,120	6,225	-927	51,894
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	9,765	--	5,410	53,559	6,979	1,003	72,432	2,277	0	4,732
Hydrogen	--	--	--	--	--	13,513	--	13,513	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	9	--	--	9	0	--
Renewable Fuels (including Fuel Ethanol)	--	9,765	--	5,410	53,559	-6,543	1,003	58,919	2,268	0	4,732
Fuel Ethanol	--	6,733	--	1,039	49,703	-2,136	671	53,101	1,567	0	3,223
Renewable Fuels Except Fuel Ethanol	--	3,032	--	4,371	3,856	-4,408	332	5,818	701	0	1,509
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	29,772	--	--	398	29,373	928	-927	20,306
Motor Gasoline Blend Comp. (MGBC)	--	--	--	6,228	51,839	-26,083	-4,351	33,315	3,020	0	26,856
Reformulated	--	--	--	966	26,690	-2,175	-3,718	29,177	22	0	12,579
Conventional	--	--	--	5,262	25,149	-23,908	-633	4,138	2,998	0	14,277
Aviation Gasoline Blend Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	1,037,411	46,191	24,497	30,302	-1,021	--	118,949	1,020,473	33,946
Finished Motor Gasoline	--	--	534,379	1,953	5,265	28,219	85	--	20,072	549,659	1,989
Reformulated	--	--	374,890	--	--	1,603	2	--	--	376,491	18
Conventional	--	--	159,489	1,953	5,265	26,616	83	--	20,072	173,168	1,971
Finished Aviation Gasoline	--	--	541	3	--	--	10	--	--	534	240
Kerosene-Type Jet Fuel	--	--	159,804	26,913	3,105	--	-1,217	--	8,949	182,090	9,026
Kerosene	--	--	122	--	--	--	15	--	23	84	57
Distillate Fuel Oil	--	--	189,594	3,972	10,296	2,083	-1,211	--	31,479	175,677	12,861
15 ppm sulfur and under	--	--	181,403	3,580	10,256	2,083	-1,305	--	22,331	176,295	11,823
Greater than 15 ppm to 500 ppm sulfur	--	--	3,309	--	40	--	-9	--	2,492	866	231
Greater than 500 ppm sulfur	--	--	4,882	392	--	--	103	--	6,656	-1,485	807
Residual Fuel Oil ⁶	--	--	37,915	11,051	--	--	896	--	10,726	37,344	5,146
Less than 0.31 percent sulfur	--	--	62	--	--	--	77	--	NA	NA	244
0.31 to 1.00 percent sulfur	--	--	6,949	1,915	--	--	341	--	NA	NA	861
Greater than 1.00 percent sulfur	--	--	30,904	9,136	--	--	474	--	NA	NA	4,031
Petrochemical Feedstocks	--	--	26	340	--	--	3	--	--	363	5
Naphtha for Petro. Feed. Use	--	--	26	340	--	--	3	--	--	363	5
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	363	--	--	--	-1	--	--	364	44
Lubricants	--	--	6,900	146	-359	--	112	--	3,913	2,662	1,127
Waxes	--	--	--	376	--	--	--	--	60	316	--
Petroleum Coke	--	--	52,925	301	-361	--	120	--	43,207	9,538	1,476
Marketable	--	--	40,793	301	-361	--	120	--	43,207	-2,594	1,476
Catalyst	--	--	12,132	--	--	--	--	--	--	12,132	--
Asphalt and Road Oil	--	--	8,658	1,136	6,551	--	202	--	446	15,698	1,888
Still Gas	--	--	41,465	--	--	--	--	--	--	41,465	--
Miscellaneous Products	--	--	4,719	--	--	--	-35	--	75	4,679	87
Total	340,298	9,615	1,056,932	541,649	189,821	27,115	-6,418	989,729	143,972	1,038,148	137,733

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See

Appendix B, Note 2C for a detailed explanation of these adjustments.

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

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

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

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

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

Table 23. PAD District 5 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, November 2018
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	977	--	--	1,208	170	82	-97	2,494	38	0
Hydrocarbon Gas Liquids	62	0	-4	54	33	--	-38	113	31	38
Natural Gas Liquids	62	0	-10	54	33	--	-37	113	31	31
Ethane	--	--	--	--	--	--	--	--	0	0
Propane	10	--	31	34	8	--	-1	--	22	62
Normal Butane	7	--	-42	18	20	--	-36	57	9	-28
Isobutane	16	--	1	2	5	--	1	29	0	-6
Natural Gasoline	29	0	--	--	--	--	0	26	0	3
Refinery Olefins	--	--	6	--	--	--	-1	--	--	7
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	8	--	--	--	0	--	--	8
Normal Butylene	--	--	-2	--	--	--	-1	--	--	-1
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	26	--	104	324	-76	86	288	14	-9
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	26	--	22	158	12	3	211	5	0
Hydrogen	--	--	--	--	--	38	--	38	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	26	--	22	158	-26	3	173	5	0
Fuel Ethanol	--	20	--	8	140	-6	3	156	4	0
Renewable Fuels Except Fuel Ethanol	--	6	--	14	18	-20	0	17	1	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	79	--	--	35	50	3	-9
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	2	166	-88	48	27	5	0
Reformulated	--	--	--	1	77	-2	35	40	0	0
Conventional	--	--	--	2	89	-86	12	-13	5	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,089	113	51	103	63	--	334	2,960
Finished Motor Gasoline	--	--	1,556	1	8	94	-3	--	70	1,592
Reformulated	--	--	1,094	--	--	1	0	--	--	1,095
Conventional	--	--	462	1	8	94	-3	--	70	498
Finished Aviation Gasoline	--	--	3	--	--	--	2	--	--	1
Kerosene-Type Jet Fuel	--	--	473	70	4	--	-12	--	24	535
Kerosene	--	--	1	--	--	--	1	--	0	-1
Distillate Fuel Oil	--	--	612	11	21	9	35	--	108	510
15 ppm sulfur and under	--	--	581	11	21	9	31	--	97	494
Greater than 15 ppm to 500 ppm sulfur	--	--	10	--	--	--	1	--	4	5
Greater than 500 ppm sulfur	--	--	20	--	--	--	3	--	7	11
Residual Fuel Oil ⁶	--	--	116	26	--	--	15	--	7	121
Less than 0.31 percent sulfur	--	--	0	--	--	--	-8	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	22	7	--	--	9	--	NA	NA
Greater than 1.00 percent sulfur	--	--	94	19	--	--	14	--	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	--	--	0
Lubricants	--	--	17	1	--	--	0	--	9	9
Waxes	--	--	--	2	--	--	--	--	0	2
Petroleum Coke	--	--	153	1	0	--	9	--	116	29
Marketable	--	--	115	1	0	--	9	--	116	-8
Catalyst	--	--	38	--	--	--	--	--	--	38
Asphalt and Road Oil	--	--	29	2	18	--	16	--	1	32
Still Gas	--	--	115	--	--	--	--	--	--	115
Miscellaneous Products	--	--	14	--	--	--	0	--	0	15
Total	1,039	26	3,085	1,479	577	109	15	2,895	417	2,988

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

Table 24. PAD District 5 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-November 2018
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	955	--	--	1,317	152	48	-14	2,474	12	0
Hydrocarbon Gas Liquids	64	0	58	42	27	--	7	84	44	56
Natural Gas Liquids	64	0	50	42	27	--	7	84	44	48
Ethane	0	--	--	--	--	--	--	--	0	0
Propane	10	--	37	30	12	--	2	--	31	55
Normal Butane	10	--	8	11	13	--	5	30	13	-5
Isobutane	13	--	5	1	3	--	0	28	0	-5
Natural Gasoline	30	0	--	--	--	--	0	27	0	2
Refinery Olefins	--	--	8	0	--	--	0	--	--	8
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	9	0	--	--	0	--	--	9
Normal Butylene	--	--	-1	--	--	--	0	--	--	-1
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	29	--	124	316	-57	-9	405	19	-3
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	29	--	16	160	21	3	217	7	0
Hydrogen	--	--	--	--	--	40	--	40	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	29	--	16	160	-20	3	176	7	0
Fuel Ethanol	--	20	--	3	149	-6	2	159	5	0
Renewable Fuels Except Fuel Ethanol	--	9	--	13	12	-13	1	17	2	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	89	--	--	1	88	3	-3
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	19	155	-78	-13	100	9	0
Reformulated	--	--	--	3	80	-7	-11	87	0	0
Conventional	--	--	--	16	75	-72	-2	12	9	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,106	138	73	91	-3	--	356	3,055
Finished Motor Gasoline	--	--	1,600	6	16	84	0	--	60	1,646
Reformulated	--	--	1,122	--	--	5	0	--	--	1,127
Conventional	--	--	478	6	16	80	0	--	60	518
Finished Aviation Gasoline	--	--	2	0	--	--	0	--	--	2
Kerosene-Type Jet Fuel	--	--	478	81	9	--	-4	--	27	545
Kerosene	--	--	0	--	--	--	0	--	0	0
Distillate Fuel Oil	--	--	568	12	31	6	-4	--	94	526
15 ppm sulfur and under	--	--	543	11	31	6	-4	--	67	528
Greater than 15 ppm to 500 ppm sulfur	--	--	10	--	0	--	0	--	7	3
Greater than 500 ppm sulfur	--	--	15	1	--	--	0	--	20	-4
Residual Fuel Oil ⁶	--	--	114	33	--	--	3	--	32	112
Less than 0.31 percent sulfur	--	--	0	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	21	6	--	--	1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	93	27	--	--	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	--	--	21	0	-1	--	0	--	12	8
Waxes	--	--	--	1	--	--	--	--	0	1
Petroleum Coke	--	--	158	1	-1	--	0	--	129	29
Marketable	--	--	122	1	-1	--	0	--	129	-8
Catalyst	--	--	36	--	--	--	--	--	--	36
Asphalt and Road Oil	--	--	26	3	20	--	1	--	1	47
Still Gas	--	--	124	--	--	--	--	--	--	124
Miscellaneous Products	--	--	14	--	--	--	0	--	0	14
Total	1,019	29	3,164	1,622	568	81	-19	2,963	431	3,108

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

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

Process	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Supply							
Field Production	1,887	65,026	232,814	27,966	29,300	356,995	11,900
Alaskan	--	--	--	--	--	14,919	497
Lower 48 States	--	--	--	--	--	342,076	11,403
Imports (PAD District of Entry)	24,976	86,983	63,627	12,866	36,242	224,694	7,490
Commercial	24,976	86,983	63,627	12,866	36,242	224,694	7,490
Strategic Petroleum Reserve (SPR)	--	--	--	--	--	--	--
Net Receipts	2,957	-17,454	27,178	-17,769	5,087	--	--
Adjustments ¹	1,938	-4,982	26,768	-4,139	2,452	22,038	735
Disposition							
Stock Change ²	1,336	4,374	6,508	1,553	-2,896	10,875	363
Commercial	--	--	11,781	--	--	16,148	538
SPR	--	--	-5,273	--	--	-5,273	-176
Refinery Inputs	30,253	114,588	277,537	17,372	74,823	514,573	17,152
Exports	170	10,612	66,343	--	1,154	78,278	2,609
Ending Stocks							
Total	12,290	129,413	886,439	23,725	46,307	1,098,174	--
Commercial	12,290	129,413	236,872	23,725	46,307	448,607	--
Refinery	10,460	13,734	50,241	2,560	20,453	97,448	--
Tank Farms and Pipelines	1,830	115,679	186,631	21,165	22,599	347,904	--
Cushing, Oklahoma	--	38,926	--	--	--	38,926	--
Lease	--	--	--	--	--	--	--
Alaskan Crude Oil In-Transit by Water	--	--	--	--	3,255	3,255	--
SPR	--	--	649,567	--	--	649,567	--
SPR Stocks							
Percent of Total Crude Oil Stocks (Percent)	--	--	--	--	--	59.1	--
Percent of Total Petroleum Stocks (Percent)	--	--	--	--	--	34.0	--
Days of Total Petroleum Net Imports (Days)	--	--	--	--	--	1,193	--
SPR Receipts Detail							
Receipts	--	--	--	--	--	--	--
Domestic	--	--	--	--	--	--	--
Imports	--	--	--	--	--	--	--
Imported by SPR	--	--	--	--	--	--	--
Imported for SPR by Others	--	--	--	--	--	--	--
Imports							
PAD District of Entry	24,976	86,983	63,627	12,866	36,242	224,694	7,490
PAD District of Processing	26,793	75,549	74,567	9,588	38,197	224,694	7,490

-- = 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, November 2018
(Thousand Barrels)

PAD District and State	November 2018		January-November 2018	
	Total	Daily Average	Total	Daily Average
PAD District 1	1,887	63	19,099	57
Florida	159	5	1,681	5
New York	15	1	168	1
Pennsylvania	478	16	5,912	18
Virginia	0	0	4	0
West Virginia	1,235	41	11,335	34
PAD District 2	65,026	2,168	672,042	2,012
Illinois	730	24	7,699	23
Indiana	141	5	1,539	5
Kansas	2,770	92	31,776	95
Kentucky	196	7	1,999	6
Michigan	440	15	4,997	15
Missouri	7	0	85	0
Nebraska	171	6	1,875	6
North Dakota	40,913	1,364	417,031	1,249
Ohio	2,131	71	21,113	63
Oklahoma	17,404	580	182,567	547
South Dakota	105	4	1,163	3
Tennessee	18	1	198	1
PAD District 3	232,814	7,760	2,334,613	6,990
Alabama	446	15	5,391	16
Arkansas	384	13	4,478	13
Louisiana	3,696	123	42,479	127
Mississippi	1,501	50	15,931	48
New Mexico	24,088	803	224,835	673
Texas	145,041	4,835	1,465,862	4,389
Federal Offshore PAD District 3	57,658	1,922	575,636	1,723
PAD District 4	27,966	932	284,457	852
Colorado	15,334	511	151,820	455
Idaho	3	0	84	0
Montana	1,896	63	19,428	58
Utah	3,177	106	34,066	102
Wyoming	7,556	252	79,058	237
PAD District 5	29,300	977	319,065	955
Alaska	14,919	497	159,443	477
South Alaska	461	15	5,061	15
North Slope	14,458	482	154,382	462
Arizona	1	0	10	0
California	13,981	466	154,770	463
Nevada	22	1	232	1
Federal Offshore PAD District 5	378	13	4,611	14
U.S. Total	356,995	11,900	3,629,276	10,866

- = 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, November 2018
(Thousand Barrels)

Commodity	Production						
	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	14	16,199	16,213	5,276	8,046	16,665	29,987
Natural Gas Liquids	14	16,199	16,213	5,276	8,046	16,665	29,987
Ethane	-	6,971	6,971	1,441	1,819	7,053	10,313
Propane	5	5,311	5,316	2,397	3,242	5,200	10,839
Normal Butane	9	1,612	1,621	597	1,441	1,793	3,831
Isobutane	-	801	801	395	349	880	1,624
Natural Gasoline	-	1,504	1,504	446	1,195	1,739	3,380

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	56,686	5,103	6,025	821	6,953	75,588	13,480	1,855	137,123
Natural Gas Liquids	56,686	5,103	6,025	821	6,953	75,588	13,480	1,855	137,123
Ethane	24,427	2,303	2,311	306	2,908	32,255	4,324	-	53,863
Propane	17,380	1,503	1,978	183	2,204	23,248	4,631	295	44,329
Normal Butane	5,889	-2,470	689	78	671	4,857	1,873	211	12,393
Isobutane	3,359	3,310	406	66	465	7,606	773	475	11,279
Natural Gasoline	5,631	457	641	188	705	7,622	1,879	874	15,259

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	225	231	1,191	141	245	1,577
Natural Gas Liquids	6	225	231	1,191	141	245	1,577
Ethane	-	-	-	99	3	21	123
Propane	3	97	100	730	45	96	871
Normal Butane	3	36	39	144	32	17	193
Isobutane	-	17	17	138	7	39	184
Natural Gasoline	-	75	75	80	54	72	206

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	76	337	1,284	26	-	1,723	139	362	4,032
Natural Gas Liquids	76	337	1,284	26	-	1,723	139	362	4,032
Ethane	-	82	-	-	-	82	1	-	206
Propane	29	173	21	20	-	243	47	38	1,299
Normal Butane	11	67	926	4	-	1,008	36	271	1,547
Isobutane	7	11	22	-	-	40	12	19	272
Natural Gasoline	29	4	315	2	-	350	43	34	708

- = 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, November 2018
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	27,186	3,067	30,253	74,452	15,686	24,450	114,588
Hydrocarbon Gas Liquids	1,908	-	1,908	2,614	133	1,328	4,075
Natural Gas Liquids	1,908	-	1,908	2,614	133	1,328	4,075
Normal Butane	1,530	-	1,530	995	57	435	1,487
Isobutane	244	-	244	1,003	62	503	1,568
Natural Gasoline	134	-	134	616	14	390	1,020
Other Liquids	76,112	6,233	82,345	9,442	2,159	2,532	14,133
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	9,849	806	10,655	5,857	1,404	1,831	9,092
Hydrogen	91	14	105	670	282	181	1,133
Oxygenates (excluding Fuel Ethanol)	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE)	-	-	-	-	-	-	-
All Other Oxygenates ¹	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	9,758	792	10,550	5,147	1,122	1,650	7,919
Fuel Ethanol	9,452	737	10,189	4,886	1,064	1,579	7,529
Renewable Diesel Fuel ²	306	55	361	261	58	71	390
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	-	40	-	-	40
Unfinished Oils (net)	1,143	-44	1,099	-368	-278	138	-508
Naphthas and Lighter	902	-56	846	643	-147	7	503
Kerosene and Light Gas Oils	-394	17	-377	-405	-117	-157	-679
Heavy Gas Oils	465	-9	456	-174	-14	240	52
Residuum	170	4	174	-432	-	48	-384
Motor Gasoline Blend.Comp. (MGBC)(net)	65,120	5,471	70,591	3,953	1,033	563	5,549
Reformulated - RBOB	16,510	87	16,597	-906	1,212	1,182	1,488
Conventional	48,610	5,384	53,994	4,859	-179	-619	4,061
CBOB	41,924	5,374	47,298	5,272	-406	-469	4,397
GTAB	1,183	-	1,183	-	-	-	-
Other	5,503	10	5,513	-413	227	-150	-336
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input	105,206	9,300	114,506	86,508	17,978	28,310	132,796

See footnotes at end of table.

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

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	19,602	140,929	106,838	6,084	4,084	277,537	17,372	74,823	514,573
Hydrocarbon Gas Liquids	843	5,773	5,387	118	186	12,307	699	3,390	22,379
Natural Gas Liquids	843	5,773	5,387	118	186	12,307	699	3,390	22,379
Normal Butane	581	2,444	2,763	80	—	5,868	298	1,721	10,904
Isobutane	117	1,718	1,571	35	186	3,627	193	882	6,514
Natural Gasoline	145	1,611	1,053	3	—	2,812	208	787	4,961
Other Liquids	8,941	-40,216	-30,038	7,612	-380	-54,081	233	8,642	51,272
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	2,174	3,280	2,177	1,197	236	9,064	1,079	6,331	36,221
Hydrogen	12	2,391	1,551	102	44	4,100	176	1,138	6,652
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	2,162	889	626	1,095	192	4,964	903	5,193	29,529
Fuel Ethanol	2,048	820	473	996	165	4,502	864	4,670	27,754
Renewable Diesel Fuel ²	114	69	153	99	27	462	39	520	1,772
Other Renewable Fuels	—	—	—	—	—	—	—	3	3
Other Hydrocarbons	—	—	—	—	—	—	—	—	40
Unfinished Oils (net)	158	-2,735	8,233	123	-6	5,773	-89	1,492	7,767
Naphthas and Lighter	154	-6,383	-559	20	-7	-6,775	56	3	-5,367
Kerosene and Light Gas Oils	267	-548	-93	16	-19	-377	-223	7	-1,649
Heavy Gas Oils	-254	4,373	8,763	139	20	13,041	-72	922	14,399
Residuum	-9	-177	122	-52	—	-116	150	560	384
Motor Gasoline Blend.Comp. (MGBC)(net)	6,601	-40,761	-40,436	6,292	-610	-68,914	-757	819	7,288
Reformulated - RBOB	5,991	-9,086	-2,140	—	-701	-5,936	—	1,212	13,361
Conventional	610	-31,675	-38,296	6,292	91	-62,978	-757	-393	-6,073
CBOB	680	-33,497	-38,325	6,305	115	-64,722	-771	-370	-14,168
GTAB	—	—	—	—	—	—	—	—	1,183
Other	-70	1,822	29	-13	-24	1,744	14	-23	6,912
Aviation Gasoline Blend. Comp. (net)	8	—	-12	—	—	-4	—	—	-4
Total Input	29,386	106,486	82,187	13,814	3,890	235,763	18,304	86,855	588,224

— = 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, November 2018
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	953	-50	903	851	-262	-12	577
Natural Gas Liquids	480	-50	430	-164	-416	-292	-872
Ethane	-	-	-	-	-	-	-
Propane	580	23	603	1,515	269	380	2,164
Normal Butane	-121	-54	-175	-1,668	-660	-627	-2,955
Isobutane	21	-19	2	-11	-25	-45	-81
Natural Gasoline	-	-	-	-	-	-	-
Refinery Olefins	473	-	473	1,015	154	280	1,449
Ethylene	16	-	16	-	-	-	-
Propylene	467	-	467	887	154	274	1,315
Normal Butylene	-34	-	-34	128	-	5	133
Isobutylene	24	-	24	-	-	1	1
Finished Motor Gasoline	89,989	7,365	97,354	51,434	10,283	16,508	78,225
Reformulated	38,988	97	39,085	8,120	1,601	1,314	11,035
Reformulated Blended with Fuel Ethanol	38,988	97	39,085	8,120	1,601	1,314	11,035
Reformulated Other	-	-	-	-	-	-	-
Conventional	51,001	7,268	58,269	43,314	8,682	15,194	67,190
Conventional Blended with Fuel Ethanol	54,129	7,210	61,339	40,057	9,005	14,062	63,124
Ed55 and Lower	54,077	7,210	61,287	40,046	8,978	13,996	63,020
Greater than Ed55	52	-	52	11	27	66	104
Conventional Other	-3,128	58	-3,070	3,257	-323	1,132	4,066
Finished Aviation Gasoline	-	-	-	-	18	-	18
Kerosene-Type Jet Fuel	1,883	-	1,883	6,629	859	919	8,407
Kerosene	147	3	150	107	-	16	123
Distillate Fuel Oil	9,564	893	10,457	20,313	5,311	9,510	35,134
15 ppm sulfur and under	8,926	779	9,705	20,273	5,403	9,626	35,302
Greater than 15 ppm to 500 ppm sulfur	171	79	250	-	-	93	93
Greater than 500 ppm sulfur	467	35	502	40	-92	-209	-261
Residual Fuel Oil	1,207	-	1,207	1,162	154	114	1,430
Less than 0.31 percent sulfur	463	-	463	49	-	-	49
0.31 to 1.00 percent sulfur	337	-	337	134	68	-	202
Greater than 1.00 percent sulfur	407	-	407	979	86	114	1,179
Petrochemical Feedstocks	104	-	104	856	-	35	891
Naphtha for Petro. Feed. Use	104	-	104	637	-	-	637
Other Oils for Petro. Feed. Use	-	-	-	219	-	35	254
Special Naphthas	-	18	18	54	-	23	77
Lubricants	218	192	410	-	-	221	221
Waxes	-	26	26	-	-	36	36
Petroleum Coke	1,048	21	1,069	3,798	898	911	5,607
Marketable	420	-	420	2,734	735	714	4,183
Catalyst	628	21	649	1,064	163	197	1,424
Asphalt and Road Oil	414	695	1,109	3,063	1,235	259	4,557
Still Gas	1,179	48	1,227	2,711	628	1,011	4,350
Miscellaneous Products	68	32	100	301	119	48	468
Total	106,774	9,243	116,017	91,279	19,243	29,599	140,121
Processing Gain(-) or Loss(+) ¹	-1,568	57	-1,511	-4,771	-1,265	-1,289	-7,325

See footnotes at end of table.

Table 29. Refinery and Blender Net Production of Finished Petroleum Products by PAD and Refining Districts, November 2018
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	440	4,866	5,231	-43	-8	10,486	22	-134	11,854
Natural Gas Liquids	-49	1,366	1,759	-76	-8	2,992	3	-313	2,240
Ethane	0	191	20	-	-	211	-	-	211
Propane	297	2,267	2,299	9	51	4,923	196	929	8,815
Normal Butane	-182	-714	-621	-85	-58	-1,660	-207	-1,269	-6,266
Isobutane	-164	-378	61	-	-1	-482	14	27	-520
Natural Gasoline	-	-	-	-	-	-	-	-	-
Refinery Olefins	489	3,500	3,472	33	-	7,494	19	179	9,614
Ethylene	-	-	-	-	-	-	-	-	16
Propylene	490	3,528	3,372	33	-	7,423	-2	230	9,433
Normal Butylene	-1	7	100	-	-	106	21	-51	175
Isobutylene	-	-35	-	-	-	-35	-	-	-10
Finished Motor Gasoline	20,958	26,436	17,066	9,318	2,082	75,860	9,079	46,672	307,190
Reformulated	7,757	6,420	-	-	-	14,177	-	32,823	97,120
Reformulated Blended with Fuel Ethanol	7,757	6,420	-	-	-	14,177	-	32,823	97,120
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	13,201	20,016	17,066	9,318	2,082	61,683	9,079	13,849	210,070
Conventional Blended with Fuel Ethanol	12,330	1,620	4,696	9,859	1,669	30,174	8,612	13,551	176,800
Ed55 and Lower	12,310	1,620	4,696	9,846	1,669	30,141	8,597	13,547	176,592
Greater than Ed55	20	-	-	13	-	33	15	4	208
Conventional Other	871	18,396	12,370	-541	413	31,509	467	298	33,270
Finished Aviation Gasoline	97	87	52	-	-	236	5	90	349
Kerosene-Type Jet Fuel	1,205	13,421	13,087	34	-	27,747	837	14,186	53,060
Kerosene	22	1	74	44	-	141	-	19	433
Distillate Fuel Oil	5,890	46,673	33,950	2,390	1,697	90,600	5,961	18,351	160,503
15 ppm sulfur and under	5,869	44,908	27,445	2,279	1,697	82,198	5,882	17,444	150,531
Greater than 15 ppm to 500 ppm sulfur	21	326	2,752	126	-	3,225	36	297	3,901
Greater than 500 ppm sulfur	-	1,439	3,753	-15	-	5,177	43	610	6,071
Residual Fuel Oil	248	1,800	4,793	-19	137	6,959	408	3,489	13,493
Less than 0.31 percent sulfur	125	-5	921	-	-	1,041	231	2	1,786
0.31 to 1.00 percent sulfur	-	86	354	-19	18	439	28	664	1,670
Greater than 1.00 percent sulfur	123	1,719	3,518	-	119	5,479	149	2,823	10,037
Petrochemical Feedstocks	135	5,361	3,261	2	-	8,759	-	2	9,756
Naphtha for Petro. Feed. Use	121	3,879	1,759	2	-	5,761	-	2	6,504
Other Oils for Petro. Feed. Use	14	1,482	1,502	-	-	2,998	-	-	3,252
Special Naphthas	94	696	-	183	-	973	-	42	1,110
Lubricants	25	1,713	1,507	812	-	4,057	-	507	5,195
Waxes	-	44	19	21	-	84	-	-	146
Petroleum Coke	420	8,320	5,841	114	37	14,732	724	4,586	26,718
Marketable	182	6,391	4,472	102	-	11,147	528	3,455	19,733
Catalyst	238	1,929	1,369	12	37	3,585	196	1,131	6,985
Asphalt and Road Oil	182	461	514	761	-6	1,912	1,295	856	9,729
Still Gas	690	5,779	4,182	196	81	10,928	618	3,449	20,572
Miscellaneous Products	127	1,039	559	17	41	1,783	91	427	2,869
Total	30,533	116,697	90,136	13,830	4,061	255,257	19,040	92,542	622,977
Processing Gain(-) or Loss(+) ¹	-1,147	-10,211	-7,949	-16	-171	-19,494	-736	-5,687	-34,753

- = 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, November 2018
(Thousand Barrels, Except Where Noted)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	27,186	3,067	30,253	74,452	15,686	24,450	114,588
Hydrocarbon Gas Liquids	886	-	886	2,473	62	855	3,390
Natural Gas Liquids	886	-	886	2,473	62	855	3,390
Normal Butane	642	-	642	854	-	37	891
Isobutane	244	-	244	1,003	62	503	1,568
Natural Gasoline	-	-	-	616	-	315	931
Other Liquids	-12,482	101	-12,381	-35,548	-6,602	-11,061	-53,211
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	158	160	318	976	397	309	1,682
Hydrogen	91	14	105	670	282	181	1,133
Oxygenates (excluding Fuel Ethanol)	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE)	-	-	-	-	-	-	-
All Other Oxygenates ¹	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	67	146	213	266	115	128	509
Fuel Ethanol	67	122	189	166	94	106	366
Renewable Diesel Fuel ²	-	24	24	100	21	22	143
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	-	40	-	-	40
Unfinished Oils (net)	1,143	-44	1,099	-344	-278	138	-484
Naphthas and Lighter	902	-56	846	643	-147	7	503
Kerosene and Light Gas Oils	-394	17	-377	-405	-117	-157	-679
Heavy Gas Oils	465	-9	456	-174	-14	240	52
Residuum	170	4	174	-408	-	48	-360
Motor Gasoline Blend.Comp. (MGBC)(net)	-13,783	-15	-13,798	-36,180	-6,721	-11,508	-54,409
Reformulated - RBOB	-8,942	-	-8,942	-7,905	-227	-	-8,132
Conventional	-4,841	-15	-4,856	-28,275	-6,494	-11,508	-46,277
CBOB	-4,852	-25	-4,877	-27,905	-6,721	-11,358	-45,984
GTAB	-	-	-	-	-	-	-
Other	11	10	21	-370	227	-150	-293
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input to Refineries	15,590	3,168	18,758	41,377	9,146	14,244	64,767
Atmospheric Crude Oil Distillation							
Gross Input (daily average)	906	104	1,011	2,464	522	816	3,802
Operable Capacity (daily average)	1,125	98	1,224	2,640	540	914	4,094
Operable Utilization Rate (percent) ³	80.5	106.3	82.6	93.3	96.8	89.3	92.9
Downstream Processing							
Fresh Feed Input (daily average)							
Catalytic Reforming	161	16	177	463	77	148	688
Catalytic Cracking	357	18	374	715	146	216	1,076
Catalytic Hydrocracking	23	-	23	170	62	56	288
Delayed and Fluid Coking	58	-	58	344	71	97	511
Crude Oil Qualities							
Sulfur Content, Weighted Average (percent)	0.92	1.66	0.99	1.60	1.88	0.69	1.44
API Gravity, Weighted Average (degrees)	33.98	31.97	33.78	32.56	27.40	38.28	33.00
Operable Capacity (daily average)	1,125	98	1,224	2,640	540	914	4,094
Operating	1,125	98	1,224	2,613	502	914	4,029
Idle	-	-	-	28	38	-	66
Alaskan Crude Oil Receipts	-	-	-	-	-	-	-

See footnotes at end of table.

