



U.S. Energy Information
Administration

Petroleum Supply Monthly

with data for December 2019

February 2020



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Preface

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

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

Scope of data

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

Sections

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

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Table 1. U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, December 2019
(Thousand Barrels)

Commodity	Supply					Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³	
Crude Oil⁴	396,156	--	--	211,751	12,404	-13,992	520,572	113,731	0	1,067,904
Hydrocarbon Gas Liquids	154,093	-661	10,785	6,246	--	-19,482	22,174	60,283	107,488	217,722
Natural Gas Liquids	154,093	-661	2,299	5,691	--	-20,264	22,174	60,283	99,229	208,769
Ethane	57,157	--	146	--	--	-2,152	--	8,647	50,808	57,399
Propane	51,986	--	9,790	4,198	--	-8,567	--	38,487	36,054	79,612
Normal Butane	14,375	--	-6,660	1,204	--	-9,942	10,481	8,072	308	39,655
Isobutane	13,307	--	-977	284	--	99	6,574	126	5,815	11,205
Natural Gasoline	17,268	-661	--	5	--	298	5,119	4,951	6,244	20,898
Refinery Olefins	--	--	8,486	555	--	782	--	--	8,259	8,953
Ethylene	--	--	15	--	--	0	--	--	15	0
Propylene	--	--	8,687	459	--	324	--	--	8,822	7,660
Normal Butylene	--	--	-189	96	--	439	--	--	-532	1,273
Isobutylene	--	--	-27	--	--	19	--	--	-46	20
Other Liquids	--	38,743	--	40,980	6,665	14,413	54,262	16,566	1,147	346,527
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	38,748	--	1,830	2,323	703	36,569	5,628	0	29,231
Hydrogen	--	--	--	--	7,178	--	7,178	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	2,310	--	438	-700	-7	--	2,055	0	1,412
Renewable Fuels (including Fuel Ethanol)	--	36,438	--	1,387	-4,172	709	29,371	3,573	0	27,809
Fuel Ethanol ⁵	--	33,275	--	269	-1,511	708	27,835	3,490	0	22,349
Renewable Fuels Except Fuel Ethanol	--	3,163	--	1,118	-2,661	1	1,536	83	0	5,460
Other Hydrocarbons	--	--	--	5	16	1	20	--	0	10
Unfinished Oils	--	--	--	22,861	--	-5,294	19,025	7,942	1,188	89,401
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	-5	--	16,289	4,343	18,993	-1,362	2,996	0	227,853
Reformulated	--	-1	--	6,617	8,128	1,550	13,060	134	0	52,866
Conventional	--	-4	--	9,672	-3,785	17,443	-14,422	2,862	0	174,987
Aviation Gasoline Blend. Comp.	--	--	--	--	--	11	30	--	-41	42
Finished Petroleum Products	--	110	621,868	25,376	-663	17,442	--	108,882	520,367	291,850
Finished Motor Gasoline	--	110	309,921	1,913	-2,832	1,158	--	30,651	277,303	25,974
Reformulated	--	--	97,032	--	-8,524	-7	--	--	88,515	41
Conventional	--	110	212,889	1,913	5,692	1,165	--	30,651	188,789	25,933
Finished Aviation Gasoline	--	--	391	24	--	150	--	--	265	1,102
Kerosene-Type Jet Fuel	--	--	58,590	5,290	--	-180	--	8,799	55,261	40,453
Kerosene	--	--	750	--	--	31	--	301	418	2,855
Distillate Fuel Oil ⁵	--	--	164,583	9,132	2,169	13,675	--	41,265	120,944	139,986
15 ppm sulfur and under	--	--	153,655	9,068	2,169	14,584	--	33,196	117,112	124,698
Greater than 15 ppm to 500 ppm sulfur	--	--	4,463	39	--	343	--	3,439	720	4,442
Greater than 500 ppm sulfur	--	--	6,465	25	--	-1,252	--	4,630	3,112	10,846
Residual Fuel Oil ⁶	--	--	8,195	5,103	--	-1,639	--	6,599	8,338	30,904
Less than 0.31 percent sulfur	--	--	1,465	--	--	-430	--	NA	NA	3,801
0.31 to 1.00 percent sulfur	--	--	1,698	2,066	--	1,056	--	NA	NA	5,426
Greater than 1.00 percent sulfur	--	--	5,032	3,037	--	-2,267	--	NA	NA	21,669
Petrochemical Feedstocks	--	--	10,236	501	--	-210	--	--	10,947	3,154
Naphtha for Petro. Feed. Use	--	--	6,767	411	--	-257	--	--	7,435	2,199
Other Oils for Petro. Feed. Use	--	--	3,469	90	--	47	--	--	3,512	955
Special Naphthas	--	--	1,009	444	--	-14	--	--	1,467	1,227
Lubricants	--	--	5,382	1,476	--	1,013	--	2,932	2,913	12,686
Waxes	--	--	132	110	--	39	--	137	66	726
Petroleum Coke	--	--	28,599	166	--	-155	--	17,370	11,550	9,059
Marketable	--	--	21,585	166	--	-155	--	17,370	4,536	9,059
Catalyst	--	--	7,014	--	--	--	--	--	7,014	--
Asphalt and Road Oil	--	--	9,317	1,216	--	3,570	--	710	6,253	23,055
Still Gas	--	--	21,801	--	--	--	--	--	21,801	--
Miscellaneous Products	--	--	2,962	1	--	4	--	117	2,842	669
Total	550,249	38,192	632,653	284,353	18,406	-1,619	597,008	299,463	629,002	1,924,003

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

Table 2. U.S. Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-December 2019
(Thousand Barrels)

Commodity	Supply					Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³	
Crude Oil⁴	4,463,655	--	--	2,480,166	165,264	-23,029	6,045,302	1,086,813	0	1,067,904
Hydrocarbon Gas Liquids	1,756,753	-7,501	221,348	73,745	--	29,205	208,426	664,915	1,141,799	217,722
Natural Gas Liquids	1,756,753	-7,501	120,052	66,323	--	28,408	208,426	664,915	1,033,878	208,769
Ethane	666,254	--	1,807	--	--	7,759	--	102,407	557,895	57,399
Propane	578,534	--	105,090	47,206	--	15,954	--	397,200	317,676	79,612
Normal Butane	156,811	--	18,492	14,539	--	1,920	67,952	102,131	17,839	39,655
Isobutane	152,583	--	-5,337	4,518	--	2,715	79,274	1,845	67,930	11,205
Natural Gasoline	202,571	-7,501	--	60	--	60	61,200	61,332	72,538	20,898
Refinery Olefins	--	--	101,296	7,422	--	797	--	--	107,921	8,953
Ethylene	--	--	127	--	--	0	--	--	127	0
Propylene	--	--	103,005	5,461	--	714	--	--	107,752	7,660
Normal Butylene	--	--	-1,716	1,931	--	198	--	--	17	1,273
Isobutylene	--	--	-120	30	--	-115	--	--	25	20
Other Liquids	--	446,845	--	502,238	72,667	8,722	815,508	179,603	17,917	346,527
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	446,899	--	16,537	33,165	-2,145	436,147	62,599	0	29,231
Hydrogen	--	--	--	--	77,598	--	77,598	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	30,216	--	1,704	-7,311	-139	30	24,718	0	1,412
Renewable Fuels (including Fuel Ethanol)	--	416,683	--	14,789	-37,430	-1,995	358,156	37,881	0	27,809
Fuel Ethanol ⁵	--	375,629	--	4,644	-8,936	-989	337,155	35,171	0	22,349
Renewable Fuels Except Fuel Ethanol	--	41,054	--	10,145	-28,494	-1,006	21,001	2,710	0	5,460
Other Hydrocarbons	--	--	--	44	308	-11	363	--	0	10
Unfinished Oils	--	--	--	235,365	--	3,545	129,489	84,178	18,153	89,401
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	-54	--	250,336	39,503	7,311	249,647	32,827	0	227,853
Reformulated	--	-6	--	70,108	84,314	2,765	151,294	357	0	52,866
Conventional	--	-48	--	180,228	-44,811	4,546	98,353	32,470	0	174,987
Aviation Gasoline Blend. Comp.	--	--	--	--	--	11	225	--	-236	42
Finished Petroleum Products	--	1,471	7,240,857	264,573	-4,999	-2,439	--	1,195,602	6,308,740	291,850
Finished Motor Gasoline	--	1,471	3,682,991	29,678	-30,566	242	--	298,315	3,385,017	25,974
Reformulated	--	--	1,177,995	--	-82,221	-3	--	--	1,095,777	41
Conventional	--	1,471	2,504,996	29,678	51,655	245	--	298,315	2,289,240	25,933
Finished Aviation Gasoline	--	--	4,482	347	--	146	--	--	4,683	1,102
Kerosene-Type Jet Fuel	--	--	655,715	59,900	--	-1,133	--	81,674	635,074	40,453
Kerosene	--	--	3,703	703	--	260	--	1,622	2,524	2,855
Distillate Fuel Oil ⁵	--	--	1,874,728	71,914	25,568	-20	--	482,133	1,490,097	139,986
15 ppm sulfur and under	--	--	1,753,411	67,854	25,568	1,102	--	386,497	1,459,234	124,698
Greater than 15 ppm to 500 ppm sulfur	--	--	46,375	720	--	-669	--	43,707	4,058	4,442
Greater than 500 ppm sulfur	--	--	74,942	3,340	--	-453	--	51,929	26,806	10,846
Residual Fuel Oil ⁶	--	--	132,328	53,808	--	2,590	--	83,923	99,623	30,904
Less than 0.31 percent sulfur	--	--	19,929	3,814	--	1,656	--	NA	NA	3,801
0.31 to 1.00 percent sulfur	--	--	18,334	10,632	--	709	--	NA	NA	5,426
Greater than 1.00 percent sulfur	--	--	94,065	39,362	--	223	--	NA	NA	21,669
Petrochemical Feedstocks	--	--	109,263	6,128	--	-250	--	--	115,641	3,154
Naphtha for Petro. Feed. Use	--	--	70,258	5,117	--	-195	--	--	75,570	2,199
Other Oils for Petro. Feed. Use	--	--	39,005	1,011	--	-55	--	--	40,071	955
Special Naphthas	--	--	11,620	6,029	--	-234	--	--	17,883	1,227
Lubricants	--	--	60,918	16,521	--	-1,269	--	38,169	40,539	12,686
Waxes	--	--	1,597	1,758	--	50	--	1,486	1,819	726
Petroleum Coke	--	--	310,111	2,312	--	1,160	--	198,173	113,090	9,059
Marketable	--	--	229,550	2,312	--	1,160	--	198,173	32,529	9,059
Catalyst	--	--	80,561	--	--	--	--	--	80,561	--
Asphalt and Road Oil	--	--	117,579	15,463	--	-3,990	--	9,359	127,673	23,055
Still Gas	--	--	244,086	--	--	--	--	--	244,086	--
Miscellaneous Products	--	--	31,736	12	--	9	--	748	30,991	669
Total	6,220,408	440,815	7,462,205	3,320,722	232,933	12,459	7,069,236	3,126,933	7,468,456	1,924,003

-- = Not Applicable.

NA = No Data Reported.

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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.

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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.

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Table 3. U.S. Daily Average Supply and Disposition of Crude Oil and Petroleum Products, December 2019
(Thousand Barrels per Day)

Commodity	Supply					Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³
Crude Oil⁴	12,779	--	--	6,831	400	-451	16,793	3,669	0
Hydrocarbon Gas Liquids	4,971	-21	348	201	--	-628	715	1,945	3,467
Natural Gas Liquids	4,971	-21	74	184	--	-654	715	1,945	3,201
Ethane	1,844	--	5	--	--	-69	--	279	1,639
Propane	1,677	--	316	135	--	-276	--	1,242	1,163
Normal Butane	464	--	-215	39	--	-321	338	260	10
Isobutane	429	--	-32	9	--	3	212	4	188
Natural Gasoline	557	-21	--	0	--	10	165	160	201
Refinery Olefins	--	--	274	18	--	25	--	--	266
Ethylene	--	--	0	--	--	0	--	--	0
Propylene	--	--	280	15	--	10	--	--	285
Normal Butylene	--	--	-6	3	--	14	--	--	-17
Isobutylene	--	--	-1	--	--	1	--	--	-1
Other Liquids	--	1,250	--	1,322	215	465	1,750	534	37
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,250	--	59	75	23	1,180	182	0
Hydrogen	--	--	--	--	232	--	232	--	0
Oxygenates (excluding Fuel Ethanol)	--	75	--	14	-23	0	--	66	0
Renewable Fuels (including Fuel Ethanol)	--	1,175	--	45	-135	23	947	115	0
Fuel Ethanol ⁵	--	1,073	--	9	-49	23	898	113	0
Renewable Fuels Except Fuel Ethanol	--	102	--	36	-86	0	50	3	0
Other Hydrocarbons	--	--	--	0	1	0	1	--	0
Unfinished Oils	--	--	--	737	--	-171	614	256	38
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	0	--	525	140	613	-44	97	0
Reformulated	--	0	--	213	262	50	421	4	0
Conventional	--	0	--	312	-122	563	-465	92	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	0	1	--	-1
Finished Petroleum Products	--	4	20,060	819	-21	563	--	3,512	16,786
Finished Motor Gasoline	--	4	9,997	62	-91	37	--	989	8,945
Reformulated	--	--	3,130	--	-275	0	--	--	2,855
Conventional	--	4	6,867	62	184	38	--	989	6,090
Finished Aviation Gasoline	--	--	13	1	--	5	--	--	9
Kerosene-Type Jet Fuel	--	--	1,890	171	--	-6	--	284	1,783
Kerosene	--	--	24	--	--	1	--	10	13
Distillate Fuel Oil ⁵	--	--	5,309	295	70	441	--	1,331	3,901
15 ppm sulfur and under	--	--	4,957	293	70	470	--	1,071	3,778
Greater than 15 ppm to 500 ppm sulfur	--	--	144	1	--	11	--	111	23
Greater than 500 ppm sulfur	--	--	209	1	--	-40	--	149	100
Residual Fuel Oil ⁶	--	--	264	165	--	-53	--	213	269
Less than 0.31 percent sulfur	--	--	47	--	--	-14	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	55	67	--	34	--	NA	NA
Greater than 1.00 percent sulfur	--	--	162	98	--	-73	--	NA	NA
Petrochemical Feedstocks	--	--	330	16	--	-7	--	--	353
Naphtha for Petro. Feed. Use	--	--	218	13	--	-8	--	--	240
Other Oils for Petro. Feed. Use	--	--	112	3	--	2	--	--	113
Special Naphthas	--	--	33	14	--	0	--	--	47
Lubricants	--	--	174	48	--	33	--	95	94
Waxes	--	--	4	4	--	1	--	4	2
Petroleum Coke	--	--	923	5	--	-5	--	560	373
Marketable	--	--	696	5	--	-5	--	560	146
Catalyst	--	--	226	--	--	--	--	--	226
Asphalt and Road Oil	--	--	301	39	--	115	--	23	202
Still Gas	--	--	703	--	--	--	--	--	703
Miscellaneous Products	--	--	96	0	--	0	--	4	92
Total	17,750	1,232	20,408	9,173	594	-52	19,258	9,660	20,290

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

Table 4. U.S. Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-December 2019
(Thousand Barrels per Day)

Commodity	Supply					Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³
Crude Oil⁴	12,229	--	--	6,795	453	-63	16,562	2,978	0
Hydrocarbon Gas Liquids	4,813	-21	606	202	--	80	571	1,822	3,128
Natural Gas Liquids	4,813	-21	329	182	--	78	571	1,822	2,833
Ethane	1,825	--	--	--	--	21	--	281	1,528
Propane	1,585	--	288	129	--	44	--	1,088	870
Normal Butane	430	--	51	40	--	5	186	280	49
Isobutane	418	--	-183	12	--	7	217	5	186
Natural Gasoline	555	-21	--	0	--	0	168	168	199
Refinery Olefins	--	--	278	20	--	2	--	--	296
Ethylene	--	--	0	--	--	0	--	--	0
Propylene	--	--	282	15	--	2	--	--	295
Normal Butylene	--	--	-5	5	--	1	--	--	0
Isobutylene	--	--	269	0	--	0	--	--	0
Other Liquids	--	1,224	--	1,376	199	24	2,234	492	49
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,224	--	45	91	-6	1,195	172	0
Hydrogen	--	--	--	--	213	--	213	--	0
Oxygenates (excluding Fuel Ethanol)	--	83	--	5	-20	0	0	68	0
Renewable Fuels (including Fuel Ethanol)	--	1,142	--	41	-103	-5	981	104	0
Fuel Ethanol ⁵	--	1,029	--	13	-24	-3	924	96	0
Renewable Fuels Except Fuel Ethanol	--	112	--	28	-78	-3	58	7	0
Other Hydrocarbons	--	--	--	0	1	0	1	--	0
Unfinished Oils	--	--	--	645	--	10	355	231	50
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	0	--	686	108	20	684	90	0
Reformulated	--	0	--	192	231	8	415	1	0
Conventional	--	0	--	494	-123	12	269	89	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	0	1	--	-1
Finished Petroleum Products	--	4	19,838	725	-14	-7	--	3,276	17,284
Finished Motor Gasoline	--	4	10,090	81	-84	1	--	817	9,274
Reformulated	--	--	3,227	--	-225	0	--	--	3,002
Conventional	--	4	6,863	81	142	1	--	817	6,272
Finished Aviation Gasoline	--	--	12	1	--	0	--	--	13
Kerosene-Type Jet Fuel	--	--	1,796	164	--	-3	--	224	1,740
Kerosene	--	--	10	2	--	1	--	4	7
Distillate Fuel Oil ⁵	--	--	5,136	197	70	0	--	1,321	4,082
15 ppm sulfur and under	--	--	4,804	186	70	3	--	1,059	3,998
Greater than 15 ppm to 500 ppm sulfur	--	--	127	2	--	-2	--	120	11
Greater than 500 ppm sulfur	--	--	205	9	--	-1	--	142	73
Residual Fuel Oil ⁶	--	--	363	147	--	7	--	230	273
Less than 0.31 percent sulfur	--	--	55	10	--	5	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	50	29	--	2	--	NA	NA
Greater than 1.00 percent sulfur	--	--	258	108	--	1	--	NA	NA
Petrochemical Feedstocks	--	--	299	17	--	-1	--	--	317
Naphtha for Petro. Feed. Use	--	--	192	14	--	-1	--	--	207
Other Oils for Petro. Feed. Use	--	--	107	3	--	0	--	--	110
Special Naphthas	--	--	32	17	--	-1	--	--	49
Lubricants	--	--	167	45	--	-3	--	105	111
Waxes	--	--	4	5	--	0	--	4	5
Petroleum Coke	--	--	850	6	--	3	--	543	310
Marketable	--	--	629	6	--	3	--	543	89
Catalyst	--	--	221	--	--	--	--	--	221
Asphalt and Road Oil	--	--	322	42	--	-11	--	26	350
Still Gas	--	--	669	--	--	--	--	--	669
Miscellaneous Products	--	--	87	0	--	0	--	2	85
Total	17,042	1,208	20,444	9,098	638	34	19,368	8,567	20,462

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

Table 5. PAD District 1 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, December 2019
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	2,274	--	--	15,925	6,561	-893	-1,052	24,919	0	0	9,646
Hydrocarbon Gas Liquids	18,290	-16	499	1,820	2,259	--	-979	1,961	5,943	15,927	9,622
Natural Gas Liquids	18,290	-16	28	1,571	2,021	--	-1,039	1,961	5,943	15,029	9,314
Ethane	7,031	--	--	--	--	--	107	--	1,954	103	739
Propane	6,514	--	534	1,417	5,961	--	-1,255	--	3,096	12,585	6,558
Normal Butane	2,028	--	-461	59	1,448	--	34	1,344	836	860	1,497
Isobutane	911	--	-45	95	-240	--	-24	272	13	460	168
Natural Gasoline	1,806	-16	--	--	-281	--	99	345	44	1,021	352
Refinery Olefins	--	--	471	249	--	--	60	--	--	898	308
Ethylene	--	--	15	--	--	--	--	--	--	15	--
Propylene	--	--	497	249	--	--	5	--	--	979	151
Normal Butylene	--	--	-48	--	--	--	40	--	--	-88	142
Isobutylene	--	--	7	--	--	--	15	--	--	-8	15
Other Liquids	--	959	--	18,214	63,557	9,083	5,543	85,980	115	175	73,692
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	962	--	266	9,905	605	922	10,734	82	0	8,579
Hydrogen	--	--	--	--	--	115	--	115	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	1	--	--	1	0	--
Renewable Fuels (including Fuel Ethanol)	--	962	--	266	9,905	490	922	10,619	81	0	8,579
Fuel Ethanol	--	812	--	--	9,646	668	839	10,206	81	0	7,261
Renewable Fuels Except Fuel Ethanol	--	150	--	266	259	-178	83	413	1	0	1,318
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	3,310	-44	--	-146	3,217	20	175	4,141
Motor Gasoline Blend.Comp. (MGBC)	--	-3	--	14,638	53,696	8,478	4,767	72,029	13	0	60,972
Reformulated	--	--	--	6,617	9,717	2,862	1,181	18,015	0	0	21,155
Conventional	--	-3	--	8,021	43,979	5,616	3,586	54,014	13	0	39,817
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	113,843	14,664	51,484	-8,872	3,686	--	3,657	163,777	74,966
Finished Motor Gasoline	--	--	98,378	1,730	4,484	-9,146	-371	--	279	95,538	4,632
Reformulated	--	--	39,363	--	--	-3,063	-7	--	--	36,307	28
Conventional	--	--	59,015	1,730	4,484	-6,082	-364	--	279	59,232	4,604
Finished Aviation Gasoline	--	--	--	1	94	--	33	--	--	62	199
Kerosene-Type Jet Fuel	--	--	3,158	1,526	16,531	--	-477	--	1,011	20,681	8,845
Kerosene	--	--	71	--	260	--	-218	--	0	549	2,205
Distillate Fuel Oil ⁶	--	--	8,040	8,682	28,132	274	3,961	--	291	40,876	44,802
15 ppm sulfur and under	--	--	7,645	8,636	26,333	274	4,539	--	291	38,058	39,732
Greater than 15 ppm to 500 ppm sulfur	--	--	477	39	39	--	156	--	--	399	1,471
Greater than 500 ppm sulfur	--	--	-82	7	1,760	--	-734	--	--	2,419	3,599
Residual Fuel Oil ⁷	--	--	729	1,830	--	--	-382	--	1,488	1,453	7,671
Less than 0.31 percent sulfur	--	--	-72	--	--	--	-282	--	NA	NA	1,677
0.31 to 1.00 percent sulfur	--	--	525	1,363	--	--	806	--	NA	NA	2,087
Greater than 1.00 percent sulfur	--	--	276	467	--	--	-906	--	NA	NA	3,907
Petrochemical Feedstocks	--	--	--	1	--	--	0	--	--	1	45
Naphtha for Petro. Feed. Use	--	--	--	1	--	--	0	--	--	1	45
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	0	--	--	--	-11	--	--	11	33
Lubricants	--	--	409	155	400	--	35	--	231	698	1,442
Waxes	--	--	6	74	--	--	24	--	66	-10	409
Petroleum Coke	--	--	948	2	558	--	--	--	220	1,288	--
Marketable	--	--	409	2	558	--	--	--	220	749	--
Catalyst	--	--	539	--	--	--	--	--	--	539	--
Asphalt and Road Oil	--	--	972	663	989	--	1,090	--	58	1,476	4,650
Still Gas	--	--	1,044	--	--	--	--	--	--	1,044	--
Miscellaneous Products	--	--	88	--	36	--	2	--	12	110	33
Total	20,564	943	114,342	50,623	123,860	-681	7,198	112,860	9,715	179,878	167,926

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

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

Table 6. PAD District 1 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-December 2019
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	24,837	--	--	234,980	69,477	-862	-2,009	326,881	3,560	0	9,646
Hydrocarbon Gas Liquids	201,308	-173	11,607	17,311	-15,040	--	585	17,025	73,725	123,678	9,622
Natural Gas Liquids	201,308	-173	6,798	14,315	-18,126	--	565	17,025	73,725	112,807	9,314
Ethane	78,390	--	--	--	--	--	-104	--	14,981	1,726	739
Propane	70,713	--	6,210	11,874	42,468	--	571	--	43,516	87,178	6,558
Normal Butane	22,429	--	771	705	7,040	--	77	10,887	13,635	6,346	1,497
Isobutane	9,700	--	-183	1,736	-2,715	--	-26	3,982	27	4,555	168
Natural Gasoline	20,076	-173	--	--	-3,132	--	47	2,156	1,566	13,002	352
Refinery Olefins	--	--	4,809	2,996	--	--	20	--	--	10,871	308
Ethylene	--	--	127	--	--	--	--	--	--	127	--
Propylene	--	--	4,930	2,996	--	--	30	--	--	10,982	151
Normal Butylene	--	--	-517	--	--	--	35	--	--	-552	142
Isobutylene	--	--	269	--	--	--	-45	--	--	314	15
Other Liquids	--	11,025	--	234,000	732,155	66,977	1,357	1,038,958	2,305	1,537	73,692
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	11,061	--	1,963	116,797	714	463	128,459	1,612	0	8,579
Hydrogen	--	--	--	--	--	1,184	--	1,184	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	8	--	--	8	0	--
Renewable Fuels (including Fuel Ethanol)	--	11,061	--	1,963	116,797	-479	463	127,275	1,604	0	8,579
Fuel Ethanol	--	8,962	--	--	114,080	2,494	680	123,422	1,434	0	7,261
Renewable Fuels Except Fuel Ethanol	--	2,099	--	1,963	2,717	-2,972	-217	3,853	170	0	1,318
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	22,559	74	--	-1,064	21,840	320	1,537	4,141
Motor Gasoline Blend.Comp. (MGBC)	--	-36	--	209,478	615,284	66,264	1,958	888,659	373	0	60,972
Reformulated	--	--	--	66,958	99,914	31,794	2,323	196,328	15	0	21,155
Conventional	--	-36	--	142,520	515,370	34,470	-365	692,331	358	0	39,817
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	1,388,091	144,448	564,444	-65,839	1,892	--	50,491	1,978,761	74,966
Finished Motor Gasoline	--	--	1,194,306	23,089	55,744	-68,757	752	--	5,575	1,198,055	4,632
Reformulated	--	--	473,587	--	--	-30,838	-2	--	--	442,751	28
Conventional	--	--	720,719	23,089	55,744	-37,919	754	--	5,575	755,304	4,604
Finished Aviation Gasoline	--	--	--	125	954	--	69	--	--	1,010	199
Kerosene-Type Jet Fuel	--	--	35,712	19,506	182,086	--	969	--	7,556	228,779	8,845
Kerosene	--	--	852	703	1,725	--	153	--	783	2,344	2,205
Distillate Fuel Oil ⁶	--	--	101,652	61,065	297,254	2,918	-70	--	12,295	450,664	44,802
15 ppm sulfur and under	--	--	96,645	59,082	281,668	2,918	2,054	--	8,042	430,218	39,732
Greater than 15 ppm to 500 ppm sulfur	--	--	2,165	713	374	--	-1,131	--	2,984	1,399	1,471
Greater than 500 ppm sulfur	--	--	2,842	1,270	15,212	--	-993	--	1,270	19,047	3,599
Residual Fuel Oil ⁷	--	--	12,195	26,015	-468	--	1,638	--	12,670	23,434	7,671
Less than 0.31 percent sulfur	--	--	1,858	996	--	--	776	--	NA	NA	1,677
0.31 to 1.00 percent sulfur	--	--	5,506	5,650	--	--	658	--	NA	NA	2,087
Greater than 1.00 percent sulfur	--	--	4,831	19,369	-468	--	204	--	NA	NA	3,907
Petrochemical Feedstocks	--	--	390	27	573	--	-35	--	--	1,025	45
Naphtha for Petro. Feed. Use	--	--	390	13	--	--	-35	--	--	438	45
Other Oils for Petro. Feed. Use	--	--	--	14	573	--	--	--	--	587	--
Special Naphthas	--	--	228	8	--	--	-10	--	--	246	33
Lubricants	--	--	4,663	2,802	5,319	--	141	--	2,560	10,083	1,442
Waxes	--	--	115	788	--	--	33	--	717	153	409
Petroleum Coke	--	--	9,852	28	7,265	--	--	--	7,206	9,939	--
Marketable	--	--	3,432	28	7,265	--	--	--	7,206	3,519	--
Catalyst	--	--	6,420	--	--	--	--	--	--	6,420	--
Asphalt and Road Oil	--	--	12,870	10,292	14,153	--	-1,747	--	962	38,100	4,650
Still Gas	--	--	14,328	--	--	--	--	--	--	14,328	--
Miscellaneous Products	--	--	928	--	-161	--	-1	--	166	602	33
Total	226,145	10,852	1,399,698	630,739	1,351,035	276	1,825	1,382,864	130,081	2,103,976	167,926

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

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

Table 7. PAD District 1 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, December 2019
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	73	--	--	514	212	-29	-34	804	0	0
Hydrocarbon Gas Liquids	590	-1	16	59	73	--	-32	63	192	514
Natural Gas Liquids	590	-1	1	51	65	--	-34	63	192	485
Ethane	227	--	--	--	--	--	3	--	63	3
Propane	210	--	17	46	192	--	-40	--	--	406
Normal Butane	65	--	-15	2	47	--	1	43	27	28
Isobutane	29	--	-1	3	-8	--	-1	9	0	15
Natural Gasoline	58	-1	--	--	-9	--	3	11	1	33
Refinery Olefins	--	--	15	8	--	--	2	--	--	29
Ethylene	--	--	0	--	--	--	--	--	--	0
Propylene	--	--	16	8	8	--	0	--	--	32
Normal Butylene	--	--	-2	--	--	--	1	--	--	-3
Isobutylene	--	--	0	--	--	--	0	--	--	0
Other Liquids	--	31	--	588	2,050	293	179	2,774	4	6
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	31	--	9	320	20	30	346	3	0
Hydrogen	--	--	--	--	--	4	--	4	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	31	--	9	320	16	30	343	3	0
Fuel Ethanol ⁶	--	26	--	--	311	22	27	329	3	0
Renewable Fuels Except Fuel Ethanol	--	5	--	9	8	-6	3	13	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	107	-1	--	-5	104	1	6
Motor Gasoline Blend.Comp. (MGBC) ⁶	--	0	--	472	1,732	273	154	2,324	0	0
Reformulated	--	--	--	213	313	92	38	581	0	0
Conventional	--	0	--	259	1,419	181	116	1,742	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,672	473	1,661	-286	119	--	118	5,283
Finished Motor Gasoline	--	--	3,173	56	145	-295	-12	--	9	3,082
Reformulated	--	--	1,270	--	--	-99	0	--	--	1,171
Conventional	--	--	1,904	56	145	-196	-12	--	9	1,911
Finished Aviation Gasoline	--	--	--	0	3	--	1	--	--	2
Kerosene-Type Jet Fuel	--	--	102	49	533	--	-15	--	33	667
Kerosene	--	--	2	--	8	--	-7	--	0	18
Distillate Fuel Oil ⁶	--	--	259	280	907	9	128	--	9	1,319
15 ppm sulfur and under	--	--	247	279	849	9	146	--	9	1,228
Greater than 15 ppm to 500 ppm sulfur	--	--	15	1	1	--	5	--	--	13
Greater than 500 ppm sulfur	--	--	-3	0	57	--	-24	--	--	78
Residual Fuel Oil ⁷	--	--	24	59	--	--	-12	--	48	47
Less than 0.31 percent sulfur	--	--	-2	--	--	--	-9	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	17	44	--	--	26	--	NA	NA
Greater than 1.00 percent sulfur	--	--	9	15	--	--	-29	--	NA	NA
Petrochemical Feedstocks	--	--	--	0	--	--	0	--	--	0
Naphtha for Petro. Feed. Use	--	--	--	0	--	--	0	--	--	0
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	0	--	--	--	0	--	--	0
Lubricants	--	--	13	5	13	--	1	--	7	23
Waxes	--	--	0	2	--	--	1	--	2	0
Petroleum Coke	--	--	31	0	18	--	--	--	7	42
Marketable	--	--	13	0	18	--	--	--	7	24
Catalyst	--	--	17	--	--	--	--	--	--	17
Asphalt and Road Oil	--	--	31	21	32	--	35	--	2	48
Still Gas	--	--	34	--	--	--	--	--	--	34
Miscellaneous Products	--	--	3	--	1	--	0	--	0	4
Total	663	30	3,688	1,633	3,995	-22	232	3,641	313	5,803