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

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	19,602	140,929	106,838	6,084	4,084	277,537	17,372	74,823	514,573
Hydrocarbon Gas Liquids	757	4,533	5,137	38	186	10,651	571	3,355	18,853
Natural Gas Liquids	757	4,533	5,137	38	186	10,651	571	3,355	18,853
Normal Butane	508	1,904	2,513	—	—	4,925	216	1,686	8,360
Isobutane	117	1,718	1,571	35	186	3,627	190	882	6,511
Natural Gasoline	132	911	1,053	3	—	2,099	165	787	3,982
Other Liquids	-8,838	-50,674	-32,851	-1,279	-1,474	-95,116	-4,208	-35,416	-200,332
Hydrogen/Oxygenates/Renewables/									
Other Hydrocarbons	282	2,452	1,876	190	110	4,910	481	1,459	8,850
Hydrogen	12	2,391	1,551	102	44	4,100	176	1,138	6,652
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	270	61	325	88	66	810	305	321	2,158
Fuel Ethanol	213	47	172	29	55	516	281	92	1,444
Renewable Diesel Fuel ²	57	14	153	59	11	294	24	229	714
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	—	—	—	—	—	40
Unfinished Oils (net)	158	-2,565	8,169	123	-6	5,879	-89	1,492	7,897
Naphthas and Lighter	154	-6,383	-559	20	-7	-6,775	56	3	-5,367
Kerosene and Light Gas Oils	267	-378	-105	16	-19	-219	-223	7	-1,491
Heavy Gas Oils	-254	4,373	8,711	139	20	12,989	-72	922	14,347
Residium	-9	-177	122	-52	—	-116	150	560	408
Motor Gasoline Blend.Comp. (MGBC)(net)	-9,286	-50,561	-42,884	-1,592	-1,578	-105,901	-4,600	-38,367	-217,075
Reformulated - RBOB	-949	-13,319	-2,140	—	-701	-17,109	—	-27,751	-61,934
Conventional	-8,337	-37,242	-40,744	-1,592	-877	-88,792	-4,600	-10,616	-155,141
CBOB	-8,267	-31,892	-39,479	-1,540	-848	-82,026	-4,612	-10,592	-148,091
GTAB	—	—	—	—	—	—	—	—	—
Other	-70	-5,350	-1,265	-52	-29	-6,766	12	-24	-7,050
Aviation Gasoline Blend. Comp. (net)	8	—	-12	—	—	-4	—	—	-4
Total Input to Refineries	11,521	94,788	79,124	4,843	2,796	193,072	13,735	42,762	333,094
Atmospheric Crude Oil Distillation									
Gross Input (daily average)	661	4,792	3,658	186	135	9,433	580	2,676	17,501
Operable Capacity (daily average)	747	4,955	3,671	256	137	9,765	683	2,838	18,603
Operable Utilization Rate (percent) ³	88.6	96.7	99.7	72.4	98.9	96.6	85.0	94.3	94.1
Downstream Processing									
Fresh Feed Input (daily average)									
Catalytic Reforming	147	674	570	29	31	1,451	93	372	2,781
Catalytic Cracking	169	1,279	1,113	16	35	2,613	144	719	4,927
Catalytic Hydrocracking	38	589	402	16	18	1,063	20	455	1,849
Delayed and Fluid Coking	26	814	526	19	—	1,385	61	451	2,466
Crude Oil Qualities									
Sulfur Content, Weighted Average (percent)	0.54	1.55	1.38	1.62	0.70	1.40	1.44	1.45	1.39
API Gravity, Weighted Average (degrees)	39.72	32.18	32.03	30.60	39.67	32.75	32.94	28.43	32.25
Operable Capacity (daily average)	747	4,955	3,671	256	137	9,765	683	2,838	18,603
Operating	747	4,955	3,671	256	137	9,765	673	2,838	18,528
Idle	—	—	—	—	—	—	10	—	75
Alaskan Crude Oil Receipts	—	—	—	—	—	—	—	15,614	15,614

— = 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, November 2018
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	953	-50	903	851	-262	-12	577
Natural Gas Liquids	480	-50	430	-164	-416	-292	-872
Ethane	-	-	-	-	-	-	-
Propane	580	23	603	1,515	269	380	2,164
Normal Butane	-121	-54	-175	-1,668	-660	-627	-2,955
Isobutane	21	-19	2	-11	-25	-45	-81
Natural Gasoline	-	-	-	-	-	-	-
Refinery Olefins	473	-	473	1,015	154	280	1,449
Ethylene	16	-	16	-	-	-	-
Propylene	467	-	467	887	154	274	1,315
Normal Butylene	-34	-	-34	128	-	5	133
Isobutylene	24	-	24	-	-	1	1
Finished Motor Gasoline	672	1,264	1,936	6,439	1,486	2,493	10,418
Reformulated	672	-	672	-	-	-	-
Reformulated Blended with Fuel Ethanol	672	-	672	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-
Conventional	-	1,264	1,264	6,439	1,486	2,493	10,418
Conventional Blended with Fuel Ethanol	-	1,196	1,196	1,682	1,084	1,072	3,838
Ed55 and Lower	-	1,196	1,196	1,682	1,084	1,072	3,838
Greater than Ed55	-	-	-	-	-	-	-
Conventional Other	-	68	68	4,757	402	1,421	6,580
Finished Aviation Gasoline	-	-	-	-	18	-	18
Kerosene-Type Jet Fuel	1,925	-	1,925	6,629	859	919	8,407
Kerosene	106	3	109	108	-	16	124
Distillate Fuel Oil	9,224	862	10,086	20,151	5,275	9,459	34,885
15 ppm sulfur and under	8,597	748	9,345	20,111	5,367	9,575	35,053
Greater than 15 ppm to 500 ppm sulfur	6	79	85	-	-	7	7
Greater than 500 ppm sulfur	621	35	656	40	-92	-123	-175
Residual Fuel Oil	1,243	-	1,243	1,162	154	114	1,430
Less than 0.31 percent sulfur	505	-	505	49	-	-	49
0.31 to 1.00 percent sulfur	336	-	336	134	68	-	202
Greater than 1.00 percent sulfur	402	-	402	979	86	114	1,179
Petrochemical Feedstocks	104	-	104	856	-	35	891
Naphtha for Petro. Feed. Use	104	-	104	637	-	-	637
Other Oils for Petro. Feed. Use	-	-	-	219	-	35	254
Special Naphthas	-	18	18	54	-	23	77
Lubricants	218	192	410	-	-	221	221
Waxes	-	26	26	-	-	36	36
Petroleum Coke	1,048	21	1,069	3,798	898	911	5,607
Marketable	420	-	420	2,734	735	714	4,183
Catalyst	628	21	649	1,064	163	197	1,424
Asphalt and Road Oil	414	695	1,109	3,087	1,235	259	4,581
Still Gas	1,179	48	1,227	2,711	628	1,011	4,350
Miscellaneous Products	68	32	100	301	119	48	468
Total	17,154	3,111	20,265	46,147	10,410	15,533	72,090
Processing Gain(-) or Loss(+) ¹	-1,564	57	-1,507	-4,770	-1,264	-1,289	-7,323

See footnotes at end of table.

Table 31. Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts, November 2018
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						Total	PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico					
Hydrocarbon Gas Liquids	440	4,866	5,231	-43	-8	10,486	22	-134	11,854	
Natural Gas Liquids	-49	1,366	1,759	-76	-8	2,992	3	-313	2,240	
Ethane	0	191	20	-	-	211	-	-	211	
Propane	297	2,267	2,299	9	51	4,923	196	929	8,815	
Normal Butane	-182	-714	-621	-85	-58	-1,660	-207	-1,269	-6,266	
Isobutane	-164	-378	61	-	-1	-482	14	27	-520	
Natural Gasoline	-	-	-	-	-	-	-	-	-	
Refinery Olefins	489	3,500	3,472	33	-	7,494	19	179	9,614	
Ethylene	-	-	-	-	-	-	-	-	16	
Propylene	490	3,528	3,372	33	-	7,423	-2	230	9,433	
Normal Butylene	-1	7	100	-	-	106	21	-51	175	
Isobutylene	-	-35	-	-	-	-35	-	-	-10	
Finished Motor Gasoline	3,150	14,623	14,066	387	1,004	33,230	4,525	2,866	52,975	
Reformulated	-	-	-	-	-	-	-	613	1,285	
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	613	1,285	
Reformulated Other	-	-	-	-	-	-	-	-	-	
Conventional	3,150	14,623	14,066	387	1,004	33,230	4,525	2,253	51,690	
Conventional Blended with Fuel Ethanol	2,043	471	1,712	300	556	5,082	2,856	304	13,276	
Ed55 and Lower	2,038	471	1,712	300	556	5,077	2,856	304	13,271	
Greater than Ed55	5	-	-	-	-	5	-	-	5	
Conventional Other	1,107	14,152	12,354	87	448	28,148	1,669	1,949	38,414	
Finished Aviation Gasoline	97	87	52	-	-	236	5	90	349	
Kerosene-Type Jet Fuel	1,205	13,423	13,080	34	-	27,742	789	14,208	53,071	
Kerosene	22	1	71	44	-	138	-	-2	369	
Distillate Fuel Oil	5,832	46,751	33,959	2,350	1,681	90,573	5,994	18,062	159,600	
15 ppm sulfur and under	5,811	44,857	27,454	2,239	1,681	82,042	5,915	17,171	149,526	
Greater than 15 ppm to 500 ppm sulfur	21	326	2,752	126	-	3,225	36	297	3,650	
Greater than 500 ppm sulfur	-	1,568	3,753	-15	-	5,306	43	594	6,424	
Residual Fuel Oil	248	1,836	4,696	-19	137	6,898	408	3,487	13,466	
Less than 0.31 percent sulfur	125	31	921	-	-	1,077	231	-	1,862	
0.31 to 1.00 percent sulfur	-	132	351	-19	18	482	28	664	1,712	
Greater than 1.00 percent sulfur	123	1,673	3,424	-	119	5,339	149	2,823	9,892	
Petrochemical Feedstocks	135	5,361	3,261	2	-	8,759	-	2	9,756	
Naphtha for Petro. Feed. Use	121	3,879	1,759	2	-	5,761	-	2	6,504	
Other Oils for Petro. Feed. Use	14	1,482	1,502	-	-	2,998	-	-	3,252	
Special Naphthas	94	696	-	183	-	973	-	42	1,110	
Lubricants	25	1,713	1,507	812	-	4,057	-	507	5,195	
Waxes	-	44	19	21	-	84	-	-	146	
Petroleum Coke	420	8,320	5,841	114	37	14,732	724	4,586	26,718	
Marketable	182	6,391	4,472	102	-	11,147	528	3,455	19,733	
Catalyst	238	1,929	1,369	12	37	3,585	196	1,131	6,985	
Asphalt and Road Oil	182	461	547	761	-6	1,945	1,295	856	9,786	
Still Gas	690	5,779	4,182	196	81	10,928	618	3,449	20,572	
Miscellaneous Products	127	1,039	559	17	41	1,783	91	427	2,869	
Total	12,667	105,000	87,071	4,859	2,967	212,564	14,471	48,446	367,836	
Processing Gain(-) or Loss(+) ¹	-1,146	-10,212	-7,947	-16	-171	-19,492	-736	-5,684	-34,742	

- = 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, November 2018
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	1,022	-	1,022	141	71	473	685
Natural Gas Liquids	1,022	-	1,022	141	71	473	685
Normal Butane	888	-	888	141	57	398	596
Isobutane	-	-	-	-	-	-	-
Natural Gasoline	134	-	134	-	14	75	89
Other Liquids	88,594	6,132	94,726	44,990	8,761	13,593	67,344
Oxygenates/Renewables	9,691	646	10,337	4,881	1,007	1,522	7,410
Oxygenates (excluding Fuel Ethanol)	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE)	-	-	-	-	-	-	-
All Other Oxygenates ¹	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	9,691	646	10,337	4,881	1,007	1,522	7,410
Fuel Ethanol	9,385	615	10,000	4,720	970	1,473	7,163
Renewable Diesel Fuel ²	306	31	337	161	37	49	247
Other Renewable Fuels	-	-	-	-	-	-	-
Unfinished Oils (net)	-	-	-	-24	-	-	-24
Naphthas and Lighter	-	-	-	-	-	-	-
Kerosene and Light Gas Oils	-	-	-	-	-	-	-
Heavy Gas Oils	-	-	-	-	-	-	-
Residuum	-	-	-	-24	-	-	-24
Motor Gasoline Blend.Comp. (MGBC)(net)	78,903	5,486	84,389	40,133	7,754	12,071	59,958
Reformulated - RBOB	25,452	87	25,539	6,999	1,439	1,182	9,620
Conventional	53,451	5,399	58,850	33,134	6,315	10,889	50,338
CBOB	46,776	5,399	52,175	33,177	6,315	10,889	50,381
GTAB	1,183	-	1,183	-	-	-	-
Other	5,492	-	5,492	-43	-	-	-43
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input	89,616	6,132	95,748	45,131	8,832	14,066	68,029

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	86	1,240	250	80	-	1,656	128	35	3,526
Natural Gas Liquids	86	1,240	250	80	-	1,656	128	35	3,526
Normal Butane	73	540	250	80	-	943	82	35	2,544
Isobutane	-	-	-	-	-	-	3	-	3
Natural Gasoline	13	700	-	-	-	713	43	-	979
Other Liquids	17,779	10,458	2,813	8,891	1,094	41,035	4,441	44,058	251,604
Oxygenates/Renewables	1,892	828	301	1,007	126	4,154	598	4,872	27,371
Oxygenates (excluding Fuel Ethanol)	-	-	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE)	-	-	-	-	-	-	-	-	-
All Other Oxygenates ¹	-	-	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	1,892	828	301	1,007	126	4,154	598	4,872	27,371
Fuel Ethanol	1,835	773	301	967	110	3,986	583	4,578	26,310
Renewable Diesel Fuel ²	57	55	-	40	16	168	15	291	1,058
Other Renewable Fuels	-	-	-	-	-	-	-	3	3
Unfinished Oils (net)	-	-170	64	-	-	-106	-	-	-130
Naphthas and Lighter	-	-	-	-	-	-	-	-	-
Kerosene and Light Gas Oils	-	-170	12	-	-	-158	-	-	-158
Heavy Gas Oils	-	-	52	-	-	52	-	-	52
Residuum	-	-	-	-	-	-	-	-	-24
Motor Gasoline Blend.Comp. (MGBC)(net)	15,887	9,800	2,448	7,884	968	36,987	3,843	39,186	224,363
Reformulated - RBOB	6,940	4,233	-	-	-	11,173	-	28,963	75,295
Conventional	8,947	5,567	2,448	7,884	968	25,814	3,843	10,223	149,068
CBOB	8,947	-1,605	1,154	7,845	963	17,304	3,841	10,222	133,923
GTAB	-	-	-	-	-	-	-	-	1,183
Other	-	7,172	1,294	39	5	8,510	2	1	13,962
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-	-	-
Total Input	17,865	11,698	3,063	8,971	1,094	42,691	4,569	44,093	255,130

- = 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, November 2018
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Finished Motor Gasoline	89,317	6,101	95,418	44,995	8,797	14,015	67,807
Reformulated	38,316	97	38,413	8,120	1,601	1,314	11,035
Reformulated Blended with Fuel Ethanol	38,316	97	38,413	8,120	1,601	1,314	11,035
Reformulated Other	-	-	-	-	-	-	-
Conventional	51,001	6,004	57,005	36,875	7,196	12,701	56,772
Conventional Blended with Fuel Ethanol	54,129	6,014	60,143	38,375	7,921	12,990	59,286
Ed55 and Lower	54,077	6,014	60,091	38,364	7,894	12,924	59,182
Greater than Ed55	52	-	52	11	27	66	104
Conventional Other	-3,128	-10	-3,138	-1,500	-725	-289	-2,514
Finished Aviation Gasoline	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	-42	-	-42	-	-	-	-
Kerosene	41	-	41	-1	-	-	-1
Distillate Fuel Oil	340	31	371	162	36	51	249
15 ppm sulfur and under	329	31	360	162	36	51	249
Greater than 15 ppm to 500 ppm sulfur	165	-	165	-	-	86	86
Greater than 500 ppm sulfur	-154	-	-154	-	-	-86	-86
Residual Fuel Oil	-36	-	-36	-	-	-	-
Less than 0.31 percent sulfur	-42	-	-42	-	-	-	-
0.31 to 1.00 percent sulfur	1	-	1	-	-	-	-
Greater than 1.00 percent sulfur	5	-	5	-	-	-	-
Special Naphthas	-	-	-	-	-	-	-
Lubricants	-	-	-	-	-	-	-
Asphalt and Road Oil	-	-	-	-24	-	-	-24
Miscellaneous Products	-	-	-	-	-	-	-
Total Production	89,620	6,132	95,752	45,132	8,833	14,066	68,031
Processing Gain(-) or Loss(+) ¹	-4	0	-4	-1	-1	0	-2

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Finished Motor Gasoline	17,808	11,813	3,000	8,931	1,078	42,630	4,554	43,806	254,215
Reformulated	7,757	6,420	-	-	-	14,177	-	32,210	95,835
Reformulated Blended with Fuel Ethanol	7,757	6,420	-	-	-	14,177	-	32,210	95,835
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	10,051	5,393	3,000	8,931	1,078	28,453	4,554	11,596	158,380
Conventional Blended with Fuel Ethanol	10,287	1,149	2,984	9,559	1,113	25,092	5,756	13,247	163,524
Ed55 and Lower	10,272	1,149	2,984	9,546	1,113	25,064	5,741	13,243	163,321
Greater than Ed55	15	-	-	13	-	28	15	4	203
Conventional Other	-236	4,244	16	-628	-35	3,361	-1,202	-1,651	-5,144
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	-	-2	7	-	-	5	48	-22	-11
Kerosene	-	-	3	-	-	3	-	21	64
Distillate Fuel Oil	58	-78	-9	40	16	27	-33	289	903
15 ppm sulfur and under	58	51	-9	40	16	156	-33	273	1,005
Greater than 15 ppm to 500 ppm sulfur	-	-	-	-	-	-	-	-	251
Greater than 500 ppm sulfur	-	-129	-	-	-	-129	-	16	-353
Residual Fuel Oil	-	-36	97	-	-	61	-	2	27
Less than 0.31 percent sulfur	-	-36	-	-	-	-36	-	2	-76
0.31 to 1.00 percent sulfur	-	-46	3	-	-	-43	-	-	-42
Greater than 1.00 percent sulfur	-	46	94	-	-	140	-	-	145
Special Naphthas	-	-	-	-	-	-	-	-	-
Lubricants	-	-	-	-	-	-	-	-	-
Asphalt and Road Oil	-	-	-33	-	-	-33	-	-	-57
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total Production	17,866	11,697	3,065	8,971	1,094	42,693	4,569	44,096	255,141
Processing Gain(-) or Loss(+) ¹	-1	1	-2	0	0	-2	0	-3	-11

- = 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, November 2018
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	9,780	680	10,460	9,363	2,486	1,885	13,734
Petroleum Products	14,752	2,027	16,779	31,301	7,979	12,055	51,335
Hydrocarbon Gas Liquids	909	37	946	2,197	408	1,471	4,076
Natural Gas Liquids	611	37	648	1,780	380	1,405	3,565
Ethane	—	—	—	—	—	—	—
Propane	81	2	83	444	38	928	1,410
Normal Butane	332	22	354	984	295	190	1,469
Isobutane	198	13	211	244	47	98	389
Natural Gasoline	—	—	—	108	—	189	297
Refinery Olefins	298	0	298	417	28	66	511
Ethylene	—	—	—	—	—	—	—
Propylene	128	0	128	327	28	8	363
Normal Butylene	130	0	130	90	0	13	103
Isobutylene	40	0	40	0	0	45	45
Oxygenates/Renewable Fuels/Other Hydrocarbons ...	90	85	175	66	56	26	148
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	90	85	175	53	56	26	135
Fuel Ethanol	90	80	170	36	41	22	99
Renewable Diesel Fuel ²	—	5	5	17	15	4	36
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	13	—	—	13
Unfinished Oils	4,273	434	4,707	9,395	745	4,035	14,175
Naphthas and Lighter	779	286	1,065	2,203	214	1,151	3,568
Kerosene and Light Gas Oils	801	—	801	2,076	239	764	3,079
Heavy Gas Oils	1,894	135	2,029	3,489	288	1,454	5,231
Residuum	799	13	812	1,627	4	666	2,297
Motor Gasoline Blending Components (MGBC)	4,960	202	5,162	8,500	2,571	3,214	14,285
Reformulated - RBOB	1,695	—	1,695	1,141	28	—	1,169
Conventional	3,265	202	3,467	7,359	2,543	3,214	13,116
CBOB	497	174	671	3,060	1,262	1,910	6,232
GTAB	—	—	—	—	—	—	—
Other	2,768	28	2,796	4,299	1,281	1,304	6,884
Aviation Gasoline Blending Components	—	—	—	—	—	—	—
Finished Motor Gasoline	—	41	41	915	76	310	1,301
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	—	41	41	915	76	310	1,301
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	—	41	41	915	76	310	1,301
Finished Aviation Gasoline	—	—	—	—	58	—	58
Kerosene-Type Jet Fuel	615	—	615	1,406	272	246	1,924
Kerosene	171	5	176	93	—	11	104
Distillate Fuel Oil	2,316	259	2,575	3,902	1,219	1,648	6,769
15 ppm sulfur and under	2,006	117	2,123	3,719	1,052	1,487	6,258
Greater than 15 ppm to 500 ppm sulfur	41	125	166	—	9	84	93
Greater than 500 ppm sulfur	269	17	286	183	158	77	418
Residual Fuel Oil	635	10	645	750	215	48	1,013
Less than 0.31 percent sulfur	148	8	156	39	—	—	39
0.31 to 1.00 percent sulfur	61	2	63	93	19	—	112
Greater than 1.00 percent sulfur	426	—	426	618	196	48	862
Petrochemical Feedstocks	114	—	114	609	—	—	609
Naphtha for Petro. Feed. Use	114	—	114	476	—	—	476
Other Oils for Petro. Feed. Use	—	—	—	133	—	—	133
Special Naphthas	—	25	25	61	—	18	79
Lubricants	503	208	711	—	—	496	496
Waxes	—	388	388	—	—	51	51
Petroleum Coke	—	—	—	307	923	92	1,322
Marketable	—	—	—	307	923	92	1,322
Catalyst	—	—	—	—	—	—	—
Asphalt and Road Oil	153	314	467	3,025	1,409	383	4,817
Miscellaneous Products	13	19	32	75	27	6	108
Total Stocks, All Oils	24,532	2,707	27,239	40,664	10,465	13,940	65,069

See footnotes at end of table.

Table 34. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, November 2018
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	1,888	27,817	18,987	1,255	294	50,241	2,560	20,453	97,448
Petroleum Products	9,606	60,136	51,911	3,930	1,525	127,108	11,025	51,249	257,496
Hydrocarbon Gas Liquids	2,694	2,181	4,791	13	115	9,794	474	1,489	16,779
Natural Gas Liquids	1,822	1,941	3,044	12	115	6,934	407	1,434	12,988
Ethane	194	—	—	—	—	194	—	—	194
Propane	368	446	164	1	4	983	40	87	2,603
Normal Butane	900	1,252	1,733	6	102	3,993	261	968	7,045
Isobutane	284	212	837	5	5	1,343	97	377	2,417
Natural Gasoline	76	31	310	—	4	421	9	2	729
Refinery Olefins	872	240	1,747	1	0	2,860	67	55	3,791
Ethylene	0	—	—	—	—	0	—	—	0
Propylene	869	46	277	1	0	1,193	0	9	1,693
Normal Butylene	3	194	1,470	0	0	1,667	67	46	2,013
Isobutylene	0	0	0	0	0	0	0	0	85
Oxygenates/Renewable Fuels/Other Hydrocarbons	41	44	279	62	9	435	191	270	1,219
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	41	44	279	62	9	435	191	270	1,206
Fuel Ethanol	34	22	74	34	8	172	109	34	584
Renewable Diesel Fuel ²	7	22	205	28	1	263	82	236	622
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	—	—	—	—	—	13
Unfinished Oils	2,316	21,707	15,300	873	578	40,774	3,567	19,364	82,587
Naphthas and Lighter	804	6,528	2,300	247	174	10,053	699	3,087	18,472
Kerosene and Light Gas Oils	537	3,125	2,468	196	178	6,504	652	3,268	14,304
Heavy Gas Oils	474	10,156	8,026	370	220	19,246	1,629	10,293	38,428
Residuum	501	1,898	2,506	60	6	4,971	587	2,716	11,383
Motor Gasoline Blending Components (MGBC)	2,317	12,368	13,208	312	343	28,548	2,769	14,094	64,858
Reformulated - RBOB	150	986	212	—	—	1,348	—	5,127	9,339
Conventional	2,167	11,382	12,996	312	343	27,200	2,769	8,967	55,519
CBOB	931	3,707	6,988	217	12	11,855	1,302	2,524	22,584
GTAB	—	—	1	—	—	1	—	—	1
Other	1,236	7,675	6,007	95	331	15,344	1,467	6,443	32,934
Aviation Gasoline Blending Components	18	—	16	—	—	34	—	—	34
Finished Motor Gasoline	365	1,758	1,593	32	70	3,818	709	603	6,472
Reformulated	—	—	—	—	—	—	—	18	18
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	18	18
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	365	1,758	1,593	32	70	3,818	709	585	6,454
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	60	—	60
Ed55 and Lower	—	—	—	—	—	—	60	—	60
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	365	1,758	1,593	32	70	3,818	649	585	6,394
Finished Aviation Gasoline	33	215	150	—	—	398	9	155	620
Kerosene-Type Jet Fuel	335	3,440	2,366	38	—	6,179	275	3,898	12,891
Kerosene	41	7	124	5	—	177	1	1	459
Distillate Fuel Oil	803	6,834	7,065	362	136	15,200	1,723	5,421	31,688
15 ppm sulfur and under	768	5,920	5,176	233	136	12,233	1,482	4,726	26,822
Greater than 15 ppm to 500 ppm sulfur	35	161	692	41	—	929	164	216	1,568
Greater than 500 ppm sulfur	—	753	1,197	88	—	2,038	77	479	3,298
Residual Fuel Oil	48	2,157	2,092	35	116	4,448	246	2,907	9,259
Less than 0.31 percent sulfur	4	—	212	—	—	216	34	—	445
0.31 to 1.00 percent sulfur	—	170	62	35	5	272	14	435	896
Greater than 1.00 percent sulfur	44	1,987	1,818	—	111	3,960	198	2,472	7,918
Petrochemical Feedstocks	114	1,943	803	20	—	2,880	—	5	3,608
Naphtha for Petro. Feed. Use	35	1,143	652	20	—	1,850	—	5	2,445
Other Oils for Petro. Feed. Use	79	800	151	—	—	1,030	—	—	1,163
Special Naphthas	73	776	—	100	—	949	—	44	1,097
Lubricants	52	2,547	2,443	863	—	5,905	—	825	7,937
Waxes	—	95	96	61	—	252	—	—	691
Petroleum Coke	9	3,648	1,027	—	—	4,684	93	1,476	7,575
Marketable	9	3,648	1,027	—	—	4,684	93	1,476	7,575
Catalyst	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	331	183	468	1,153	131	2,266	951	614	9,115
Miscellaneous Products	16	233	90	1	27	367	17	83	607
Total Stocks, All Oils	11,494	87,953	70,898	5,185	1,819	177,349	13,585	71,702	354,944

— = 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, November 2018

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	3.4	-1.7	2.9	1.1	-1.7	-0.1	0.5
Finished Motor Gasoline ¹	47.5	38.1	46.6	53.4	51.3	52.7	53.0
Finished Aviation Gasoline ²	-	-	-	-	0.1	-	0.0
Kerosene-Type Jet Fuel	6.8	-	6.1	8.9	5.5	3.7	7.3
Kerosene	0.4	0.1	0.4	0.1	-	0.1	0.1
Distillate Fuel Oil ³	32.5	27.6	32.0	26.8	33.5	38.1	30.1
Residual Fuel Oil	4.4	-	4.0	1.6	1.0	0.5	1.2
Naphtha for Petro. Feed. Use	0.4	-	0.3	0.9	-	-	0.6
Other Oils for Petro. Feed. Use	-	-	-	0.3	-	0.1	0.2
Special Naphthas	-	0.6	0.1	0.1	-	0.1	0.1
Lubricants	0.8	6.3	1.3	-	-	0.9	0.2
Waxes	-	0.9	0.1	-	-	0.2	0.0
Petroleum Coke	3.7	0.7	3.4	5.1	5.7	3.7	4.9
Asphalt and Road Oil	1.5	22.9	3.5	4.1	7.9	1.1	4.0
Still Gas	4.2	1.6	3.9	3.6	4.0	4.1	3.8
Miscellaneous Products	0.2	1.1	0.3	0.4	0.8	0.2	0.4
Processing Gain(-) or Loss(+) ⁴	-5.5	1.9	-4.8	-6.4	-8.1	-5.2	-6.4

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	2.2	3.5	4.5	-0.7	-0.2	3.7	0.1	-0.2	2.2
Finished Motor Gasoline ¹	58.0	43.1	44.3	30.3	56.8	44.5	47.4	48.8	47.2
Finished Aviation Gasoline ²	0.5	0.1	0.1	-	-	0.1	0.0	0.1	0.1
Kerosene-Type Jet Fuel	6.1	9.5	11.2	0.5	-	9.7	4.5	18.3	10.0
Kerosene	0.1	0.0	0.1	0.7	-	0.1	-	0.0	0.1
Distillate Fuel Oil ³	29.2	33.2	29.0	36.3	40.5	31.4	34.2	23.0	30.0
Residual Fuel Oil	1.3	1.3	4.0	-0.3	3.3	2.4	2.3	4.5	2.5
Naphtha for Petro. Feed. Use	0.6	2.8	1.5	0.0	-	2.0	-	0.0	1.2
Other Oils for Petro. Feed. Use	0.1	1.1	1.3	-	-	1.0	-	-	0.6
Special Naphthas	0.5	0.5	-	2.9	-	0.3	-	0.1	0.2
Lubricants	0.1	1.2	1.3	12.9	-	1.4	-	0.7	1.0
Waxes	-	0.0	0.0	0.3	-	0.0	-	-	0.0
Petroleum Coke	2.1	5.9	5.0	1.8	0.9	5.1	4.2	5.9	5.1
Asphalt and Road Oil	0.9	0.3	0.5	12.1	-0.2	0.7	7.4	1.1	1.9
Still Gas	3.5	4.1	3.6	3.1	2.0	3.8	3.5	4.5	3.9
Miscellaneous Products	0.6	0.7	0.5	0.0	1.0	0.6	0.5	0.6	0.5
Processing Gain(-) or Loss(+) ⁴	-5.8	-7.3	-6.8	-0.3	-4.2	-6.8	-4.2	-7.3	-6.6

- = 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, November 2018
(Thousand Barrels)

PAD District and State of Entry	Residual Fuel Oil			
	Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
PAD District 1	-	260	1,235	1,495
Connecticut	-	-	-	-
Delaware	-	227	-	227
Florida	-	-	331	331
Georgia	-	-	-	-
Maine	-	-	-	-
Maryland	-	-	-	-
Massachusetts	-	33	-	33
New Hampshire	-	-	-	-
New Jersey	-	-	556	556
New York	-	-	347	347
North Carolina	-	-	-	-
Pennsylvania	-	-	-	-
Rhode Island	-	-	-	-
South Carolina	-	-	-	-
Vermont	-	-	1	1
Virginia	-	-	-	-
West Virginia	-	-	-	-
PAD District 2	-	41	145	186
Illinois	-	-	-	-
Indiana	-	-	-	-
Michigan	-	-	145	145
Minnesota	-	36	-	36
North Dakota	-	5	-	5
Ohio	-	-	-	-
Wisconsin	-	-	-	-
PAD District 3	288	306	1,203	1,797
Alabama	-	-	-	-
Louisiana	-	306	-	306
Mississippi	-	-	-	-
New Mexico	-	-	-	-
Texas	288	-	1,203	1,491
PAD District 4	-	-	5	5
Idaho	-	-	-	-
Montana	-	-	5	5
PAD District 5	-	203	568	771
Alaska	-	-	-	-
California	-	-	465	465
Hawaii	-	-	-	-
Oregon	-	-	-	-
Washington	-	203	103	306
U.S. Total	288	810	3,156	4,254