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

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

Table 8. PAD District 1 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-December 2019
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	68	--	--	644	190	-2	-6	896	10	0
Hydrocarbon Gas Liquids	552	0	32	47	-41	--	2	47	202	339
Natural Gas Liquids	552	0	19	39	-50	--	2	47	202	309
Ethane	215	--	--	--	--	--	0	--	41	5
Propane	194	--	17	33	116	--	2	--	--	239
Normal Butane	61	--	2	2	19	--	0	30	37	17
Isobutane	27	--	-1	5	-7	--	0	11	0	12
Natural Gasoline	55	0	--	--	-9	--	0	6	4	36
Refinery Olefins	--	--	13	8	--	--	0	--	--	30
Ethylene	--	--	0	--	--	--	--	--	--	0
Propylene	--	--	14	8	8	--	0	--	--	30
Normal Butylene	--	--	-1	--	--	--	0	--	--	-2
Isobutylene	--	--	1	--	--	--	0	--	--	1
Other Liquids	--	30	--	641	2,006	183	4	2,846	6	4
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	30	--	5	320	2	1	352	4	0
Hydrogen	--	--	--	--	--	3	--	3	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	30	--	5	320	-1	1	349	4	0
Fuel Ethanol ⁶	--	25	--	--	313	7	2	338	4	0
Renewable Fuels Except Fuel Ethanol	--	6	--	5	7	-8	-1	11	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	62	0	--	-3	60	1	4
Motor Gasoline Blend.Comp. (MGBC) ⁶	--	0	--	574	1,686	182	5	2,435	1	0
Reformulated	--	--	--	183	274	87	6	538	0	0
Conventional	--	0	--	390	1,412	94	-1	1,897	1	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,803	396	1,546	-180	5	--	138	5,421
Finished Motor Gasoline	--	--	3,272	63	153	-188	2	--	15	3,282
Reformulated	--	--	1,297	--	--	-84	0	--	--	1,213
Conventional	--	--	1,975	63	153	-104	2	--	15	2,069
Finished Aviation Gasoline	--	--	--	0	3	--	0	--	--	3
Kerosene-Type Jet Fuel	--	--	98	53	499	--	3	--	21	627
Kerosene	--	--	2	2	5	--	0	--	2	6
Distillate Fuel Oil ⁶	--	--	278	167	814	8	0	--	34	1,235
15 ppm sulfur and under	--	--	265	162	772	8	6	--	22	1,179
Greater than 15 ppm to 500 ppm sulfur	--	--	6	2	1	--	-3	--	8	4
Greater than 500 ppm sulfur	--	--	8	3	42	--	-3	--	3	52
Residual Fuel Oil ⁷	--	--	33	71	-1	--	4	--	35	64
Less than 0.31 percent sulfur	--	--	5	3	--	--	2	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	15	15	--	--	2	--	NA	NA
Greater than 1.00 percent sulfur	--	--	13	53	-1	--	1	--	NA	NA
Petrochemical Feedstocks	--	--	1	0	2	--	0	--	--	3
Naphtha for Petro. Feed. Use	--	--	1	0	--	--	0	--	--	1
Other Oils for Petro. Feed. Use	--	--	--	0	2	--	--	--	--	2
Special Naphthas	--	--	1	0	--	--	0	--	--	1
Lubricants	--	--	13	8	15	--	0	--	7	28
Waxes	--	--	0	2	--	--	0	--	2	0
Petroleum Coke	--	--	27	0	20	--	--	--	20	27
Marketable	--	--	9	0	20	--	--	--	20	10
Catalyst	--	--	18	--	--	--	--	--	--	18
Asphalt and Road Oil	--	--	35	28	39	--	-5	--	3	104
Still Gas	--	--	39	--	--	--	--	--	--	39
Miscellaneous Products	--	--	3	--	0	--	0	--	0	2
Total	620	30	3,835	1,728	3,701	1	5	3,789	356	5,764

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

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

Table 9. PAD District 2 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, December 2019
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	69,523	--	--	96,894	-32,232	-10,151	-3,366	121,730	5,670	0	126,589
Hydrocarbon Gas Liquids	32,317	-610	921	2,253	-8,868	--	-5,913	3,718	7,885	20,323	47,296
Natural Gas Liquids	32,317	-610	-311	1,975	-8,289	--	-5,755	3,718	7,885	19,234	46,981
Ethane	10,323	--	--	--	--	--	-175	--	2,875	4,064	5,415
Propane	12,077	--	2,434	1,384	-7,380	--	-2,326	--	200	10,641	20,016
Normal Butane	4,345	--	-2,505	506	-2,941	--	-3,425	1,574	32	1,224	9,145
Isobutane	1,816	--	-240	80	89	--	-112	1,607	1	249	1,897
Natural Gasoline	3,756	-610	--	5	5,502	--	283	537	4,778	3,055	10,508
Refinery Olefins	--	--	1,232	278	--	--	-158	--	--	1,089	315
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	1,226	210	--	--	-151	--	--	1,008	295
Normal Butylene	--	--	6	68	--	--	-7	--	--	81	20
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	32,989	--	544	-15,012	-2,274	5,439	9,913	2,010	-1,115	69,915
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	32,991	--	64	-21,308	-1,609	412	9,129	597	0	8,815
Hydrogen	--	--	--	--	--	1,296	--	1,296	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	1	0	--	1	0	2
Renewable Fuels (including Fuel Ethanol)	--	32,991	--	64	-21,308	-2,927	411	7,813	596	0	8,803
Fuel Ethanol	--	30,855	--	--	-20,375	-2,007	392	7,518	563	0	7,864
Renewable Fuels Except Fuel Ethanol	--	2,136	--	64	-933	-920	19	295	33	0	939
Other Hydrocarbons	--	--	--	--	--	21	1	20	--	0	10
Unfinished Oils	--	--	--	88	-18	--	-141	-21	1,347	-1,115	13,421
Motor Gasoline Blend.Comp. (MGBC)	--	-2	--	392	6,314	-665	5,168	805	66	0	47,679
Reformulated	--	-1	--	--	1,012	-155	-10	866	--	0	5,603
Conventional	--	-1	--	392	5,302	-510	5,178	-61	66	0	42,076
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	110	142,188	1,078	766	3,593	5,834	--	1,385	140,516	60,484
Finished Motor Gasoline	--	110	78,832	--	-908	2,672	597	--	204	79,905	7,321
Reformulated	--	--	11,109	--	--	204	--	--	--	11,313	--
Conventional	--	110	67,723	--	-908	2,468	597	--	204	68,591	7,321
Finished Aviation Gasoline	--	--	19	3	10	--	16	--	--	16	151
Kerosene-Type Jet Fuel	--	--	8,243	--	1,129	--	-828	--	53	10,147	6,767
Kerosene	--	--	569	--	14	--	118	--	1	464	322
Distillate Fuel Oil	--	--	36,188	209	2,775	921	4,743	--	181	35,169	31,453
15 ppm sulfur and under	--	--	36,326	192	2,602	921	4,814	--	0	35,227	30,459
Greater than 15 ppm to 500 ppm sulfur	--	--	115	--	130	--	2	--	7	236	480
Greater than 500 ppm sulfur	--	--	-253	17	43	--	-73	--	174	-294	514
Residual Fuel Oil ⁶	--	--	1,456	115	-728	--	-29	--	134	738	1,247
Less than 0.31 percent sulfur	--	--	84	--	-101	--	38	--	NA	NA	197
0.31 to 1.00 percent sulfur	--	--	339	45	-196	--	-41	--	NA	NA	249
Greater than 1.00 percent sulfur	--	--	1,033	70	-431	--	-26	--	NA	NA	801
Petrochemical Feedstocks	--	--	939	180	-192	--	-87	--	--	1,014	520
Naphtha for Petro. Feed. Use	--	--	554	110	-146	--	-84	--	--	602	424
Other Oils for Petro. Feed. Use	--	--	385	70	-46	--	-3	--	--	412	96
Special Naphthas	--	--	-26	5	23	--	0	--	--	2	178
Lubricants	--	--	198	119	122	--	22	--	150	267	690
Waxes	--	--	26	7	--	--	-2	--	37	-2	41
Petroleum Coke	--	--	6,582	19	-1,061	--	147	--	510	4,882	2,076
Marketable	--	--	5,071	19	-1,061	--	147	--	510	3,371	2,076
Catalyst	--	--	1,511	--	--	--	--	--	--	1,511	--
Asphalt and Road Oil	--	--	4,170	421	-394	--	1,150	--	112	2,936	9,617
Still Gas	--	--	4,497	--	--	--	--	--	--	4,497	--
Miscellaneous Products	--	--	495	--	-24	--	-13	--	3	481	101
Total	101,840	32,489	143,109	100,769	-55,346	-8,832	1,994	135,361	16,950	159,724	304,284

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

Table 10. PAD District 2 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-December 2019
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	806,407	--	--	1,035,939	-332,077	-68,097	-5,513	1,387,965	59,720	0	126,589
Hydrocarbon Gas Liquids	374,639	-6,918	40,869	31,208	-127,795	--	-2,735	35,961	93,397	185,380	47,296
Natural Gas Liquids	374,639	-6,918	25,401	28,002	-120,754	--	-2,621	35,961	93,397	173,633	46,981
Ethane	123,212	--	--	--	--	--	224	--	33,358	46,647	5,415
Propane	136,533	--	26,825	19,672	-86,926	--	-643	--	1,452	95,295	20,016
Normal Butane	47,738	--	-1	6,309	-36,382	--	-2,244	8,659	1,553	9,342	9,145
Isobutane	22,688	--	-1,052	1,961	-2,004	--	-55	17,814	9	3,825	1,897
Natural Gasoline	44,468	-6,918	--	60	47,541	--	97	9,488	57,041	18,525	10,508
Refinery Olefins	--	--	15,468	3,206	--	--	-114	--	--	11,747	315
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	14,638	2,465	--	--	-60	--	--	10,122	295
Normal Butylene	--	--	785	711	--	--	16	--	--	1,480	20
Isobutylene	--	--	45	--	--	--	-70	--	--	145	0
Other Liquids	--	376,320	--	5,094	-143,190	-21,572	-2,036	206,972	29,466	-17,750	69,915
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	376,338	--	995	-241,568	-17,847	-807	110,384	8,341	0	8,815
Hydrogen	--	--	--	--	--	13,605	--	13,605	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	17	-2	--	19	0	2
Renewable Fuels (including Fuel Ethanol)	--	376,338	--	995	-241,568	-31,821	-794	96,416	8,322	0	8,803
Fuel Ethanol	--	348,588	--	--	-232,785	-19,023	-815	90,707	6,888	0	7,864
Renewable Fuels Except Fuel Ethanol	--	27,750	--	995	-8,782	-12,798	21	5,709	1,434	0	939
Other Hydrocarbons	--	--	--	--	--	352	-11	363	--	0	10
Unfinished Oils	--	--	--	1,033	-5,616	--	677	-6,972	19,462	-17,750	13,421
Motor Gasoline Blend Comp. (MGBC)	--	-18	--	3,066	103,994	-3,725	-1,906	103,560	1,663	0	47,679
Reformulated	--	-6	--	--	35,493	-15,794	-586	20,279	0	0	5,603
Conventional	--	-12	--	3,066	68,501	12,069	-1,320	83,281	1,663	0	42,076
Aviation Gasoline Blend Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	1,471	1,672,309	11,361	19,703	35,717	-3,567	--	15,671	1,728,457	60,484
Finished Motor Gasoline	--	1,471	947,916	1	4,687	22,748	817	--	2,125	973,881	7,321
Reformulated	--	--	131,030	--	--	19,065	--	--	--	150,095	--
Conventional	--	1,471	816,886	1	4,687	3,683	817	--	2,125	823,786	7,321
Finished Aviation Gasoline	--	--	380	44	179	--	-15	--	--	618	151
Kerosene-Type Jet Fuel	--	--	99,543	--	12,158	--	-770	--	605	111,866	6,767
Kerosene	--	--	1,935	--	34	--	41	--	8	1,920	322
Distillate Fuel Oil	--	--	416,270	3,049	29,277	12,969	-2,200	--	3,143	460,622	31,453
15 ppm sulfur and under	--	--	416,341	2,288	27,858	12,969	-2,475	--	95	461,836	30,459
Greater than 15 ppm to 500 ppm sulfur	--	--	1,009	--	1,325	--	98	--	1,252	984	480
Greater than 500 ppm sulfur	--	--	-1,080	761	94	--	177	--	1,796	-2,198	514
Residual Fuel Oil ⁶	--	--	16,285	1,017	-7,893	--	-33	--	1,713	7,729	1,247
Less than 0.31 percent sulfur	--	--	826	--	-848	--	140	--	NA	NA	197
0.31 to 1.00 percent sulfur	--	--	2,486	285	-345	--	-25	--	NA	NA	249
Greater than 1.00 percent sulfur	--	--	12,973	732	-6,700	--	-148	--	NA	NA	801
Petrochemical Feedstocks	--	--	11,346	1,789	-1,018	--	-45	--	--	12,162	520
Naphtha for Petro. Feed. Use	--	--	7,351	972	-898	--	-3	--	--	7,428	424
Other Oils for Petro. Feed. Use	--	--	3,995	817	-120	--	-42	--	--	4,734	96
Special Naphthas	--	--	-79	58	246	--	-5	--	--	230	178
Lubricants	--	--	2,089	1,443	1,694	--	-137	--	2,179	3,184	690
Waxes	--	--	322	77	--	--	13	--	406	-20	41
Petroleum Coke	--	--	67,515	321	-10,602	--	738	--	3,888	52,608	2,076
Marketable	--	--	50,563	321	-10,602	--	738	--	3,888	35,656	2,076
Catalyst	--	--	16,952	--	--	--	--	--	--	16,952	--
Asphalt and Road Oil	--	--	51,708	3,562	-9,003	--	-1,955	--	1,571	46,651	9,617
Still Gas	--	--	51,528	--	--	--	--	--	--	51,528	--
Miscellaneous Products	--	--	5,551	--	-56	--	-16	--	33	5,478	101
Total	1,181,046	370,873	1,713,178	1,083,602	-583,359	-53,952	-13,851	1,630,898	198,254	1,896,088	304,284

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

Table 11. PAD District 2 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, December 2019
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	2,243	--	--	3,126	-1,040	-327	-109	3,927	183	0
Hydrocarbon Gas Liquids	1,042	-20	30	73	-286	--	-191	120	254	656
Natural Gas Liquids	1,042	-20	-10	64	-267	--	-186	120	254	620
Ethane	333	--	--	--	--	--	-6	--	93	131
Propane	390	--	79	45	-238	--	-75	--	6	343
Normal Butane	140	--	-1,729	16	-95	--	-110	51	1	39
Isobutane	59	--	-8	3	3	--	-4	52	0	8
Natural Gasoline	121	-20	--	0	177	--	9	17	154	99
Refinery Olefins	--	--	40	9	--	--	-5	--	--	35
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	40	7	-19	--	-5	--	--	33
Normal Butylene	--	--	0	2	--	--	0	--	--	3
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	1,064	--	18	-484	-73	175	320	65	-36
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,064	--	2	-687	-52	13	294	19	0
Hydrogen	--	--	--	--	--	42	--	42	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	0	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	1,064	--	2	-687	-94	13	252	19	0
Fuel Ethanol	--	995	--	--	-657	-65	13	243	18	0
Renewable Fuels Except Fuel Ethanol	--	69	--	2	-30	-30	1	10	1	0
Other Hydrocarbons	--	--	--	--	--	1	0	1	--	0
Unfinished Oils	--	--	--	3	-1	--	-5	-1	43	-36
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	13	204	-21	167	26	2	0
Reformulated	--	0	--	--	33	-5	0	28	--	0
Conventional	--	0	--	13	171	-16	167	-2	2	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	4	4,587	35	25	116	188	--	45	4,533
Finished Motor Gasoline	--	4	2,543	--	-29	86	19	--	7	2,578
Reformulated	--	--	358	--	--	7	--	--	--	365
Conventional	--	4	2,185	--	-29	80	19	--	7	2,213
Finished Aviation Gasoline	--	--	1	0	0	--	1	--	--	1
Kerosene-Type Jet Fuel	--	--	266	--	36	--	-27	--	2	327
Kerosene	--	--	18	--	0	--	4	--	0	15
Distillate Fuel Oil	--	--	1,167	7	90	30	153	--	6	1,134
15 ppm sulfur and under	--	--	1,172	6	84	30	155	--	0	1,136
Greater than 15 ppm to 500 ppm sulfur	--	--	4	--	4	--	0	--	0	8
Greater than 500 ppm sulfur	--	--	-8	1	1	--	-2	--	6	-9
Residual Fuel Oil ⁶	--	--	47	4	-23	--	-1	--	4	24
Less than 0.31 percent sulfur	--	--	3	--	-3	--	1	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	11	1	-6	--	-1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	33	2	-14	--	-1	--	NA	NA
Petrochemical Feedstocks	--	--	30	6	-6	--	-3	--	--	33
Naphtha for Petro. Feed. Use	--	--	18	4	-5	--	-3	--	--	19
Other Oils for Petro. Feed. Use	--	--	12	2	-1	--	0	--	--	13
Special Naphthas	--	--	-1	0	1	--	0	--	--	0
Lubricants	--	--	6	4	4	--	1	--	5	9
Waxes	--	--	1	0	--	--	0	--	1	0
Petroleum Coke	--	--	212	1	-34	--	5	--	16	157
Marketable	--	--	164	1	-34	--	5	--	16	109
Catalyst	--	--	49	--	--	--	--	--	--	49
Asphalt and Road Oil	--	--	135	14	-13	--	37	--	4	95
Still Gas	--	--	145	--	--	--	--	--	--	145
Miscellaneous Products	--	--	16	--	-1	--	0	--	0	16
Total	3,285	1,048	4,616	3,251	-1,785	-285	64	4,366	547	5,152

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

Table 12. PAD District 2 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-December 2019
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	2,209	--	--	2,838	-910	-187	-15	3,803	164	0
Hydrocarbon Gas Liquids	1,026	-19	112	86	-350	--	-7	99	256	508
Natural Gas Liquids	1,026	-19	70	77	-331	--	-7	99	256	476
Ethane	338	--	--	--	--	--	1	--	91	128
Propane	374	--	73	54	-238	--	-2	--	4	261
Normal Butane	131	--	-1	17	-100	--	-6	24	4	26
Isobutane	62	--	-3	5	-5	--	0	49	0	10
Natural Gasoline	122	-19	--	0	130	--	0	26	156	51
Refinery Olefins	--	--	42	9	--	--	0	--	--	32
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	40	7	-19	--	0	--	--	28
Normal Butylene	--	--	2	2	--	--	0	--	--	4
Isobutylene	--	--	0	0	--	--	0	--	--	0
Other Liquids	--	1,031	--	14	-392	-59	-6	567	81	-49
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,031	--	3	-662	-49	-2	302	23	0
Hydrogen	--	--	--	--	--	37	--	37	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	0	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	1,031	--	3	-662	-87	-2	264	23	0
Fuel Ethanol	--	955	--	--	-638	-52	-2	249	19	0
Renewable Fuels Except Fuel Ethanol	--	76	--	3	-24	-35	0	16	4	0
Other Hydrocarbons	--	--	--	--	--	1	0	1	--	0
Unfinished Oils	--	--	--	3	-15	--	2	-19	53	-49
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	8	285	-10	-5	284	5	0
Reformulated	--	0	--	--	97	-43	-2	56	0	0
Conventional	--	0	--	8	188	33	-4	228	5	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	4	4,582	31	54	98	-10	--	43	4,735
Finished Motor Gasoline	--	4	2,597	0	13	62	2	--	6	2,668
Reformulated	--	--	359	--	--	52	--	--	--	411
Conventional	--	4	2,238	0	13	10	2	--	6	2,257
Finished Aviation Gasoline	--	--	1	0	0	--	0	--	--	2
Kerosene-Type Jet Fuel	--	--	273	--	33	--	-2	--	2	306
Kerosene	--	--	5	--	0	--	0	--	0	5
Distillate Fuel Oil	--	--	1,140	8	80	36	-6	--	9	1,262
15 ppm sulfur and under	--	--	1,141	6	76	36	-7	--	0	1,265
Greater than 15 ppm to 500 ppm sulfur	--	--	3	--	4	--	0	--	3	3
Greater than 500 ppm sulfur	--	--	-3	2	0	--	0	--	5	-6
Residual Fuel Oil ⁶	--	--	45	3	-22	--	0	--	5	21
Less than 0.31 percent sulfur	--	--	2	--	-2	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	7	1	-1	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	36	2	-18	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	31	5	-3	--	0	--	--	33
Naphtha for Petro. Feed. Use	--	--	20	3	-2	--	0	--	--	20
Other Oils for Petro. Feed. Use	--	--	11	2	0	--	0	--	--	13
Special Naphthas	--	--	0	0	1	--	0	--	--	1
Lubricants	--	--	6	4	5	--	0	--	6	9
Waxes	--	--	1	0	--	--	0	--	1	0
Petroleum Coke	--	--	185	1	-29	--	2	--	11	144
Marketable	--	--	139	1	-29	--	2	--	11	98
Catalyst	--	--	46	--	--	--	--	--	--	46
Asphalt and Road Oil	--	--	142	10	-25	--	-5	--	4	128
Still Gas	--	--	141	--	--	--	--	--	--	141
Miscellaneous Products	--	--	15	--	0	--	0	--	0	15
Total	3,236	1,016	4,694	2,969	-1,598	-148	-38	4,468	543	5,195

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

Table 13. PAD District 3 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, December 2019
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil⁶	264,784	--	--	47,360	42,083	24,305	-8,564	279,035	108,061	0	856,072
Hydrocarbon Gas Liquids	87,532	-12	9,696	58	15,454	--	-10,595	12,714	45,567	65,042	152,838
Natural Gas Liquids	87,532	-12	3,193	30	15,113	--	-11,548	12,714	45,567	59,123	144,603
Ethane	36,396	--	146	--	--	--	-2,102	--	3,818	46,046	50,689
Propane	27,721	--	5,405	--	4,549	--	-4,185	--	34,625	7,235	49,672
Normal Butane	5,525	--	-1,729	--	2,315	--	-5,492	5,486	6,957	-840	26,136
Isobutane	9,197	--	-629	30	728	--	302	3,913	112	4,999	8,479
Natural Gasoline	8,693	-12	--	--	-3,699	--	-71	3,315	54	1,684	9,627
Refinery Olefins	--	--	6,503	28	--	--	953	--	--	5,919	8,235
Ethylene	--	--	--	--	--	--	0	--	--	0	0
Propylene	--	--	6,737	--	--	--	471	--	--	6,607	7,200
Normal Butylene	--	--	-200	28	--	--	478	--	--	-650	1,030
Isobutylene	--	--	-34	--	--	--	4	--	--	-38	5
Other Liquids	--	3,633	--	19,076	-58,594	1,615	1,265	-49,804	13,505	763	138,629
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	3,633	--	443	5,891	3,106	-603	9,021	4,654	0	6,962
Hydrogen	--	--	--	--	--	4,227	--	4,227	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	2,310	--	438	--	-702	-7	--	2,053	0	1,410
Renewable Fuels (including Fuel Ethanol)	--	1,323	--	--	5,891	-414	-596	4,794	2,602	0	5,552
Fuel Ethanol	--	670	--	--	5,797	118	-537	4,550	2,571	0	3,963
Renewable Fuels Except Fuel Ethanol	--	653	--	--	95	-532	-59	244	30	0	1,589
Other Hydrocarbons	--	--	--	5	--	-5	--	--	--	0	--
Unfinished Oils	--	--	--	17,412	223	--	-4,273	14,579	6,525	804	49,236
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	1,221	-64,708	-1,491	6,130	-73,434	2,326	0	82,389
Reformulated	--	--	--	--	-12,908	5,474	-589	-6,976	131	0	10,987
Conventional	--	--	--	1,221	-51,800	-6,965	6,719	-66,458	2,195	0	71,402
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	11	30	--	-41	42
Finished Petroleum Products	--	--	251,988	4,975	-53,771	2,120	3,703	--	92,529	109,080	110,362
Finished Motor Gasoline	--	--	76,244	84	-3,337	1,374	843	--	27,987	45,535	9,399
Reformulated	--	--	13,820	--	--	-5,214	--	--	--	8,606	--
Conventional	--	--	62,424	84	-3,337	6,588	843	--	27,987	36,929	9,399
Finished Aviation Gasoline	--	--	369	18	-104	--	120	--	--	163	560
Kerosene-Type Jet Fuel	--	--	30,982	--	-18,733	--	29	--	6,533	5,687	14,377
Kerosene	--	--	91	--	-274	--	128	--	285	-596	283
Distillate Fuel Oil	--	--	95,530	--	-31,578	747	2,502	--	37,199	24,997	44,357
15 ppm sulfur and under	--	--	86,211	--	-29,606	747	2,963	--	29,436	24,952	36,536
Greater than 15 ppm to 500 ppm sulfur	--	--	3,312	--	-169	--	174	--	3,312	-343	2,077
Greater than 500 ppm sulfur	--	--	6,007	--	-1,803	--	-635	--	4,451	388	5,744
Residual Fuel Oil ⁷	--	--	3,139	2,775	728	--	-875	--	4,682	2,835	17,609
Less than 0.31 percent sulfur	--	--	1,234	--	101	--	-114	--	NA	NA	1,633
0.31 to 1.00 percent sulfur	--	--	443	536	196	--	279	--	NA	NA	2,776
Greater than 1.00 percent sulfur	--	--	1,462	2,239	431	--	-1,040	--	NA	NA	13,200
Petrochemical Feedstocks	--	--	9,296	320	192	--	-124	--	--	9,932	2,581
Naphtha for Petro. Feed. Use	--	--	6,212	300	146	--	-174	--	--	6,832	1,722
Other Oils for Petro. Feed. Use	--	--	3,084	20	46	--	50	--	--	3,100	859
Special Naphthas	--	--	1,012	439	-23	--	-18	--	--	1,446	970
Lubricants	--	--	4,248	1,195	-522	--	824	--	2,230	1,867	9,696
Waxes	--	--	100	24	--	--	17	--	29	78	276
Petroleum Coke	--	--	15,138	120	519	--	-381	--	12,974	3,184	5,055
Marketable	--	--	11,438	120	519	--	-381	--	12,974	-516	5,055
Catalyst	--	--	3,700	--	--	--	--	--	--	3,700	--
Asphalt and Road Oil	--	--	2,155	--	-626	--	653	--	508	368	4,790
Still Gas	--	--	11,926	--	--	--	--	--	--	11,926	--
Miscellaneous Products	--	--	1,758	--	-12	--	-15	--	103	1,658	409
Total	352,316	3,621	261,684	71,469	-54,827	28,040	-14,191	241,945	259,662	174,886	1,257,901

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

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

Table 14. PAD District 3 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-December 2019
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil⁶	2,946,497	--	--	605,435	430,775	233,014	-24,418	3,223,352	1,016,787	0	856,072
Hydrocarbon Gas Liquids	1,001,790	-151	149,403	1,250	257,446	--	30,408	120,155	478,894	780,281	152,838
Natural Gas Liquids	1,001,790	-151	70,098	30	253,491	--	29,525	120,155	478,894	696,684	144,603
Ethane	424,265	--	1,807	--	--	--	7,548	--	54,065	505,776	50,689
Propane	308,800	--	56,430	--	84,132	--	15,469	--	341,899	91,994	49,672
Normal Butane	60,323	--	17,092	--	41,989	--	3,811	34,761	80,619	213	26,136
Isobutane	104,459	--	-5,231	30	12,258	--	2,806	46,032	1,802	60,876	8,479
Natural Gasoline	103,943	-151	--	--	-26,205	--	-109	39,362	511	37,823	9,627
Refinery Olefins	--	--	79,305	1,220	--	--	883	--	--	83,597	8,235
Ethylene	--	--	--	--	--	--	0	--	--	0	0
Propylene	--	--	81,558	--	--	--	743	--	--	84,770	7,200
Normal Butylene	--	--	-1,840	1,220	--	--	135	--	--	-755	1,030
Isobutylene	--	--	-413	--	--	--	5	--	--	-418	5
Other Liquids	--	45,403	--	204,594	-705,855	48,690	6,465	-579,727	140,873	25,221	138,629
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	45,403	--	2,040	65,985	38,679	-1,248	103,905	49,449	0	6,962
Hydrogen	--	--	--	--	--	45,338	--	45,338	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	30,216	--	1,704	--	-7,343	-137	30	24,684	0	1,410
Renewable Fuels (including Fuel Ethanol)	--	15,187	--	292	65,985	728	-1,111	58,537	24,765	0	5,552
Fuel Ethanol	--	7,165	--	--	65,228	6,292	-590	54,841	24,434	0	3,963
Renewable Fuels Except Fuel Ethanol	--	8,022	--	292	757	-5,564	-521	3,696	332	0	1,589
Other Hydrocarbons	--	--	--	44	--	-44	--	--	--	0	--
Unfinished Oils	--	--	--	180,062	5,703	--	4,276	93,535	62,497	25,457	49,236
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	22,492	-777,543	10,012	3,426	-777,392	28,927	0	82,389
Reformulated	--	--	--	581	-162,287	63,055	-1,329	-97,643	321	0	10,987
Conventional	--	--	--	21,911	-615,256	-53,043	4,755	-679,749	28,606	0	71,402
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	11	225	--	-236	42
Finished Petroleum Products	--	--	2,833,294	47,046	-599,604	-8,460	-1,935	--	1,003,762	1,270,449	110,362
Finished Motor Gasoline	--	--	854,550	869	-58,688	-16,303	-2,252	--	276,271	506,409	9,399
Reformulated	--	--	169,943	--	--	-67,184	0	--	--	102,759	--
Conventional	--	--	684,607	869	-58,688	50,880	-2,252	--	276,271	403,649	9,399
Finished Aviation Gasoline	--	--	3,656	126	-1,133	--	125	--	--	2,524	560
Kerosene-Type Jet Fuel	--	--	343,315	30	-207,292	--	-1,060	--	63,994	73,119	14,377
Kerosene	--	--	812	--	-1,759	--	96	--	777	-1,820	283
Distillate Fuel Oil	--	--	1,069,176	1,813	-335,685	7,843	1,169	--	420,539	321,439	44,357
15 ppm sulfur and under	--	--	963,021	516	-318,680	7,843	572	--	346,808	305,320	36,536
Greater than 15 ppm to 500 ppm sulfur	--	--	38,909	--	-1,699	--	395	--	33,961	2,854	2,077
Greater than 500 ppm sulfur	--	--	67,246	1,297	-15,306	--	202	--	39,770	13,265	5,744
Residual Fuel Oil ⁷	--	--	58,213	20,542	8,361	--	1,358	--	59,097	26,661	17,609
Less than 0.31 percent sulfur	--	--	14,881	2,480	848	--	733	--	NA	NA	1,633
0.31 to 1.00 percent sulfur	--	--	5,840	2,221	345	--	237	--	NA	NA	2,776
Greater than 1.00 percent sulfur	--	--	37,492	15,841	7,168	--	388	--	NA	NA	13,200
Petrochemical Feedstocks	--	--	97,503	3,939	445	--	-173	--	--	102,060	2,581
Naphtha for Petro. Feed. Use	--	--	62,493	3,759	898	--	-160	--	--	67,310	1,722
Other Oils for Petro. Feed. Use	--	--	35,010	180	-453	--	-13	--	--	34,750	859
Special Naphthas	--	--	11,124	5,963	-246	--	-208	--	--	17,049	970
Lubricants	--	--	48,077	11,682	-6,692	--	-862	--	29,750	24,179	9,696
Waxes	--	--	1,160	340	--	--	4	--	295	1,201	276
Petroleum Coke	--	--	169,062	1,652	7,417	--	159	--	146,325	31,647	5,055
Marketable	--	--	126,808	1,652	7,417	--	159	--	146,325	-10,607	5,055
Catalyst	--	--	42,254	--	--	--	--	--	--	42,254	--
Asphalt and Road Oil	--	--	29,342	90	-4,548	--	-306	--	6,172	19,018	4,790
Still Gas	--	--	128,257	--	--	--	--	--	--	128,257	--
Miscellaneous Products	--	--	19,047	--	217	--	15	--	542	18,707	409
Total	3,948,287	45,252	2,982,697	858,325	-617,237	273,244	10,520	2,763,780	2,640,316	2,075,951	1,257,901