- = 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, November 2018
(Thousand Barrels, Except Where Noted)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil^{1,2}	26,793	75,549	74,567	9,588	38,197	224,694	7,490
Hydrocarbon Gas Liquids	1,653	2,899	71	419	1,632	6,674	222
Natural Gas Liquids	1,620	2,502	—	419	1,632	6,173	206
Ethane	—	—	—	—	—	—	—
Propane	1,382	1,808	—	330	1,012	4,532	151
Normal Butane	141	450	—	80	554	1,225	41
Isobutane	97	240	—	9	66	412	14
Natural Gasoline	—	4	—	—	—	4	0
Refinery Olefins	33	397	71	—	—	501	17
Ethylene	—	—	—	—	—	—	—
Propylene	33	361	—	—	—	394	13
Normal Butylene	—	36	71	—	—	107	4
Isobutylene	—	—	—	—	—	—	—
Other Liquids	9,253	374	14,474	61	3,115	27,277	909
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	155	95	480	6	669	1,405	47
Hydrogen	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol)	—	—	409	—	—	409	14
Methyl Tertiary Butyl Ether (MTBE)	—	—	167	—	—	167	6
Other Oxygenates ³	—	—	242	—	—	242	8
Renewable Fuels (including Fuel Ethanol)	155	95	71	6	669	996	33
Fuel Ethanol	—	—	—	—	236	236	8
Biodiesel	155	95	71	6	89	416	14
Other Renewable Diesel Fuel	—	—	—	—	344	344	11
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	—	—	—	—
Unfinished Oils ¹	1,620	74	13,377	—	2,374	17,445	582
Naphthas and Lighter	387	—	—	—	—	387	13
Kerosene and Lighter Gas Oils	—	—	—	—	—	—	—
Heavy Gas Oils	1,233	74	10,557	—	2,038	13,902	463
Residuum	—	—	2,820	—	336	3,156	105
Motor Gasoline Blend.Comp. (MGBC)	7,478	205	617	55	72	8,427	281
Reformulated - RBOB	3,750	—	—	—	15	3,765	126
Conventional	3,728	205	617	55	57	4,662	155
CBOB	286	186	—	—	57	529	18
GTAB	381	—	—	—	—	381	13
Other	3,061	19	617	55	—	3,752	125
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	9,386	1,145	3,666	167	3,395	17,759	592
Finished Motor Gasoline	678	—	159	—	34	871	29
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	678	—	159	—	34	871	29
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	678	—	159	—	34	871	29
Finished Aviation Gasoline	1	3	—	—	—	4	0
Kerosene-Type Jet Fuel	973	—	—	28	2,095	3,096	103
Bonded Aircraft Fuel	329	—	—	—	1,038	1,367	46
Other	644	—	—	28	1,057	1,729	58
Kerosene	—	—	—	—	—	—	—
Distillate Fuel Oil	5,592	357	412	123	315	6,799	227
15 ppm sulfur and under	5,269	246	412	123	315	6,365	212
Bonded	—	—	—	—	88	88	3
Other	5,269	246	412	123	227	6,277	209
Greater than 15 ppm to 500 ppm sulfur	45	—	—	—	—	45	2
Bonded	—	—	—	—	—	—	—
Other	45	—	—	—	—	45	2
Greater than 500 ppm to 2000 ppm sulfur	278	81	—	—	—	359	12
Bonded	—	—	—	—	—	—	—
Other	278	81	—	—	—	359	12
Greater than 2000 ppm	—	30	—	—	—	30	1
Bonded	—	—	—	—	—	—	—
Other	—	30	—	—	—	30	1
Residual Fuel Oil	1,495	186	1,797	5	771	4,254	142
Less than 0.31 percent sulfur	—	—	288	—	—	288	10
0.31 to 1.00 percent sulfur	260	41	306	—	203	810	27
Greater than 1.00 percent sulfur	1,235	145	1,203	5	568	3,156	105
Petrochemical Feedstocks	—	162	217	—	—	379	13
Naphtha for Petro. Feed. Use	—	74	213	—	—	287	10
Other Oils for Petro. Feed. Use	—	88	4	—	—	92	3
Special Naphthas	—	10	125	—	—	135	5
Lubricants	112	100	907	—	27	1,146	38
Waxes	127	12	4	—	50	193	6
Petroleum Coke (Marketable)	1	12	45	—	32	90	3
Asphalt and Road Oil	407	303	—	10	71	791	26
Miscellaneous Products	—	—	—	1	—	1	0
Total	47,085	79,967	92,778	10,235	46,339	276,404	9,213

— = 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-November 2018
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil^{1,2}	285,933	827,458	946,424	100,813	450,602	2,611,230	7,818
Hydrocarbon Gas Liquids	15,279	28,348	1,418	3,597	14,129	62,771	188
Natural Gas Liquids	13,358	23,799	1	3,597	14,126	54,881	164
Ethane	-	-	-	-	-	-	-
Propane	11,761	19,305	1	3,116	9,862	44,045	132
Normal Butane	519	2,618	-	252	3,797	7,186	22
Isobutane	1,078	1,821	-	229	467	3,595	11
Natural Gasoline	-	55	-	-	-	55	0
Refinery Olefins	1,921	4,549	1,417	-	3	7,890	24
Ethylene	-	-	-	-	-	-	-
Propylene	1,921	3,984	-	-	3	5,908	18
Normal Butylene	-	565	1,417	-	-	1,982	6
Isobutylene	-	-	-	-	-	-	-
Other Liquids	202,490	8,464	184,688	914	41,025	437,581	1,310
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	1,867	712	3,836	33	5,410	11,858	36
Hydrogen	-	-	-	-	-	-	-
Oxygenates (excluding Fuel Ethanol)	-	-	3,329	-	-	3,329	10
Methyl Tertiary Butyl Ether (MTBE)	-	-	1,672	-	-	1,672	5
Other Oxygenates ³	-	-	1,657	-	-	1,657	5
Renewable Fuels (including Fuel Ethanol)	1,867	686	438	33	5,410	8,434	25
Fuel Ethanol	-	-	-	-	1,039	1,039	3
Biodiesel	1,867	686	438	33	353	3,377	10
Other Renewable Diesel Fuel	-	-	-	-	4,018	4,018	12
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	26	69	-	-	95	0
Unfinished Oils ¹	13,930	3,153	161,006	32	29,387	207,508	621
Naphthas and Lighter	3,122	321	1,567	-	386	5,396	16
Kerosene and Lighter Gas Oils	-	-	221	-	-	221	1
Heavy Gas Oils	9,923	2,832	121,740	32	21,066	155,593	466
Residuum	885	-	37,478	-	7,935	46,298	139
Motor Gasoline Blend Comp. (MGBC)	186,693	4,599	19,846	849	6,228	218,215	653
Reformulated - RBOB	58,560	64	-	-	966	59,590	178
Conventional	128,133	4,535	19,846	849	5,262	158,625	475
CBOB	10,100	2,291	310	-	1,188	13,889	42
GTAB	28,766	-	1,653	-	80	30,499	91
Other	89,267	2,244	17,883	849	3,994	114,237	342
Aviation Gasoline Blend Comp.	-	-	-	-	-	-	-
Finished Petroleum Products	119,216	10,219	55,741	1,137	46,191	232,504	696
Finished Motor Gasoline	12,702	-	838	-	1,953	15,493	46
Reformulated	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-
Conventional	12,702	-	838	-	1,953	15,493	46
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-
Conventional Other	12,702	-	838	-	1,953	15,493	46
Finished Aviation Gasoline	29	28	-	6	3	66	0
Kerosene-Type Jet Fuel	15,989	-	-	124	26,913	43,026	129
Bonded Aircraft Fuel	2,113	-	-	-	11,120	13,233	40
Other	13,876	-	-	124	15,793	29,793	89
Kerosene	614	2	-	-	-	616	2
Distillate Fuel Oil	48,396	2,424	2,368	692	3,972	57,852	173
15 ppm sulfur and under	42,882	1,631	1,446	692	3,580	50,231	150
Bonded	3	-	-	-	88	91	0
Other	42,879	1,631	1,446	692	3,492	50,140	150
Greater than 15 ppm to 500 ppm sulfur	1,036	-	-	-	-	1,036	3
Bonded	-	-	-	-	-	-	-
Other	1,036	-	-	-	-	1,036	3
Greater than 500 ppm to 2000 ppm sulfur	4,028	679	681	-	186	5,574	17
Bonded	-	-	-	-	-	-	-
Other	4,028	679	681	-	186	5,574	17
Greater than 2000 ppm	450	114	241	-	206	1,011	3
Bonded	-	-	-	-	-	-	-
Other	450	114	241	-	206	1,011	3
Residual Fuel Oil	30,395	1,133	28,685	14	11,051	71,278	213
Less than 0.31 percent sulfur	692	1	7,877	-	-	8,570	26
0.31 to 1.00 percent sulfur	1,679	368	1,924	-	1,915	5,886	18
Greater than 1.00 percent sulfur	28,024	764	18,884	14	9,136	56,822	170
Petrochemical Feedstocks	13	1,550	5,336	-	340	7,239	22
Naphtha for Petro. Feed. Use	12	768	4,799	-	340	5,919	18
Other Oils for Petro. Feed. Use	1	782	537	-	-	1,320	4
Special Naphthas	7	380	4,113	-	-	4,500	13
Lubricants	1,686	1,445	11,097	-	146	14,374	43
Waxes	844	55	377	-	376	1,652	5
Petroleum Coke (Marketable)	190	269	2,868	-	301	3,628	11
Asphalt and Road Oil	8,351	2,925	-	290	1,136	12,702	38
Miscellaneous Products	-	8	59	11	-	78	0
Total	622,918	874,489	1,188,271	106,461	551,947	3,344,086	10,012

- = 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, November 2018
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	73,048	—	—	5,830	—	—	—	—	813	813
Algeria	1,029	—	—	3,819	—	—	—	—	—	—
Angola	833	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	110	—	—	—	—	—	—
Ecuador	5,866	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	11,767	—	—	—	—	—	—	—	—	—
Kuwait	3,027	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—
Nigeria	5,236	—	—	—	—	—	—	—	156	156
Qatar	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	29,958	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	1,675	—	—	—	—	—	—
Venezuela	15,332	—	—	226	—	—	—	—	657	657
Non-OPEC	151,646	6,173	501	11,615	—	871	871	3,765	3,849	7,614
Argentina	988	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	2,064	—	—	—	—	—	—
Brazil	1,710	—	—	294	—	—	—	—	299	299
Brunei	961	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	114,539	5,924	430	586	—	299	299	1,245	603	1,848
Chad	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—
Colombia	6,459	—	—	—	—	—	—	—	410	410
Denmark	1,000	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	1,405	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	354	354
France	—	—	37	186	—	535	535	441	—	441
Germany	—	—	—	—	—	—	—	—	119	119
Guatemala	281	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—	—
Indonesia	1,189	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—
Mexico	17,062	—	34	—	—	—	—	—	—	—
Netherlands	—	—	—	27	—	—	—	976	—	976
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
Norway	3,348	—	—	335	—	—	—	196	194	390
Oman	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—
Russia	1,484	—	—	5,587	—	—	—	—	163	163
Spain	—	—	—	75	—	37	37	—	665	665
Sweden	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—
United Kingdom	2,159	192	—	386	—	—	—	907	961	1,868
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	466	57	0	670	—	0	0	0	81	81
Total	224,694	6,173	501	17,445	—	871	871	3,765	4,662	8,427
Persian Gulf³	44,752	—	—	1,675	—	—	—	—	—	—

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, November 2018
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-	-	-	-	-	-	751	-	-	-	751
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	333	-	-	-	333
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	32	-	-	-	32
Venezuela	-	-	-	-	-	-	386	-	-	-	386
Non-OPEC	167	242	236	416	344	-	5,614	45	359	30	6,048
Argentina	44	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	542	-	-	-	542
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	123	115	236	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	203	-	-	2,978	45	359	30	3,412
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	1,191	-	-	-	1,191
Colombia	-	-	-	-	-	-	600	-	-	-	600
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	213	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	127	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	0	344	-	303	0	0	0	303
Total	167	242	236	416	344	-	6,365	45	359	30	6,799
Persian Gulf³	-	-	-	-	-	-	365	-	-	-	365

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, November 2018
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
OPEC	—	—	—	70	—	288	229	—	517
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	227	—	227
Ecuador	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	2	—	2
Nigeria	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	70	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	288	—	—	288
Non-OPEC	—	4	—	3,026	135	—	581	3,156	3,737
Argentina	—	—	—	—	—	—	21	—	21
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	1	1
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	4	—	170	10	—	244	1,012	1,256
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	300	300
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	2	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	1,508	72	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	28	—	—	—	713	713
Netherlands	—	—	—	—	—	—	—	331	331
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	342	342
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	120	120
United Kingdom	—	—	—	—	—	—	10	—	10
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	0	—	1,318	53	0	306	337	643
Total	—	4	—	3,096	135	288	810	3,156	4,254
Persian Gulf³	—	—	—	70	—	—	—	—	—

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, November 2018
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	—	—	—	—	—	65	—	8,046	81,094	2,435	268	2,703
Algeria	—	—	—	—	—	—	—	3,819	4,848	34	127	162
Angola	—	—	—	—	—	—	—	—	833	28	—	28
Congo (Brazzaville)	—	—	—	—	—	—	—	337	337	—	11	11
Ecuador	—	—	—	—	—	—	—	—	5,866	196	—	196
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	11,767	392	—	392
Kuwait	—	—	—	—	—	—	—	—	3,027	101	—	101
Libya	—	—	—	—	—	—	—	2	2	—	0	0
Nigeria	—	—	—	—	—	—	—	156	5,392	175	5	180
Qatar	—	—	—	—	—	1	—	334	334	—	11	11
Saudi Arabia	—	—	—	—	—	—	—	70	30,028	999	2	1,001
United Arab Emirates	—	—	—	—	—	64	—	1,771	1,771	—	59	59
Venezuela	—	—	—	—	—	—	—	1,557	16,889	511	52	563
Non-OPEC	287	92	193	90	791	1,081	1	43,664	195,310	5,055	1,455	6,510
Argentina	—	—	—	45	—	3	—	113	1,101	33	4	37
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	543	543	—	18	18
Bahrain	—	—	—	—	—	85	—	85	85	—	3	3
Belgium	—	—	—	—	—	11	—	2,075	2,075	—	69	69
Brazil	—	—	—	—	—	—	—	1,067	2,777	57	36	93
Brunei	—	—	—	—	—	—	—	—	961	32	—	32
Cameroon	—	—	—	—	—	—	—	—	—	—	—	—
Canada	74	88	63	44	665	190	1	15,267	129,806	3,818	509	4,327
Chad	—	—	—	—	—	—	—	—	—	—	—	—
China	—	—	77	—	—	—	—	1,268	1,268	—	42	42
Colombia	—	—	—	—	—	—	—	1,310	7,769	215	44	259
Denmark	—	—	—	—	—	—	—	—	1,000	33	—	33
Egypt	—	—	—	—	—	—	—	1,405	1,405	—	47	47
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	354	354	—	12	12
France	30	—	—	—	—	10	—	1,239	1,239	—	41	41
Germany	—	—	—	—	—	12	—	344	344	—	11	11
Guatemala	—	—	—	—	—	—	—	—	281	9	—	9
India	—	—	—	—	—	7	—	9	9	—	0	0
Indonesia	—	—	—	—	—	15	—	15	1,204	40	1	40
Italy	—	—	—	—	—	61	—	61	61	—	2	2
Korea, South	—	—	1	—	—	346	—	1,927	1,927	—	64	64
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	4	—	—	1	—	5	5	—	0	0
Mexico	183	—	—	—	—	—	—	958	18,020	569	32	601
Netherlands	—	—	—	—	—	1	—	1,462	1,462	—	49	49
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	725	4,073	112	24	136
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	35	—	6,127	7,611	49	204	254
Spain	—	—	—	—	69	—	—	846	846	—	28	28
Sweden	—	—	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	120	120	—	4	4
United Kingdom	—	4	—	1	—	33	—	2,494	4,653	72	83	155
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	48	0	57	271	0	3,845	4,311	16	128	144
Total	287	92	193	90	791	1,146	1	51,710	276,404	7,490	1,724	9,213
Persian Gulf³	—	—	—	—	—	150	—	2,260	47,012	1,492	75	1,567

— = 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-November 2018
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	875,285	140	-	54,472	-	400	400	-	14,173	14,173
Algeria	26,045	140	-	31,686	-	-	-	-	536	536
Angola	32,994	-	-	2	-	-	-	-	1,334	1,334
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	58,205	-	-	-	-	-	-	-	-	-
Equatorial Guinea	5,890	-	-	-	-	-	-	-	-	-
Gabon	1,795	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	182,341	-	-	850	-	-	-	-	-	-
Kuwait	27,939	-	-	109	-	-	-	-	-	-
Libya	16,458	-	-	151	-	-	-	-	-	-
Nigeria	58,880	-	-	803	-	-	-	-	3,548	3,548
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	291,497	-	-	1,428	-	400	400	-	1,289	1,289
United Arab Emirates	1,995	-	-	16,621	-	-	-	-	-	-
Venezuela	169,018	-	-	1,565	-	-	-	-	7,466	7,466
Non-OPEC	1,735,945	54,741	7,890	153,036	-	15,093	15,093	59,590	144,452	204,042
Argentina	6,860	-	-	13	-	-	-	-	731	731
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	529	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	14,033	-	306	306	1,445	6,575	8,020
Brazil	45,440	-	-	3,248	-	-	-	-	6,065	6,065
Brunei	5,478	-	-	-	-	-	-	-	-	-
Cameroon	1,144	-	-	791	-	-	-	-	-	-
Canada	1,234,215	52,887	6,473	7,136	-	4,097	4,097	31,426	17,920	49,346
Chad	7,310	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	157	157
Colombia	100,239	-	-	475	-	103	103	-	5,498	5,498
Denmark	2,436	-	-	1,892	-	-	-	80	80	160
Egypt	7,473	-	-	3,921	-	-	-	96	690	786
Estonia	-	-	-	90	-	-	-	-	-	-
Finland	-	-	-	612	-	-	-	277	4,228	4,505
France	-	-	37	2,054	-	1,814	1,814	3,690	3,985	7,675
Germany	-	-	-	745	-	18	18	13	236	249
Guatemala	2,221	-	-	-	-	-	-	-	-	-
India	-	-	-	659	-	644	644	511	18,144	18,655
Indonesia	14,531	-	-	-	-	-	-	-	-	-
Italy	438	-	-	3,561	-	630	630	107	2,891	2,998
Korea, South	-	56	-	120	-	622	622	-	2,287	2,287
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	630	630
Malaysia	588	-	-	382	-	-	-	-	-	-
Mexico	224,832	-	311	398	-	-	-	-	2,173	2,173
Netherlands	-	-	-	3,777	-	1,211	1,211	3,968	8,573	12,541
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	16,772	651	-	6,387	-	579	579	1,284	5,782	7,066
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	1,106	1,106	1,485	7,385	8,870
Russia	22,549	-	-	81,986	-	378	378	248	12,148	12,396
Spain	-	-	-	3,199	-	385	385	47	13,165	13,212
Sweden	-	263	-	335	-	1,022	1,022	77	1,786	1,863
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	1,579	387	-	348	-	-	-	-	-	-
United Kingdom	19,120	384	-	1,757	-	1,494	1,494	14,836	11,024	25,860
Vietnam	788	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	21,403	113	1,069	15,117	-	684	684	0	12,299	12,299
Total	2,611,230	54,881	7,890	207,508	-	15,493	15,493	59,590	158,625	218,215
Persian Gulf³	503,772	-	-	19,008	-	400	400	-	1,289	1,289

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-November 2018
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	—	—	—	—	—	—	8,748	—	140	100	8,988
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	140	—	140
Qatar	—	—	—	—	—	—	2,523	—	—	—	2,523
Saudi Arabia	—	—	—	—	—	—	5,082	—	—	—	5,082
United Arab Emirates	—	—	—	—	—	—	32	—	—	—	32
Venezuela	—	—	—	—	—	—	1,111	—	—	100	1,211
Non-OPEC	1,672	1,657	1,039	3,377	4,018	—	41,483	1,036	5,434	911	48,864
Argentina	132	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	542	—	—	—	542
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	52	—	—	—	—	—	605	—	—	—	605
Brazil	719	1,033	1,010	—	—	—	717	—	—	—	717
Brunel	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	—	1,783	—	—	27,492	463	4,720	114	32,789
Chad	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	1,556	—	—	—	1,556
Colombia	—	—	—	—	—	—	1,971	—	—	300	2,271
Denmark	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	322	—	—	—	—	—	—	—
Germany	87	—	—	1,144	—	—	—	—	—	—	5
Guatemala	—	—	29	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	3,369	—	—	—	3,369
Indonesia	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	128	—	—	331	—	—	—	331
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	241	—	—	—	241
Mexico	—	—	—	—	—	—	293	—	277	—	570
Netherlands	337	624	—	—	—	—	524	—	—	69	593
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	161	—	—	—	161
Portugal	—	—	—	—	—	—	—	—	—	—	—
Russia	345	—	—	—	—	—	3,254	573	437	167	4,431
Spain	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	0	0	4,018	—	427	0	0	261	683
Total	1,672	1,657	1,039	3,377	4,018	—	50,231	1,036	5,574	1,011	57,852
Persian Gulf³	—	—	—	—	—	—	7,637	—	—	—	7,637

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-November 2018
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
OPEC	—	—	—	2,254	84	3,879	229	10,826	14,934
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	227	—	227
Ecuador	—	—	—	—	—	—	—	438	438
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	98	—	—	—	—	—
Kuwait	—	—	—	165	—	—	—	—	—
Libya	—	—	—	—	—	147	2	—	149
Nigeria	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	133	84	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	43	43
Venezuela	—	—	—	1,858	—	3,732	—	10,345	14,077
Non-OPEC	616	66	—	40,772	4,416	4,691	5,657	45,996	56,344
Argentina	—	—	—	6	—	208	571	1	780
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	351	351
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	71	78	50	—	128
Brazil	—	—	—	—	198	80	595	268	943
Brunel	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	2	47	—	6,038	962	677	2,410	13,636	16,723
Chad	—	—	—	—	—	—	—	—	—
China	153	—	—	3,634	—	—	—	—	—
Colombia	108	—	—	61	—	—	302	2,403	2,705
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	32	—	326	358
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	107	123	—	—	123
Germany	—	—	—	—	24	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	2,054	84	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	74	—	—	—	—	—
Korea, South	353	—	—	21,655	1,843	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	97	97
Malaysia	—	—	—	—	—	—	—	75	75
Mexico	—	—	—	28	37	525	—	11,410	11,935
Netherlands	—	19	—	—	3	57	—	2,016	2,073
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	53	—	—	—	—
Russia	—	—	—	7	—	1,749	—	4,431	6,180
Spain	—	—	—	—	—	—	263	80	343
Sweden	—	—	—	—	—	—	—	286	286
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	85	—	6,281	6,366
United Kingdom	—	—	—	—	—	38	10	—	48
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	0	0	—	7,215	1,034	1,039	1,456	4,335	6,830
Total	616	66	—	43,026	4,500	8,570	5,886	56,822	71,278
Persian Gulf³	—	—	—	396	84	—	—	43	43

See footnotes at end of table.

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-November 2018
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	558	—	—	—	809	4,045	—	100,857	976,142	2,621	302	2,923
Algeria	327	—	—	—	—	—	—	32,689	58,734	78	98	176
Angola	—	—	—	—	—	—	—	1,336	34,330	99	4	103
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	438	58,643	174	1	176
Equatorial Guinea	—	—	—	—	—	—	—	—	5,890	18	—	18
Gabon	—	—	—	—	—	—	—	—	1,795	5	—	5
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	948	183,289	546	3	549
Kuwait	—	—	—	—	—	—	—	274	28,213	84	1	84
Libya	—	—	—	—	—	—	—	300	16,758	49	1	50
Nigeria	231	—	—	—	—	—	—	4,722	63,602	176	14	190
Qatar	—	—	—	—	—	3,134	—	5,657	5,657	—	17	17
Saudi Arabia	—	—	—	—	—	—	—	8,416	299,913	873	25	898
United Arab Emirates	—	—	—	—	—	911	—	17,607	19,602	6	53	59
Venezuela	—	—	—	—	809	—	—	26,986	196,004	506	81	587
Non-OPEC	5,361	1,320	1,652	3,628	11,893	10,329	78	631,999	2,367,944	5,197	1,892	7,090
Argentina	—	36	—	1,121	—	51	—	2,870	9,730	21	9	29
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	529	2	—	2
Bahamas	—	—	—	—	—	—	—	893	893	—	3	3
Bahrain	—	—	—	—	—	975	—	975	975	—	3	3
Belgium	—	—	—	—	106	151	—	23,474	23,474	—	70	70
Brazil	26	—	—	145	—	—	—	14,104	59,544	136	42	178
Brunel	—	—	—	—	—	—	—	—	5,478	16	—	16
Cameroon	—	—	—	—	—	—	—	791	1,935	3	2	6
Canada	770	783	498	808	10,129	2,583	19	193,899	1,428,114	3,695	581	4,276
Chad	—	—	—	—	—	—	—	—	7,310	22	—	22
China	—	—	745	318	91	—	—	6,654	6,654	—	20	20
Colombia	—	—	—	167	34	—	—	11,422	111,661	300	34	334
Denmark	—	—	—	—	—	—	—	2,052	4,488	7	6	13
Egypt	—	—	—	—	—	—	—	4,707	12,180	22	14	36
Estonia	—	—	—	—	—	—	—	448	448	—	1	1
Finland	—	—	—	—	—	22	—	5,139	5,139	—	15	15
France	57	178	—	—	—	152	—	12,519	12,519	—	37	37
Germany	—	—	17	—	—	166	—	2,459	2,459	—	7	7
Guatemala	—	—	—	—	—	—	—	29	2,250	7	0	7
India	—	—	—	—	—	12	—	25,477	25,477	—	76	76
Indonesia	—	—	—	—	—	869	—	869	15,400	44	3	46
Italy	—	—	—	—	—	304	—	7,574	8,012	1	23	24
Korea, South	23	—	7	—	66	4,067	—	31,558	31,558	—	94	94
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	727	727	—	2	2
Malaysia	—	—	144	—	—	1	—	843	1,431	2	3	4
Mexico	2,330	—	—	—	—	—	—	17,782	242,614	673	53	726
Netherlands	53	—	—	—	—	10	59	21,323	21,323	—	64	64
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	14,683	31,455	50	44	94
Oman	—	—	—	601	—	66	—	828	828	—	2	2
Portugal	—	—	—	—	—	—	—	10,029	10,029	—	30	30
Russia	—	—	—	255	—	74	—	106,052	128,601	68	318	385
Spain	—	—	10	—	1,159	23	—	18,331	18,331	—	55	55
Sweden	—	—	—	8	—	3	—	3,780	3,780	—	11	11
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	7,101	8,680	5	21	26
United Kingdom	276	4	—	195	—	198	—	30,216	49,336	57	90	148
Vietnam	—	—	—	—	—	—	—	—	788	2	—	2
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	1,826	319	231	10	308	602	0	52,391	73,794	64	159	226
Total	5,919	1,320	1,652	3,628	12,702	14,374	78	732,856	3,344,086	7,818	2,194	10,012
Persian Gulf³	—	—	—	—	—	5,020	—	33,877	537,649	1,508	101	1,610

— = 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, November 2018
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	12,432	-	-	418	-	-	-	-	813	813
Algeria	1,029	-	-	418	-	-	-	-	-	-
Angola	833	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	1,027	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	3,893	-	-	-	-	-	-	-	156	156
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	5,650	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	657	657
Non-OPEC	14,361	1,620	33	1,202	-	678	678	3,750	2,915	6,665
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	7,368	1,428	33	432	-	265	265	1,230	286	1,516
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	211	211
Denmark	1,000	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	354	354
France	-	-	-	-	-	413	413	441	-	441
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	976	-	976
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	3,348	-	-	-	-	-	-	196	194	390
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Russia	536	-	-	344	-	-	-	-	163	163
Spain	-	-	-	75	-	-	-	-	665	665
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	1,643	-	-	39	-	-	-	907	961	1,868
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	466	192	0	312	-	0	0	0	81	81
Total	26,793	1,620	33	1,620	-	678	678	3,750	3,728	7,478
Persian Gulf³	6,677	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2018
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-	-	-	-	-	-	365	-	-	-	365
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	333	-	-	-	333
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	32	-	-	-	32
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	155	-	-	4,904	45	278	-	5,227
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	542	-	-	-	542
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	13	-	-	2,268	45	278	-	2,591
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	1,191	-	-	-	1,191
Colombia	-	-	-	-	-	-	600	-	-	-	600
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	142	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	303	0	0	-	303
Total	-	-	-	155	-	-	5,269	45	278	-	5,592
Persian Gulf³	-	-	-	-	-	-	365	-	-	-	365

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2018
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
OPEC	-	-	-	70	-	-	229	-	229
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	227	-	227
Ecuador	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	2	-	2
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	70	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	1	-	903	-	-	31	1,235	1,266
Argentina	-	-	-	-	-	-	21	-	21
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	1	1
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	1	-	170	-	-	-	483	483
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	300	300
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	2	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	337	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	331	331
Netherlands Antilles	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	120	120
United Kingdom	-	-	-	-	-	-	10	-	10
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	0	-	394	-	-	0	0	0
Total	-	1	-	973	-	-	260	1,235	1,495
Persian Gulf³	-	-	-	70	-	-	-	-	-

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2018
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	-	-	-	-	-	-	-	1,895	14,327	414	63	478
Algeria	-	-	-	-	-	-	-	418	1,447	34	14	48
Angola	-	-	-	-	-	-	-	-	833	28	-	28
Congo (Brazzaville)	-	-	-	-	-	-	-	227	227	-	8	8
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	1,027	34	-	34
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	2	2	-	0	0
Nigeria	-	-	-	-	-	-	-	156	4,049	130	5	135
Qatar	-	-	-	-	-	-	-	333	333	-	11	11
Saudi Arabia	-	-	-	-	-	-	-	70	5,720	188	2	191
United Arab Emirates	-	-	-	-	-	-	-	32	32	-	1	1
Venezuela	-	-	-	-	-	-	-	657	657	-	22	22
Non-OPEC	-	-	127	1	407	112	-	18,397	32,758	479	613	1,092
Argentina	-	-	-	-	-	-	-	21	21	-	1	1
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	543	543	-	18	18
Bahrain	-	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	8	-	8	8	-	0	0
Brazil	-	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	51	-	281	87	-	7,351	14,719	246	245	491
Chad	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	44	-	-	-	-	1,235	1,235	-	41	41
Colombia	-	-	-	-	-	-	-	1,111	1,111	-	37	37
Denmark	-	-	-	-	-	-	-	-	1,000	33	-	33
Egypt	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	354	354	-	12	12
France	-	-	-	-	-	8	-	862	862	-	29	29
Germany	-	-	-	-	-	7	-	149	149	-	5	5
Guatemala	-	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	2	2	-	0	0
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	1	-	-	-	-	338	338	-	11	11
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	1	-	1	1	-	0	0
Mexico	-	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	1	-	1,308	1,308	-	44	44
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	390	3,738	112	13	125
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	507	1,043	18	17	35
Spain	-	-	-	-	69	-	-	809	809	-	27	27
Sweden	-	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	120	120	-	4	4
United Kingdom	-	-	-	1	-	-	-	2,110	3,753	55	70	125
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	31	0	57	0	-	1,178	1,644	15	39	54
Total	-	-	127	1	407	112	-	20,292	47,085	893	676	1,570
Persian Gulf³	-	-	-	-	-	-	-	435	7,112	223	15	237

- = 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, November 2018
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	75,549	2,502	397	74	-	-	-	-	205	205
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	75,106	2,502	397	74	-	-	-	-	205	205
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	443	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	0	-	-	-	-	0	0
Total	75,549	2,502	397	74	-	-	-	-	205	205
Persian Gulf³	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

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

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	95	-	-	246	-	81	30	357
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	95	-	-	246	-	81	30	357
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	0	-	0	0	0
Total	-	-	-	95	-	-	246	-	81	30	357
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

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

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	3	-	-	10	-	41	145	186
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	3	-	-	10	-	41	145	186
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	0	-	-	0	-	0	0	0
Total	-	3	-	-	10	-	41	145	186
Persian Gulf³	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

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

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	-	-	-	-	-	1	-	1	1	-	0	0
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	1	-	1	1	-	0	0
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	74	88	12	12	303	99	-	4,417	79,966	2,518	147	2,666
Argentina	-	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-	-
Canada	74	88	12	12	303	99	-	4,417	79,523	2,504	147	2,651
Chad	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	443	15	-	15
Netherlands	-	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	0	0	0	-	0	0	-1	0	0
Total	74	88	12	12	303	100	-	4,418	79,967	2,518	147	2,666
Persian Gulf³	-	-	-	-	-	1	-	1	1	-	0	0

- = No Data Reported.