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

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

Table 15. PAD District 3 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, December 2019
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil⁶	8,541	--	--	1,528	1,358	784	-276	9,001	3,486	0
Hydrocarbon Gas Liquids	2,824	0	313	2	499	--	-342	410	1,470	2,098
Natural Gas Liquids	2,824	0	103	1	488	--	-373	410	1,470	1,907
Ethane	1,174	--	5	--	--	--	-68	--	123	1,485
Propane	894	--	174	--	147	--	-135	--	1,117	233
Normal Butane	178	--	-56	--	75	--	-177	177	224	-27
Isobutane	297	--	-20	1	23	--	10	126	4	161
Natural Gasoline	280	0	--	--	-119	--	-2	107	2	54
Refinery Olefins	--	--	210	1	--	--	31	--	--	191
Ethylene	--	--	--	--	--	--	0	--	--	0
Propylene	--	--	217	--	11	--	15	--	--	213
Normal Butylene	--	--	-6	1	--	--	15	--	--	-21
Isobutylene	--	--	-1	--	--	--	0	--	--	-1
Other Liquids	--	117	--	615	-1,890	52	41	-1,607	436	25
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	117	--	14	190	100	-19	291	150	0
Hydrogen	--	--	--	--	--	136	--	136	--	0
Oxygenates (excluding Fuel Ethanol)	--	75	--	14	--	-23	0	--	66	0
Renewable Fuels (including Fuel Ethanol)	--	43	--	--	190	-13	-19	155	84	0
Fuel Ethanol	--	22	--	--	187	4	-17	147	83	0
Renewable Fuels Except Fuel Ethanol	--	21	--	--	3	-17	-2	8	1	0
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	562	7	--	-138	470	210	26
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	39	-2,087	-48	198	-2,369	75	0
Reformulated	--	--	--	--	-416	177	-19	-225	4	0
Conventional	--	--	--	39	-1,671	-225	217	-2,144	71	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	1	--	-1
Finished Petroleum Products	--	--	8,129	160	-1,735	68	119	--	2,985	3,519
Finished Motor Gasoline	--	--	2,459	3	-108	44	27	--	903	1,469
Reformulated	--	--	446	--	--	-168	--	--	--	278
Conventional	--	--	2,014	3	-108	213	27	--	903	1,191
Finished Aviation Gasoline	--	--	12	1	-3	--	4	--	--	5
Kerosene-Type Jet Fuel	--	--	999	--	-604	--	1	--	211	183
Kerosene	--	--	3	--	-9	--	4	--	9	-19
Distillate Fuel Oil	--	--	3,082	--	-1,019	24	81	--	1,200	806
15 ppm sulfur and under	--	--	2,781	--	-955	24	96	--	950	805
Greater than 15 ppm to 500 ppm sulfur	--	--	107	--	-5	--	6	--	107	-11
Greater than 500 ppm sulfur	--	--	194	--	-58	--	-20	--	144	13
Residual Fuel Oil ⁷	--	--	101	90	23	--	-28	--	151	91
Less than 0.31 percent sulfur	--	--	40	--	3	--	-4	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	14	17	6	--	9	--	NA	NA
Greater than 1.00 percent sulfur	--	--	47	72	14	--	-34	--	NA	NA
Petrochemical Feedstocks	--	--	300	10	6	--	-4	--	--	320
Naphtha for Petro. Feed. Use	--	--	200	10	5	--	-6	--	--	220
Other Oils for Petro. Feed. Use	--	--	99	1	1	--	2	--	--	100
Special Naphthas	--	--	33	14	-1	--	-1	--	--	47
Lubricants	--	--	137	39	-17	--	27	--	72	60
Waxes	--	--	3	1	--	--	1	--	1	3
Petroleum Coke	--	--	488	4	17	--	-12	--	419	103
Marketable	--	--	369	4	17	--	-12	--	419	-17
Catalyst	--	--	119	--	--	--	--	--	--	119
Asphalt and Road Oil	--	--	70	--	-20	--	21	--	16	12
Still Gas	--	--	385	--	--	--	--	--	--	385
Miscellaneous Products	--	--	57	--	0	--	0	--	3	53
Total	11,365	117	8,441	2,305	-1,769	905	-458	7,805	8,376	5,641

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

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

Table 16. PAD District 3 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-December 2019
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil⁶	8,073	--	--	1,659	1,180	638	-67	8,831	2,786	0
Hydrocarbon Gas Liquids	2,745	0	409	3	705	--	83	329	1,312	2,138
Natural Gas Liquids	2,745	0	192	0	694	--	81	329	1,312	1,909
Ethane	1,162	--	5	--	--	--	21	--	148	1,386
Propane	846	--	155	--	230	--	42	--	937	252
Normal Butane	165	--	-29	--	115	--	10	95	221	1
Isobutane	286	--	-14	0	34	--	8	126	5	167
Natural Gasoline	285	0	--	--	-72	--	0	108	1	104
Refinery Olefins	--	--	217	3	--	--	2	--	--	229
Ethylene	--	--	--	--	--	--	0	--	--	0
Propylene	--	--	223	--	11	--	2	--	--	232
Normal Butylene	--	--	-5	3	--	--	0	--	--	-2
Isobutylene	--	--	-1	--	--	--	0	--	--	-1
Other Liquids	--	124	--	561	-1,934	133	18	-1,588	386	69
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	124	--	6	181	106	-3	285	135	0
Hydrogen	--	--	--	--	--	124	--	124	--	0
Oxygenates (excluding Fuel Ethanol)	--	83	--	5	--	-20	0	0	68	0
Renewable Fuels (including Fuel Ethanol)	--	42	--	1	181	2	-3	160	68	0
Fuel Ethanol	--	20	--	--	179	17	-2	150	67	0
Renewable Fuels Except Fuel Ethanol	--	22	--	1	2	-15	-1	10	1	0
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	493	16	--	12	256	171	70
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	62	-2,130	27	9	-2,130	79	0
Reformulated	--	--	--	2	-445	173	-4	-268	1	0
Conventional	--	--	--	60	-1,686	-145	13	-1,862	78	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	1	--	-1
Finished Petroleum Products	--	--	7,762	129	-1,643	-23	-5	--	2,750	3,481
Finished Motor Gasoline	--	--	2,341	2	-161	-45	-6	--	757	1,387
Reformulated	--	--	466	--	--	-184	0	--	--	282
Conventional	--	--	1,876	2	-161	139	-6	--	757	1,106
Finished Aviation Gasoline	--	--	10	0	-3	--	0	--	--	7
Kerosene-Type Jet Fuel	--	--	941	0	-568	--	-3	--	175	200
Kerosene	--	--	2	--	-5	--	0	--	2	-5
Distillate Fuel Oil	--	--	2,929	5	-920	21	3	--	1,152	881
15 ppm sulfur and under	--	--	2,638	1	-873	21	2	--	950	836
Greater than 15 ppm to 500 ppm sulfur	--	--	107	--	-5	--	1	--	93	8
Greater than 500 ppm sulfur	--	--	184	4	-42	--	1	--	109	36
Residual Fuel Oil ⁷	--	--	159	56	23	--	4	--	162	73
Less than 0.31 percent sulfur	--	--	41	7	2	--	2	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	16	6	1	--	1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	103	43	20	--	1	--	NA	NA
Petrochemical Feedstocks	--	--	267	11	1	--	0	--	--	280
Naphtha for Petro. Feed. Use	--	--	171	10	2	--	0	--	--	184
Other Oils for Petro. Feed. Use	--	--	96	0	-1	--	0	--	--	95
Special Naphthas	--	--	30	16	-1	--	-1	--	--	47
Lubricants	--	--	132	32	-18	--	-2	--	82	66
Waxes	--	--	3	1	--	--	0	--	1	3
Petroleum Coke	--	--	463	5	20	--	0	--	401	87
Marketable	--	--	347	5	20	--	0	--	401	-29
Catalyst	--	--	116	--	--	--	--	--	--	116
Asphalt and Road Oil	--	--	80	0	-12	--	-1	--	17	52
Still Gas	--	--	351	--	--	--	--	--	--	351
Miscellaneous Products	--	--	52	--	1	--	0	--	1	51
Total	10,817	124	8,172	2,352	-1,691	749	29	7,572	7,234	5,688

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

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

Table 17. PAD District 4 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, December 2019
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	30,993	--	--	12,259	-22,002	-1,739	-514	20,025	0	0	23,680
Hydrocarbon Gas Liquids	14,152	-11	44	489	-10,183	--	-649	754	73	4,313	3,852
Natural Gas Liquids	14,152	-11	-15	489	-10,183	--	-575	754	73	4,180	3,777
Ethane	3,406	--	--	--	--	--	18	--	--	594	556
Propane	5,390	--	283	442	-3,474	--	-164	--	--	2,805	1,693
Normal Butane	2,081	--	-257	16	-1,581	--	-421	434	--	246	885
Isobutane	1,108	--	-41	31	-812	--	2	166	--	118	273
Natural Gasoline	2,167	-11	--	--	-1,522	--	-10	154	73	417	370
Refinery Olefins	--	--	59	--	--	--	-74	--	--	133	75
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	3	--	--	--	0	--	--	3	0
Normal Butylene	--	--	56	--	--	--	-74	--	--	130	75
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	440	--	69	171	-1,045	535	-1,060	1	159	10,001
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	440	--	31	383	257	-25	1,135	1	0	462
Hydrogen	--	--	--	--	--	237	--	237	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0	--
Renewable Fuels (including Fuel Ethanol)	--	440	--	31	383	19	-25	898	1	0	462
Fuel Ethanol	--	440	--	--	348	78	-1	867	--	0	400
Renewable Fuels Except Fuel Ethanol	--	0	--	31	35	-59	-24	31	1	0	62
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	-181	22	0	159	3,181
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	38	-212	-1,302	741	-2,217	0	0	6,358
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	-212	-1,302	741	-2,217	0	0	6,358
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	20,522	141	-819	1,259	919	--	16	20,168	9,280
Finished Motor Gasoline	--	--	9,237	--	-611	1,224	224	--	0	9,626	1,921
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	9,237	--	-611	1,224	224	--	0	9,626	1,921
Finished Aviation Gasoline	--	--	2	1	--	--	-1	--	--	4	8
Kerosene-Type Jet Fuel	--	--	1,005	--	869	--	-20	--	--	1,894	709
Kerosene	--	--	--	--	--	--	0	--	--	0	1
Distillate Fuel Oil	--	--	6,950	98	-377	36	668	--	--	6,039	4,648
15 ppm sulfur and under	--	--	6,934	98	-377	36	745	--	--	5,946	4,423
Greater than 15 ppm to 500 ppm sulfur	--	--	85	--	--	--	-8	--	--	93	138
Greater than 500 ppm sulfur	--	--	-69	--	--	--	-69	--	--	0	87
Residual Fuel Oil ⁶	--	--	403	--	--	--	-5	--	4	404	257
Less than 0.31 percent sulfur	--	--	212	--	--	--	0	--	NA	NA	33
0.31 to 1.00 percent sulfur	--	--	38	--	--	--	-1	--	NA	NA	17
Greater than 1.00 percent sulfur	--	--	153	--	--	--	-4	--	NA	NA	207
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	10	-10	--
Waxes	--	--	--	--	--	--	--	--	0	0	--
Petroleum Coke	--	--	844	--	-83	--	-52	--	--	813	189
Marketable	--	--	611	--	-83	--	-52	--	--	580	189
Catalyst	--	--	233	--	--	--	--	--	--	233	--
Asphalt and Road Oil	--	--	1,255	41	-617	--	108	--	1	570	1,530
Still Gas	--	--	711	--	--	--	--	--	--	711	--
Miscellaneous Products	--	--	115	1	--	--	-3	--	--	119	17
Total	45,145	429	20,566	12,958	-32,833	-1,525	291	19,719	90	24,641	46,813

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

Table 18. PAD District 4 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-December 2019
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	349,599	--	--	140,524	-233,712	-24,614	2,140	229,657	0	0	23,680
Hydrocarbon Gas Liquids	158,961	-123	3,509	4,528	-125,799	--	392	7,098	2,074	31,512	3,852
Natural Gas Liquids	158,961	-123	2,896	4,528	-125,799	--	354	7,098	2,074	30,937	3,777
Ethane	40,370	--	--	--	--	--	91	--	0	3,732	556
Propane	59,006	--	3,151	3,700	-43,844	--	297	--	5	21,711	1,693
Normal Butane	23,049	--	-29	595	-17,610	--	-58	2,705	49	3,309	885
Isobutane	11,606	--	-226	233	-9,594	--	6	2,331	0	-318	273
Natural Gasoline	24,930	-123	--	--	-18,204	--	18	2,062	2,019	2,504	370
Refinery Olefins	--	--	613	--	--	--	38	--	--	575	75
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	44	--	--	--	-1	--	--	45	0
Normal Butylene	--	--	590	--	--	--	44	--	--	546	75
Isobutylene	--	--	-21	--	--	--	-5	--	--	-16	0
Other Liquids	--	4,858	--	1,529	6,644	-12,930	363	-2,632	26	2,344	10,001
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	4,858	--	219	4,855	3,985	-5	13,916	6	0	462
Hydrogen	--	--	--	--	--	2,501	--	2,501	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0	--
Renewable Fuels (including Fuel Ethanol)	--	4,858	--	219	4,855	1,483	-5	11,415	6	0	462
Fuel Ethanol	--	4,858	--	--	4,228	1,803	47	10,842	0	0	400
Renewable Fuels Except Fuel Ethanol	--	0	--	219	627	-320	-52	573	6	0	62
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	-316	-2,047	19	2,344	3,181
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	1,310	1,789	-16,915	684	-14,501	1	0	6,358
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	1,789	-16,915	684	-14,501	1	0	6,358
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	240,235	2,023	-10,092	15,380	304	--	278	246,964	9,280
Finished Motor Gasoline	--	--	113,530	72	-6,813	15,112	308	--	10	121,583	1,921
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	113,530	72	-6,813	15,112	308	--	10	121,583	1,921
Finished Aviation Gasoline	--	--	61	18	--	--	-2	--	--	81	8
Kerosene-Type Jet Fuel	--	--	12,201	--	9,812	--	-105	--	--	22,118	709
Kerosene	--	--	1	--	--	--	-1	--	--	2	1
Distillate Fuel Oil	--	--	77,239	1,405	-1,642	268	204	--	53	77,013	4,648
15 ppm sulfur and under	--	--	76,604	1,405	-1,642	268	266	--	15	76,354	4,423
Greater than 15 ppm to 500 ppm sulfur	--	--	635	--	--	--	-63	--	38	660	138
Greater than 500 ppm sulfur	--	--	0	--	--	--	1	--	--	-1	87
Residual Fuel Oil ⁶	--	--	4,524	97	--	--	21	--	88	4,512	257
Less than 0.31 percent sulfur	--	--	2,294	--	--	--	8	--	NA	NA	33
0.31 to 1.00 percent sulfur	--	--	357	--	--	--	9	--	NA	NA	17
Greater than 1.00 percent sulfur	--	--	1,873	97	--	--	4	--	NA	NA	207
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	1	--	--	--	--	90	-89	--
Waxes	--	--	--	--	--	--	--	--	2	-2	--
Petroleum Coke	--	--	9,193	--	-3,987	--	-5	--	2	5,208	189
Marketable	--	--	6,465	--	-3,987	--	-5	--	2	2,480	189
Catalyst	--	--	2,728	--	--	--	--	--	--	2,728	--
Asphalt and Road Oil	--	--	14,107	418	-7,461	--	-117	--	29	7,152	1,530
Still Gas	--	--	8,115	--	--	--	--	--	--	8,115	--
Miscellaneous Products	--	--	1,264	12	--	--	1	--	4	1,271	17
Total	508,560	4,735	243,744	148,604	-362,958	-22,164	3,199	234,123	2,378	280,820	46,813

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

Table 19. PAD District 4 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, December 2019
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	1,000	--	--	395	-710	-56	-17	646	0	0
Hydrocarbon Gas Liquids	457	0	1	16	-328	--	-21	24	2	139
Natural Gas Liquids	457	0	0	16	-328	--	-19	24	2	135
Ethane	110	--	--	--	--	--	1	--	--	19
Propane	174	--	9	14	-112	--	-5	--	--	90
Normal Butane	67	--	-8	1	-51	--	-14	14	--	8
Isobutane	36	--	-1	1	-26	--	0	5	--	4
Natural Gasoline	70	0	--	--	-49	--	0	5	2	13
Refinery Olefins	--	--	2	--	--	--	-2	--	--	4
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	0	--	--	--	0	--	--	0
Normal Butylene	--	--	2	--	--	--	-2	--	--	4
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	14	--	2	6	-34	17	-34	0	5
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	14	--	1	12	8	-1	37	0	0
Hydrogen	--	--	--	--	--	8	--	8	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	14	--	1	12	1	-1	29	0	0
Fuel Ethanol	--	14	--	--	11	3	0	28	--	0
Renewable Fuels Except Fuel Ethanol	--	0	--	1	1	-2	-1	1	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	-6	1	0	5
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	1	-7	-42	24	-72	0	0
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	-7	-42	24	-72	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	662	5	-26	41	30	--	1	651
Finished Motor Gasoline	--	--	298	--	-20	39	7	--	0	311
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	298	--	-20	39	7	--	0	311
Finished Aviation Gasoline	--	--	0	0	--	--	0	--	--	0
Kerosene-Type Jet Fuel	--	--	32	--	28	--	-1	--	--	61
Kerosene	--	--	--	--	--	--	0	--	--	0
Distillate Fuel Oil	--	--	224	3	-12	1	22	--	--	195
15 ppm sulfur and under	--	--	224	3	-12	1	24	--	--	192
Greater than 15 ppm to 500 ppm sulfur	--	--	3	--	--	--	0	--	--	3
Greater than 500 ppm sulfur	--	--	-2	--	--	--	-2	--	--	0
Residual Fuel Oil ⁶	--	--	13	--	--	--	0	--	0	13
Less than 0.31 percent sulfur	--	--	7	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	1	--	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	5	--	--	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	0	0
Waxes	--	--	--	--	--	--	--	--	0	0
Petroleum Coke	--	--	27	--	-3	--	-2	--	--	26
Marketable	--	--	20	--	-3	--	-2	--	--	19
Catalyst	--	--	8	--	--	--	--	--	--	8
Asphalt and Road Oil	--	--	40	1	-20	--	3	--	0	18
Still Gas	--	--	23	--	--	--	--	--	--	23
Miscellaneous Products	--	--	4	0	--	--	0	--	--	4
Total	1,456	14	663	418	-1,059	-49	9	636	3	795