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

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

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

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

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

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2018
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	35,477	-	-	3,940	-	-	-	-	-	-
Algeria	-	-	-	2,265	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	110	-	-	-	-	-	-
Ecuador	1,056	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	8,303	-	-	-	-	-	-	-	-	-
Kuwait	960	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	3	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	10,372	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	1,339	-	-	-	-	-	-
Venezuela	14,783	-	-	226	-	-	-	-	-	-
Non-OPEC	39,090	-	71	9,437	-	159	159	-	617	617
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	2,064	-	-	-	-	-	-
Brazil	1,392	-	-	294	-	-	-	-	299	299
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	16,885	-	-	80	-	-	-	-	-	-
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	3,757	-	-	-	-	-	-	-	199	199
Denmark	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	1,405	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	37	186	-	122	122	-	-	-
Germany	-	-	-	-	-	-	-	-	119	119
Guatemala	281	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	16,259	-	34	-	-	-	-	-	-	-
Netherlands	-	-	-	27	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	335	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	4,341	-	-	-	-	-	-
Spain	-	-	-	-	-	37	37	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	516	-	-	347	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	-	0	358	-	0	0	-	0	0
Total	74,567	-	71	13,377	-	159	159	-	617	617
Persian Gulf³	19,635	-	-	1,339	-	-	-	-	-	-

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2018
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-	-	-	-	-	-	386	-	-	-	386
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	386	-	-	-	386
Non-OPEC	167	242	-	71	-	-	26	-	-	-	26
Argentina	44	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	123	115	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	26	-	-	-	26
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	71	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	127	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	-	-	0	-	-	-	0
Total	167	242	-	71	-	-	412	-	-	-	412
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2018
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
OPEC	-	-	-	-	-	288	-	-	288
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	288	-	-	288
Non-OPEC	-	-	-	-	125	-	306	1,203	1,509
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	276	276
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	72	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	585	585
Netherlands	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	342	342
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	53	0	306	0	306
Total	-	-	-	-	125	288	306	1,203	1,797
Persian Gulf³	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2018
(Thousand Barrels) – Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	-	-	-	-	-	64	-	4,678	40,155	1,183	156	1,339
Algeria	-	-	-	-	-	-	-	2,265	2,265	-	76	76
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	110	110	-	4	4
Ecuador	-	-	-	-	-	-	-	-	1,056	35	-	35
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	8,303	277	-	277
Kuwait	-	-	-	-	-	-	-	-	960	32	-	32
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	3	0	-	0
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	10,372	346	-	346
United Arab Emirates	-	-	-	-	-	64	-	1,403	1,403	-	47	47
Venezuela	-	-	-	-	-	-	-	900	15,683	493	30	523
Non-OPEC	213	4	4	45	-	843	-	13,533	52,623	1,303	451	1,754
Argentina	-	-	-	45	-	3	-	92	92	-	3	3
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	85	-	85	85	-	3	3
Belgium	-	-	-	-	-	3	-	2,067	2,067	-	69	69
Brazil	-	-	-	-	-	-	-	831	2,223	46	28	74
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	382	17,267	563	13	576
Chad	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	199	3,956	125	7	132
Denmark	-	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	1,405	1,405	-	47	47
Estonia	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-	-
France	30	-	-	-	-	2	-	377	377	-	13	13
Germany	-	-	-	-	-	5	-	195	195	-	7	7
Guatemala	-	-	-	-	-	-	-	-	281	9	-	9
India	-	-	-	-	-	7	-	7	7	-	0	0
Indonesia	-	-	-	-	-	15	-	15	15	-	1	1
Italy	-	-	-	-	-	61	-	61	61	-	2	2
Korea, South	-	-	-	-	-	323	-	395	395	-	13	13
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	4	-	-	-	-	4	4	-	0	0
Mexico	183	-	-	-	-	-	-	802	17,061	542	27	569
Netherlands	-	-	-	-	-	-	-	154	154	-	5	5
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	335	335	-	11	11
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	35	-	4,718	4,718	-	157	157
Spain	-	-	-	-	-	-	-	37	37	-	1	1
Sweden	-	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	4	-	-	-	33	-	384	900	17	13	30
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	0	-	271	-	988	988	1	31	32
Total	213	4	4	45	-	907	-	18,211	92,778	2,486	607	3,093
Persian Gulf³	-	-	-	-	-	149	-	1,488	21,123	655	50	704

- = 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, November 2018
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
PAD District 4										
OPEC	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	9,588	419	-	-	-	-	-	-	55	55
Canada	9,588	419	-	-	-	-	-	-	55	55
Other	0	0	-	-	-	-	-	-	0	0
Total	9,588	419	-	-	-	-	-	-	55	55
PAD District 5										
OPEC	25,139	-	-	1,472	-	-	-	-	-	-
Algeria	-	-	-	1,136	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	4,810	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	2,437	-	-	-	-	-	-	-	-	-
Kuwait	2,067	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	1,340	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	13,936	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	336	-	-	-	-	-	-
Venezuela	549	-	-	-	-	-	-	-	-	-
Non-OPEC	13,058	1,632	-	902	-	34	34	15	57	72
Argentina	988	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Brazil	318	-	-	-	-	-	-	-	-	-
Brunei	961	-	-	-	-	-	-	-	-	-
Canada	5,592	1,575	-	-	-	34	34	15	57	72
China	-	-	-	-	-	-	-	-	-	-
Colombia	2,702	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Indonesia	1,189	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	360	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Other	948	57	-	902	-	0	0	0	0	0
Total	38,197	1,632	-	2,374	-	34	34	15	57	72
Persian Gulf³	18,440	-	-	336	-	-	-	-	-	-

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2018
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
PAD District 4											
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	6	-	-	123	-	-	-	123
Canada	-	-	-	6	-	-	123	-	-	-	123
Other	-	-	-	0	-	-	0	-	-	-	0
Total	-	-	-	6	-	-	123	-	-	-	123
PAD District 5											
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	236	89	344	-	315	-	-	-	315
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	236	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	89	-	-	315	-	-	-	315
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	0	0	344	-	0	-	-	-	0
Total	-	-	236	89	344	-	315	-	-	-	315
Persian Gulf ³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2018
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
PAD District 4									
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	28	-	-	-	5	5
Canada	-	-	-	-	-	-	-	5	5
Other	-	-	-	28	-	-	-	0	0
Total	-	-	-	28	-	-	-	5	5
PAD District 5									
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	2,095	-	-	203	568	771
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	203	103	306
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Japan	-	-	-	293	-	-	-	-	-
Korea, South	-	-	-	1,171	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	128	128
Netherlands	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	337	337
Singapore	-	-	-	315	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Other	-	-	-	316	-	-	0	0	0
Total	-	-	-	2,095	-	-	203	568	771
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, November 2018
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
PAD District 4												
OPEC	-	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	-	10	-	1	647	10,235	320	22	341
Canada	-	-	-	-	10	-	1	619	10,207	320	21	340
Other	-	-	-	-	0	-	0	28	28	0	1	1
Total	-	-	-	-	10	-	1	647	10,235	320	22	341
PAD District 5												
OPEC	-	-	-	-	-	-	-	1,472	26,611	838	49	887
Algeria	-	-	-	-	-	-	-	1,136	1,136	-	38	38
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	4,810	160	-	160
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	2,437	81	-	81
Kuwait	-	-	-	-	-	-	-	-	2,067	69	-	69
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	1,340	45	-	45
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	13,936	465	-	465
United Arab Emirates	-	-	-	-	-	-	-	336	336	-	11	11
Venezuela	-	-	-	-	-	-	-	-	549	18	-	18
Non-OPEC	-	-	50	32	71	27	-	6,670	19,728	435	222	658
Argentina	-	-	-	-	-	-	-	-	988	33	-	33
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	236	554	11	8	18
Brunei	-	-	-	-	-	-	-	-	961	32	-	32
Canada	-	-	-	32	71	4	-	2,498	8,090	186	83	270
China	-	-	33	-	-	-	-	33	33	-	1	1
Colombia	-	-	-	-	-	-	-	-	2,702	90	-	90
Finland	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	1,189	40	-	40
Japan	-	-	17	-	-	-	-	310	310	-	10	10
Korea, South	-	-	-	-	-	23	-	1,194	1,194	-	40	40
Malaysia	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	128	488	12	4	16
Netherlands	-	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	337	337	-	11	11
Singapore	-	-	-	-	-	-	-	659	659	-	22	22
Sweden	-	-	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	0	0	0	0	-	1,275	2,223	31	43	75
Total	-	-	50	32	71	27	-	8,142	46,339	1,273	271	1,545
Persian Gulf³	-	-	-	-	-	-	-	336	18,776	615	11	626

- = 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-November 2018
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	146,455	140	-	4,432	-	400	400	-	13,083	13,083
Algeria	26,045	140	-	3,779	-	-	-	-	218	218
Angola	14,477	-	-	2	-	-	-	-	1,334	1,334
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	1,001	-	-	-	-	-	-	-	-	-
Gabon	1,397	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	13,860	-	-	398	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	9,455	-	-	-	-	-	-	-	-	-
Nigeria	43,530	-	-	253	-	-	-	-	3,231	3,231
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	34,462	-	-	-	-	400	400	-	1,289	1,289
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	7,011	7,011
Non-OPEC	139,478	13,218	1,921	9,498	-	12,302	12,302	58,560	115,050	173,610
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	306	306	1,445	6,534	7,979
Brazil	1,320	-	-	-	-	-	-	-	4,328	4,328
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	1,144	-	-	-	-	-	-	-	-	-
Canada	70,616	12,031	1,921	1,819	-	3,647	3,647	31,347	11,076	42,423
Chad	3,756	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	9,069	-	-	259	-	103	103	-	4,947	4,947
Denmark	2,436	-	-	369	-	-	-	10	65	75
Egypt	4,712	-	-	-	-	-	-	96	334	430
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	277	3,899	4,176
France	-	-	-	-	-	1,572	1,572	3,673	3,410	7,083
Germany	-	-	-	57	-	18	18	13	117	130
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	125	-	267	267	511	16,537	17,048
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	630	630	107	2,533	2,640
Korea, South	-	-	-	-	-	-	-	-	1,366	1,366
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	323	323
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	3,469	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	303	-	1,162	1,162	3,530	7,482	11,012
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	16,772	540	-	58	-	578	578	1,284	5,433	6,717
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	1,106	1,106	1,485	7,179	8,664
Russia	8,664	-	-	3,324	-	241	241	188	11,639	11,827
Spain	-	-	-	1,013	-	275	275	47	11,271	11,318
Sweden	-	263	-	82	-	968	968	30	1,367	1,397
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	6,303	-	-	265	-	1,429	1,429	14,517	9,619	24,136
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	9,820	384	0	1,824	-	0	0	0	5,591	5,591
Total	285,933	13,358	1,921	13,930	-	12,702	12,702	58,560	128,133	186,693
Persian Gulf³	48,322	-	-	398	-	400	400	-	1,289	1,289

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-November 2018
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-	-	-	-	-	-	7,637	-	-	100	7,737
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	2,523	-	-	-	2,523
Saudi Arabia	-	-	-	-	-	-	5,082	-	-	-	5,082
United Arab Emirates	-	-	-	-	-	-	32	-	-	-	32
Venezuela	-	-	-	-	-	-	-	-	-	100	100
Non-OPEC	-	-	-	1,867	-	-	35,245	1,036	4,028	350	40,659
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	542	-	-	-	542
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	605	-	-	-	605
Brazil	-	-	-	-	-	-	717	-	-	-	717
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	697	-	-	22,624	463	3,778	-	26,865
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	1,191	-	-	-	1,191
Colombia	-	-	-	-	-	-	1,971	-	-	300	2,271
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	168	-	-	-	-	-	-	-
Germany	-	-	-	1,002	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	3,369	-	-	-	3,369
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	508	-	-	-	508
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	161	-	-	-	161
Portugal	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	3,254	573	250	-	4,077
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	303	0	0	50	353
Total	-	-	-	1,867	-	-	42,882	1,036	4,028	450	48,396
Persian Gulf³	-	-	-	-	-	-	7,637	-	-	-	7,637

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-November 2018
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
OPEC	—	—	—	2,158	—	147	229	6,325	6,701
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	227	—	227
Ecuador	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	2	—	—	—	—	—
Kuwait	—	—	—	165	—	—	—	—	—
Libya	—	—	—	—	—	147	2	—	149
Nigeria	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	133	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	1,858	—	—	—	6,325	6,325
Non-OPEC	614	29	—	13,831	7	545	1,450	21,699	23,694
Argentina	—	—	—	6	—	204	571	—	775
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	1	1
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	80	315	268	663
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	10	—	5,960	7	—	127	10,510	10,637
Chad	—	—	—	—	—	—	—	—	—
China	153	—	—	116	—	—	—	—	—
Colombia	108	—	—	61	—	—	302	2,114	2,416
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	2,054	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	74	—	—	—	—	—
Korea, South	353	—	—	4,981	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	419	419
Netherlands	—	19	—	—	—	—	—	1,666	1,666
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Russia	—	—	—	7	—	—	—	260	260
Spain	—	—	—	—	—	—	—	80	80
Sweden	—	—	—	—	—	—	—	286	286
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	5,314	5,314
United Kingdom	—	—	—	—	—	—	10	—	10
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	0	0	—	572	0	261	125	781	1,167
Total	614	29	—	15,989	7	692	1,679	28,024	30,395
Persian Gulf³	—	—	—	300	—	—	—	—	—

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-November 2018
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	—	—	—	—	809	125	—	35,585	182,040	438	107	545
Algeria	—	—	—	—	—	—	—	4,137	30,182	78	12	90
Angola	—	—	—	—	—	—	—	1,336	15,813	43	4	47
Congo (Brazzaville)	—	—	—	—	—	—	—	227	—	—	1	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	1,001	3	—	3
Gabon	—	—	—	—	—	—	—	—	1,397	4	—	4
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	400	14,260	41	1	43
Kuwait	—	—	—	—	—	—	—	165	165	—	0	0
Libya	—	—	—	—	—	—	—	149	9,604	28	0	29
Nigeria	—	—	—	—	—	—	—	3,484	47,014	130	10	141
Qatar	—	—	—	—	—	—	—	2,523	2,523	—	8	8
Saudi Arabia	—	—	—	—	—	—	—	6,904	41,366	103	21	124
United Arab Emirates	—	—	—	—	—	125	—	157	157	—	0	0
Venezuela	—	—	—	—	809	—	—	16,103	16,103	—	48	48
Non-OPEC	12	1	844	190	7,542	1,561	—	301,400	440,878	418	902	1,320
Argentina	—	—	—	—	—	18	—	799	799	—	2	2
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	543	543	—	2	2
Bahrain	—	—	—	—	—	51	—	51	51	—	0	0
Belgium	—	—	—	—	106	51	—	9,047	9,047	—	27	27
Brazil	—	—	—	—	—	—	—	5,708	7,028	4	17	21
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	1,144	3	—	3
Canada	2	1	443	3	5,935	1,059	—	113,460	184,076	211	340	551
Chad	—	—	—	—	—	—	—	—	3,756	11	—	11
China	—	—	258	—	—	—	—	1,718	1,718	—	5	5
Colombia	—	—	—	167	34	—	—	10,366	19,435	27	31	58
Denmark	—	—	—	—	—	—	—	444	2,880	7	1	9
Egypt	—	—	—	—	—	—	—	430	5,142	14	1	15
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	15	—	4,191	4,191	—	13	13
France	—	—	—	—	—	97	—	8,920	8,920	—	27	27
Germany	—	—	17	—	—	89	—	1,313	1,313	—	4	4
Guatemala	—	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	5	—	22,868	22,868	—	68	68
Indonesia	—	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	23	—	3,367	3,367	—	10	10
Korea, South	—	—	7	—	—	92	—	6,799	6,799	—	20	20
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	323	323	—	1	1
Malaysia	—	—	4	—	—	1	—	5	5	—	0	0
Mexico	—	—	—	—	—	—	—	419	3,888	10	1	12
Netherlands	—	—	—	—	—	10	—	14,680	14,680	—	44	44
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	7,893	24,665	50	24	74
Oman	—	—	—	—	—	—	—	161	161	—	0	0
Portugal	—	—	—	—	—	—	—	9,770	9,770	—	29	29
Russia	—	—	—	—	—	39	—	19,775	28,439	26	59	85
Spain	—	—	10	—	1,159	—	—	13,855	13,855	—	41	41
Sweden	—	—	—	—	—	—	—	2,996	2,996	—	9	9
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	5,314	5,314	—	16	16
United Kingdom	10	—	—	10	—	—	—	26,244	32,547	19	79	97
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	105	10	308	11	—	9,941	19,761	32	31	62
Total	12	1	844	190	8,351	1,686	—	336,985	622,918	856	1,009	1,865
Persian Gulf³	—	—	—	—	—	176	—	10,200	58,522	145	31	175

— = 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-November 2018
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	574	-	-	1,197	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	223	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	574	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	974	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	826,884	23,799	4,549	1,956	-	-	-	64	4,535	4,599
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	22	22
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	822,422	23,799	4,549	638	-	-	-	64	4,513	4,577
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	304	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	4,462	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	693	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	321	-	-	-	0	0	0
Total	827,458	23,799	4,549	3,153	-	-	-	64	4,535	4,599
Persian Gulf³	574	-	-	974	-	-	-	-	-	-

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-November 2018
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	686	-	-	1,631	-	679	114	2,424
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	686	-	-	1,631	-	679	114	2,424
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	0	-	0	0	0
Total	-	-	-	686	-	-	1,631	-	679	114	2,424
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-November 2018
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	2	28	-	-	380	1	368	764	1,133
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	2	28	-	-	380	1	368	764	1,133
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	0	0	-	-	0	0	0	0	0
Total	2	28	-	-	380	1	368	764	1,133
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-November 2018
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	-	-	-	-	-	8	-	1,205	1,779	2	4	5
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	223	223	-	1	1
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	574	2	-	2
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	8	-	8	8	-	0	0
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	974	974	-	3	3
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	768	782	55	269	2,925	1,437	8	45,826	872,710	2,476	137	2,613
Argentina	-	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	22	22	-	0	0
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-	-
Canada	768	782	55	261	2,925	1,433	8	44,474	866,896	2,462	133	2,595
Chad	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	304	304	-	1	1
Estonia	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	1	-	1	1	-	0	0
France	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	1	-	1	1	-	0	0
Korea, South	-	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	4,462	13	-	13
Netherlands	-	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	693	693	-	2	2
Spain	-	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	8	-	-	-	8	8	-	0	0
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	0	0	2	0	323	323	1	1	2
Total	768	782	55	269	2,925	1,445	8	47,031	874,489	2,477	141	2,618
Persian Gulf ³	-	-	-	-	-	8	-	982	1,556	2	3	5

- = 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-November 2018
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	481,640	-	-	39,885	-	-	-	-	862	862
Algeria	-	-	-	21,379	-	-	-	-	318	318
Angola	6,967	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	11,907	-	-	-	-	-	-	-	-	-
Equatorial Guinea	1,943	-	-	-	-	-	-	-	-	-
Gabon	398	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	138,079	-	-	452	-	-	-	-	-	-
Kuwait	12,875	-	-	109	-	-	-	-	-	-
Libya	-	-	-	151	-	-	-	-	-	-
Nigeria	10,465	-	-	464	-	-	-	-	89	89
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	132,639	-	-	1,428	-	-	-	-	-	-
United Arab Emirates	-	-	-	13,303	-	-	-	-	-	-
Venezuela	166,367	-	-	1,565	-	-	-	-	455	455
Non-OPEC	464,784	1	1,417	121,121	-	838	838	-	18,984	18,984
Argentina	2,430	-	-	13	-	-	-	-	731	731
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	529	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	13,527	-	-	-	-	41	41
Brazil	19,391	-	-	3,228	-	-	-	-	1,715	1,715
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	791	-	-	-	-	-	-
Canada	163,676	1	-	2,694	-	-	-	-	-	-
Chad	3,554	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	49,963	-	-	216	-	-	-	-	254	254
Denmark	-	-	-	1,140	-	-	-	-	15	15
Egypt	2,761	-	-	3,617	-	-	-	-	356	356
Estonia	-	-	-	90	-	-	-	-	-	-
Finland	-	-	-	612	-	-	-	-	329	329
France	-	-	37	2,054	-	242	242	-	575	575
Germany	-	-	-	592	-	-	-	-	119	119
Guatemala	2,221	-	-	-	-	-	-	-	-	-
India	-	-	-	534	-	-	-	-	1,607	1,607
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	438	-	-	3,049	-	-	-	-	358	358
Korea, South	-	-	-	-	-	-	-	-	266	266
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	307	307
Malaysia	-	-	-	120	-	-	-	-	-	-
Mexico	200,764	-	311	398	-	-	-	-	2,173	2,173
Netherlands	-	-	-	3,241	-	1	1	-	778	778
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	6,329	-	-	-	-	349	349
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	206	206
Russia	-	-	-	65,303	-	-	-	-	509	509
Spain	-	-	-	1,726	-	110	110	-	1,894	1,894
Sweden	-	-	-	253	-	54	54	-	419	419
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	1,579	-	-	348	-	-	-	-	-	-
United Kingdom	12,028	-	-	1,492	-	-	-	-	1,405	1,405
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	5,052	0	1,069	9,754	-	431	431	-	4,578	4,578
Total	946,424	1	1,417	161,006	-	838	838	-	19,846	19,846
Persian Gulf³	283,593	-	-	15,292	-	-	-	-	-	-

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-November 2018
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	—	—	—	—	—	—	1,111	—	140	—	1,251
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	140	—	140
Qatar	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	1,111	—	—	—	1,111
Non-OPEC	1,672	1,657	—	438	—	—	335	—	541	241	1,117
Argentina	132	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	52	—	—	—	—	—	—	—	—	—	—
Brazil	719	1,033	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	—	142	—	—	26	—	77	—	103
Chad	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	154	—	—	—	—	—	—	—
Germany	87	—	—	142	—	—	—	—	—	—	5
Guatemala	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	293	—	277	—	570
Netherlands	337	624	—	—	—	—	16	—	—	—	85
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Russia	345	—	—	—	—	—	—	—	187	167	354
Spain	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	—	0	—	—	0	—	0	74	0
Total	1,672	1,657	—	438	—	—	1,446	—	681	241	2,368
Persian Gulf³	—	—	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-November 2018
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
OPEC	-	-	-	-	84	3,732	-	3,370	7,102
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	84	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	43	43
Venezuela	-	-	-	-	-	3,732	-	3,327	7,059
Non-OPEC	-	-	-	-	4,029	4,145	1,924	15,514	21,583
Argentina	-	-	-	-	-	4	-	1	5
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	71	78	50	-	128
Brazil	-	-	-	-	198	-	280	-	280
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	575	676	-	1,384	2,060
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	289	289
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	32	-	326	358
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	107	123	-	-	123
Germany	-	-	-	-	24	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	84	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	1,843	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	97	97
Malaysia	-	-	-	-	-	-	-	75	75
Mexico	-	-	-	-	37	525	-	8,057	8,582
Netherlands	-	-	-	-	3	57	-	-	57
Netherlands Antilles	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	53	-	-	-	-
Russia	-	-	-	-	-	1,749	-	3,811	5,560
Spain	-	-	-	-	-	-	263	-	263
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	85	-	967	1,052
United Kingdom	-	-	-	-	-	38	-	-	38
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	1,034	778	1,331	507	2,616
Total	-	-	-	-	4,113	7,877	1,924	18,884	28,685
Persian Gulf³	-	-	-	-	84	-	-	43	43

See footnotes at end of table.

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-November 2018
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	558	—	—	—	—	3,912	—	53,654	535,294	1,442	161	1,603
Algeria	327	—	—	—	—	—	—	22,024	22,024	—	66	66
Angola	—	—	—	—	—	—	—	6,967	6,967	21	—	21
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	11,907	36	—	36
Equatorial Guinea	—	—	—	—	—	—	—	—	1,943	6	—	6
Gabon	—	—	—	—	—	—	—	—	398	1	—	1
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	452	138,531	413	1	415
Kuwait	—	—	—	—	—	—	—	109	12,984	39	0	39
Libya	—	—	—	—	—	—	—	151	151	—	0	0
Nigeria	231	—	—	—	—	—	—	924	11,389	31	3	34
Qatar	—	—	—	—	—	3,126	—	3,126	3,126	—	9	9
Saudi Arabia	—	—	—	—	—	—	—	1,512	134,151	397	5	402
United Arab Emirates	—	—	—	—	—	786	—	14,132	14,132	—	42	42
Venezuela	—	—	—	—	—	—	—	10,190	176,557	498	31	529
Non-OPEC	4,241	537	377	2,868	—	7,185	59	188,193	652,977	1,392	563	1,955
Argentina	—	36	—	1,121	—	33	—	2,071	4,501	7	6	13
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	529	2	—	2
Bahamas	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	924	—	924	924	—	3	3
Belgium	—	—	—	—	—	100	—	13,921	13,921	—	42	42
Brazil	26	—	—	145	—	—	—	7,344	26,735	58	22	80
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	791	791	—	2	2
Canada	—	—	—	243	—	14	—	5,832	169,508	490	17	508
Chad	—	—	—	—	—	—	—	—	3,554	11	—	11
China	—	—	168	318	—	—	—	486	486	—	1	1
Colombia	—	—	—	—	—	—	—	759	50,722	150	2	152
Denmark	—	—	—	—	—	—	—	1,155	1,155	—	3	3
Egypt	—	—	—	—	—	—	—	3,973	6,734	8	12	20
Estonia	—	—	—	—	—	—	—	448	448	—	1	1
Finland	—	—	—	—	—	6	—	947	947	—	3	3
France	57	178	—	—	—	55	—	3,582	3,582	—	11	11
Germany	—	—	—	—	—	77	—	1,050	1,050	—	3	3
Guatemala	—	—	—	—	—	—	—	—	2,221	7	—	7
India	—	—	—	—	—	7	—	2,232	2,232	—	7	7
Indonesia	—	—	—	—	—	869	—	869	869	—	3	3
Italy	—	—	—	—	—	280	—	3,694	4,132	1	11	12
Korea, South	23	—	—	—	—	3,906	—	6,038	6,038	—	18	18
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	404	404	—	1	1
Malaysia	—	—	138	—	—	—	—	333	333	—	1	1
Mexico	2,330	—	—	—	—	—	—	14,401	215,165	601	43	644
Netherlands	53	—	—	—	—	—	59	5,261	5,261	—	16	16
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	6,678	6,678	—	20	20
Oman	—	—	—	601	—	66	—	667	667	—	2	2
Portugal	—	—	—	—	—	—	—	259	259	—	1	1
Russia	—	—	—	255	—	35	—	72,361	72,361	—	217	217
Spain	—	—	—	—	—	23	—	4,016	4,016	—	12	12
Sweden	—	—	—	—	—	3	—	729	729	—	2	2
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	1,400	2,979	5	4	9
United Kingdom	266	4	—	185	—	198	—	3,588	15,616	36	11	47
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	1,486	319	71	0	—	589	0	21,980	27,032	15	66	80
Total	4,799	537	377	2,868	—	11,097	59	241,847	1,188,271	2,834	724	3,558
Persian Gulf³	—	—	—	—	—	4,836	—	20,255	303,848	849	61	910

— = 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-November 2018
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
PAD District 4										
OPEC	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	100,813	3,597	-	32	-	-	-	-	849	849
Canada	100,813	3,597	-	32	-	-	-	-	849	849
Other	0	0	-	0	-	-	-	-	0	0
Total	100,813	3,597	-	32	-	-	-	-	849	849
PAD District 5										
OPEC	246,616	-	-	8,958	-	-	-	-	228	228
Algeria	-	-	-	6,528	-	-	-	-	-	-
Angola	11,550	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	46,298	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	29,828	-	-	-	-	-	-	-	-	-
Kuwait	15,064	-	-	-	-	-	-	-	-	-
Libya	7,003	-	-	-	-	-	-	-	-	-
Nigeria	4,885	-	-	86	-	-	-	228	-	228
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	124,396	-	-	-	-	-	-	-	-	-
United Arab Emirates	1,995	-	-	2,344	-	-	-	-	-	-
Venezuela	2,651	-	-	-	-	-	-	-	-	-
Non-OPEC	203,986	14,126	3	20,429	-	1,953	1,953	966	5,034	6,000
Argentina	4,430	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Brazil	24,729	-	-	20	-	-	-	-	-	-
Brunei	5,478	-	-	-	-	-	-	-	-	-
Canada	76,688	13,459	3	1,953	-	450	450	15	1,482	1,497
China	-	-	-	-	-	-	-	-	157	157
Colombia	41,207	-	-	-	-	-	-	-	297	297
Finland	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	96	-	-	-	-	-	-
Indonesia	14,531	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	96	96	-	675	675
Korea, South	-	56	-	120	-	622	622	-	655	655
Malaysia	588	-	-	262	-	-	-	-	-	-
Mexico	16,137	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	233	-	48	48	438	313	751
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-
Peru	262	56	-	1,307	-	-	-	-	-	-
Singapore	-	-	-	612	-	-	-	-	503	503
Sweden	-	-	-	-	-	-	-	47	-	47
Taiwan	-	-	-	-	-	3	3	-	725	725
United Kingdom	789	-	-	-	-	65	65	319	-	319
Vietnam	788	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Other	18,359	555	0	15,826	-	669	669	147	227	374
Total	450,602	14,126	3	29,387	-	1,953	1,953	966	5,262	6,228
Persian Gulf³	171,283	-	-	2,344	-	-	-	-	-	-

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-November 2018
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
PAD District 4											
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	33	-	-	692	-	-	-	692
Canada	-	-	-	33	-	-	692	-	-	-	692
Other	-	-	-	0	-	-	0	-	-	-	0
Total	-	-	-	33	-	-	692	-	-	-	692
PAD District 5											
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	1,039	353	4,018	-	3,580	-	186	206	3,972
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	1,010	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	225	-	-	2,519	-	186	-	2,705
China	-	-	-	-	-	-	365	-	-	-	365
Colombia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	63	-	-	-	63
Korea, South	-	-	-	128	-	-	331	-	-	-	331
Malaysia	-	-	-	-	-	-	241	-	-	-	241
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	206	-	206
Singapore	-	-	-	-	-	-	61	-	-	-	61
Sweden	-	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	29	0	4,018	-	0	-	0	0	0
Total	-	-	1,039	353	4,018	-	3,580	-	186	206	3,972
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-November 2018
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
PAD District 4									
OPEC	—	—	—	96	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	96	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	—	6	—	28	—	—	—	14	14
Canada	—	6	—	—	—	—	—	14	14
Other	—	0	—	28	—	—	—	0	0
Total	—	6	—	124	—	—	—	14	14
PAD District 5									
OPEC	—	—	—	—	—	—	—	1,131	1,131
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	438	438
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	693	693
Non-OPEC	—	3	—	26,913	—	—	1,915	8,005	9,920
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—
Canada	—	3	—	78	—	—	1,915	964	2,879
China	—	—	—	3,518	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Japan	—	—	—	3,119	—	—	—	—	—
Korea, South	—	—	—	16,674	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	2,934	2,934
Netherlands	—	—	—	—	—	—	—	350	350
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Papua New Guinea	—	—	—	—	—	—	—	—	—
Peru	—	—	—	—	—	—	—	2,795	2,795
Singapore	—	—	—	2,143	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—
Taiwan	—	—	—	545	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Other	—	0	—	836	—	—	0	962	962
Total	—	3	—	26,913	—	—	1,915	9,136	11,051
Persian Gulf ³	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

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

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
PAD District 4												
OPEC	-	-	-	-	-	-	-	96	96	-	0	0
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	96	96	-	0	0
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	-	290	-	11	5,552	106,365	302	17	318
Canada	-	-	-	-	290	-	11	5,524	106,337	302	17	318
Other	-	-	-	-	0	-	0	28	28	0	0	0
Total	-	-	-	-	290	-	11	5,648	106,461	302	17	319
PAD District 5												
OPEC	-	-	-	-	-	-	-	10,317	256,933	738	31	769
Algeria	-	-	-	-	-	-	-	6,528	6,528	-	20	20
Angola	-	-	-	-	-	-	-	-	11,550	35	-	35
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	438	46,736	139	1	140
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	29,828	89	-	89
Kuwait	-	-	-	-	-	-	-	-	15,064	45	-	45
Libya	-	-	-	-	-	-	-	-	7,003	21	-	21
Nigeria	-	-	-	-	-	-	-	314	5,199	15	1	16
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	124,396	372	-	372
United Arab Emirates	-	-	-	-	-	-	-	2,344	4,339	6	7	13
Venezuela	-	-	-	-	-	-	-	693	3,344	8	2	10
Non-OPEC	340	-	376	301	1,136	146	-	91,028	295,014	611	273	883
Argentina	-	-	-	-	-	-	-	-	4,430	13	-	13
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	1,030	25,759	74	3	77
Brunei	-	-	-	-	-	-	-	-	5,478	16	-	16
Canada	-	-	-	301	979	77	-	24,609	101,297	230	74	303
China	-	-	319	-	91	-	-	4,450	4,450	-	13	13
Colombia	-	-	-	-	-	-	-	297	41,504	123	1	124
Finland	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	96	96	-	0	0
Indonesia	-	-	-	-	-	-	-	-	14,531	44	-	44
Japan	-	-	55	-	-	-	-	4,008	4,008	-	12	12
Korea, South	-	-	-	-	66	69	-	18,721	18,721	-	56	56
Malaysia	-	-	2	-	-	-	-	505	1,093	2	2	3
Mexico	-	-	-	-	-	-	-	2,934	19,071	48	9	57
Netherlands	-	-	-	-	-	-	-	1,382	1,382	-	4	4
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	4,364	4,626	1	13	14
Singapore	-	-	-	-	-	-	-	7,337	7,337	-	22	22
Sweden	-	-	-	-	-	-	-	47	47	-	0	0
Taiwan	340	-	-	-	-	-	-	1,613	1,613	-	5	5
United Kingdom	-	-	-	-	-	-	-	384	1,173	2	1	4
Vietnam	-	-	-	-	-	-	-	-	788	2	-	2
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Other	0	-	0	0	0	0	-	19,251	37,610	56	58	114
Total	340	-	376	301	1,136	146	-	101,345	551,947	1,349	303	1,653
Persian Gulf³	-	-	-	-	-	-	-	2,344	173,627	513	7	520

- = 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, November 2018
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil¹	170	10,612	66,343	-	1,154	78,278	2,609
Hydrocarbon Gas Liquids	3,386	7,097	38,135	81	924	49,622	1,654
Natural Gas Liquids	3,386	7,097	38,135	81	924	49,622	1,654
Ethane	1,392	3,263	2,235	-	0	6,890	230
Propane	1,569	159	29,932	-	651	32,311	1,077
Normal Butane	155	149	5,846	1	266	6,417	214
Isobutane	1	0	96	-	1	98	3
Natural Gasoline	269	3,526	26	80	5	3,907	130
Refinery Olefins	-	-	-	-	-	-	-
Ethylene	-	-	-	-	-	-	-
Propylene	-	-	-	-	-	-	-
Normal Butylene	-	-	-	-	-	-	-
Isobutylene	-	-	-	-	-	-	-
Other Liquids	313	1,980	16,239	0	407	18,940	631
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	286	698	4,598	-	145	5,728	191
Hydrogen	-	-	-	-	-	-	-
Oxygenates (excluding Fuel Ethanol)	0	3	1,947	-	1	1,951	65
Methyl Tertiary Butyl Ether (MTBE)	0	-	1,288	-	0	1,288	43
Other Oxygenates	0	3	659	-	1	663	22
Renewable Fuels (including Fuel Ethanol) ...	286	695	2,651	-	144	3,776	126
Fuel Ethanol	234	675	2,599	-	112	3,620	121
Biodiesel	52	20	51	-	33	156	5
Other Renewable Diesel	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	-	-	-	-	-
Unfinished Oils	22	1,280	9,935	0	97	11,334	378
Naphthas and Lighter	4	1,265	9,731	0	75	11,075	369
Kerosene and Light Gas Oils	18	15	204	-	22	259	9
Heavy Gas Oils	-	-	-	-	-	-	-
Residuum	-	-	-	-	-	-	-
Motor Gasoline Blend.Comp. (MGBC)	5	2	1,706	-	165	1,878	63
Reformulated	4	-	3	-	2	8	0
Conventional	2	2	1,703	-	163	1,870	62
Aviation Gasoline Blend. Comp.	-	-	-	-	-	-	-
Finished Petroleum Products	2,968	937	99,290	20	10,013	113,228	3,774
Finished Motor Gasoline	263	89	30,099	1	2,087	32,539	1,085
Reformulated	-	-	-	-	-	-	-
Conventional	263	89	30,099	1	2,087	32,539	1,085
Finished Aviation Gasoline	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	736	44	4,510	-	719	6,008	200
Kerosene	67	1	177	-	3	248	8
Distillate Fuel Oil	925	64	39,300	-	3,225	43,514	1,450
15 ppm sulfur and under	505	0	32,937	-	2,900	36,342	1,211
Greater than 15 ppm to 500 ppm sulfur	420	24	3,298	-	128	3,871	129
Greater than 500 ppm sulfur	-	39	3,065	-	197	3,301	110
Residual Fuel Oil	188	241	6,949	9	198	7,585	253
Naphtha for Petro. Feed. Use	-	-	-	-	-	-	-
Other Oils for Petro. Feed. Use	-	-	-	-	-	-	-
Special Naphthas	-	-	-	-	-	-	-
Lubricants	158	170	2,110	6	272	2,716	91
Waxes	64	30	24	0	3	121	4
Petroleum Coke	495	199	15,224	0	3,470	19,389	646
Asphalt and Road Oil	59	98	891	3	36	1,086	36
Miscellaneous Products	13	1	7	-	0	21	1
Total	6,837	20,626	220,007	101	12,498	260,069	8,669

- = 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-November 2018
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil¹	9,159	48,484	591,846	130	3,940	653,560	1,957
Hydrocarbon Gas Liquids	33,784	95,350	390,378	828	14,858	535,197	1,602
Natural Gas Liquids	33,784	95,350	390,378	828	14,858	535,197	1,602
Ethane	10,367	30,339	44,532	-	9	85,247	255
Propane	19,361	1,537	290,102	5	10,436	320,539	960
Normal Butane	3,028	3,507	54,957	90	4,319	65,705	197
Isobutane	11	6	1,572	-	5	1,588	5
Natural Gasoline	1,027	59,976	250	733	133	62,119	186
Refinery Olefins	-	-	-	-	-	-	-
Ethylene	-	-	-	-	-	-	-
Propylene	-	-	-	-	-	-	-
Normal Butylene	-	-	-	-	-	-	-
Isobutylene	-	-	-	-	-	-	-
Other Liquids	3,294	28,865	139,872	24	6,225	178,281	534
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	1,352	8,041	51,020	16	2,277	62,707	188
Hydrogen	-	-	-	-	-	-	-
Oxygenates (excluding Fuel Ethanol)	13	15	22,631	0	9	22,669	68
Methyl Tertiary Butyl Ether (MTBE)	0	0	12,822	-	0	12,823	38
Other Oxygenates	13	15	9,809	0	9	9,846	29
Renewable Fuels (including Fuel Ethanol) ...	1,338	8,026	28,389	15	2,268	40,037	120
Fuel Ethanol	1,199	7,032	27,834	14	1,567	37,645	113
Biodiesel	139	995	555	2	701	2,392	7
Other Renewable Diesel	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	-	-	-	-	-
Unfinished Oils	386	20,429	72,450	7	928	94,201	282
Naphthas and Lighter	141	20,327	70,107	7	804	91,386	274
Kerosene and Light Gas Oils	245	102	2,343	1	124	2,815	8
Heavy Gas Oils	-	-	-	-	-	-	-
Residuum	-	-	-	-	-	-	-
Motor Gasoline Blend.Comp. (MGBC)	1,556	395	16,402	1	3,020	21,373	64
Reformulated	28	1	112	-	22	163	0
Conventional	1,528	394	16,290	1	2,998	21,210	64
Aviation Gasoline Blend. Comp.	-	-	-	-	-	-	-
Finished Petroleum Products	45,416	10,903	971,220	291	118,949	1,146,779	3,433
Finished Motor Gasoline	1,948	1,967	269,649	12	20,072	293,649	879
Reformulated	-	-	-	-	-	-	-
Conventional	1,948	1,967	269,649	12	20,072	293,649	879
Finished Aviation Gasoline	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	4,821	510	60,104	-	8,949	74,385	223
Kerosene	106	23	1,173	1	23	1,326	4
Distillate Fuel Oil	12,065	1,305	387,186	0	31,479	432,034	1,294
15 ppm sulfur and under	7,353	277	334,839	0	22,331	364,800	1,092
Greater than 15 ppm to 500 ppm sulfur	2,591	533	27,119	-	2,492	32,734	98
Greater than 500 ppm sulfur	2,121	495	25,228	-	6,656	34,500	103
Residual Fuel Oil	13,772	1,692	80,972	114	10,726	107,276	321
Naphtha for Petro. Feed. Use	-	-	-	-	-	-	-
Other Oils for Petro. Feed. Use	-	-	-	-	-	-	-
Special Naphthas	-	-	-	-	-	-	-
Lubricants	2,697	2,159	27,990	91	3,913	36,851	110
Waxes	743	357	260	4	60	1,424	4
Petroleum Coke	8,312	1,714	138,295	15	43,207	191,543	573
Asphalt and Road Oil	803	1,156	5,503	52	446	7,959	24
Miscellaneous Products	150	21	87	1	75	334	1
Total	91,654	183,602	2,093,316	1,273	143,972	2,513,817	7,526

- = 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, November 2018
(Thousand Barrels)

Destination	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
Argentina	—	—	—	156	—	47	47	—	—	—
Australia	—	15	—	0	—	0	0	1	—	1
Bahamas	85	23	—	—	—	73	73	0	—	0
Bahrain	—	—	—	0	—	1	1	—	—	—
Belgium	—	577	—	9	—	—	—	—	—	—
Belize	—	—	—	—	—	65	65	—	—	—
Brazil	1,935	1,427	—	825	—	1,889	1,889	—	0	0
Canada	16,082	7,648	—	1,324	—	1,142	1,142	—	916	916
Cayman Islands	—	—	—	—	—	28	28	—	—	—
Chile	3,447	838	—	121	—	321	321	—	128	128
China	250	1,128	—	6	—	0	0	—	—	—
Colombia	548	22	—	1,924	—	967	967	—	0	0
Costa Rica	—	185	—	0	—	901	901	—	0	0
Denmark	—	—	—	0	—	—	—	—	—	—
Dominican Republic	—	568	—	1	—	440	440	0	—	0
Ecuador	—	959	—	11	—	262	262	—	—	—
Egypt	—	546	—	—	—	—	—	—	—	—
El Salvador	—	222	—	0	—	702	702	0	—	0
Finland	—	—	—	—	—	—	—	—	—	—
France	600	824	—	31	—	—	—	—	—	—
Germany	350	0	—	5	—	0	0	—	0	0
Ghana	—	—	—	—	—	—	—	—	—	—
Gibraltar	—	124	—	—	—	—	—	—	—	—
Greece	—	—	—	—	—	0	0	—	—	—
Guatemala	—	400	—	0	—	1,139	1,139	—	—	—
Honduras	—	535	—	—	—	575	575	—	—	—
Hong Kong	—	—	—	0	—	—	—	—	—	—
India	3,517	793	—	9	—	0	0	0	—	0
Indonesia	—	537	—	1	—	—	—	—	—	—
Ireland	1,238	—	—	—	—	—	—	—	—	—
Israel	—	—	—	—	—	—	—	—	—	—
Italy	1,296	—	—	—	—	—	—	—	—	—
Jamaica	—	104	—	—	—	443	443	—	—	—
Japan	4,080	15,313	—	816	—	0	0	1	0	1
Korea, South	10,530	1,671	—	21	—	1	1	1	0	1
Lebanon	—	—	—	—	—	—	—	—	—	—
Mexico	701	6,485	—	651	—	19,124	19,124	3	278	281
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	716	—	—	—	—	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—	—	—
Netherlands	8,462	1,773	—	648	—	—	—	—	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
New Zealand	—	—	—	0	—	0	0	0	—	0
Nicaragua	399	—	—	80	—	151	151	—	—	—
Nigeria	—	—	—	—	—	614	614	—	—	—
Norway	1,958	1,134	—	60	—	—	—	—	—	—
Pakistan	—	—	—	0	—	—	—	—	—	—
Panama	—	0	—	—	—	475	475	—	—	—
Peru	800	240	—	5	—	690	690	—	95	95
Philippines	—	—	—	—	—	—	—	—	—	—
Portugal	—	306	—	—	—	—	—	—	—	—
Puerto Rico	—	7	—	2	—	3	3	—	0	0
Romania	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	0	—	1	—	—	—	—	—	—
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	6,344	227	—	311	—	750	750	—	0	0
South Africa	—	—	—	—	—	—	—	—	—	—
Spain	—	1,097	—	—	—	—	—	—	—	—
Switzerland	—	—	—	0	—	—	—	—	—	—
Taiwan	5,483	0	—	970	—	—	—	—	—	—
Thailand	977	1	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	345	345	—	—	—
Turkey	—	1,172	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	1	1	—	0	0
United Kingdom	5,685	767	—	1	—	0	0	—	0	0
Venezuela	—	157	—	3,328	—	1,202	1,202	3	451	454
Other	3,511	1,081	—	17	—	188	188	0	2	1
Total	78,278	49,622	—	11,334	—	32,539	32,539	8	1,870	1,878

See footnotes at end of table.

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

Destination	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
Argentina	—	—	—	—	—	—	1,312	517	171	—	2,000
Australia	0	0	0	—	—	—	0	—	—	—	0
Bahamas	—	—	—	—	—	—	67	—	441	—	508
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	0	—	—	—	483	—	—	—	483
Belize	—	—	—	—	—	—	0	350	—	—	350
Brazil	—	—	1,220	—	—	—	3,158	100	115	—	3,373
Canada	—	1	677	100	—	—	0	518	292	—	810
Cayman Islands	—	—	—	—	—	—	170	—	—	—	170
Chile	209	—	0	—	—	—	4,389	—	—	—	4,389
China	—	0	0	—	—	—	2	—	—	—	2
Colombia	—	—	80	—	—	—	1,204	—	—	—	1,204
Costa Rica	—	0	0	—	—	—	770	—	—	—	770
Denmark	—	—	—	—	—	—	—	—	—	—	—
Dominican Republic	—	—	1	—	—	—	167	291	—	—	458
Ecuador	—	—	—	—	—	—	1,925	—	—	—	1,925
Egypt	—	—	1	—	—	—	—	—	—	—	—
El Salvador	—	—	—	—	—	—	0	270	—	—	270
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	0	0	—	—	—	1,413	—	—	—	1,413
Germany	—	0	0	1	—	—	0	—	—	—	0
Ghana	—	—	—	—	—	—	—	—	470	—	470
Gibraltar	—	—	—	—	—	—	300	391	—	—	691
Greece	—	—	—	—	—	—	—	—	—	—	—
Guatemala	—	—	0	—	—	—	234	494	—	—	728
Honduras	—	—	—	—	—	—	150	255	216	—	621
Hong Kong	—	—	—	—	—	—	—	—	—	—	—
India	0	0	669	—	—	—	0	—	—	—	0
Indonesia	—	—	—	—	—	—	87	—	—	—	87
Ireland	—	—	0	—	—	—	—	—	—	—	—
Israel	—	—	1	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—	—
Jamaica	—	—	52	0	—	—	374	—	—	—	374
Japan	—	660	32	—	—	—	1	—	—	—	1
Korea, South	—	0	148	—	—	—	2	—	—	—	2
Lebanon	—	—	0	—	—	—	290	—	—	—	290
Mexico	674	0	115	14	—	—	9,188	17	4	—	9,210
Montenegro	—	—	—	—	—	—	—	—	—	—	—
Morocco	—	—	—	—	—	—	—	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	0	195	37	—	—	3,971	—	—	—	3,971
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—
New Zealand	—	—	—	—	—	—	—	—	—	—	—
Nicaragua	—	—	0	—	—	—	65	50	—	—	115
Nigeria	—	—	86	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	80	—	—	—	80
Pakistan	—	—	—	—	—	—	—	—	—	—	—
Panama	—	—	—	—	—	—	1,152	30	—	—	1,182
Peru	—	—	0	—	—	—	2,122	—	0	—	2,122
Philippines	—	0	67	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Puerto Rico	—	0	97	—	—	—	0	—	—	—	0
Romania	—	—	—	—	—	—	594	—	—	—	594
Saudi Arabia	—	—	40	—	—	—	0	—	—	—	0
Serbia	—	—	—	—	—	—	—	—	—	—	—
Singapore	0	0	32	0	—	—	0	—	190	—	190
South Africa	—	—	0	—	—	—	—	—	—	—	—
Spain	—	—	102	—	—	—	—	—	—	—	—
Switzerland	—	—	1	4	—	—	298	—	—	—	298
Taiwan	0	0	0	—	—	—	0	—	0	—	0
Thailand	—	—	—	—	—	—	0	—	—	—	0
Trinidad and Tobago	—	—	—	—	—	—	23	58	—	—	80
Turkey	—	—	0	—	—	—	0	—	—	—	0
United Arab Emirates	—	—	0	—	—	—	—	—	—	—	—
United Kingdom	—	—	0	—	—	—	618	—	—	—	618
Venezuela	389	—	0	—	—	—	854	—	300	—	1,154
Other	16	2	4	—	—	—	879	530	1,102	—	2,511
Total	1,288	663	3,620	156	—	—	36,342	3,871	3,301	—	43,514

See footnotes at end of table.

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

Destination	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks	
							Naphtha	Other Oils
Argentina	—	—	—	147	—	—	—	—
Australia	—	—	—	—	—	—	—	—
Bahamas	0	—	—	45	—	387	—	—
Bahrain	—	—	—	—	—	—	—	—
Belgium	1	—	—	—	—	—	—	—
Belize	—	—	—	7	—	—	—	—
Brazil	0	—	—	—	—	—	—	—
Canada	173	—	—	1,407	—	746	—	—
Cayman Islands	—	—	—	9	—	—	—	—
Chile	—	—	—	314	—	—	—	—
China	—	—	—	—	—	1	—	—
Colombia	—	—	—	—	—	—	—	—
Costa Rica	8	—	—	129	—	191	—	—
Denmark	—	—	—	—	—	—	—	—
Dominican Republic	0	—	—	147	—	—	—	—
Ecuador	—	—	—	35	—	—	—	—
Egypt	—	—	—	—	—	—	—	—
El Salvador	0	—	—	68	—	—	—	—
Finland	—	—	—	—	—	0	—	—
France	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—
Ghana	—	—	—	—	—	—	—	—
Gibraltar	—	—	—	300	—	358	—	—
Greece	—	—	—	—	—	—	—	—
Guatemala	4	—	—	84	—	39	—	—
Honduras	0	—	—	51	—	248	—	—
Hong Kong	—	—	—	1	—	—	—	—
India	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—
Ireland	—	—	—	—	—	—	—	—
Israel	0	—	—	102	—	—	—	—
Italy	—	—	—	—	—	—	—	—
Jamaica	0	—	—	—	—	835	—	—
Japan	1	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	0	—	—
Lebanon	—	—	—	0	—	559	—	—
Mexico	0	—	—	1,909	—	810	—	—
Montenegro	—	—	—	—	—	—	—	—
Morocco	—	—	—	—	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—
Netherlands	0	—	—	—	—	369	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—
New Zealand	—	—	—	—	—	—	—	—
Nicaragua	0	—	—	—	—	—	—	—
Nigeria	—	—	—	0	—	—	—	—
Norway	60	—	—	—	—	—	—	—
Pakistan	—	—	—	—	—	—	—	—
Panama	—	—	—	306	—	856	—	—
Peru	0	—	—	435	—	—	—	—
Philippines	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—
Puerto Rico	—	—	—	0	—	—	—	—
Romania	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—
Serbia	—	—	—	—	—	—	—	—
Singapore	0	—	—	—	—	2,126	—	—
South Africa	—	—	—	—	—	—	—	—
Spain	—	—	—	0	—	—	—	—
Switzerland	—	—	—	—	—	—	—	—
Taiwan	—	—	—	—	—	—	—	—
Thailand	—	—	—	—	—	0	—	—
Trinidad and Tobago	0	—	—	—	—	—	—	—
Turkey	—	—	—	—	—	—	—	—
United Arab Emirates	0	—	—	—	—	0	—	—
United Kingdom	0	—	—	319	—	0	—	—
Venezuela	—	—	—	—	—	—	—	—
Other	1	—	—	193	—	60	—	—
Total	248	—	—	6,008	—	7,585	—	—

See footnotes at end of table.

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

Destination	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
Argentina	0	—	0	28	—	2,379	2,379	—	79	79
Australia	0	211	0	4	0	233	233	—	8	8
Bahamas	—	—	3	3	—	1,043	1,128	3	35	38
Bahrain	—	—	—	0	—	1	1	—	0	0
Belgium	0	272	0	391	0	1,733	1,733	—	58	58
Belize	—	—	—	1	—	422	422	—	14	14
Brazil	1	759	—	180	1	9,676	11,610	64	323	387
Canada	86	436	215	231	5	15,919	32,001	536	531	1,067
Cayman Islands	—	—	2	0	—	209	209	—	7	7
Chile	1	0	0	58	—	6,379	9,826	115	213	328
China	2	710	1	20	0	1,870	2,120	8	62	71
Colombia	0	0	0	115	0	4,312	4,860	18	144	162
Costa Rica	0	—	61	14	—	2,259	2,259	—	75	75
Denmark	—	—	—	0	—	0	0	—	0	0
Dominican Republic	0	—	77	13	0	1,705	1,705	—	57	57
Ecuador	0	0	0	8	0	3,200	3,200	—	107	107
Egypt	—	710	—	1	—	1,257	1,257	—	42	42
El Salvador	—	—	—	5	—	1,267	1,267	—	42	42
Finland	—	—	—	1	—	1	1	—	0	0
France	0	347	—	23	—	2,638	3,238	20	88	108
Germany	1	0	0	2	0	10	360	12	0	12
Ghana	—	—	0	0	—	470	470	—	16	16
Gibraltar	—	—	—	—	—	1,473	1,473	—	49	49
Greece	—	309	—	0	—	309	309	—	10	10
Guatemala	0	692	0	11	—	3,098	3,098	—	103	103
Honduras	0	506	—	9	—	2,545	2,545	—	85	85
Hong Kong	0	—	—	1	—	2	2	—	0	0
India	1	3,535	1	91	0	5,099	8,616	117	170	287
Indonesia	0	—	2	1	0	628	628	—	21	21
Ireland	—	194	—	—	—	194	1,432	41	6	48
Israel	—	584	—	232	—	919	919	—	31	31
Italy	0	390	—	0	—	391	1,687	43	13	56
Jamaica	0	—	—	5	0	1,814	1,814	—	60	60
Japan	1	2,622	—	8	5	19,459	23,539	136	649	785
Korea, South	0	285	2	2	0	2,133	12,663	351	71	422
Lebanon	—	—	—	1	—	850	850	—	28	28
Mexico	23	2,046	257	945	7	42,553	43,254	23	1,418	1,442
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	—	—	0	—	716	716	—	24	24
Mozambique	—	—	—	—	—	—	—	—	—	—
Netherlands	2	399	1	75	—	7,470	15,932	282	249	531
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
New Zealand	0	106	1	1	—	108	108	—	4	4
Nicaragua	—	—	—	11	—	357	757	13	12	25
Nigeria	—	—	35	1	—	736	736	—	25	25
Norway	0	113	—	0	—	1,447	3,404	65	48	113
Pakistan	0	—	—	0	—	0	0	—	0	0
Panama	0	—	35	10	—	2,864	2,864	—	95	95
Peru	0	0	0	49	0	3,636	4,436	27	121	148
Philippines	0	—	—	1	0	69	69	—	2	2
Portugal	—	—	—	0	—	306	306	—	10	10
Puerto Rico	—	—	0	12	—	123	123	—	4	4
Romania	—	279	—	0	—	872	872	—	29	29
Saudi Arabia	0	7	—	5	—	53	53	—	2	2
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	0	—	1	9	—	3,646	9,990	211	122	333
South Africa	0	—	0	43	—	43	43	—	1	1
Spain	1	891	199	1	—	2,291	2,291	—	76	76
Switzerland	0	—	—	0	—	303	303	—	10	10
Taiwan	0	—	—	4	0	975	6,458	183	32	215
Thailand	0	—	0	2	0	4	981	33	0	33
Trinidad and Tobago	—	—	—	4	0	429	429	—	14	14
Turkey	—	1,456	0	8	—	2,637	2,637	—	88	88
United Arab Emirates	0	413	1	30	—	446	446	—	15	15
United Kingdom	0	270	0	1	0	1,978	7,662	189	66	255
Venezuela	—	61	—	7	—	6,752	6,752	—	225	225
Other	2	786	192	38	3	5,079	8,593	119	171	287
Total	121	19,389	1,086	2,716	21	181,790	260,069	2,609	6,060	8,669

— = 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-November 2018
(Thousand Barrels)

Destination	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
Argentina	305	1	—	1,685	—	2,442	2,442	0	0	0
Australia	133	2,898	—	2	—	1,216	1,216	2	0	2
Bahamas	680	1,179	—	1	—	2,714	2,714	1	0	1
Bahrain	—	—	—	0	—	6	6	—	—	—
Belgium	—	879	—	1,313	—	1	1	—	0	0
Belize	—	—	—	—	—	532	532	—	0	0
Brazil	8,199	21,803	—	5,732	—	11,807	11,807	0	634	634
Canada	124,647	98,491	—	20,794	—	10,305	10,305	—	9,934	9,934
Cayman Islands	—	161	—	0	—	499	499	0	—	0
Chile	3,867	9,660	—	1,466	—	3,231	3,231	1	384	385
China	80,310	27,701	—	2,318	—	62	62	—	—	—
Colombia	7,785	141	—	15,229	—	6,912	6,912	0	150	150
Costa Rica	—	1,382	—	27	—	5,598	5,598	0	1,598	1,599
Denmark	4,165	—	—	0	—	—	—	—	—	—
Dominican Republic	1,458	9,123	—	54	—	3,463	3,463	0	0	0
Ecuador	—	9,576	—	353	—	6,795	6,795	7	1,308	1,316
Egypt	—	4,110	—	0	—	—	—	—	—	—
El Salvador	—	2,661	—	3	—	4,286	4,286	0	0	0
Finland	—	—	—	1	—	0	0	0	—	0
France	5,732	3,553	—	553	—	3	3	—	1	1
Germany	350	3	—	31	—	2	2	—	0	0
Ghana	—	629	—	0	—	519	519	—	—	—
Gibraltar	581	1,629	—	629	—	—	—	—	159	159
Greece	1,138	0	—	—	—	0	0	—	—	—
Guatemala	—	4,946	—	19	—	11,165	11,165	0	1	1
Honduras	—	3,829	—	10	—	5,809	5,809	0	—	0
Hong Kong	2,385	588	—	2	—	3	3	—	0	0
India	42,184	24,577	—	1,462	—	0	0	1	0	1
Indonesia	—	15,858	—	19	—	1	1	—	—	—
Ireland	3,550	—	—	596	—	1	1	—	0	0
Israel	—	2	—	9	—	12	12	—	—	—
Italy	45,288	236	—	0	—	—	—	—	—	—
Jamaica	—	1,153	—	1	—	1,116	1,116	—	—	—
Japan	21,347	87,087	—	4,507	—	5	5	11	2	13
Korea, South	68,869	38,484	—	2,544	—	2,218	2,218	2	0	2
Lebanon	—	0	—	0	—	—	—	—	—	—
Mexico	1,051	47,015	—	3,782	—	174,509	174,509	116	3,811	3,927
Montenegro	—	1	—	—	—	—	—	—	—	—
Morocco	—	5,610	—	100	—	941	941	—	—	—
Mozambique	—	—	—	—	—	—	—	—	—	—
Netherlands	45,699	21,253	—	4,485	—	5,006	5,006	—	1,030	1,030
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
New Zealand	—	—	—	0	—	1	1	0	—	0
Nicaragua	2,078	0	—	312	—	1,661	1,661	—	—	—
Nigeria	—	492	—	2	—	1,140	1,140	—	331	331
Norway	13,325	7,868	—	60	—	—	—	—	—	—
Pakistan	—	—	—	0	—	—	—	—	—	—
Panama	504	180	—	129	—	7,268	7,268	0	1	1
Peru	2,014	2,362	—	284	—	6,642	6,642	—	170	170
Philippines	—	1	—	3	—	7	7	—	—	—
Portugal	625	2,912	—	—	—	—	—	—	—	—
Puerto Rico	—	54	—	6	—	33	33	—	2	2
Romania	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	1	—	14	—	1	1	—	—	—
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	18,934	13,662	—	1,426	—	1,673	1,673	—	0	0
South Africa	2,064	1,078	—	0	—	1,624	1,624	—	—	—
Spain	7,704	9,555	—	0	—	—	—	—	—	—
Switzerland	1,594	3,360	—	304	—	134	134	—	—	—
Taiwan	39,007	6,427	—	3,767	—	1	1	—	0	0
Thailand	13,132	1	—	18	—	500	500	—	0	0
Trinidad and Tobago	—	2	—	35	—	346	346	—	—	—
Turkey	—	8,279	—	0	—	—	—	0	—	0
United Arab Emirates	10,035	1	—	723	—	28	28	—	0	0
United Kingdom	52,295	14,326	—	309	—	7	7	0	0	0
Venezuela	—	1,762	—	18,042	—	7,627	7,627	17	1,619	1,636
Other	20,526	16,655	—	1,040	—	3,777	3,777	5	75	78
Total	653,560	535,197	—	94,201	—	293,649	293,649	163	21,210	21,373

See footnotes at end of table.