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

Table 20. PAD District 4 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-December 2019
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	958	--	--	385	-640	-67	6	629	0	0
Hydrocarbon Gas Liquids	436	0	10	12	-345	--	1	19	6	86
Natural Gas Liquids	436	0	8	12	-345	--	1	19	6	85
Ethane	111	--	--	--	--	--	0	--	0	10
Propane	162	--	9	10	-120	--	1	--	0	59
Normal Butane	63	--	0	2	-48	--	0	7	0	9
Isobutane	32	--	-1	1	-26	--	0	6	0	-1
Natural Gasoline	68	0	--	--	-50	--	0	6	6	7
Refinery Olefins	--	--	2	--	--	--	0	--	--	2
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	0	--	--	--	0	--	--	0
Normal Butylene	--	--	2	--	--	--	0	--	--	1
Isobutylene	--	--	0	--	--	--	0	--	--	0
Other Liquids	--	13	--	4	18	-35	1	-7	0	6
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	13	--	1	13	11	0	38	0	0
Hydrogen	--	--	--	--	--	7	--	7	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	13	--	1	13	4	0	31	0	0
Fuel Ethanol	--	13	--	--	12	5	0	30	0	0
Renewable Fuels Except Fuel Ethanol	--	0	--	1	2	-1	0	2	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	-1	-6	0	6
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	4	5	-46	2	-40	0	0
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	5	-46	2	-40	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	658	6	-28	42	1	--	1	677
Finished Motor Gasoline	--	--	311	0	-19	41	1	--	0	333
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	311	0	-19	41	1	--	0	333
Finished Aviation Gasoline	--	--	0	0	--	--	0	--	--	0
Kerosene-Type Jet Fuel	--	--	33	--	27	--	0	--	--	61
Kerosene	--	--	0	--	--	--	0	--	--	0
Distillate Fuel Oil	--	--	212	4	-4	1	1	--	0	211
15 ppm sulfur and under	--	--	210	4	-4	1	1	--	0	209
Greater than 15 ppm to 500 ppm sulfur	--	--	2	--	--	--	0	--	0	2
Greater than 500 ppm sulfur	--	--	0	--	--	--	0	--	--	0
Residual Fuel Oil ⁶	--	--	12	0	--	--	0	--	0	12
Less than 0.31 percent sulfur	--	--	6	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	1	--	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	5	0	--	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	0	--	--	--	--	0	0
Waxes	--	--	--	--	--	--	--	--	0	0
Petroleum Coke	--	--	25	--	-11	--	0	--	0	14
Marketable	--	--	18	--	-11	--	0	--	0	7
Catalyst	--	--	7	--	--	--	--	--	--	7
Asphalt and Road Oil	--	--	39	1	-20	--	0	--	0	20
Still Gas	--	--	22	--	--	--	--	--	--	22
Miscellaneous Products	--	--	3	0	--	--	0	--	0	3
Total	1,393	13	668	407	-994	-61	9	641	7	769

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

Table 21. PAD District 5 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, December 2019
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	28,582	--	--	39,313	5,591	881	-496	74,863	--	0	51,917
Hydrocarbon Gas Liquids	1,802	-12	-375	1,626	1,338	--	-1,346	3,027	815	1,883	4,114
Natural Gas Liquids	1,802	-12	-596	1,626	1,338	--	-1,347	3,027	815	1,663	4,094
Ethane	1	--	--	--	--	--	--	--	0	1	--
Propane	284	--	1,134	955	344	--	-637	--	566	2,788	1,673
Normal Butane	396	--	-1,708	623	759	--	-638	1,643	247	-1,182	1,992
Isobutane	275	--	-22	48	235	--	-69	616	0	-11	388
Natural Gasoline	846	-12	--	--	--	--	-3	768	3	66	41
Refinery Olefins	--	--	221	--	--	--	1	--	--	220	20
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	224	--	--	--	-1	--	--	225	14
Normal Butylene	--	--	-3	--	--	--	2	--	--	-5	6
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	723	--	3,077	9,878	-714	1,631	9,233	935	1,164	54,290
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	723	--	1,026	5,129	-37	-3	6,550	294	0	4,413
Hydrogen	--	--	--	--	--	1,303	--	1,303	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0	--
Renewable Fuels (including Fuel Ethanol)	--	723	--	1,026	5,129	-1,340	-3	5,247	293	0	4,413
Fuel Ethanol	--	498	--	269	4,585	-367	15	4,694	275	0	2,861
Renewable Fuels Except Fuel Ethanol	--	225	--	757	544	-973	-18	553	18	0	1,552
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	2,051	-161	--	-553	1,228	51	1,164	19,422
Motor Gasoline Blend Comp. (MGBC)	--	--	--	--	4,910	-677	2,187	1,455	591	0	30,455
Reformulated	--	--	--	--	2,179	-53	968	1,155	3	0	15,121
Conventional	--	--	--	--	2,731	-624	1,219	300	588	0	15,334
Aviation Gasoline Blend Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	93,327	4,518	2,339	1,236	3,300	--	11,295	86,825	36,758
Finished Motor Gasoline	--	--	47,230	99	372	1,044	-135	--	2,180	46,701	2,701
Reformulated	--	--	32,740	--	--	-451	0	--	--	32,289	13
Conventional	--	--	14,490	99	372	1,495	-135	--	2,180	14,411	2,688
Finished Aviation Gasoline	--	--	1	1	--	--	-18	--	--	20	184
Kerosene-Type Jet Fuel	--	--	15,202	3,764	204	--	1,116	--	1,202	16,852	9,755
Kerosene	--	--	19	--	--	--	3	--	15	1	44
Distillate Fuel Oil	--	--	17,875	143	1,048	192	1,801	--	3,593	13,864	14,726
15 ppm sulfur and under	--	--	16,539	142	1,048	192	1,523	--	3,468	12,930	13,548
Greater than 15 ppm to 500 ppm sulfur	--	--	474	--	--	--	19	--	121	334	276
Greater than 500 ppm sulfur	--	--	862	1	--	--	259	--	4	600	902
Residual Fuel Oil ⁶	--	--	2,468	383	--	--	-348	--	292	2,907	4,120
Less than 0.31 percent sulfur	--	--	7	--	--	--	-72	--	NA	NA	261
0.31 to 1.00 percent sulfur	--	--	353	122	--	--	13	--	NA	NA	297
Greater than 1.00 percent sulfur	--	--	2,108	261	--	--	-291	--	NA	NA	3,554
Petrochemical Feedstocks	--	--	1	--	--	--	1	--	--	0	8
Naphtha for Petro. Feed. Use	--	--	1	--	--	--	1	--	--	0	8
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	23	--	--	--	15	--	--	8	46
Lubricants	--	--	527	7	--	--	132	--	311	91	858
Waxes	--	--	--	5	--	--	--	--	6	-1	--
Petroleum Coke	--	--	5,087	25	68	--	131	--	3,666	1,383	1,739
Marketable	--	--	4,056	25	68	--	131	--	3,666	352	1,739
Catalyst	--	--	1,031	--	--	--	--	--	--	1,031	--
Asphalt and Road Oil	--	--	765	91	648	--	569	--	31	904	2,468
Still Gas	--	--	3,623	--	--	--	--	--	--	3,623	--
Miscellaneous Products	--	--	506	--	--	--	33	--	0	473	109
Total	30,384	711	92,952	48,534	19,146	1,403	3,089	87,123	13,046	89,873	147,079

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

Table 22. PAD District 5 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-December 2019
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	336,314	--	--	463,288	65,537	25,824	6,771	877,447	6,745	0	51,917
Hydrocarbon Gas Liquids	20,055	-136	15,960	19,448	11,188	--	555	28,187	16,825	20,948	4,114
Natural Gas Liquids	20,055	-136	14,859	19,448	11,188	--	585	28,187	16,825	19,817	4,094
Ethane	17	--	--	--	--	--	--	--	3	14	--
Propane	3,482	--	12,474	11,960	4,170	--	260	--	10,328	21,498	1,673
Normal Butane	3,272	--	1,030	6,930	4,963	--	334	10,940	6,293	-1,372	1,992
Isobutane	4,130	--	1,355	558	2,055	--	-16	9,115	7	-1,008	388
Natural Gasoline	9,154	-136	--	--	--	--	7	8,132	194	685	41
Refinery Olefins	--	--	1,101	--	--	--	-30	--	--	1,131	20
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	1,835	--	--	--	2	--	--	1,833	14
Normal Butylene	--	--	-734	--	--	--	-32	--	--	-702	6
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	9,239	--	57,021	110,245	-8,498	2,573	151,937	6,934	6,565	54,290
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	9,239	--	11,320	53,930	7,635	-548	79,483	3,190	0	4,413
Hydrogen	--	--	--	--	--	14,970	--	14,970	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	6	--	--	6	0	--
Renewable Fuels (including Fuel Ethanol)	--	9,239	--	11,320	53,930	-7,341	-548	64,513	3,184	0	4,413
Fuel Ethanol	--	6,056	--	4,644	49,249	-502	-311	57,343	2,415	0	2,861
Renewable Fuels Except Fuel Ethanol	--	3,183	--	6,676	4,681	-6,839	-237	7,170	769	0	1,552
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	31,711	-161	--	-28	23,133	1,880	6,565	19,422
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	13,990	56,476	-16,133	3,149	49,321	1,863	0	30,455
Reformulated	--	--	--	2,569	26,880	5,259	2,357	32,330	21	0	15,121
Conventional	--	--	--	11,421	29,596	-21,392	792	16,991	1,842	0	15,334
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	1,106,928	59,695	25,548	18,204	867	--	125,399	1,084,109	36,758
Finished Motor Gasoline	--	--	572,689	5,647	5,070	16,635	617	--	14,334	585,090	2,701
Reformulated	--	--	403,435	--	--	-3,264	-1	--	--	400,172	13
Conventional	--	--	169,254	5,647	5,070	19,899	618	--	14,334	184,918	2,688
Finished Aviation Gasoline	--	--	385	34	--	--	-31	--	--	450	184
Kerosene-Type Jet Fuel	--	--	164,944	40,364	3,236	--	-167	--	9,519	199,192	9,755
Kerosene	--	--	103	--	--	--	-29	--	55	77	44
Distillate Fuel Oil	--	--	210,391	4,582	10,796	1,569	877	--	46,103	180,358	14,726
15 ppm sulfur and under	--	--	200,800	4,563	10,796	1,569	685	--	31,538	185,506	13,548
Greater than 15 ppm to 500 ppm sulfur	--	--	3,657	7	--	--	32	--	5,472	-1,840	276
Greater than 500 ppm sulfur	--	--	5,934	12	--	--	160	--	9,094	-3,308	902
Residual Fuel Oil ⁶	--	--	41,111	6,137	--	--	-394	--	10,354	37,288	4,120
Less than 0.31 percent sulfur	--	--	70	338	--	--	-1	--	NA	NA	261
0.31 to 1.00 percent sulfur	--	--	4,145	2,476	--	--	-170	--	NA	NA	297
Greater than 1.00 percent sulfur	--	--	36,896	3,323	--	--	-225	--	NA	NA	3,554
Petrochemical Feedstocks	--	--	24	373	--	--	3	--	--	394	8
Naphtha for Petro. Feed. Use	--	--	24	373	--	--	3	--	--	394	8
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	347	--	--	--	-11	--	--	358	46
Lubricants	--	--	6,089	593	-321	--	-411	--	3,590	3,182	858
Waxes	--	--	--	553	--	--	--	--	65	488	--
Petroleum Coke	--	--	54,489	311	-93	--	268	--	40,751	13,688	1,739
Marketable	--	--	42,282	311	-93	--	268	--	40,751	1,481	1,739
Catalyst	--	--	12,207	--	--	--	--	--	--	12,207	--
Asphalt and Road Oil	--	--	9,552	1,101	6,860	--	135	--	626	16,752	2,468
Still Gas	--	--	41,858	--	--	--	--	--	--	41,858	--
Miscellaneous Products	--	--	4,946	--	--	--	10	--	3	4,933	109
Total	356,369	9,103	1,122,888	599,452	212,519	35,530	10,766	1,057,571	155,903	1,111,622	147,079

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

Table 23. PAD District 5 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, December 2019
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	922	--	--	1,268	180	28	-16	2,415	--	0
Hydrocarbon Gas Liquids	58	0	-12	52	43	--	-43	98	26	61
Natural Gas Liquids	58	0	-19	52	43	--	-43	98	26	54
Ethane	0	--	--	--	--	--	--	--	0	0
Propane	9	--	37	31	11	--	-21	--	18	90
Normal Butane	13	--	-55	20	24	--	-21	53	8	-38
Isobutane	9	--	-1	2	8	--	-2	20	0	0
Natural Gasoline	27	0	--	--	--	--	0	25	0	2
Refinery Olefins	--	--	7	--	--	--	0	--	--	7
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	7	--	--	--	0	--	--	7
Normal Butylene	--	--	0	--	--	--	0	--	--	0
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	23	--	99	319	-23	53	298	30	38
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	23	--	33	165	-1	0	211	9	0
Hydrogen	--	--	--	--	--	42	--	42	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	23	--	33	165	-43	0	169	9	0
Fuel Ethanol	--	16	--	9	148	-12	0	151	9	0
Renewable Fuels Except Fuel Ethanol	--	7	--	24	18	-31	-1	18	1	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	66	-5	--	-18	40	2	38
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	--	158	-22	71	47	19	0
Reformulated	--	--	--	--	70	-2	31	37	0	0
Conventional	--	--	--	--	88	-20	39	10	19	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,011	146	75	40	106	--	364	2,801
Finished Motor Gasoline	--	--	1,524	3	12	34	-4	--	70	1,506
Reformulated	--	--	1,056	--	--	-15	0	--	--	1,042
Conventional	--	--	467	3	12	48	-4	--	70	465
Finished Aviation Gasoline	--	--	0	0	--	--	-1	--	--	1
Kerosene-Type Jet Fuel	--	--	490	121	7	--	36	--	39	544
Kerosene	--	--	1	--	--	--	0	--	0	0
Distillate Fuel Oil	--	--	577	5	34	6	58	--	116	447
15 ppm sulfur and under	--	--	534	5	34	6	49	--	112	417
Greater than 15 ppm to 500 ppm sulfur	--	--	15	--	--	--	1	--	4	11
Greater than 500 ppm sulfur	--	--	28	0	--	--	8	--	0	19
Residual Fuel Oil ⁶	--	--	80	12	--	--	-11	--	9	94
Less than 0.31 percent sulfur	--	--	0	--	--	--	-2	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	11	4	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	68	8	--	--	-9	--	NA	NA
Petrochemical Feedstocks	--	--	0	--	--	--	0	--	--	0
Naphtha for Petro. Feed. Use	--	--	0	--	--	--	0	--	--	0
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	1	--	--	--	0	--	--	0
Lubricants	--	--	17	0	--	--	4	--	10	3
Waxes	--	--	--	0	--	--	--	--	0	0
Petroleum Coke	--	--	164	1	2	--	4	--	118	45
Marketable	--	--	131	1	2	--	4	--	118	11
Catalyst	--	--	33	--	--	--	--	--	--	33
Asphalt and Road Oil	--	--	25	3	21	--	18	--	1	29
Still Gas	--	--	117	--	--	--	--	--	--	117
Miscellaneous Products	--	--	16	--	--	--	1	--	0	15
Total	980	23	2,998	1,566	618	45	100	2,810	421	2,899