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

Destination	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
Argentina	0	0	1	—	—	—	8,626	1,230	1,412	—	11,269
Australia	0	0	1	0	—	—	2	—	0	—	2
Bahamas	—	3	1	0	—	—	1,847	206	2,814	—	4,867
Bahrain	—	—	0	—	—	—	—	—	—	—	—
Belgium	78	0	0	—	—	—	3,219	201	402	—	3,822
Belize	—	—	—	0	—	—	59	674	64	—	797
Brazil	240	0	11,331	—	—	—	44,708	2,709	2,204	—	49,621
Canada	—	4	7,651	1,890	—	—	4,417	3,206	2,500	—	10,123
Cayman Islands	—	—	0	—	—	—	964	38	55	—	1,057
Chile	2,271	0	3	3	—	—	36,574	1,839	261	—	38,673
China	0	3	1,259	1	—	—	13	—	8	—	22
Colombia	—	0	1,029	—	—	—	4,950	1	0	—	4,951
Costa Rica	29	0	3	1	—	—	7,250	—	—	—	7,250
Denmark	—	—	0	—	—	—	—	—	—	—	—
Dominican Republic	—	0	7	—	—	—	2,688	806	1,598	—	5,091
Ecuador	—	0	0	—	—	—	11,118	1,376	1,378	—	13,873
Egypt	0	—	2	—	—	—	1	—	—	—	1
El Salvador	—	—	—	0	—	—	2,129	1,519	130	—	3,778
Finland	—	—	0	—	—	—	—	—	—	—	—
France	15	3	32	0	—	—	14,572	95	440	—	15,107
Germany	0	0	1	12	—	—	153	—	—	—	153
Ghana	—	—	—	—	—	—	—	—	470	—	470
Gibraltar	—	—	—	—	—	—	4,504	1,642	1,215	—	7,361
Greece	—	—	—	—	—	—	—	—	—	—	—
Guatemala	—	0	0	—	—	—	7,639	3,257	446	—	11,342
Honduras	—	—	0	—	—	—	2,641	2,396	1,163	—	6,200
Hong Kong	—	0	0	—	—	—	—	—	—	—	—
India	0	0	3,505	0	—	—	548	—	—	—	548
Indonesia	—	0	0	—	—	—	87	—	—	—	87
Ireland	—	0	0	—	—	—	—	—	—	—	—
Israel	—	0	7	—	—	—	5	—	—	—	5
Italy	—	0	0	—	—	—	1,022	248	—	—	1,270
Jamaica	—	—	371	0	—	—	3,003	180	364	—	3,546
Japan	—	9,814	85	0	—	—	7	—	0	—	7
Korea, South	0	1	1,780	—	—	—	16	—	414	—	430
Lebanon	—	0	0	—	—	—	904	—	—	—	904
Mexico	8,557	5	657	56	—	—	98,806	857	279	—	99,942
Montenegro	—	—	—	—	—	—	0	—	—	—	0
Morocco	—	—	—	—	—	—	5,110	—	—	—	5,110
Mozambique	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	0	1,808	117	—	—	17,263	2,015	2,111	—	21,389
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—
New Zealand	—	0	0	—	—	—	1	—	—	—	1
Nicaragua	—	—	0	0	—	—	322	807	922	—	2,051
Nigeria	—	—	513	—	—	—	—	—	—	—	—
Norway	—	—	97	2	—	—	80	—	36	—	115
Pakistan	—	0	1	—	—	—	—	—	—	—	—
Panama	—	0	0	—	—	—	13,001	1,047	1,678	—	15,725
Peru	—	0	1,117	233	—	—	24,106	525	0	—	24,632
Philippines	—	0	1,541	—	—	—	0	—	—	—	0
Portugal	—	—	—	—	—	—	—	—	—	—	—
Puerto Rico	0	2	378	0	—	—	2	4	—	—	7
Romania	—	—	—	—	—	—	1,343	—	—	—	1,343
Saudi Arabia	—	0	411	—	—	—	1	—	0	—	1
Serbia	—	—	—	—	—	—	—	—	—	—	—
Singapore	0	5	481	3	—	—	2,759	114	4,071	—	6,945
South Africa	—	0	0	—	—	—	0	—	0	—	0
Spain	—	0	349	—	—	—	2,588	—	—	—	2,588
Switzerland	—	0	116	51	—	—	1,044	132	0	—	1,176
Taiwan	0	0	1	—	—	—	1	—	0	—	1
Thailand	—	0	0	0	—	—	1,218	—	0	—	1,218
Trinidad and Tobago	—	—	0	0	—	—	23	58	0	—	81
Turkey	—	1	0	—	—	—	2	—	—	—	2
United Arab Emirates	—	0	1,235	—	—	—	468	—	—	—	468
United Kingdom	—	0	25	—	—	—	10,369	1	62	—	10,432
Venezuela	1,617	0	0	—	—	—	10,094	171	928	—	11,193
Other	16	5	1,846	23	—	—	12,533	5,380	7,075	—	24,987
Total	12,823	9,846	37,645	2,392	—	—	364,800	32,734	34,500	—	432,034

See footnotes at end of table.

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

Destination	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks	
							Naphtha	Other Oils
Argentina	130	—	—	1,245	—	957	—	—
Australia	0	—	—	—	—	—	—	—
Bahamas	1	—	—	665	—	6,414	—	—
Bahrain	—	—	—	—	—	—	—	—
Belgium	1	—	—	—	—	0	—	—
Belize	0	—	—	276	—	—	—	—
Brazil	0	—	—	2,452	—	498	—	—
Canada	535	—	—	16,574	—	6,418	—	—
Cayman Islands	0	—	—	202	—	0	—	—
Chile	9	—	—	2,533	—	315	—	—
China	1	—	—	2	—	243	—	—
Colombia	1	—	—	61	—	1	—	—
Costa Rica	9	—	—	1,568	—	560	—	—
Denmark	—	—	—	75	—	0	—	—
Dominican Republic	0	—	—	2,102	—	391	—	—
Ecuador	—	—	—	43	—	2,559	—	—
Egypt	0	—	—	—	—	0	—	—
El Salvador	13	—	—	398	—	0	—	—
Finland	—	—	—	61	—	0	—	—
France	—	—	—	—	—	—	—	—
Germany	0	—	—	2	—	—	—	—
Ghana	—	—	—	—	—	—	—	—
Gibraltar	—	—	—	300	—	2,421	—	—
Greece	—	—	—	—	—	—	—	—
Guatemala	70	—	—	1,175	—	1,151	—	—
Honduras	1	—	—	666	—	2,646	—	—
Hong Kong	0	—	—	1	—	7	—	—
India	—	—	—	1	—	2	—	—
Indonesia	—	—	—	—	—	—	—	—
Ireland	—	—	—	—	—	—	—	—
Israel	0	—	—	1,641	—	0	—	—
Italy	—	—	—	—	—	—	—	—
Jamaica	0	—	—	1,090	—	5,110	—	—
Japan	1	—	—	0	—	0	—	—
Korea, South	0	—	—	0	—	676	—	—
Lebanon	—	—	—	1	—	5,440	—	—
Mexico	4	—	—	18,543	—	14,142	—	—
Montenegro	—	—	—	—	—	—	—	—
Morocco	—	—	—	—	—	210	—	—
Mozambique	—	—	—	—	—	—	—	—
Netherlands	101	—	—	2,654	—	11,381	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—
New Zealand	—	—	—	—	—	70	—	—
Nicaragua	100	—	—	117	—	—	—	—
Nigeria	—	—	—	594	—	—	—	—
Norway	181	—	—	60	—	—	—	—
Pakistan	—	—	—	—	—	—	—	—
Panama	0	—	—	5,625	—	8,022	—	—
Peru	72	—	—	1,919	—	161	—	—
Philippines	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—
Puerto Rico	0	—	—	4	—	1	—	—
Romania	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	601	—	—
Serbia	—	—	—	—	—	—	—	—
Singapore	0	—	—	0	—	26,773	—	—
South Africa	0	—	—	—	—	0	—	—
Spain	—	—	—	311	—	361	—	—
Switzerland	—	—	—	—	—	252	—	—
Taiwan	0	—	—	0	—	4	—	—
Thailand	—	—	—	—	—	0	—	—
Trinidad and Tobago	0	—	—	6	—	—	—	—
Turkey	—	—	—	—	—	—	—	—
United Arab Emirates	3	—	—	1	—	247	—	—
United Kingdom	0	—	—	5,110	—	2,751	—	—
Venezuela	—	—	—	87	—	1,290	—	—
Other	93	—	—	6,220	—	5,201	—	—
Total	1,326	—	—	74,385	—	107,276	—	—

See footnotes at end of table.

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

Destination	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
Argentina	3	562	228	857	0	19,377	19,682	1	58	59
Australia	4	2,615	96	180	4	7,021	7,154	0	21	21
Bahamas	—	—	22	41	0	15,907	16,588	2	48	50
Bahrain	0	—	—	12	—	19	19	—	0	0
Belgium	0	2,868	67	4,471	6	13,508	13,508	—	40	40
Belize	—	—	—	10	—	1,615	1,615	—	5	5
Brazil	11	14,690	1	3,249	8	122,077	130,276	25	365	390
Canada	1,000	7,706	2,063	3,013	64	196,565	321,213	373	589	962
Cayman Islands	—	—	13	12	—	1,943	1,943	—	6	6
Chile	5	1	313	817	1	59,685	63,552	12	179	190
China	28	18,040	22	335	11	50,049	130,360	240	150	390
Colombia	2	1	2	1,222	3	29,705	37,490	23	89	112
Costa Rica	2	545	592	206	0	19,369	19,369	—	58	58
Denmark	0	842	0	1	—	919	5,085	12	3	15
Dominican Republic	4	1,401	529	282	1	22,449	23,907	4	67	72
Ecuador	1	1,425	1	1,627	0	37,569	37,569	—	112	112
Egypt	0	4,301	201	80	—	8,695	8,695	—	26	26
El Salvador	0	387	0	218	—	11,746	11,746	—	35	35
Finland	0	267	0	8	—	338	338	—	1	1
France	2	3,207	—	478	0	22,953	28,685	17	69	86
Germany	20	29	8	434	1	695	1,045	1	2	3
Ghana	—	—	0	3	—	1,622	1,622	—	5	5
Gibraltar	—	—	—	26	—	12,526	13,107	2	38	39
Greece	0	4,385	—	25	—	4,410	5,549	3	13	17
Guatemala	2	3,163	0	207	—	33,244	33,244	—	100	100
Honduras	0	2,382	235	113	—	21,892	21,892	—	66	66
Hong Kong	2	249	0	22	2	876	3,261	7	3	10
India	19	16,131	14	1,340	3	47,602	89,786	126	143	269
Indonesia	1	0	13	154	1	16,136	16,136	—	48	48
Ireland	0	885	—	0	1	1,483	5,033	11	4	15
Israel	1	1,760	—	739	0	4,174	4,174	—	12	12
Italy	15	6,249	1	73	1	7,845	53,134	136	23	159
Jamaica	0	7	16	795	1	13,208	13,208	—	40	40
Japan	22	19,629	5	152	42	121,369	142,716	64	363	427
Korea, South	2	2,597	15	104	3	48,857	117,726	206	146	352
Lebanon	0	1,070	—	15	—	7,431	7,431	—	22	22
Mexico	217	24,047	2,163	9,338	153	407,057	408,108	3	1,219	1,222
Montenegro	—	473	—	—	—	473	473	—	1	1
Morocco	—	4,300	1	1	—	16,272	16,272	—	49	49
Mozambique	—	713	—	—	—	713	713	—	2	2
Netherlands	31	3,087	12	873	3	73,230	118,929	137	219	356
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
New Zealand	0	548	2	9	—	633	633	—	2	2
Nicaragua	0	—	—	52	—	4,295	6,373	6	13	19
Nigeria	—	1	36	908	0	4,015	4,015	—	12	12
Norway	0	1,179	0	3	—	9,566	22,891	40	29	69
Pakistan	1	0	1	37	0	40	40	—	0	0
Panama	0	—	274	208	0	37,433	37,937	2	112	114
Peru	1	182	1	769	1	38,544	40,558	6	115	121
Philippines	1	1	—	18	2	1,576	1,576	—	5	5
Portugal	0	789	—	1	—	3,702	4,327	2	11	13
Puerto Rico	1	—	3	143	0	634	634	—	2	2
Romania	0	895	—	1	—	2,239	2,239	—	7	7
Saudi Arabia	1	277	0	45	2	1,353	1,353	—	4	4
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	2	311	7	896	0	52,183	71,118	57	156	213
South Africa	1	843	1	508	—	4,055	6,119	6	12	18
Spain	4	6,048	339	14	0	19,571	27,276	23	59	82
Switzerland	0	0	0	1	—	5,394	6,987	5	16	21
Taiwan	2	0	5	51	2	10,262	49,269	117	31	148
Thailand	1	482	3	44	2	2,270	15,402	39	7	46
Trinidad and Tobago	0	1	1	79	0	550	550	—	2	2
Turkey	0	19,861	1	131	—	28,275	28,275	—	85	85
United Arab Emirates	0	662	6	510	0	3,885	13,919	30	12	42
United Kingdom	3	1,492	3	13	1	34,473	86,768	157	103	260
Venezuela	0	191	—	80	0	43,525	43,525	—	130	130
Other	12	7,766	643	797	15	69,160	89,680	62	206	267
Total	1,424	191,543	7,959	36,851	334	1,860,257	2,513,817	1,957	5,570	7,526

— = 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, November 2018
(Thousand Barrels per Day)

Country of Origin	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	2,435	-37	-	83	-	-69	-69	0	12	12
Algeria	34	-	-	127	-	-	-	-	-	-
Angola	28	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	196	-32	-	0	-	-9	-9	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	392	-	-	-	-	0	0	-	-	-
Kuwait	101	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	175	-	-	-	-	-20	-20	-	5	5
Qatar	-	-	-	0	-	-	-	-	-	-
Saudi Arabia	999	0	-	0	-	-	-	-	-	-
United Arab Emirates	-	-	-	56	-	0	0	-	0	0
Venezuela	511	-5	-	-103	-	-40	-40	0	7	7
Non-OPEC	2,446	-1,411	17	121	-	-986	-986	125	81	206
Argentina	33	-	-	-5	-	-2	-2	-	-	-
Aruba	-	-	-	-	-	-2	-2	-	-	-
Australia	-	0	-	0	-	0	0	0	-	0
Bahamas	-3	-1	-	-	-	-2	-2	0	-	0
Bahrain	-	-	-	0	-	0	0	-	-	-
Belgium	-	-19	-	68	-	-	-	-	-	-
Brazil	-7	-48	-	-18	-	-63	-63	-	10	10
Brunei	32	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	0	0	-	-	-
Canada	3,282	-57	14	-25	-	-28	-28	42	-10	31
Chad	-	-	-	-	-	-	-	-	-	-
China	-8	-38	-	0	-	0	0	-	-	-
Colombia	197	-1	-	-64	-	-32	-32	-	14	14
Denmark	33	-	-	0	-	-	-	-	-	-
Dominican Republic	-	-19	-	0	-	-15	-15	0	-	0
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	12	12
France	-20	-27	1	5	-	18	18	15	-	15
Germany	-12	0	-	0	-	0	0	-	4	4
Guatemala	9	-13	-	0	-	-38	-38	-	-	-
Honduras	-	-18	-	-	-	-19	-19	-	-	-
India	-117	-26	-	0	-	0	0	0	-	0
Indonesia	40	-18	-	0	-	-	-	-	-	-
Italy	-43	-	-	-	-	-	-	-	-	-
Japan	-136	-510	-	-27	-	0	0	0	0	0
Korea, South	-351	-56	-	-1	-	0	0	0	0	0
Latvia	-	-	-	0	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-40	-	-	0	-	-	-	-	-	-
Mexico	545	-216	1	-22	-	-637	-637	0	-9	-9
Netherlands	-282	-59	-	-21	-	-	-	33	-	33
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	46	-38	-	9	-	-	-	7	6	13
Oman	-	-	-	0	-	-	-	-	-	-
Panama	-	0	-	-	-	-16	-16	-	-	-
Portugal	-	-10	-	-	-	-	-	-	-	-
Puerto Rico	-	0	-	0	-	0	0	-	0	0
Russia	49	-	-	186	-	-	-	-	5	5
Spain	-	-37	-	3	-	1	1	-	22	22
Sweden	-	-11	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-11	-11	-	-	-
United Kingdom	-118	-19	-	13	-	0	0	30	32	62
Vietnam	-	-	-	0	-	0	0	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	0	0	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	-683	-170	1	20	-	-140	-140	-2	-5	-6
Total	4,881	-1,448	17	204	-	-1,056	-1,056	125	93	218
Persian Gulf²	1,492	0	-	56	-	0	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, November 2018
(Thousand Barrels per Day) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total
OPEC	-13	-	-4	-	-	-	-68	-	-19	-	-87
Algeria	-	-	-	-	-	-	-	-	-9	-	-9
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-64	-	-	-	-64
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-3	-	-	-	-	-	-	-	-
Qatar	-	-	0	-	-	-	11	-	-	-	11
Saudi Arabia	-	-	-1	-	-	-	0	-	-	-	0
United Arab Emirates	-	-	0	-	-	-	1	-	-	-	1
Venezuela	-13	-	0	-	-	-	-16	-	-10	-	-26
Non-OPEC	-24	-14	-109	9	11	-	-932	-128	-79	1	-1,137
Argentina	1	-	-	-	-	-	-44	-17	-6	-	-67
Aruba	-	-	-	-	-	-	-1	-	-	-	-1
Australia	0	0	0	-	-	-	0	-	-	-	0
Bahamas	-	-	-	-	-	-	16	-	-15	-	1
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	0	-	-	-	-16	-	-	-	-16
Brazil	4	4	-33	-	-	-	-105	-3	-4	-	-112
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	0	-23	3	-	-	99	-16	2	1	87
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	0	0	-	-	-	40	-	-	-	40
Colombia	-	-	-3	-	-	-	-20	-	-	-	-20
Denmark	-	-	-	-	-	-	-	-	-	-	-
Dominican Republic	-	-	0	-	-	-	-6	-10	-	-	-15
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	0	0	-	-	-	-47	-	-	-	-47
Germany	-	0	0	7	-	-	0	-	-	-	0
Guatemala	-	-	0	-	-	-	-8	-16	-	-	-24
Honduras	-	-	-	-	-	-	-5	-8	-7	-	-21
India	0	0	-22	-	-	-	0	-	-	-	0
Indonesia	-	-	-	-	-	-	-3	-	-	-	-3
Italy	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-22	-1	-	-	-	0	-	-	-	0
Korea, South	-	0	-5	-	-	-	0	-	-	-	0
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	0	-	-	-	-	0	-	-	-	0
Mexico	-22	0	-4	0	-	-	-306	-1	0	-	-307
Netherlands	-	4	-6	-1	-	-	-132	-	-	-	-132
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-3	-	-	-	-3
Oman	-	-	-	-	-	-	-	-	-	-	-
Panama	-	-	-	-	-	-	-38	-1	-	-	-39
Portugal	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	-	0	-3	-	-	-	0	-	-	-	0
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-3	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-1	-2	-	-	-3
United Kingdom	-	-	0	-	-	-	-21	-	-	-	-21
Vietnam	-	0	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-9	-	-9
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-7	0	-6	0	11	-	-331	-54	-40	0	-425
Total	-37	-14	-113	9	11	-	-999	-128	-98	1	-1,224
Persian Gulf²	-	-	-1	-	-	-	12	-	-	-	12

See footnotes at end of table.

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

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks	
							Naphtha	Other Oils
OPEC	0	-	-	1	-	17	-	-
Algeria	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-1	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	0	-	-
Nigeria	-	-	-	0	-	-	-	-
Qatar	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	2	-	-	-	-
United Arab Emirates	0	-	-	-	-	0	-	-
Venezuela	-	-	-	-	-	10	-	-
Non-OPEC	-8	0	-	-98	5	-128	10	3
Argentina	-	-	-	-5	-	1	-	-
Aruba	0	-	-	-3	-	-	-	-
Australia	-	-	-	-	-	-	-	-
Bahamas	0	-	-	-2	-	-13	-	-
Bahrain	-	-	-	-	-	-	-	-
Belgium	0	-	-	-	-	-	-	-
Brazil	0	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-
Canada	-6	0	-	-41	0	17	2	3
Chad	-	-	-	-	-	-	-	-
China	-	-	-	-	-	0	-	-
Colombia	-	-	-	-	-	10	-	-
Denmark	-	-	-	-	-	-	-	-
Dominican Republic	0	-	-	-5	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	0	-	-
France	-	-	-	-	-	-	1	-
Germany	-	-	-	-	-	-	-	-
Guatemala	0	-	-	-3	-	-1	-	-
Honduras	0	-	-	-2	-	-8	-	-
India	-	-	-	0	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Japan	0	-	-	23	2	-	-	-
Korea, South	-	-	-	50	2	0	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-
Mexico	0	-	-	-63	-	-3	6	-
Netherlands	0	-	-	-	-	-1	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-
Norway	-2	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-
Panama	-	-	-	0	-	-29	-	-
Portugal	-	-	-	-	-	-	-	-
Puerto Rico	-	-	-	0	-	-	-	-
Russia	-	-	-	-	-	11	-	-
Spain	-	-	-	0	-	-	-	-
Sweden	-	-	-	0	-	-	-	-
Trinidad and Tobago	0	-	-	-	-	4	-	-
United Kingdom	0	-	-	-11	-	0	-	0
Vietnam	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-
Other	0	0	-	-36	1	-116	1	0
Total	-8	0	-	-97	5	-111	10	3
Persian Gulf²	0	-	-	2	-	0	-	-

See footnotes at end of table.

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

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products
OPEC	0	-16	-7	0	0	-120	2,315
Algeria	—	—	—	—	—	118	153
Angola	—	—	—	—	—	—	28
Congo (Brazzaville)	—	—	—	—	—	—	—
Ecuador	0	0	0	0	0	-107	89
Equatorial Guinea	—	—	0	0	—	0	0
Gabon	—	—	—	0	—	0	0
Iran	—	—	—	—	—	—	—
Iraq	0	—	—	0	—	0	392
Kuwait	—	—	0	0	—	0	101
Libya	—	—	—	—	—	0	0
Nigeria	—	—	-1	0	—	-19	155
Qatar	—	—	-6	0	—	5	5
Saudi Arabia	0	0	—	0	—	1	999
United Arab Emirates	0	-14	0	1	—	44	44
Venezuela	—	-2	—	0	—	-173	338
Non-OPEC	2	-627	-2	-53	-1	-4,216	-1,770
Argentina	0	2	0	-1	—	-76	-43
Aruba	—	—	—	0	—	-6	-6
Australia	0	-7	0	0	0	-8	-8
Bahamas	—	—	0	0	—	-17	-20
Bahrain	—	—	—	3	—	3	3
Belgium	0	-9	0	-13	0	11	11
Brazil	0	-25	—	-6	0	-287	-294
Brunei	—	—	—	—	—	—	32
Cameroon	—	—	0	—	—	0	0
Canada	-1	-13	15	-1	0	-22	3,260
Chad	—	—	—	—	—	—	—
China	3	-24	0	-1	0	-20	-28
Colombia	0	0	0	-4	0	-100	97
Denmark	—	—	—	0	—	0	33
Dominican Republic	0	—	-3	0	0	-57	-57
Estonia	0	—	—	—	—	0	0
Finland	—	—	—	0	—	12	12
France	0	-12	—	0	—	-47	-67
Germany	0	0	0	0	0	11	-1
Guatemala	0	-23	0	0	—	-103	-94
Honduras	0	-17	—	0	—	-85	-85
India	0	-118	0	-3	0	-170	-287
Indonesia	0	—	0	0	0	-20	19
Italy	0	-13	—	2	—	-11	-54
Japan	1	-87	—	0	0	-623	-759
Korea, South	0	-9	0	11	0	-7	-358
Latvia	—	—	—	0	—	0	0
Lithuania	—	—	—	—	—	—	—
Malaysia	0	0	0	0	0	0	-39
Mexico	-1	-68	-9	-32	0	-1,386	-841
Netherlands	0	-13	0	-2	—	-200	-482
Netherlands Antilles	—	—	—	—	—	—	—
Norway	0	-4	—	0	—	-24	22
Oman	—	-2	0	0	—	-2	-2
Panama	0	—	-1	0	—	-85	-85
Portugal	—	—	—	0	—	-10	-10
Puerto Rico	—	—	0	0	—	-4	-4
Russia	0	—	—	1	—	204	254
Spain	0	-30	-4	0	—	-48	-48
Sweden	—	—	—	0	—	-11	-11
Trinidad and Tobago	—	—	—	0	0	-10	-10
United Kingdom	0	-9	0	1	0	17	-100
Vietnam	0	—	0	0	—	0	0
Virgin Islands, U.S.	—	—	0	0	—	-9	-9
Yemen	—	—	—	—	—	—	—
Other	0	-146	0	-8	-1	-1,026	-1,711
Total	2	-643	-10	-52	-1	-4,336	545
Persian Gulf²	0	-14	-6	4	—	52	1,544

— = 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-November 2018
(Thousand Barrels per Day)

Country of Origin	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	2,591	-35	-	103	-	-46	-46	0	33	33
Algeria	78	0	-	95	-	-	-	-	2	2
Angola	99	0	-	0	-	-	-	-	4	4
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	174	-29	-	-1	-	-20	-20	0	-4	-4
Equatorial Guinea	18	-	-	-	-	-	-	-	-	-
Gabon	5	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	546	-	-	3	-	0	0	-	-	-
Kuwait	84	0	-	0	-	0	0	0	-	0
Libya	49	-	-	0	-	-	-	-	-	-
Nigeria	176	-1	-	2	-	-3	-3	-	10	10
Qatar	-	-	-	-3	-	0	0	0	-	0
Saudi Arabia	873	0	-	4	-	1	1	-	4	4
United Arab Emirates	-24	0	-	48	-	0	0	-	0	0
Venezuela	506	-5	-	-49	-	-23	-23	0	18	17
Non-OPEC	3,271	-1,403	24	236	-	-787	-787	178	379	557
Argentina	20	0	-	-5	-	-7	-7	0	2	2
Aruba	-	0	-	0	-	-2	-2	0	0	0
Australia	1	-9	-	0	-	-4	-4	0	0	0
Bahamas	-2	-4	-	0	-	-8	-8	0	0	0
Bahrain	-	-	-	0	-	0	0	-	-	-
Belgium	-	-3	-	38	-	1	1	4	20	24
Brazil	111	-65	-	-7	-	-35	-35	0	16	16
Brunei	16	0	-	-	-	-	-	-	-	-
Cameroon	3	-1	-	2	-	0	0	-	-	-
Canada	3,322	-137	19	-41	-	-19	-19	94	24	118
Chad	22	0	-	-	-	-	-	-	-	-
China	-240	-83	-	-7	-	0	0	-	0	0
Colombia	277	0	-	-44	-	-20	-20	0	16	16
Denmark	-5	-	-	6	-	-	-	0	0	0
Dominican Republic	-4	-27	-	0	-	-10	-10	0	0	0
Estonia	-	-	-	0	-	0	0	-	0	0
Finland	-	-	-	2	-	0	0	1	13	13
France	-17	-11	0	4	-	5	5	11	12	23
Germany	-1	0	-	2	-	0	0	0	1	1
Guatemala	7	-15	-	0	-	-33	-33	0	0	0
Honduras	-	-11	-	0	-	-17	-17	0	-	0
India	-126	-74	-	-2	-	2	2	2	54	56
Indonesia	44	-47	-	0	-	0	0	-	-	-
Italy	-134	-1	-	11	-	2	2	0	9	9
Japan	-64	-261	-	-13	-	0	0	0	3	3
Korea, South	-206	-115	-	-7	-	-5	-5	0	7	7
Latvia	-	0	-	0	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	2	2
Malaysia	-14	0	-	1	-	0	0	0	0	0
Mexico	670	-141	1	-10	-	-522	-522	0	-5	-5
Netherlands	-137	-64	-	-2	-	-11	-11	12	23	34
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	10	-22	-	19	-	2	2	4	17	21
Oman	-	0	-	0	-	-	-	-	-	-
Panama	-2	-1	-	0	-	-22	-22	0	0	0
Portugal	-2	-9	-	-	-	3	3	4	22	27
Puerto Rico	-	0	-	0	-	0	0	-	0	0
Russia	68	0	-	245	-	1	1	1	36	37
Spain	-23	-29	-	10	-	1	1	0	39	40
Sweden	-2	-8	-	1	-	3	3	0	5	6
Trinidad and Tobago	5	1	-	1	-	-1	-1	-	-	-
United Kingdom	-99	-42	-	4	-	4	4	44	33	77
Vietnam	2	0	-	0	-	0	0	-	0	0
Virgin Islands, U.S.	-	-3	-	0	-	0	0	-	0	0
Yemen	-	-	-	-	-	-	-	-	-	-
Other	-229	-221	4	28	-	-95	-95	1	30	30
Total	5,861	-1,438	24	339	-	-833	-833	178	411	589
Persian Gulf²	1,478	0	-	52	-	1	1	0	4	4

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-November 2018
(Thousand Barrels per Day) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-5	0	-6	-	-	-	-40	-6	-10	0	-56
Algeria	-	-	-	-	-	-	-2	-2	-3	-	-6
Angola	-	-	-	-	-	-	0	-	-	-	0
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	0	0	-	-	-	-33	-4	-4	-	-42
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	0	-	-	-	-	0	-	-	-	0
Kuwait	-	-	0	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	0	-	-	-	0
Nigeria	-	-	-2	-	-	-	-	-	0	-	0
Qatar	-	-	0	-	-	-	8	-	-	-	8
Saudi Arabia	-	0	-1	-	-	-	15	-	0	-	15
United Arab Emirates	-	0	-4	-	-	-	-1	-	-	-	-1
Venezuela	-5	0	0	-	-	-5	-27	-1	-3	0	-30
Non-OPEC	-29	-25	-103	3	12	-	-901	-89	-77	3	-1,065
Argentina	0	0	0	-	-	-	-26	-4	-4	-	-34
Aruba	-	-	-	-	-	-	-1	-	-	-	-1
Australia	0	0	0	0	-	-	0	-	0	-	0
Bahamas	-	0	0	0	-	-	-4	-1	-8	-	-13
Bahrain	-	-	0	-	-	-	-	-	-	-	-
Belgium	0	0	0	-	-	-	-8	-1	-1	-	-10
Brazil	1	3	-31	-	-	-	-132	-8	-7	-	-146
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	0	-	-	-	-	-	-	-
Canada	-	0	-23	0	-	-	69	-8	7	0	68
Chad	-	-	-	-	-	-	-	-	-	-	-
China	0	0	-4	0	-	-	5	-	0	-	5
Colombia	-	0	-3	-	-	-	-9	0	0	1	-8
Denmark	-	-	0	-	-	-	-	-	-	-	-
Dominican Republic	-	0	0	-	-	-	-8	-2	-5	-	-15
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	0	-	-	-	-	-	-	-	-
France	0	0	0	1	-	-	-44	0	-1	-	-45
Germany	0	0	0	3	-	-	0	-	-	-	0
Guatemala	-	0	0	-	-	-	-23	-10	-1	-	-34
Honduras	-	-	0	-	-	-	-8	-7	-3	-	-19
India	0	0	-10	0	-	-	8	-	-	-	8
Indonesia	-	0	0	-	-	-	0	-	-	-	0
Italy	-	0	0	-	-	-	-3	-1	-	-	-4
Japan	-	-29	0	0	-	-	0	-	0	-	0
Korea, South	0	0	-5	0	-	-	1	-	-1	-	0
Latvia	-	0	-	-	-	-	0	-	-	-	0
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	0	-2	-	-	-	1	-	-3	-	-2
Mexico	-26	0	-2	0	-	-	-295	-3	0	-	-298
Netherlands	1	2	-5	0	-	-	-50	-6	-6	0	-62
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	0	0	-	-	0	-	0	-	0
Oman	-	-	-2	-	-	-	0	-	-	-	0
Panama	-	0	0	-	-	-	-39	-3	-5	-	-47
Portugal	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	0	0	-1	0	-	-	0	0	-	-	0
Russia	1	-	0	-	-	-	10	2	1	1	13
Spain	-	0	-1	-	-	-	-8	-	-	-	-8
Sweden	-	0	0	-	-	-	0	-	-	-	0
Trinidad and Tobago	-	-	0	0	-	-	0	0	0	-	0
United Kingdom	-	0	0	-	-	-	-31	0	0	-	-31
Vietnam	-	0	0	-	-	-	0	-	-	-	0
Virgin Islands, U.S.	-	-	-	-	-	-	-4	-2	-5	-	-11
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-6	-1	-14	-1	12	-	-302	-35	-35	1	-371
Total	-33	-25	-110	3	12	-	-942	-95	-87	3	-1,120
Persian Gulf²	-	0	-5	-	-	-	21	-	0	-	21

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-November 2018
(Thousand Barrels per Day) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks	
							Naphtha	Other Oils
OPEC	0	-	-	5	0	31	2	-
Algeria	-	-	-	-	-	0	1	-
Angola	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-
Ecuador	-	-	-	0	-	-6	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-
Gabon	0	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-
Iraq	0	-	-	0	-	-	-	-
Kuwait	-	-	-	0	-	-	-	-
Libya	-	-	-	-	-	0	-	-
Nigeria	-	-	-	-2	-	-	1	-
Qatar	0	-	-	0	-	0	-	-
Saudi Arabia	-	-	-	0	0	-2	-	-
United Arab Emirates	0	-	-	0	-	-1	-	-
Venezuela	-	-	-	5	-	38	-	-
Non-OPEC	-2	0	-	-98	13	-138	16	4
Argentina	0	-	-	-4	-	-1	-	0
Aruba	0	-	-	-2	-	-2	-	-
Australia	0	-	-	-	-	-	-	-
Bahamas	0	-	-	-2	-	-18	-	-
Bahrain	-	-	-	-	-	-	-	-
Belgium	0	-	-	-	0	0	-	-
Brazil	0	-	-	-7	1	1	0	-
Brunei	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-
Canada	-2	0	-	-32	3	31	2	2
Chad	-	-	-	-	-	-	-	-
China	0	-	-	11	-	-1	-	-
Colombia	0	-	-	0	-	8	-	-
Denmark	-	-	-	0	-	0	-	-
Dominican Republic	0	-	-	-6	-	-1	-	-
Estonia	-	-	-	-	-	1	-	-
Finland	-	-	-	0	-	0	-	-
France	-	-	-	-	0	0	0	1
Germany	0	-	-	0	0	-	-	-
Guatemala	0	-	-	-4	-	-3	-	-
Honduras	0	-	-	-2	-	-8	-	-
India	-	-	-	6	0	0	-	-
Indonesia	-	-	-	-	-	-	-	-
Italy	-	-	-	0	-	-	-	-
Japan	0	-	-	11	2	0	2	-
Korea, South	1	-	-	65	6	-2	0	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	0	-	0	-	-
Malaysia	-	-	-	-	-	0	-	-
Mexico	0	-	-	-55	0	-7	7	-
Netherlands	0	0	-	-8	0	-28	0	-
Netherlands Antilles	-	-	-	-	-	-	-	-
Norway	-1	-	-	0	-	-	-	-
Oman	-	-	-	-	-	-	-	-
Panama	0	-	-	-16	-	-23	-	-
Portugal	-	-	-	-	0	-	-	-
Puerto Rico	0	-	-	0	-	0	-	-
Russia	-	-	-	0	-	19	-	-
Spain	-	-	-	-1	-	0	-	-
Sweden	0	-	-	0	-	1	-	-
Trinidad and Tobago	0	-	-	0	-	19	-	-
United Kingdom	0	-	-	-15	-	-8	1	0
Vietnam	0	-	-	0	-	0	-	-
Virgin Islands, U.S.	0	-	-	-2	-	-10	-	-
Yemen	-	-	-	-	-	-	-	-
Other	0	0	-	-35	1	-106	4	1
Total	-2	0	-	-94	13	-108	18	4
Persian Gulf²	0	-	-	1	0	-2	-	-

See footnotes at end of table.

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

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products
OPEC	0	-9	2	2	0	20	2,611
Algeria	0	0	0	0	—	92	170
Angola	—	—	0	0	—	4	103
Congo (Brazzaville)	—	—	—	—	—	—	—
Ecuador	0	-4	0	-5	0	-111	63
Equatorial Guinea	—	—	0	0	—	0	18
Gabon	—	—	0	0	—	0	5
Iran	—	—	—	0	—	0	0
Iraq	0	—	—	0	—	3	549
Kuwait	0	0	0	0	0	1	84
Libya	—	—	0	0	—	1	50
Nigeria	—	0	—	-3	0	2	178
Qatar	0	-1	-1	9	—	12	12
Saudi Arabia	0	-1	0	0	0	21	894
United Arab Emirates	0	-2	0	1	0	41	17
Venezuela	0	-1	2	0	0	-50	457
Non-OPEC	1	-553	12	-70	-1	-3,396	-125
Argentina	0	2	-1	-2	0	-49	-30
Aruba	—	—	0	0	—	-8	-8
Australia	0	-8	0	-1	0	-21	-20
Bahamas	—	—	0	0	0	-45	-47
Bahrain	0	—	—	3	—	3	3
Belgium	0	-9	0	-13	0	30	30
Brazil	0	-44	0	-10	0	-323	-212
Brunei	—	0	—	0	—	0	16
Cameroon	—	—	0	0	—	2	5
Canada	-2	-21	24	-1	0	-8	3,314
Chad	—	—	—	0	—	0	22
China	2	-53	0	-1	0	-130	-370
Colombia	0	0	0	-4	0	-55	222
Denmark	0	-3	0	0	—	3	-2
Dominican Republic	0	-4	-2	-1	0	-67	-72
Estonia	0	—	—	0	—	1	1
Finland	0	-1	0	0	—	14	14
France	0	-10	—	-1	0	-31	-48
Germany	0	0	0	-1	0	5	4
Guatemala	0	-9	0	-1	—	-99	-93
Honduras	0	-7	-1	0	—	-66	-66
India	0	-48	0	-4	0	-66	-193
Indonesia	0	0	0	2	0	-46	-2
Italy	0	-19	0	1	0	-1	-135
Japan	0	-59	0	0	0	-344	-407
Korea, South	0	-8	0	12	0	-52	-258
Latvia	0	—	—	0	0	0	0
Lithuania	0	0	—	0	—	2	2
Malaysia	0	-1	0	0	0	-4	-18
Mexico	-1	-72	-6	-28	0	-1,165	-495
Netherlands	0	-9	—	-3	0	-155	-292
Netherlands Antilles	—	—	—	—	—	—	—
Norway	0	-4	0	0	—	15	26
Oman	0	1	0	0	—	-1	-1
Panama	0	—	-1	-1	0	-110	-112
Portugal	0	-2	—	0	—	19	17
Puerto Rico	0	—	0	0	0	-2	-2
Russia	0	1	0	0	—	317	385
Spain	0	-18	2	0	0	-4	-27
Sweden	0	0	0	0	0	2	0
Trinidad and Tobago	0	0	0	0	0	20	24
United Kingdom	0	-4	0	1	0	-13	-112
Vietnam	0	0	0	0	0	0	2
Virgin Islands, U.S.	—	—	0	0	—	-26	-26
Yemen	—	—	—	0	—	0	0
Other	2	-144	-3	-17	-1	-938	-1,164
Total	1	-563	14	-67	-1	-3,375	2,486
Persian Gulf²	0	-4	-1	13	0	81	1,559

— = 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, November 2018
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Crude Oil	12,290	129,413	886,439	23,725	46,307	1,098,174
Refinery	10,460	13,734	50,241	2,560	20,453	97,448
Tank Farms and Pipelines (Includes Cushing, OK)	1,830	115,679	186,631	21,165	22,599	347,904
Cushing, Oklahoma	-	38,926	-	-	-	38,926
Leases	-	-	-	-	-	-
Strategic Petroleum Reserve ¹	-	-	649,567	-	-	649,567
Alaskan In Transit	-	-	-	-	3,255	3,255
Total Stocks, All Oils (excluding Crude Oil)²	152,301	179,525	367,282	21,625	91,426	812,158
Refinery	16,779	51,335	127,108	11,025	51,249	257,496
Bulk Terminal	108,483	90,817	186,037	6,402	34,552	426,290
Pipeline	26,808	35,796	52,414	4,059	5,263	124,340
Natural Gas Processing Plant	231	1,577	1,723	139	362	4,032
Natural Gas Liquids	10,118	55,276	125,634	4,073	5,531	200,632
Refinery	648	3,565	6,934	407	1,434	12,988
Bulk Terminal	8,183	34,334	100,957	1,445	3,726	148,645
Pipeline	1,056	15,800	16,020	2,082	9	34,967
Natural Gas Processing Plant	231	1,577	1,723	139	362	4,032
Ethane	623	4,543	44,785	561	-	50,512
Refinery	-	-	194	-	-	194
Bulk Terminal	436	1,430	38,648	-	-	40,514
Pipeline	187	2,990	5,861	560	-	9,598
Natural Gas Processing Plant	-	123	82	1	-	206
Propane	7,173	24,030	39,095	1,463	2,144	73,905
Refinery	83	1,410	983	40	87	2,603
Bulk Terminal	6,212	18,016	32,246	590	2,010	59,074
Pipeline	-	-	-	-	-	-
Natural Gas Processing Plant	100	871	243	47	38	1,299
Normal Butane	1,769	15,224	25,695	1,448	2,950	47,086
Refinery	354	1,469	3,993	261	968	7,045
Bulk Terminal	1,340	12,330	18,962	845	1,711	35,188
Pipeline	36	1,232	1,732	306	-	3,306
Natural Gas Processing Plant	39	193	1,008	36	271	1,547
Isobutane	256	1,838	5,818	264	396	8,572
Refinery	211	389	1,343	97	377	2,417
Bulk Terminal	-	663	3,550	-	-	4,213
Pipeline	28	602	885	155	-	1,670
Natural Gas Processing Plant	17	184	40	12	19	272
Natural Gasoline	297	9,641	10,241	337	41	20,557
Refinery	-	297	421	9	2	729
Bulk Terminal	195	1,895	7,551	10	5	9,656
Pipeline	27	7,243	1,919	275	-	9,464
Natural Gas Processing Plant	75	206	350	43	34	708
Refinery Olefins	298	521	7,268	67	55	8,209
Refinery	298	511	2,860	67	55	3,791
Bulk Terminal	-	10	4,408	-	-	4,418
Pipeline	-	-	-	-	-	-
Natural Gas Processing Plant	-	-	-	-	-	-
Ethylene	-	-	0	-	-	0
Refinery	-	-	0	-	-	0
Bulk Terminal	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-
Natural Gas Processing Plant	-	-	-	-	-	-
Propylene	128	373	5,601	0	9	6,111
Refinery	128	363	1,193	0	9	1,693
Bulk Terminal	-	10	4,408	-	-	4,418
Pipeline	-	-	-	-	-	-
Natural Gas Processing Plant	-	-	-	-	-	-
Normal Butylene	130	103	1,667	67	46	2,013
Refinery	130	103	1,667	67	46	2,013
Bulk Terminal	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-
Natural Gas Processing Plant	-	-	-	-	-	-
Isobutylene	40	45	0	0	0	85
Refinery	40	45	0	0	0	85
Bulk Terminal	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-
Natural Gas Processing Plant	-	-	-	-	-	-
Other Hydrocarbons	-	13	-	-	-	13
Refinery	-	13	-	-	-	13
Oxygenates (excluding Fuel Ethanol)	-	4	1,176	-	-	1,180
Refinery	-	-	-	-	-	-
Bulk Terminal	-	4	1,176	-	-	1,180
Pipeline	-	-	-	-	-	-

See footnotes at end of table.

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

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
MTBE	-	-	920	-	-	920
Refinery	-	-	-	-	-	-
Bulk Terminal ³	-	-	920	-	-	920
Pipeline	-	-	-	-	-	-
Other Oxygenates⁴	-	4	256	-	-	260
Refinery	-	-	-	-	-	-
Bulk Terminal	-	4	256	-	-	260
Pipeline	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	8,409	8,798	6,815	448	4,732	29,201
Refinery	175	135	435	191	270	1,206
Bulk Terminal	8,201	8,663	6,380	252	4,462	27,957
Pipeline	33	-	-	5	-	38
Fuel Ethanol²	7,152	7,854	5,087	363	3,223	23,679
Refinery	170	99	172	109	34	584
Bulk Terminal	6,949	7,755	4,915	249	3,189	23,057
Pipeline	33	-	-	5	-	38
Renewable Diesel Fuel⁵	1,257	944	1,726	85	1,458	5,469
Refinery	5	36	263	82	236	622
Bulk Terminal	1,252	908	1,463	3	1,222	4,847
Pipeline	-	-	-	-	-	-
Other Renewable Fuels	-	-	2	-	51	53
Refinery	-	-	-	-	-	-
Bulk Terminal	-	-	2	-	51	53
Pipeline	-	-	-	-	-	-
Unfinished Oils	5,356	14,844	47,858	3,567	20,306	91,931
Naphthas and Lighter	1,444	3,608	11,231	699	3,386	20,368
Refinery	1,065	3,568	10,053	699	3,087	18,472
Bulk Terminal	379	40	1,178	-	299	1,896
Kerosene and Light Gas Oils	801	3,079	8,515	652	3,415	16,462
Refinery	801	3,079	6,504	652	3,268	14,304
Bulk Terminal	-	-	2,011	-	147	2,158
Heavy Gas Oils	2,299	5,391	22,977	1,629	10,762	43,058
Refinery	2,029	5,231	19,246	1,629	10,293	38,428
Bulk Terminal	270	160	3,731	-	469	4,630
Residuum	812	2,766	5,135	587	2,743	12,043
Refinery	812	2,297	4,971	587	2,716	11,383
Bulk Terminal	-	469	164	-	27	660
Motor Gasoline Blending Components²	57,149	42,729	73,567	5,437	26,856	205,738
Refinery	5,162	14,285	28,548	2,769	14,094	64,858
Bulk Terminal	40,995	19,523	27,673	1,703	10,162	100,056
Pipeline	10,992	8,921	17,346	965	2,600	40,824
Reformulated - RBOB	20,161	5,639	11,060	-	12,579	49,439
Refinery	1,695	1,169	1,348	-	5,127	9,339
Bulk Terminal	14,075	3,098	5,363	-	5,882	28,418
Pipeline	4,391	1,372	4,349	-	1,570	11,682
Conventional	36,988	37,090	62,507	5,437	14,277	156,299
Refinery	3,467	13,116	27,200	2,769	8,967	55,519
Bulk Terminal	26,920	16,425	22,310	1,703	4,280	71,638
Pipeline	6,601	7,549	12,997	965	1,030	29,142
CBOB	25,260	29,470	34,474	3,967	7,220	100,391
Refinery	671	6,232	11,855	1,302	2,524	22,584
Bulk Terminal	17,988	15,776	9,898	1,700	3,699	49,061
Pipeline	6,601	7,462	12,721	965	997	28,746
GTAB	1,424	-	1	-	-	1,425
Refinery	-	-	1	-	-	1
Bulk Terminal	1,424	-	-	-	-	1,424
Pipeline	-	-	-	-	-	-
Other	10,304	7,620	28,032	1,470	7,057	54,483
Refinery	2,796	6,884	15,344	1,467	6,443	32,934
Bulk Terminal	7,508	649	12,412	3	581	21,153
Pipeline	-	87	276	-	33	396
Aviation Gasoline Blending Components	-	-	34	-	-	34
Refinery	-	-	34	-	-	34
Bulk Terminal	-	-	-	-	-	-
Finished Motor Gasoline	3,714	6,293	10,769	1,502	1,989	24,267
Refinery	41	1,301	3,818	709	603	6,472
Bulk Terminal	1,412	2,605	4,319	551	1,235	10,122
Pipeline	2,261	2,387	2,632	242	151	7,673
Reformulated	29	-	-	-	18	47
Refinery	-	-	-	-	18	18
Bulk Terminal	29	-	-	-	-	29
Pipeline	-	-	-	-	-	-
Reformulated (Blended with Fuel Ethanol)	29	-	-	-	18	47
Refinery	-	-	-	-	18	18
Bulk Terminal	29	-	-	-	-	29
Pipeline	-	-	-	-	-	-

See footnotes at end of table.

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

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Reformulated (Other)	-	-	-	-	-	-
Refinery	-	-	-	-	-	-
Bulk Terminal	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-
Conventional	3,685	6,293	10,769	1,502	1,971	24,220
Refinery	41	1,301	3,818	709	585	6,454
Bulk Terminal	1,383	2,605	4,319	551	1,235	10,093
Pipeline	2,261	2,387	2,632	242	151	7,673
Conventional (Blended with Fuel Ethanol)	26	160	-	62	-	248
Refinery	-	-	-	60	-	60
Bulk Terminal	26	160	-	2	-	188
Pipeline	-	-	-	-	-	-
Ed55 and Lower	26	160	-	62	-	248
Refinery	-	-	-	60	-	60
Bulk Terminal	26	160	-	2	-	188
Pipeline	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-
Refinery	-	-	-	-	-	-
Bulk Terminal	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-
Conventional (Other)	3,659	6,133	10,769	1,440	1,971	23,972
Refinery	41	1,301	3,818	649	585	6,394
Bulk Terminal	1,357	2,445	4,319	549	1,235	9,905
Pipeline	2,261	2,387	2,632	242	151	7,673
Finished Aviation Gasoline	125	149	469	9	240	992
Refinery	-	58	398	9	155	620
Bulk Terminal	125	91	71	-	85	372
Pipeline	-	-	-	-	-	-
Kerosene-Type Jet Fuel	8,371	7,133	14,153	620	9,026	39,303
Refinery	615	1,924	6,179	275	3,898	12,891
Bulk Terminal	4,275	3,222	3,457	235	4,206	15,395
Pipeline	3,481	1,987	4,517	110	922	11,017
Kerosene	2,207	127	200	1	57	2,592
Refinery	176	104	177	1	1	459
Bulk Terminal	1,866	23	3	-	56	1,948
Pipeline	165	-	20	-	-	185
Distillate Fuel Oil²	42,570	27,931	38,962	4,032	12,861	126,356
Refinery	2,575	6,769	15,200	1,723	5,421	31,688
Bulk Terminal	31,175	14,461	11,883	1,654	5,873	65,046
Pipeline	8,820	6,701	11,879	655	1,567	29,622
15 ppm sulfur and Under	36,628	27,142	31,872	3,745	11,823	111,210
Refinery	2,123	6,258	12,233	1,482	4,726	26,822
Bulk Terminal	26,549	14,364	9,094	1,610	5,749	57,366
Pipeline	7,956	6,520	10,545	653	1,348	27,022
Greater than 15 ppm to 500 ppm sulfur	2,022	320	1,908	210	231	4,691
Refinery	166	93	929	164	216	1,568
Bulk Terminal	1,835	59	447	44	-	2,385
Pipeline	21	168	532	2	15	738
Greater than 500 ppm sulfur	3,920	469	5,182	77	807	10,455
Refinery	286	418	2,038	77	479	3,298
Bulk Terminal	2,791	38	2,342	-	124	5,295
Pipeline	843	13	802	-	204	1,862
Residual Fuel Oil⁶	6,445	1,193	16,763	246	5,146	29,793
Refinery	645	1,013	4,448	246	2,907	9,259
Bulk Terminal	5,800	180	12,315	-	2,229	20,524
Pipeline	-	-	-	-	10	10
Less than 0.31% Sulfur	849	66	996	34	244	2,189
Refinery	156	39	216	34	-	445
Bulk Terminal	693	27	780	-	244	1,744
0.31% to 1.00% Sulfur	1,321	144	2,589	14	861	4,929
Refinery	63	112	272	14	435	896
Bulk Terminal	1,258	32	2,317	-	426	4,033
Greater than 1.00% Percent Sulfur	4,275	983	13,178	198	4,031	22,665
Refinery	426	862	3,960	198	2,472	7,918
Bulk Terminal	3,849	121	9,218	-	1,559	14,747
Petrochemical Feedstocks	114	609	2,880	-	5	3,608
Refinery	114	609	2,880	-	5	3,608
Naphtha for Petrochemical Feedstock Use	114	476	1,850	-	5	2,445
Other Oils for Petrochemical Feedstock Use	-	133	1,030	-	-	1,163
Special Naphthas	37	159	960	-	44	1,200
Refinery	25	79	949	-	44	1,097
Bulk Terminal	12	80	11	-	-	103
Lubricants	1,215	973	9,831	-	1,127	13,146
Refinery	711	496	5,905	-	825	7,937
Bulk Terminal	504	477	3,926	-	302	5,209
Waxes	388	51	252	-	-	691
Refinery	388	51	252	-	-	691
Petroleum Coke	-	1,322	4,684	93	1,476	7,575
Refinery	-	1,322	4,684	93	1,476	7,575
Asphalt and Road Oil	5,753	11,292	4,640	1,513	1,888	25,086
Refinery	467	4,817	2,266	951	614	9,115
Bulk Terminal	5,286	6,475	2,374	562	1,274	15,971

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

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Miscellaneous Products	32	108	367	17	87	611
Refinery	32	108	367	17	83	607
Bulk Terminal	—	—	—	—	—	—
Pipeline	—	—	—	—	4	4
Total Stocks, All Oils	164,591	308,938	1,253,721	45,350	137,733	1,910,332

— = 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, November 2018
(Thousand Barrels)

Commodity	Motor Gasoline			Motor Gasoline Blending Components ¹			Kerosene
	Reformulated	Conventional	Total	Reformulated	Conventional	Total	
PAD District 1	29	1,424	1,453	15,770	30,387	46,157	2,042
Connecticut	—	—	—	1,176	99	1,275	55
Delaware	—	—	—	771	508	1,279	163
District of Columbia	—	—	—	—	—	—	—
Florida	—	532	532	—	5,471	5,471	—
Georgia	—	315	315	—	2,247	2,247	—
Maine	—	—	—	301	330	631	179
Maryland	—	—	—	1,300	179	1,479	103
Massachusetts	6	—	6	1,599	25	1,624	40
New Hampshire	—	—	—	—	—	—	2
New Jersey	—	40	40	6,820	9,706	16,526	449
New York	23	—	23	749	1,982	2,731	631
North Carolina	—	217	217	—	2,312	2,312	254
Pennsylvania	—	22	22	1,044	4,771	5,815	130
Rhode Island	—	—	—	534	—	534	—
South Carolina	—	126	126	—	1,420	1,420	22
Vermont	—	26	26	—	—	—	4
Virginia	—	111	111	1,476	1,194	2,670	10
West Virginia	—	35	35	—	143	143	—
PAD District 2	—	3,906	3,906	4,267	29,541	33,808	127
Illinois	—	442	442	2,329	4,206	6,535	108
Indiana	—	313	313	716	3,686	4,402	—
Iowa	—	148	148	—	1,297	1,297	—
Kansas	—	275	275	—	3,141	3,141	11
Kentucky	—	371	371	478	1,087	1,565	8
Michigan	—	163	163	52	2,646	2,698	—
Minnesota	—	386	386	28	2,658	2,686	—
Missouri	—	178	178	249	575	824	—
Nebraska	—	70	70	—	465	465	—
North Dakota	—	58	58	—	739	739	—
Ohio	—	634	634	3	3,387	3,390	—
Oklahoma	—	502	502	—	2,658	2,658	—
South Dakota	—	57	57	—	211	211	—
Tennessee	—	186	186	—	1,865	1,865	—
Wisconsin	—	123	123	412	920	1,332	—
PAD District 3	—	8,137	8,137	6,711	49,510	56,221	180
Alabama	—	166	166	—	1,226	1,226	5
Arkansas	—	164	164	13	741	754	—
Louisiana	—	1,315	1,315	212	12,760	12,972	124
Mississippi	—	2,330	2,330	5	2,310	2,315	—
New Mexico	—	95	95	—	597	597	—
Texas	—	4,067	4,067	6,481	31,876	38,357	51
PAD District 4	—	1,260	1,260	—	4,472	4,472	1
Colorado	—	132	132	—	1,369	1,369	—
Idaho	—	252	252	—	92	92	—
Montana	—	307	307	—	1,259	1,259	—
Utah	—	89	89	—	1,106	1,106	1
Wyoming	—	480	480	—	646	646	—
PAD District 5	18	1,820	1,838	11,009	13,247	24,256	57
Alaska	—	805	805	—	—	—	56
Arizona	—	76	76	757	346	1,103	—
California	18	140	158	10,011	6,414	16,425	1
Hawaii	—	1	1	—	1,224	1,224	—
Nevada	—	209	209	16	376	392	—
Oregon	—	65	65	—	1,044	1,044	—
Washington	—	524	524	225	3,843	4,068	—
U.S. Total	47	16,547	16,594	37,757	127,157	164,914	2,407

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, November 2018
(Thousand Barrels) — Continued

Commodity	Distillate Fuel Oil ¹				Residual Fuel Oil	Propane
	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	Greater than 500 ppm	Total		
PAD District 1	28,672	2,001	3,077	33,750	6,445	6,395
Connecticut	2,510	200	90	2,800	20	—
Delaware	633	39	61	733	742	11
District of Columbia	—	—	—	—	—	—
Florida	1,843	157	—	2,000	1,149	251
Georgia	1,243	—	—	1,243	376	12
Maine	794	3	407	1,204	51	—
Maryland	1,320	148	—	1,468	349	3
Massachusetts	968	423	243	1,634	38	—
New Hampshire	459	—	139	598	21	264
New Jersey	7,720	193	814	8,727	2,622	54
New York	4,471	182	334	4,987	397	2,217
North Carolina	1,351	—	5	1,356	—	462
Pennsylvania	2,647	144	629	3,420	596	2,193
Rhode Island	594	176	—	770	—	—
South Carolina	759	—	—	759	30	860
Vermont	44	—	12	56	—	—
Virginia	1,149	322	343	1,814	54	6
West Virginia	167	14	—	181	—	62
PAD District 2	20,622	152	456	21,230	1,193	20,297
Illinois	3,003	—	—	3,003	252	911
Indiana	2,033	—	168	2,201	57	308
Iowa	2,288	—	—	2,288	3	375
Kansas	1,965	—	—	1,965	27	11,563
Kentucky	826	29	—	855	237	310
Michigan	1,444	6	—	1,450	200	5,328
Minnesota	1,633	—	41	1,674	148	320
Missouri	501	24	2	527	—	208
Nebraska	886	—	—	886	—	284
North Dakota	844	1	—	845	23	43
Ohio	1,852	—	46	1,898	105	566
Oklahoma	1,436	84	82	1,602	22	46
South Dakota	383	—	—	383	—	8
Tennessee	914	—	—	914	75	2
Wisconsin	614	8	117	739	44	25
PAD District 3	21,327	1,376	4,380	27,083	16,763	33,472
Alabama	934	7	22	963	345	34
Arkansas	769	—	9	778	—	25
Louisiana	4,944	853	1,829	7,626	8,395	1,415
Mississippi	931	259	205	1,395	320	3,630
New Mexico	321	—	—	321	116	4
Texas	13,428	257	2,315	16,000	7,587	28,364
PAD District 4	3,092	208	77	3,377	246	677
Colorado	602	—	—	602	14	16
Idaho	296	—	—	296	—	—
Montana	1,167	83	—	1,250	57	21
Utah	501	76	77	654	57	596
Wyoming	526	49	—	575	118	44
PAD District 5	10,475	216	603	11,294	5,136	2,135
Alaska	961	—	63	1,024	483	4
Arizona	282	—	—	282	—	1,243
California	5,795	216	246	6,257	3,147	518
Hawaii	199	—	289	488	520	60
Nevada	383	—	5	388	—	—
Oregon	782	—	—	782	7	—
Washington	2,073	—	—	2,073	979	310
U.S. Total	84,188	3,953	8,593	96,734	29,783	62,976

— = 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, November 2018
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	363	137	0	2,668	57,716	7,690	4,498	789	30,268
Petroleum Products	16,711	349	0	17,297	34,717	7,485	4,896	109,827	17,215
Natural Gas Liquids	7,746	160	0	3,626	22,144	3,902	631	2,082	5,488
Ethane	5,652	0	—	0	11,057	637	—	0	866
Propane	1,075	117	0	2,471	6,984	1,832	150	2,012	970
Normal Butane	330	38	0	923	1,840	768	379	57	381
Isobutane	402	5	0	232	781	278	102	13	616
Natural Gasoline	287	0	—	0	1,482	387	—	0	2,655
Refinery Olefins	0	0	—	296	497	—	—	0	0
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	0	0	—	296	497	—	—	0	0
Normal Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	27	0	—	0	1,327	—	—	0	262
Motor Gasoline Blending Components	5,844	0	0	1,636	1,683	1,539	0	54,783	5,858
Reformulated - RBOB	0	0	0	0	258	—	0	8,053	2,377
Conventional	5,844	0	0	1,636	1,425	1,539	0	46,730	3,481
CBOB	5,844	0	0	1,636	1,194	1,539	0	46,730	3,245
GTAB	—	—	—	—	—	—	—	—	—
Other	0	0	0	—	231	—	0	—	236
Renewable Fuels	0	0	0	9,072	6,152	445	4,076	676	0
Fuel Ethanol	0	0	0	8,964	5,843	391	3,848	676	0
Renewable Diesel Fuel ²	0	0	0	108	309	55	228	0	0
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	80	0	0	406	403	141	0	7,713	706
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	80	0	0	406	403	141	0	7,713	706
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	80	0	0	406	403	141	0	7,713	706
Finished Aviation Gasoline	0	0	—	0	0	—	—	83	27
Kerosene-Type Jet Fuel	275	0	0	124	0	688	0	16,104	1,823
Kerosene	17	0	—	0	0	—	—	126	0
Distillate Fuel Oil	2,722	0	0	850	855	770	0	27,311	2,679
15 ppm sulfur and under	2,722	0	0	850	855	770	0	25,815	2,577
Greater than 15 ppm to 500 ppm sulfur	0	0	—	0	0	—	—	265	102
Greater than 500 ppm sulfur	—	0	—	0	0	—	—	1,231	—
Residual Fuel Oil	0	166	—	0	712	—	—	0	0
Petrochemical Feedstocks	0	0	—	0	156	—	—	36	0
Naphtha for Petrochemical Feedstock Use	0	0	—	0	133	—	—	36	0
Other Oils for Petrochemical Feedstock Use	0	0	—	—	23	—	—	—	0
Special Naphthas	0	0	—	—	0	—	—	—	10
Lubricants	0	0	—	0	0	—	—	329	103
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	0	0	447	517	0	0	0	0
Asphalt and Road Oil	0	23	0	840	271	0	189	584	259
Miscellaneous Products	—	—	—	—	—	—	—	—	—
Total	17,074	486	0	19,965	92,433	15,175	9,393	110,616	47,483

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, November 2018
(Thousand Barrels) — Continued

Commodity	From 3 to		From 4 to				From 5 to		
	4	5	1	2	3	5	1	3	4
Crude Oil	0	513	0	24,487	895	77	0	0	0
Petroleum Products	0	5,197	0	8,471	8,809	2,245	0	66	0
Natural Gas Liquids	0	154	0	7,437	8,499	190	0	0	0
Ethane	0	—	0	1,855	3,224	—	0	0	0
Propane	0	0	0	2,942	2,702	80	0	0	0
Normal Butane	0	128	0	1,251	973	80	0	0	0
Isobutane	0	26	0	542	561	30	0	0	0
Natural Gasoline	0	—	0	847	1,039	—	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	3,836	0	134	0	1,154	0	0	0
Reformulated - RBOB	—	2,322	0	0	0	0	0	0	—
Conventional	0	1,514	0	134	0	1,154	0	0	0
CBOB	0	1,459	0	134	0	1,154	0	0	0
GTAB	—	—	—	—	—	—	—	—	—
Other	—	55	—	0	0	0	—	0	—
Renewable Fuels	0	600	0	0	0	55	0	0	0
Fuel Ethanol	0	298	0	0	0	55	0	0	0
Renewable Diesel Fuel ²	0	303	0	0	0	0	0	0	0
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	312	0	236	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	312	0	236	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	312	0	236	0	0	0
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	—
Kerosene-Type Jet Fuel	0	131	0	24	0	0	0	0	0
Kerosene	—	—	0	0	0	—	0	0	—
Distillate Fuel Oil	0	377	0	301	0	246	0	0	0
15 ppm sulfur and under	0	377	0	301	0	246	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	0	0	0	—	0	0	—
Greater than 500 ppm sulfur	—	—	0	—	0	—	0	0	—
Residual Fuel Oil	—	—	0	0	0	—	0	0	—
Petrochemical Feedstocks	—	—	0	0	0	—	0	0	—
Naphtha for Petrochemical Feedstock Use	—	—	0	0	0	—	0	0	—
Other Oils for Petrochemical Feedstock Use	—	—	—	0	0	—	—	0	—
Special Naphthas	—	—	—	0	0	—	—	0	—
Lubricants	—	—	0	0	0	—	0	0	—
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	0	0	92	107	110	0	66	0
Asphalt and Road Oil	0	99	0	171	203	254	0	0	0
Miscellaneous Products	—	—	—	—	—	—	—	—	—
Total	0	5,710	0	32,958	9,704	2,322	0	66	0

— = No Data Reported.