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

Table 24. PAD District 5 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-December 2019
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	921	--	--	1,269	180	71	19	2,404	18	0
Hydrocarbon Gas Liquids	55	0	44	53	31	--	2	77	46	57
Natural Gas Liquids	55	0	41	53	31	--	2	77	46	54
Ethane	0	--	--	--	--	--	--	--	0	0
Propane	10	--	34	33	11	--	1	--	28	59
Normal Butane	9	--	3	19	14	--	1	30	17	-4
Isobutane	11	--	4	2	6	--	0	25	0	-3
Natural Gasoline	25	0	--	--	--	--	0	22	1	2
Refinery Olefins	--	--	3	--	--	--	0	--	--	3
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	5	--	--	--	0	--	--	5
Normal Butylene	--	--	-2	--	--	--	0	--	--	-2
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	25	--	156	302	-23	7	416	19	18
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	25	--	31	148	21	-2	218	9	0
Hydrogen	--	--	--	--	--	41	--	41	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	25	--	31	148	-20	-2	177	9	0
Fuel Ethanol	--	17	--	13	135	-1	-1	157	7	0
Renewable Fuels Except Fuel Ethanol	--	9	--	18	13	-19	-1	20	2	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	87	0	--	0	63	5	18
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	38	155	-44	9	135	5	0
Reformulated	--	--	--	7	74	14	6	89	0	0
Conventional	--	--	--	31	81	-59	2	47	5	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,033	164	70	50	2	--	344	2,970
Finished Motor Gasoline	--	--	1,569	15	14	46	2	--	39	1,603
Reformulated	--	--	1,105	--	--	-9	0	--	--	1,096
Conventional	--	--	464	15	14	55	2	--	39	507
Finished Aviation Gasoline	--	--	1	0	--	--	0	--	--	1
Kerosene-Type Jet Fuel	--	--	452	111	9	--	0	--	26	546
Kerosene	--	--	0	--	--	--	0	--	0	0
Distillate Fuel Oil	--	--	576	13	30	4	2	--	126	494
15 ppm sulfur and under	--	--	550	13	30	4	2	--	86	508
Greater than 15 ppm to 500 ppm sulfur	--	--	10	0	--	--	0	--	15	-5
Greater than 500 ppm sulfur	--	--	16	0	--	--	0	--	25	-9
Residual Fuel Oil ⁶	--	--	113	17	--	--	-1	--	28	102
Less than 0.31 percent sulfur	--	--	0	1	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	11	7	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	101	9	--	--	-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	--	--	17	2	-1	--	-1	--	10	9
Waxes	--	--	--	2	--	--	--	--	0	1
Petroleum Coke	--	--	149	1	0	--	1	--	112	38
Marketable	--	--	116	1	0	--	1	--	112	4
Catalyst	--	--	33	--	--	--	--	--	--	33
Asphalt and Road Oil	--	--	26	3	19	--	0	--	2	46
Still Gas	--	--	115	--	--	--	--	--	--	115
Miscellaneous Products	--	--	14	--	--	--	0	--	0	14
Total	976	25	3,076	1,642	582	97	29	2,897	427	3,046

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

Table 25. Crude Oil Supply, Disposition, and Ending Stocks by PAD District, December 2019
(Thousand Barrels, Except Where Noted)

Process	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Supply							
Field Production	2,274	69,523	264,784	30,993	28,582	396,156	12,779
Alaskan	--	--	--	--	--	14,922	481
Lower 48 States	--	--	--	--	--	381,234	12,298
Imports (PAD District of Entry)	15,925	96,894	47,360	12,259	39,313	211,751	6,831
Commercial	15,925	96,894	47,360	12,259	39,313	211,751	6,831
Strategic Petroleum Reserve (SPR)	--	--	--	--	--	--	--
Net Receipts	6,561	-32,232	42,083	-22,002	5,591	--	--
Adjustments ¹	-893	-10,151	24,305	-1,739	881	12,404	400
Disposition							
Stock Change ²	-1,052	-3,366	-8,564	-514	-496	-13,992	-451
Commercial	--	--	-8,564	--	--	-13,992	-451
SPR	--	--	0	--	--	0	0
Refinery Inputs	24,919	121,730	279,035	20,025	74,863	520,572	16,793
Exports	0	5,670	108,061	0	--	113,731	3,669
Ending Stocks							
Total	9,646	126,589	856,072	23,680	51,917	1,067,904	--
Commercial	9,646	126,589	221,105	23,680	51,917	432,937	--
Refinery	7,152	14,197	44,480	2,671	21,995	90,495	--
Tank Farms and Pipelines	2,494	112,392	176,625	21,009	24,138	336,658	--
Cushing, Oklahoma	--	35,866	--	--	--	35,866	--
Lease	--	--	--	--	--	--	--
Alaskan Crude Oil In-Transit by Water	--	--	--	--	5,784	5,784	--
SPR	--	--	634,967	--	--	634,967	--
SPR Stocks							
Percent of Total Crude Oil Stocks (Percent)	--	--	--	--	--	59.5	--
Percent of Total Petroleum Stocks (Percent)	--	--	--	--	--	33.0	--
Days of Total Petroleum Net Imports (Days)	--	--	--	--	--	--	--
SPR Receipts Detail							
Receipts	--	--	--	--	--	--	--
Domestic	--	--	--	--	--	--	--
Imports	--	--	--	--	--	--	--
Imported by SPR	--	--	--	--	--	--	--
Imported for SPR by Others	--	--	--	--	--	--	--
Imports							
PAD District of Entry	15,925	96,894	47,360	12,259	39,313	211,751	6,831
PAD District of Processing	17,617	87,556	57,032	9,600	39,946	211,751	6,831

-- = 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, December 2019
(Thousand Barrels)

PAD District and State	December 2019		January-December 2019	
	Total	Daily Average	Total	Daily Average
PAD District 1	2,274	73	24,837	68
Florida	147	5	1,784	5
New York	19	1	221	1
Pennsylvania	557	18	6,323	17
Virginia	0	0	4	0
West Virginia	1,551	50	16,506	45
PAD District 2	69,523	2,243	806,407	2,209
Illinois	736	24	8,243	23
Indiana	130	4	1,566	4
Kansas	2,718	88	32,979	90
Kentucky	430	14	2,505	7
Michigan	415	13	5,118	14
Missouri	7	0	82	0
Nebraska	161	5	1,951	5
North Dakota	44,547	1,437	512,263	1,403
Ohio	2,588	83	28,029	77
Oklahoma	17,672	570	212,305	582
South Dakota	100	3	1,164	3
Tennessee	18	1	201	1
PAD District 3	264,784	8,541	2,946,497	8,073
Alabama	407	13	4,810	13
Arkansas	387	12	4,657	13
Louisiana	3,702	119	43,884	120
Mississippi	1,442	47	17,102	47
New Mexico	32,835	1,059	339,311	930
Texas	165,835	5,350	1,849,172	5,066
Federal Offshore PAD District 3	60,176	1,941	687,560	1,884
PAD District 4	30,993	1,000	349,599	958
Colorado	16,654	537	187,499	514
Idaho	1	0	23	0
Montana	1,981	64	22,983	63
Utah	3,159	102	37,441	103
Wyoming	9,198	297	101,654	279
PAD District 5	28,582	922	336,314	921
Alaska	14,922	481	169,947	466
South Alaska	438	14	5,211	14
North Slope	14,484	467	164,737	451
Arizona	1	0	7	0
California	13,134	424	161,497	442
Nevada	24	1	261	1
Federal Offshore PAD District 5	501	16	4,602	13
U.S. Total	396,156	12,779	4,463,655	12,229

— = 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, December 2019
(Thousand Barrels)

Commodity	Production						
	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	14	18,276	18,290	5,813	9,889	16,615	32,317
Natural Gas Liquids	14	18,276	18,290	5,813	9,889	16,615	32,317
Ethane	-	7,031	7,031	1,982	2,051	6,290	10,323
Propane	5	6,509	6,514	2,418	3,992	5,667	12,077
Normal Butane	9	2,019	2,028	625	1,783	1,937	4,345
Isobutane	-	911	911	396	482	938	1,816
Natural Gasoline	-	1,806	1,806	392	1,581	1,783	3,756

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	69,299	4,296	6,276	569	7,092	87,532	14,152	1,802	154,093
Natural Gas Liquids	69,299	4,296	6,276	569	7,092	87,532	14,152	1,802	154,093
Ethane	29,619	1,563	2,381	118	2,715	36,396	3,406	1	57,157
Propane	21,614	1,467	2,121	165	2,354	27,721	5,390	284	51,986
Normal Butane	7,234	-3,224	730	68	717	5,525	2,081	396	14,375
Isobutane	4,108	4,065	417	61	546	9,197	1,108	275	13,307
Natural Gasoline	6,724	425	627	157	760	8,693	2,167	846	17,268

Commodity	Stocks						
	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	5	273	278	946	123	541	1,610
Natural Gas Liquids	5	273	278	946	123	541	1,610
Ethane	-	-	-	32	1	107	140
Propane	3	125	128	706	56	189	951
Normal Butane	2	57	59	76	22	87	185
Isobutane	-	14	14	63	3	91	157
Natural Gasoline	-	77	77	69	41	67	177

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	215	464	865	23	-	1,567	206	306	3,967
Natural Gas Liquids	215	464	865	23	-	1,567	206	306	3,967
Ethane	52	183	-	-	-	235	6	-	381
Propane	43	190	43	16	-	292	96	114	1,581
Normal Butane	24	70	601	5	-	700	43	147	1,134
Isobutane	69	17	74	-	-	160	18	12	361
Natural Gasoline	27	4	147	2	-	180	43	33	510

- = 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, December 2019
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	21,818	3,101	24,919	78,480	16,136	27,114	121,730
Hydrocarbon Gas Liquids	1,961	-	1,961	2,317	166	1,235	3,718
Natural Gas Liquids	1,961	-	1,961	2,317	166	1,235	3,718
Normal Butane	1,344	-	1,344	972	83	519	1,574
Isobutane	272	-	272	1,098	68	441	1,607
Natural Gasoline	345	-	345	247	15	275	537
Other Liquids	79,793	6,187	85,980	6,126	2,614	1,173	9,913
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	9,920	814	10,734	5,860	1,432	1,837	9,129
Hydrogen	102	13	115	799	281	216	1,296
Oxygenates (excluding Fuel Ethanol)	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE)	-	-	-	-	-	-	-
All Other Oxygenates ¹	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	9,818	801	10,619	5,041	1,151	1,621	7,813
Fuel Ethanol	9,473	733	10,206	4,842	1,115	1,561	7,518
Renewable Diesel Fuel ²	345	68	413	199	36	60	295
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	-	20	-	-	20
Unfinished Oils (net)	3,298	-81	3,217	-422	-131	532	-21
Naphthas and Lighter	706	-32	674	3	-213	69	-141
Kerosene and Light Gas Oils	833	-	833	-134	-67	106	-95
Heavy Gas Oils	1,167	-49	1,118	-127	149	189	211
Residuum	592	0	592	-164	-	168	4
Motor Gasoline Blend.Comp. (MGBC)(net)	66,575	5,454	72,029	688	1,313	-1,196	805
Reformulated - RBOB	18,015	-	18,015	-1,348	1,207	1,007	866
Conventional	48,560	5,454	54,014	2,036	106	-2,203	-61
CBOB	43,808	5,452	49,260	3,196	327	-2,365	1,158
GTAB	1,270	-	1,270	-	-	-	-
Other	3,482	2	3,484	-1,160	-221	162	-1,219
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input	103,572	9,288	112,860	86,923	18,916	29,522	135,361

See footnotes at end of table.

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

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	22,944	142,137	103,010	7,410	3,534	279,035	20,025	74,863	520,572
Hydrocarbon Gas Liquids	943	6,758	4,773	79	161	12,714	754	3,027	22,174
Natural Gas Liquids	943	6,758	4,773	79	161	12,714	754	3,027	22,174
Normal Butane	581	2,834	2,028	43	—	5,486	434	1,643	10,481
Isobutane	240	2,014	1,467	31	161	3,913	166	616	6,574
Natural Gasoline	122	1,910	1,278	5	—	3,315	154	768	5,119
Other Liquids	7,471	-41,245	-22,409	6,933	-554	-49,804	-1,060	9,233	54,262
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	2,164	3,175	2,320	1,136	226	9,021	1,135	6,550	36,569
Hydrogen	6	2,317	1,792	67	45	4,227	237	1,303	7,178
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	2,158	858	528	1,069	181	4,794	898	5,247	29,371
Fuel Ethanol	2,079	819	494	1,001	157	4,550	867	4,694	27,835
Renewable Diesel Fuel ²	79	39	34	68	24	244	31	546	1,529
Other Renewable Fuels	—	—	—	—	—	—	—	7	7
Other Hydrocarbons	—	—	—	—	—	—	—	—	20
Unfinished Oils (net)	-118	951	14,124	-232	-146	14,579	22	1,228	19,025
Naphthas and Lighter	149	-4,928	607	-68	-15	-4,255	-9	-347	-4,078
Kerosene and Light Gas Oils	-68	-633	2,152	41	-101	1,391	-98	-578	1,453
Heavy Gas Oils	-234	2,100	7,620	-131	-30	9,325	-3	568	11,219
Residuum	35	4,412	3,745	-74	—	8,118	132	1,585	10,431
Motor Gasoline Blend.Comp. (MGBC)(net)	5,398	-45,371	-38,856	6,029	-634	-73,434	-2,217	1,455	-1,362
Reformulated - RBOB	5,509	-9,372	-2,417	—	-696	-6,976	—	1,155	13,060
Conventional	-111	-35,999	-36,439	6,029	62	-66,458	-2,217	300	-14,422
CBOB	43	-32,342	-34,864	6,045	80	-61,038	-2,044	998	-11,666
GTAB	—	—	—	—	—	—	—	—	1,270
Other	-154	-3,657	-1,575	-16	-18	-5,420	-173	-698	-4,026
Aviation Gasoline Blend. Comp. (net)	27	—	3	—	—	30	—	—	30
Total Input	31,358	107,650	85,374	14,422	3,141	241,945	19,719	87,123	597,008

— = 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, December 2019
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	537	-38	499	1,437	-288	-228	921
Natural Gas Liquids	66	-38	28	526	-434	-403	-311
Ethane	-	-	-	-	-	-	-
Propane	507	27	534	1,674	292	468	2,434
Normal Butane	-418	-43	-461	-1,027	-664	-814	-2,505
Isobutane	-23	-22	-45	-121	-62	-57	-240
Natural Gasoline	-	-	-	-	-	-	-
Refinery Olefins	471	-	471	911	146	175	1,232
Ethylene	15	-	15	-	-	-	-
Propylene	497	-	497	903	146	177	1,226
Normal Butylene	-48	-	-48	8	-	-2	6
Isobutylene	7	-	7	-	-	-	-
Finished Motor Gasoline	90,978	7,400	98,378	51,221	10,957	16,654	78,832
Reformulated	39,281	82	39,363	8,357	1,633	1,119	11,109
Reformulated Blended with Fuel Ethanol	39,281	82	39,363	8,357	1,633	1,119	11,109
Reformulated Other	-	-	-	-	-	-	-
Conventional	51,697	7,318	59,015	42,864	9,324	15,535	67,723
Conventional Blended with Fuel Ethanol	54,624	7,276	61,900	39,780	9,304	14,076	63,160
Ed55 and Lower	54,589	7,276	61,865	39,769	9,277	14,010	63,056
Greater than Ed55	35	-	35	11	27	66	104
Conventional Other	-2,927	42	-2,885	3,084	20	1,459	4,563
Finished Aviation Gasoline	-	-	-	-	19	-	19
Kerosene-Type Jet Fuel	3,158	-	3,158	6,671	943	629	8,243
Kerosene	62	9	71	402	-	167	569
Distillate Fuel Oil	7,108	932	8,040	19,957	5,305	10,926	36,188
15 ppm sulfur and under	6,886	759	7,645	20,174	5,301	10,851	36,326
Greater than 15 ppm to 500 ppm sulfur	353	124	477	-	-	115	115
Greater than 500 ppm sulfur	-131	49	-82	-217	4	-40	-253
Residual Fuel Oil	725	4	729	1,094	238	124	1,456
Less than 0.31 percent sulfur	-75	3	-72	84	-	-	84
0.31 to 1.00 percent sulfur	524	1	525	188	151	-	339
Greater than 1.00 percent sulfur	276	-	276	822	87	124	1,033
Petrochemical Feedstocks	-	-	-	907	-	32	939
Naphtha for Petro. Feed. Use	-	-	-	554	-	-	554
Other Oils for Petro. Feed. Use	-	-	-	353	-	32	385
Special Naphthas	-	0	0	-37	-	11	-26
Lubricants	224	185	409	-	-	198	198
Waxes	-	6	6	-	-	26	26
Petroleum Coke	929	19	948	4,626	1,000	956	6,582
Marketable	409	-	409	3,529	814	728	5,071
Catalyst	520	19	539	1,097	186	228	1,511
Asphalt and Road Oil	279	693	972	2,826	1,153	191	4,170
Still Gas	994	50	1,044	2,730	656	1,111	4,497
Miscellaneous Products	64	24	88	321	119	55	495
Total	105,058	9,284	114,342	92,155	20,102	30,852	143,109
Processing Gain(-) or Loss(+) ¹	-1,486	4	-1,482	-5,232	-1,186	-1,330	-7,748

See footnotes at end of table.