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

² Renewable diesel fuel includes biodiesel and other renewable diesel.

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

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

Commodity	From 1 to		From 2 to			From 3 to			
	2	3	1	3	4	1	2	4	5
Crude Oil	179	62	242	55,464	7,690	155	30,268	0	-
Petroleum Products	16,361	0	3,331	23,656	7,040	86,204	15,566	0	4,289
Natural Gas Liquids	7,423	0	1,503	21,190	3,902	1,751	5,159	0	-
Ethane	5,652	0	0	11,057	637	0	866	0	-
Propane	1,016	0	1,503	6,151	1,832	1,751	782	0	-
Normal Butane	139	0	0	1,768	768	0	279	0	-
Isobutane	329	0	0	732	278	0	577	0	-
Natural Gasoline	287	0	0	1,482	387	0	2,655	0	-
Motor Gasoline Blending Components	5,844	0	909	1,452	1,539	44,332	5,572	0	3,781
Reformulated - RBOB	0	0	0	258	-	8,053	2,377	-	2,322
Conventional	5,844	0	909	1,194	1,539	36,279	3,195	0	1,459
CBOB	5,844	0	909	1,194	1,539	36,279	3,195	0	1,459
GTAB	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Renewable Fuels	-	-	-	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-	-	-	-
Renewable Diesel Fuel ¹	-	-	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	80	0	380	159	141	3,475	706	0	0
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	80	0	380	159	141	3,475	706	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	80	0	380	159	141	3,475	706	0	0
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	275	0	124	0	688	13,077	1,745	0	131
Kerosene	17	0	0	0	-	126	0	-	-
Distillate Fuel Oil	2,722	0	415	855	770	23,443	2,384	0	377
15 ppm sulfur and under	2,722	0	415	855	770	21,947	2,282	0	377
Greater than 15 ppm to 500 ppm sulfur	0	0	0	0	-	265	102	-	-
Greater than 500 ppm sulfur	-	0	0	0	-	1,231	-	-	-
Residual Fuel Oil	-	-	-	-	-	-	-	-	-
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total	16,540	62	3,573	79,120	14,730	86,359	45,834	0	4,289

See footnotes at end of table.

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

Commodity	From 4 to				From 5 to	
	1	2	3	5	3	4
Crude Oil	0	24,487	330	-	0	0
Petroleum Products	0	8,208	8,499	1,636	0	0
Natural Gas Liquids	0	7,437	8,499	-	0	0
Ethane	0	1,855	3,224	-	0	0
Propane	0	2,942	2,702	-	0	0
Normal Butane	0	1,251	973	-	0	0
Isobutane	0	542	561	-	0	0
Natural Gasoline	0	847	1,039	-	0	0
Motor Gasoline Blending Components	0	134	0	1,154	0	0
Reformulated - RBOB	0	0	0	0	0	-
Conventional	0	134	0	1,154	0	0
CBOB	0	134	0	1,154	0	0
GTAB	-	-	-	-	-	-
Other	-	-	-	-	-	-
Renewable Fuels	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-
Renewable Diesel Fuel ¹	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-
Finished Motor Gasoline	0	312	0	236	0	0
Reformulated	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-
Conventional	0	312	0	236	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-
Conventional Other	0	312	0	236	0	0
Finished Aviation Gasoline	-	-	-	-	-	-
Kerosene-Type Jet Fuel	0	24	0	0	0	0
Kerosene	0	0	0	-	0	-
Distillate Fuel Oil	0	301	0	246	0	0
15 ppm sulfur and under	0	301	0	246	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	32,695	8,829	1,636	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, November 2018
(Thousand Barrels)

Commodity	From 1 to			From 2 to		
	2	3	5	1	3	5
Crude Oil	184	75	0	373	1,948	0
Petroleum Products	27	166	0	1,344	3,606	0
Natural Gas Liquids	—	0	—	0	0	—
Ethane	—	—	—	—	—	—
Propane	—	0	—	0	0	—
Normal Butane	—	—	—	—	—	—
Isobutane	—	—	—	—	—	—
Natural Gasoline	—	—	—	—	—	—
Unfinished Oils	27	0	—	0	1,327	—
Motor Gasoline Blending Components	0	0	0	727	231	0
Reformulated - RBOB	—	—	—	—	—	—
Conventional	0	0	0	727	231	0
CBOB	0	0	—	727	0	—
GTAB	—	—	—	—	—	—
Other	0	0	0	—	231	0
Renewable Fuels	0	0	0	106	818	0
Fuel Ethanol	0	0	—	106	758	—
Renewable Diesel Fuel ¹	0	0	0	—	60	0
Other Renewable Fuels	—	—	—	—	—	—
Finished Motor Gasoline	0	0	—	26	244	—
Reformulated	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—
Conventional	0	0	—	26	244	—
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—
Conventional Other	0	0	—	26	244	—
Finished Aviation Gasoline	0	0	—	0	0	—
Kerosene-Type Jet Fuel	0	0	—	0	0	—
Kerosene	—	—	—	—	—	—
Distillate Fuel Oil	0	0	—	435	0	—
15 ppm sulfur and under	0	0	—	435	0	—
Greater than 15 ppm to 500 ppm sulfur	—	—	—	—	—	—
Greater than 500 ppm sulfur	—	—	—	—	—	—
Residual Fuel Oil	0	166	—	0	712	—
Less than 0.31 percent sulfur	—	—	—	—	—	—
0.31 to 1.00 percent sulfur	—	—	—	—	—	—
Greater than 1.00 percent sulfur	0	166	—	0	712	—
Petrochemical Feedstocks	0	0	—	0	156	—
Naphtha for Petrochemical Feedstock Use	0	0	—	0	133	—
Other Oils for Petrochemical Feedstock Use	0	0	—	—	23	—
Special Naphthas	0	0	—	—	0	—
Lubricants	0	0	—	0	0	—
Waxes	—	—	—	—	—	—
Marketable Petroleum Coke	—	—	—	—	—	—
Asphalt and Road Oil	0	0	—	50	118	—
Miscellaneous Products	—	—	—	—	—	—
Total	211	241	0	1,717	5,554	0

See footnotes at end of table.

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

Commodity	From 3 to						From 5 to		
	1	New England	Central Atlantic	Lower Atlantic	2	5	1	2	3
Crude Oil	634	—	634	—	0	329	0	0	0
Petroleum Products	23,111	437	139	22,535	1,218	318	0	0	0
Natural Gas Liquids	29	—	—	29	—	—	0	—	0
Ethane	—	—	—	—	—	—	—	—	—
Propane	29	—	—	29	—	—	0	—	0
Normal Butane	—	—	—	—	—	—	—	—	—
Isobutane	—	—	—	—	—	—	—	—	—
Natural Gasoline	—	—	—	—	—	—	—	—	—
Unfinished Oils	0	—	—	—	262	—	0	0	0
Motor Gasoline Blending Components	10,451	—	—	10,451	286	55	0	0	0
Reformulated - RBOB	—	—	—	—	—	—	—	—	—
Conventional	10,451	—	—	10,451	286	55	0	0	0
CBOB	10,451	—	—	10,451	50	—	0	0	0
GTAB	—	—	—	—	—	—	—	—	—
Other	—	—	—	—	236	55	—	0	0
Renewable Fuels	676	—	—	676	0	263	0	0	0
Fuel Ethanol	676	—	—	676	0	—	0	0	0
Renewable Diesel Fuel ¹	—	—	—	—	0	263	—	0	0
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	4,238	—	—	4,238	0	—	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	4,238	—	—	4,238	0	—	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	4,238	—	—	4,238	0	—	0	0	0
Finished Aviation Gasoline	83	10	—	73	27	—	0	0	0
Kerosene-Type Jet Fuel	3,027	—	—	3,027	78	—	0	0	0
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	3,868	427	—	3,441	295	—	0	0	0
15 ppm sulfur and under	3,868	427	—	3,441	295	—	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	—	—	—	—	—	—	—
Greater than 500 ppm sulfur	—	—	—	—	—	—	—	—	—
Residual Fuel Oil	0	—	—	—	0	—	0	0	0
Less than 0.31 percent sulfur	—	—	—	—	—	—	—	—	—
0.31 to 1.00 percent sulfur	—	—	—	—	—	—	—	—	—
Greater than 1.00 percent sulfur	0	—	—	—	0	—	0	0	0
Petrochemical Feedstocks	36	—	—	36	0	—	0	0	0
Naphtha for Petrochemical Feedstock Use	36	—	—	36	0	—	0	0	0
Other Oils for Petrochemical Feedstock Use	—	—	—	—	0	—	—	0	0
Special Naphthas	—	—	—	—	10	—	—	0	0
Lubricants	329	—	139	190	103	—	0	0	0
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	374	—	—	374	157	—	0	0	0
Miscellaneous Products	—	—	—	—	—	—	—	—	—
Total	23,745	437	773	22,535	1,218	647	0	0	0

— = No Data Reported.

¹ Renewable diesel fuel includes biodiesel and other renewable diesel.

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

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

Commodity	From 1 to				From 2 to			
	2	3	4	5	1	3	4	5
Crude Oil	0	0	0	0	2,053	304	0	4,498
Propane	59	117	0	0	968	833	0	150
Propylene	0	0	-	-	296	497	-	-
Normal Butane	191	38	0	0	923	72	0	379
Isobutane	73	5	0	0	232	49	0	102
Fuel Ethanol	0	0	0	0	8,858	5,085	391	3,848
Biodiesel	0	0	0	0	108	249	55	228
Marketable Petroleum Coke	0	0	0	0	447	517	0	0
Asphalt and Road Oil	0	23	0	0	790	153	0	189

Commodity	From 3 to				From 4 to			
	1	2	4	5	1	2	3	5
Crude Oil	0	0	0	184	0	0	565	77
Propane	232	188	0	0	0	0	0	80
Propylene	0	0	-	-	0	0	0	-
Normal Butane	57	102	0	128	0	0	0	80
Isobutane	13	39	0	26	0	0	0	30
Fuel Ethanol	0	0	0	298	0	0	0	55
Biodiesel	0	0	0	40	0	0	0	0
Marketable Petroleum Coke	0	0	0	0	0	92	107	110
Asphalt and Road Oil	210	102	0	99	0	171	203	254

Commodity	From 5 to			
	1	2	3	4
Crude Oil	0	0	0	0
Propane	0	0	0	0
Propylene	0	0	0	-
Normal Butane	0	0	0	0
Isobutane	0	0	0	0
Fuel Ethanol	0	0	0	0
Biodiesel	0	0	0	0
Marketable Petroleum Coke	0	36	66	0
Asphalt and Road Oil	0	0	0	0

- = No Data Reported.

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

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

PADD	Pipeline	Tanker and Barge	Rail	Total
From 1 to				
2	179	184	0	363
3	62	75	0	137
4	0	-	0	0
5	-	0	0	0
From 2 to				
1	242	373	2,053	2,668
3	55,464	1,948	304	57,716
4	7,690	-	0	7,690
5	-	0	4,498	4,498
From 3 to				
1	155	634	0	789
2	30,268	0	0	30,268
4	0	-	0	0
5	-	329	184	513
From 4 to				
1	0	0	0	0
2	24,487	0	0	24,487
3	330	0	565	895
5	-	0	77	77
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, November 2018
(Thousand Barrels)

Commodity	PAD District 1			PAD District 2			PAD District 3		
	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts
Crude Oil	3,457	500	2,957	55,118	72,572	-17,454	58,748	31,570	27,178
Petroleum Products	127,124	17,060	110,064	42,434	64,395	-21,961	43,941	132,239	-88,298
Natural Gas Liquids	5,708	7,906	-2,198	20,671	30,303	-9,632	30,803	7,724	23,079
Ethane	0	5,652	-5,652	8,373	11,694	-3,321	14,281	866	13,415
Propane	4,483	1,192	3,291	4,987	11,437	-6,450	9,803	2,982	6,821
Normal Butane	980	368	612	1,962	3,910	-1,948	2,851	566	2,285
Isobutane	245	407	-162	1,560	1,393	167	1,347	655	692
Natural Gasoline	0	287	-287	3,789	1,869	1,920	2,521	2,655	-134
Refinery Olefins	296	0	296	0	793	-793	497	0	497
Ethylene	0	0	-	-	-	-	0	0	-
Propylene	296	0	296	0	793	-793	497	0	497
Normal Butylene	0	0	-	0	0	-	0	0	-
Isobutylene	0	0	-	0	0	-	0	0	-
Unfinished Oils	0	27	-27	289	1,327	-1,038	1,327	262	1,065
Motor Gasoline Blending Components	56,419	5,844	50,575	11,836	4,858	6,978	1,683	64,477	-62,794
Reformulated - RBOB	8,053	0	8,053	2,377	258	2,119	258	12,752	-12,494
Conventional	48,366	5,844	42,522	9,459	4,600	4,859	1,425	51,725	-50,300
CBOB	48,366	5,844	42,522	9,223	4,369	4,854	1,194	51,434	-50,240
GTAB	0	0	-	-	-	-	0	0	-
Other	0	0	-	236	231	5	231	291	-60
Renewable Fuels	9,748	0	9,748	0	19,746	-19,746	6,152	1,276	4,876
Fuel Ethanol	9,640	0	9,640	0	19,045	-19,045	5,843	974	4,870
Renewable Diesel Fuel ²	108	0	108	0	701	-701	309	303	6
Other Renewable Fuels	-	-	-	-	-	-	0	0	-
Finished Motor Gasoline	8,119	80	8,039	1,098	950	148	403	8,419	-8,016
Reformulated	0	0	-	0	0	-	0	0	-
Reformulated Blended with Fuel Ethanol	0	0	-	0	0	-	0	0	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	8,119	80	8,039	1,098	950	148	403	8,419	-8,016
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	8,119	80	8,039	1,098	950	148	403	8,419	-8,016
Finished Aviation Gasoline	83	0	83	27	0	27	0	110	-110
Kerosene-Type Jet Fuel	16,228	275	15,953	2,122	812	1,310	0	18,058	-18,058
Kerosene	126	17	109	17	0	17	0	126	-126
Distillate Fuel Oil	28,161	2,722	25,439	5,702	2,475	3,227	855	30,367	-29,512
15 ppm sulfur and under	26,665	2,722	23,943	5,600	2,475	3,125	855	28,769	-27,914
Greater than 15 ppm to 500 ppm sulfur	265	0	265	102	0	102	0	367	-367
Greater than 500 ppm sulfur	1,231	0	1,231	0	0	-	0	1,231	-1,231
Residual Fuel Oil	0	166	-166	0	712	-712	878	0	878
Petrochemical Feedstocks	36	0	36	0	156	-156	156	36	120
Naphtha for Petrochemical Feedstock Use	36	0	36	0	133	-133	133	36	97
Other Oils for Petrochemical Feedstock Use	-	-	-	0	23	-23	23	0	23
Special Naphthas	0	0	-	10	0	10	0	10	-10
Lubricants	329	0	329	103	0	103	0	432	-432
Waxes	0	0	-	0	0	-	0	0	-
Marketable Petroleum Coke	447	0	447	128	964	-836	690	0	690
Asphalt and Road Oil	1,424	23	1,401	430	1,299	-869	497	942	-445
Miscellaneous Products	0	0	-	0	0	-	0	0	-
Total	130,582	17,560	113,022	97,552	136,967	-39,415	102,688	163,809	-61,120

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, November 2018
(Thousand Barrels) — Continued

Commodity	PAD District 4			PAD District 5		
	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts
Crude Oil	7,690	25,459	-17,769	5,087	0	5,087
Petroleum Products	7,485	19,526	-12,040	12,338	102	12,236
Natural Gas Liquids	3,902	16,126	-12,224	975	0	975
Ethane	637	5,079	-4,442	0	0	-
Propane	1,832	5,724	-3,892	230	0	230
Normal Butane	768	2,304	-1,536	587	0	587
Isobutane	278	1,133	-855	158	0	158
Natural Gasoline	387	1,886	-1,499	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	1,539	1,288	251	4,990	0	4,990
Reformulated - RBOB	-	-	-	2,322	0	2,322
Conventional	1,539	1,288	251	2,668	0	2,668
CBOB	1,539	1,288	251	2,613	0	2,613
GTAB	-	-	-	-	-	-
Other	0	0	-	55	0	55
Renewable Fuels	445	55	391	4,731	0	4,731
Fuel Ethanol	391	55	336	4,200	0	4,200
Renewable Diesel Fuel ²	55	0	55	531	0	531
Other Renewable Fuels	-	-	-	0	0	-
Finished Motor Gasoline	141	548	-407	236	0	236
Reformulated	-	-	-	0	0	-
Reformulated Blended with Fuel Ethanol	-	-	-	0	0	-
Reformulated Other	-	-	-	-	-	-
Conventional	141	548	-407	236	0	236
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	141	548	-407	236	0	236
Finished Aviation Gasoline	0	0	-	0	0	-
Kerosene-Type Jet Fuel	688	24	664	131	0	131
Kerosene	0	0	-	0	0	-
Distillate Fuel Oil	770	547	223	623	0	623
15 ppm sulfur and under	770	547	223	623	0	623
Greater than 15 ppm to 500 ppm sulfur	0	0	-	0	0	-
Greater than 500 ppm sulfur	0	0	-	0	0	-
Residual Fuel Oil	0	0	-	0	0	-
Petrochemical Feedstocks	-	-	-	0	0	-
Naphtha for Petrochemical Feedstock Use	-	-	-	0	0	-
Other Oils for Petrochemical Feedstock Use	-	-	-	-	-	-
Special Naphthas	-	-	-	0	0	-
Lubricants	0	0	-	0	0	-
Waxes	0	0	-	0	0	-
Marketable Petroleum Coke	0	309	-309	110	102	8
Asphalt and Road Oil	0	629	-629	542	0	542
Miscellaneous Products	0	0	-	0	0	-
Total	15,175	44,984	-29,809	17,425	102	17,323

- = No Data Reported.

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

² Renewable diesel fuel includes biodiesel and other renewable diesel.

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

Appendix A

District Descriptions and Maps

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

PAD District I

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

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

Sub-PAD District I

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

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

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

PAD District II

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

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

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

PAD District III

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

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

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

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

New Mexico: The State of New Mexico.

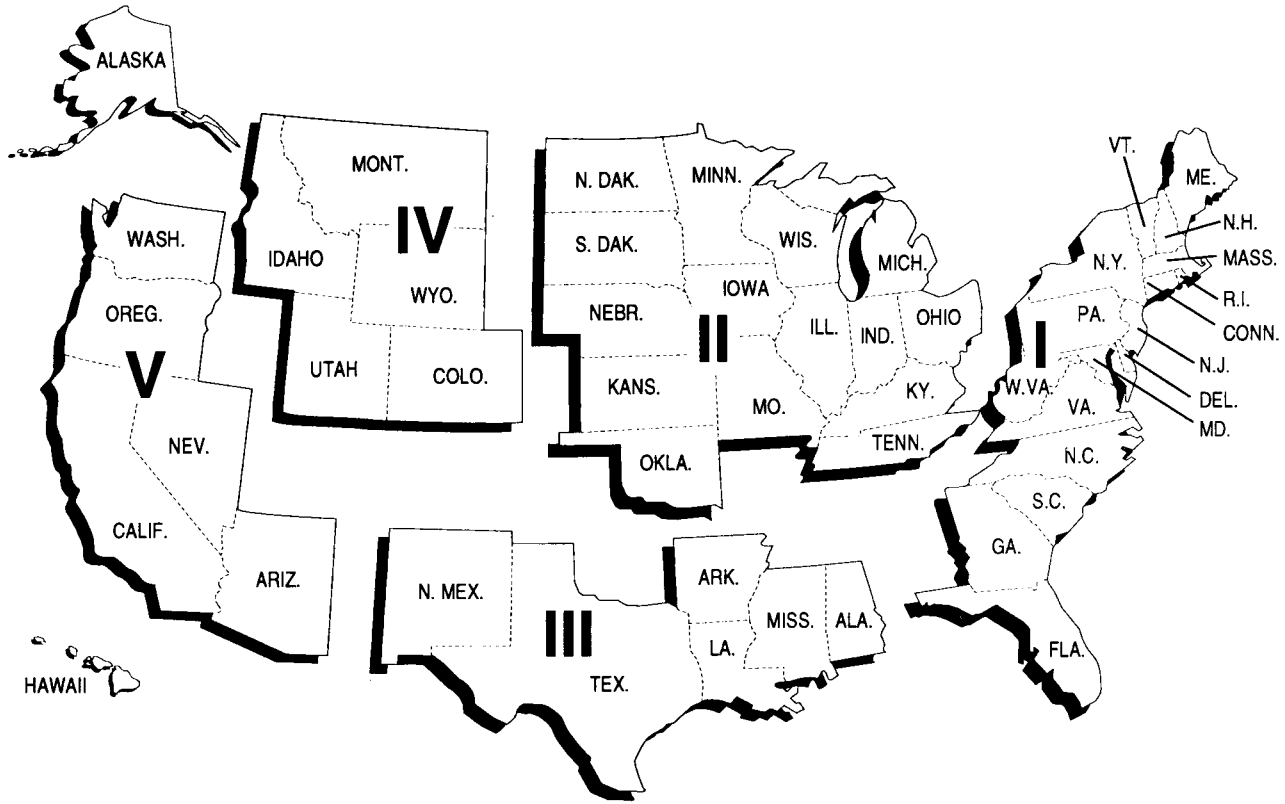
PAD District IV

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

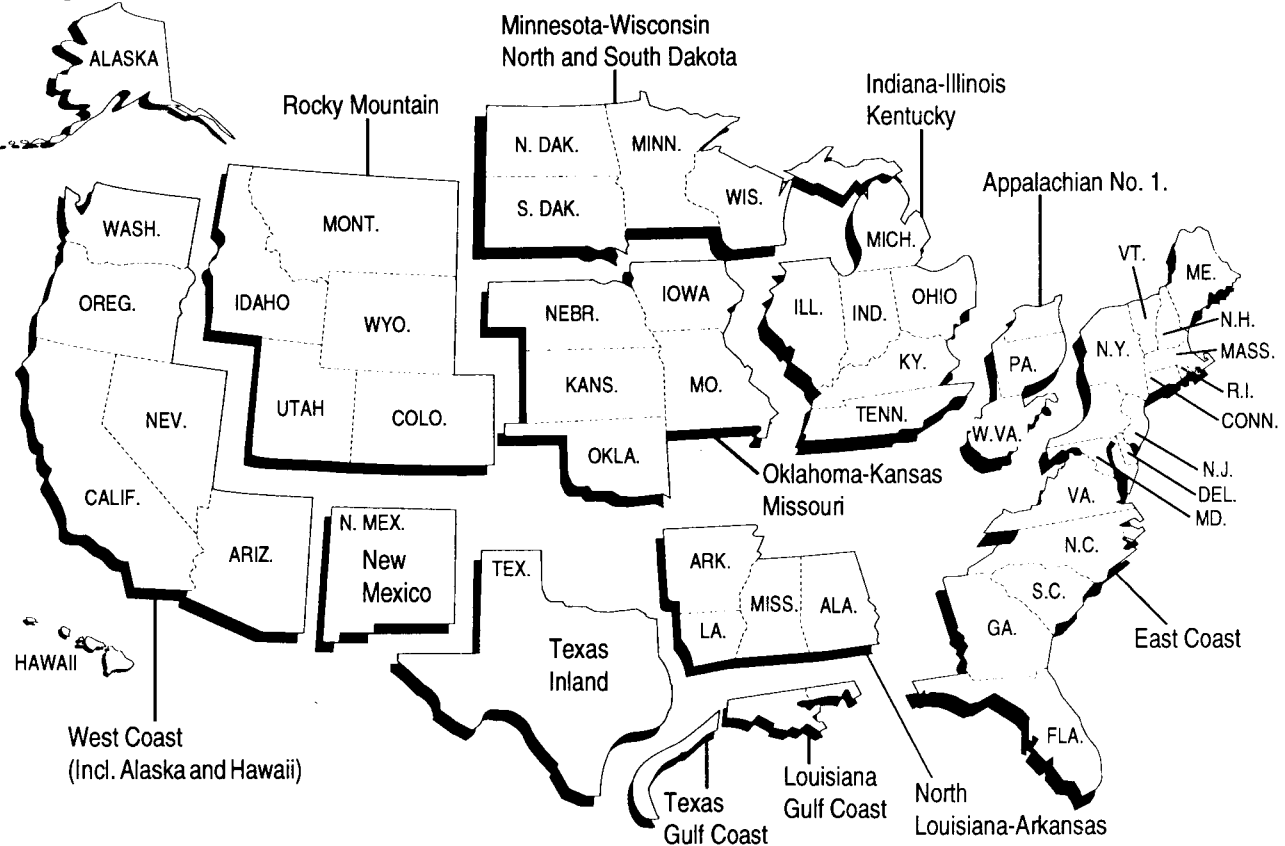
PAD District V

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

Petroleum Administration for Defense (PAD) Districts



Refining Districts



PSM Explanatory Notes

Preface

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

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

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

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

Appendix B. Explanatory Notes

1. Overview

A. The Energy Information Administration's Quality Guidelines

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

B. Concepts of Product Supply and Demand

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

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

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

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

C. Components of Supply and Disposition

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

(1.) Supply

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

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

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

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

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

same month.

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

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

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

(2.) Disposition

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

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

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

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

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

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

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

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

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

(3.) Ending Stocks

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

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

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

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

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

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

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

2. Components - Forms Discussions

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

A. Petroleum Supply Reporting System

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

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

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

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

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

B. Monthly Supply Survey Description and Methodology

(1.) Description of Surveys Forms

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

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

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

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

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

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

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

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

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

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

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

(2.) Frame

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(3.) Collection

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

(4.) Processing and Micro Editing

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

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

(5.) Estimation and Imputation

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

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

(6.) Macro Editing

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

(7.) Dissemination

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

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

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

C. Derived Data

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

(1.) Domestic Crude Oil Production

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

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

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

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

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

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

(2.) Exports

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

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

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

(3.) Movements of crude oil by railroad

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

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

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

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

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

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

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

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

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

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

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

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

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

(6.) Finished Motor Gasoline Adjustment

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

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

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

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

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

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

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

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

(7.) Motor Gasoline Blending Components Adjustment

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

(8.) Renewable Fuels including Fuel Ethanol Adjustment

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

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

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

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

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

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

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

(9.) Distillate Fuel Oil Adjustment

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

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

(10.) Crude Oil Adjustment

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

(11.) Other Hydrocarbon Adjustment

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

(12.) Hydrogen Adjustment

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

(13.) Oxygenates (excluding fuel ethanol) Adjustment

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

3. Quality

A. General Discussion

(1.) Response Rates

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

(2.) Non-sampling Errors

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

(3.) Resubmissions

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

(4.) Revision Policy

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

B. Data Assessment

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

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

4. Provisions Regarding Disclosure of Information

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

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

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

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

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

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

Appendix D

Northeast Reserves

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

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

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

Source: U. S. Energy Information Administration

Northeast Regional Refined Petroleum Product Reserve motor gasoline products

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

Source: U. S. Energy Information Administration

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

State of New York's Strategic Fuels Reserve Program

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

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

Source: New York State Energy Research & Development Authority

Definitions of Petroleum Products and Other Terms

(Revised May 2010)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

the types and grades of inputs to be processed;

the types and grades of products expected to be manufactured;

the environmental constraints associated with refinery operations;

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

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

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

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

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

feedstocks.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Flexicoking. A thermal cracking process which converts heavy

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

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

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

Examples:

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

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

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

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

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

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

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

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

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

Heavy Gas Oil. Petroleum distillates with an approximate boiling

range from 651 degrees Fahrenheit to 1000 degrees Fahrenheit.

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

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

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

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

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

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

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

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

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

Isopentane. See *Natural Gasoline and Isopentane*.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Reformulated Blendstock for Oxygenate Blending (RBOB).

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

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

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

All Other Motor Gasoline Blending Components.

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

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

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

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

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

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

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

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

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

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

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

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

Normal Butane. See *Butane*.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Refinery-Grade Butane. See *Butane*.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

to a PAD District.

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

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

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

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

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

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

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

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

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

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

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

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

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

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