Table 29. Refinery and Blender Net Production of Finished Petroleum Products by PAD and Refining Districts, December 2019
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	427	4,507	4,791	-29	0	9,696	44	-375	10,785
Natural Gas Liquids	14	1,293	1,961	-64	-11	3,193	-15	-596	2,299
Ethane	1	118	27	-	-	146	-	-	146
Propane	300	2,703	2,349	12	41	5,405	283	1,134	9,790
Normal Butane	-238	-875	-491	-76	-49	-1,729	-257	-1,708	-6,660
Isobutane	-49	-653	76	-	-3	-629	-41	-22	-977
Natural Gasoline	-	-	-	-	-	-	-	-	-
Refinery Olefins	413	3,214	2,830	35	11	6,503	59	221	8,486
Ethylene	-	-	-	-	-	-	-	-	15
Propylene	414	3,407	2,881	35	-	6,737	3	224	8,687
Normal Butylene	-1	-153	-57	-	11	-200	56	-3	-189
Isobutylene	-	-40	6	-	-	-34	-	-	-27
Finished Motor Gasoline	20,679	26,937	17,781	9,219	1,628	76,244	9,237	47,230	309,921
Reformulated	7,189	6,631	-	-	-	13,820	-	32,740	97,032
Reformulated Blended with Fuel Ethanol	7,189	6,631	-	-	-	13,820	-	32,740	97,032
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	13,490	20,306	17,781	9,219	1,628	62,424	9,237	14,490	212,889
Conventional Blended with Fuel Ethanol	13,310	1,535	4,933	9,953	1,588	31,319	8,652	13,923	178,954
Ed55 and Lower	13,289	1,535	4,933	9,941	1,588	31,286	8,638	13,902	178,747
Greater than Ed55	21	-	-	12	-	33	14	21	207
Conventional Other	180	18,771	12,848	-734	40	31,105	585	567	33,935
Finished Aviation Gasoline	85	140	144	-	-	369	2	1	391
Kerosene-Type Jet Fuel	1,513	15,700	13,599	170	0	30,982	1,005	15,202	58,590
Kerosene	12	37	13	29	-	91	-	19	750
Distillate Fuel Oil	7,518	45,133	39,058	2,499	1,322	95,530	6,950	17,875	164,583
15 ppm sulfur and under	7,497	43,316	31,665	2,411	1,322	86,211	6,934	16,539	153,655
Greater than 15 ppm to 500 ppm sulfur	21	82	3,113	96	-	3,312	85	474	4,463
Greater than 500 ppm sulfur	-	1,735	4,280	-8	-	6,007	-69	862	6,465
Residual Fuel Oil	385	343	2,311	17	83	3,139	403	2,468	8,195
Less than 0.31 percent sulfur	300	-	934	-	-	1,234	212	7	1,465
0.31 to 1.00 percent sulfur	-	38	388	17	-	443	38	353	1,698
Greater than 1.00 percent sulfur	85	305	989	-	83	1,462	153	2,108	5,032
Petrochemical Feedstocks	118	6,438	2,740	-	-	9,296	-	1	10,236
Naphtha for Petro. Feed. Use	107	4,403	1,702	-	-	6,212	-	1	6,767
Other Oils for Petro. Feed. Use	11	2,035	1,038	-	-	3,084	-	-	3,469
Special Naphthas	81	734	-	197	-	1,012	-	23	1,009
Lubricants	20	1,696	1,645	887	-	4,248	-	527	5,382
Waxes	-	43	38	19	-	100	-	-	132
Petroleum Coke	449	8,490	5,992	176	31	15,138	844	5,087	28,599
Marketable	216	6,387	4,674	161	-	11,438	611	4,056	21,585
Catalyst	233	2,103	1,318	15	31	3,700	233	1,031	7,014
Asphalt and Road Oil	234	554	247	1,064	56	2,155	1,255	765	9,317
Still Gas	726	6,465	4,380	260	95	11,926	711	3,623	21,801
Miscellaneous Products	122	1,018	572	21	25	1,758	115	506	2,962
Total	32,369	118,235	93,311	14,529	3,240	261,684	20,566	92,952	632,653
Processing Gain(-) or Loss(+) ¹	-1,011	-10,585	-7,937	-107	-99	-19,739	-847	-5,829	-35,645

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

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	21,818	3,101	24,919	78,480	16,136	27,114	121,730
Hydrocarbon Gas Liquids	639	-	639	2,145	68	740	2,953
Natural Gas Liquids	639	-	639	2,145	68	740	2,953
Normal Butane	367	-	367	804	-	152	956
Isobutane	272	-	272	1,098	68	441	1,607
Natural Gasoline	-	-	-	243	-	147	390
Other Liquids	-9,499	35	-9,464	-38,364	-5,812	-12,032	-56,208
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	174	154	328	1,073	455	359	1,887
Hydrogen	102	13	115	799	281	216	1,296
Oxygenates (excluding Fuel Ethanol)	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE)	-	-	-	-	-	-	-
All Other Oxygenates ¹	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	72	141	213	254	174	143	571
Fuel Ethanol	72	117	189	180	161	121	462
Renewable Diesel Fuel ²	-	24	24	74	13	22	109
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	-	20	-	-	20
Unfinished Oils (net)	3,298	-81	3,217	-515	-131	532	-114
Naphthas and Lighter	706	-32	674	3	-213	69	-141
Kerosene and Light Gas Oils	833	-	833	-134	-67	106	-95
Heavy Gas Oils	1,167	-49	1,118	-127	149	189	211
Residuum	592	0	592	-257	-	168	-89
Motor Gasoline Blend.Comp. (MGBC)(net)	-12,971	-38	-13,009	-38,922	-6,136	-12,923	-57,981
Reformulated - RBOB	-9,087	-	-9,087	-8,486	-242	-	-8,728
Conventional	-3,884	-38	-3,922	-30,436	-5,894	-12,923	-49,253
CBOB	-3,767	-40	-3,807	-29,258	-5,673	-13,085	-48,016
GTAB	-	-	-	-	-	-	-
Other	-117	2	-115	-1,178	-221	162	-1,237
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input to Refineries	12,958	3,136	16,094	42,261	10,392	15,822	68,475
Atmospheric Crude Oil Distillation							
Gross Input (daily average)	710	102	811	2,530	531	875	3,935
Operable Capacity (daily average)	1,126	98	1,224	2,678	547	923	4,147
Operable Utilization Rate (percent) ³	63.1	103.3	66.3	94.5	97.1	94.9	94.9
Downstream Processing							
Fresh Feed Input (daily average)							
Catalytic Reforming	119	17	136	445	69	159	674
Catalytic Cracking	281	15	296	759	123	222	1,104
Catalytic Hydrocracking	42	-	42	186	64	65	315
Delayed and Fluid Coking	58	-	58	369	75	89	533
Crude Oil Qualities							
Sulfur Content, Weighted Average (percent)	0.62	1.62	0.74	1.64	1.82	0.68	1.45
API Gravity, Weighted Average (degrees)	37.07	31.87	36.40	33.00	27.20	38.83	33.45
Operable Capacity (daily average)	1,126	98	1,224	2,678	547	923	4,147
Operating	791	98	889	2,473	509	923	3,905
Idle	335	-	335	205	38	-	243
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, December 2019
(Thousand Barrels, Except Where Noted) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	22,944	142,137	103,010	7,410	3,534	279,035	20,025	74,863	520,572
Hydrocarbon Gas Liquids	910	5,154	4,500	38	161	10,763	637	3,001	17,993
Natural Gas Liquids	910	5,154	4,500	38	161	10,763	637	3,001	17,993
Normal Butane	553	2,123	1,755	2	—	4,433	354	1,617	7,727
Isobutane	240	2,014	1,467	31	161	3,913	165	616	6,573
Natural Gasoline	117	1,017	1,278	5	—	2,417	118	768	3,693
Other Liquids	-10,545	-52,064	-25,257	-1,754	-1,742	-91,362	-5,539	-35,064	-197,637
Hydrogen/Oxygenates/Renewables/									
Other Hydrocarbons	284	2,367	2,010	133	92	4,886	522	1,651	9,274
Hydrogen	6	2,317	1,792	67	45	4,227	237	1,303	7,178
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	278	50	218	66	47	659	285	348	2,076
Fuel Ethanol	224	45	184	47	37	537	265	92	1,545
Renewable Diesel Fuel ²	54	5	34	19	10	122	20	256	531
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	—	—	—	—	—	20
Unfinished Oils (net)	-118	224	14,099	-232	-146	13,827	22	1,228	18,180
Naphthas and Lighter	149	-4,928	607	-68	-15	-4,255	-9	-347	-4,078
Kerosene and Light Gas Oils	-68	-1,360	2,110	41	-101	622	-98	-578	684
Heavy Gas Oils	-234	2,100	7,637	-131	-30	9,342	-3	568	11,236
Residium	35	4,412	3,745	-74	—	8,118	132	1,585	10,338
Motor Gasoline Blend.Comp. (MGBC)(net)	-10,738	-54,655	-41,369	-1,655	-1,688	-110,105	-6,083	-37,943	-225,121
Reformulated - RBOB	-969	-14,395	-2,417	—	-696	-18,477	—	-27,602	-63,894
Conventional	-9,769	-40,260	-38,952	-1,655	-992	-91,628	-6,083	-10,341	-161,227
CBOB	-9,615	-32,570	-35,428	-1,639	-971	-80,223	-5,909	-9,385	-147,340
GTAB	—	—	—	—	—	—	—	—	—
Other	-154	-7,690	-3,524	-16	-21	-11,405	-174	-956	-13,887
Aviation Gasoline Blend. Comp. (net)	27	—	3	—	—	30	—	—	30
Total Input to Refineries	13,309	95,227	82,253	5,694	1,953	198,436	15,123	42,800	340,928
Atmospheric Crude Oil Distillation									
Gross Input (daily average)	740	4,836	3,527	210	114	9,426	647	2,587	17,406
Operable Capacity (daily average)	745	5,042	3,696	256	136	9,876	687	2,875	18,808
Operable Utilization Rate (percent) ³	99.2	95.9	95.4	81.8	83.9	95.4	94.2	90.0	92.5
Downstream Processing									
Fresh Feed Input (daily average)									
Catalytic Reforming	153	685	596	34	25	1,494	102	381	2,786
Catalytic Cracking	175	1,315	989	18	28	2,526	163	615	4,704
Catalytic Hydrocracking	44	487	479	15	17	1,041	30	440	1,869
Delayed and Fluid Coking	28	801	548	32	—	1,410	70	479	2,550
Crude Oil Qualities									
Sulfur Content, Weighted Average (percent)	0.63	1.38	1.19	1.62	0.90	1.24	1.45	1.33	1.29
API Gravity, Weighted Average (degrees)	39.76	33.91	32.73	30.28	40.37	34.03	33.11	28.47	33.14
Operable Capacity (daily average)	745	5,042	3,696	256	136	9,876	687	2,875	18,808
Operating	745	5,042	3,696	256	136	9,876	677	2,875	18,221
Idle	—	—	—	—	—	—	10	—	587
Alaskan Crude Oil Receipts	—	—	—	—	—	—	—	13,254	13,254

— = 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, December 2019
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	537	-38	499	1,437	-288	-228	921
Natural Gas Liquids	66	-38	28	526	-434	-403	-311
Ethane	-	-	-	-	-	-	-
Propane	507	27	534	1,674	292	468	2,434
Normal Butane	-418	-43	-461	-1,027	-664	-814	-2,505
Isobutane	-23	-22	-45	-121	-62	-57	-240
Natural Gasoline	-	-	-	-	-	-	-
Refinery Olefins	471	-	471	911	146	175	1,232
Ethylene	15	-	15	-	-	-	-
Propylene	497	-	497	903	146	177	1,226
Normal Butylene	-48	-	-48	8	-	-2	6
Isobutylene	7	-	7	-	-	-	-
Finished Motor Gasoline	707	1,290	1,997	6,724	2,455	2,992	12,171
Reformulated	707	-	707	-	-	-	-
Reformulated Blended with Fuel Ethanol	707	-	707	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-
Conventional	-	1,290	1,290	6,724	2,455	2,992	12,171
Conventional Blended with Fuel Ethanol	-	1,220	1,220	1,836	1,693	1,255	4,784
Ed55 and Lower	-	1,220	1,220	1,836	1,693	1,255	4,784
Greater than Ed55	-	-	-	-	-	-	-
Conventional Other	-	70	70	4,888	762	1,737	7,387
Finished Aviation Gasoline	-	-	-	-	19	-	19
Kerosene-Type Jet Fuel	3,158	-	3,158	6,706	943	629	8,278
Kerosene	68	9	77	403	-	167	570
Distillate Fuel Oil	6,724	888	7,612	19,854	5,282	10,887	36,023
15 ppm sulfur and under	6,517	715	7,232	20,071	5,278	10,812	36,161
Greater than 15 ppm to 500 ppm sulfur	-4	124	120	-	-	19	19
Greater than 500 ppm sulfur	211	49	260	-217	4	56	-157
Residual Fuel Oil	759	4	763	1,094	238	124	1,456
Less than 0.31 percent sulfur	-38	3	-35	84	-	-	84
0.31 to 1.00 percent sulfur	524	1	525	188	151	-	339
Greater than 1.00 percent sulfur	273	-	273	822	87	124	1,033
Petrochemical Feedstocks	-	-	-	907	-	32	939
Naphtha for Petro. Feed. Use	-	-	-	554	-	-	554
Other Oils for Petro. Feed. Use	-	-	-	353	-	32	385
Special Naphthas	-	0	0	-37	-	11	-26
Lubricants	224	185	409	-	-	198	198
Waxes	-	6	6	-	-	26	26
Petroleum Coke	929	19	948	4,626	1,000	956	6,582
Marketable	409	-	409	3,529	814	728	5,071
Catalyst	520	19	539	1,097	186	228	1,511
Asphalt and Road Oil	279	693	972	2,733	1,153	191	4,077
Still Gas	994	50	1,044	2,730	656	1,111	4,497
Miscellaneous Products	64	24	88	321	119	55	495
Total	14,443	3,130	17,573	47,498	11,577	17,151	76,226
Processing Gain(-) or Loss(+) ¹	-1,485	6	-1,479	-5,237	-1,185	-1,329	-7,751

See footnotes at end of table.

Table 31. Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts, December 2019
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						Total	PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico					
Hydrocarbon Gas Liquids	427	4,507	4,791	-29	0	9,696	44	-375	10,785	
Natural Gas Liquids	14	1,293	1,961	-64	-11	3,193	-15	-596	2,299	
Ethane	1	118	27	-	-	146	-	-	146	
Propane	300	2,703	2,349	12	41	5,405	283	1,134	9,790	
Normal Butane	-238	-875	-491	-76	-49	-1,729	-257	-1,708	-6,660	
Isobutane	-49	-653	76	-	-3	-629	-41	-22	-977	
Natural Gasoline	-	-	-	-	-	-	-	-	-	
Refinery Olefins	413	3,214	2,830	35	11	6,503	59	221	8,486	
Ethylene	-	-	-	-	-	-	-	-	15	
Propylene	414	3,407	2,881	35	-	6,737	3	224	8,687	
Normal Butylene	-1	-153	-57	-	11	-200	56	-3	-189	
Isobutylene	-	-40	6	-	-	-34	-	-	-27	
Finished Motor Gasoline	2,653	15,272	14,686	540	454	33,605	4,653	3,201	55,627	
Reformulated	-	-	-	-	-	-	-	-	579	
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	579	1,286	
Reformulated Other	-	-	-	-	-	-	-	-	-	
Conventional	2,653	15,272	14,686	540	454	33,605	4,653	2,622	54,341	
Conventional Blended with Fuel Ethanol	2,257	446	1,841	507	367	5,418	2,699	335	14,456	
Ed55 and Lower	2,255	446	1,841	507	367	5,416	2,699	335	14,454	
Greater than Ed55	2	-	-	-	-	2	-	-	2	
Conventional Other	396	14,826	12,845	33	87	28,187	1,954	2,287	39,885	
Finished Aviation Gasoline	85	140	144	-	-	369	2	1	391	
Kerosene-Type Jet Fuel	1,513	15,709	13,591	170	-	30,983	943	15,226	58,588	
Kerosene	12	37	11	29	-	89	-	2	738	
Distillate Fuel Oil	7,495	45,028	39,151	2,451	1,307	95,432	7,000	17,582	163,649	
15 ppm sulfur and under	7,474	42,838	31,675	2,363	1,307	85,657	6,984	16,267	152,301	
Greater than 15 ppm to 500 ppm sulfur	21	532	3,113	96	-	3,762	85	474	4,460	
Greater than 500 ppm sulfur	-	1,658	4,363	-8	-	6,013	-69	841	6,888	
Residual Fuel Oil	385	-319	2,250	17	83	2,416	403	2,461	7,499	
Less than 0.31 percent sulfur	300	-	845	-	-	1,145	212	-	1,406	
0.31 to 1.00 percent sulfur	-	38	388	17	-	443	38	353	1,698	
Greater than 1.00 percent sulfur	85	-357	1,017	-	83	828	153	2,108	4,395	
Petrochemical Feedstocks	118	6,438	2,740	-	-	9,296	-	1	10,236	
Naphtha for Petro. Feed. Use	107	4,403	1,702	-	-	6,212	-	1	6,767	
Other Oils for Petro. Feed. Use	11	2,035	1,038	-	-	3,084	-	-	3,469	
Special Naphthas	81	734	-	197	-	1,012	-	23	1,009	
Lubricants	20	1,696	1,645	887	-	4,248	-	527	5,382	
Waxes	-	43	38	19	-	100	-	-	132	
Petroleum Coke	449	8,490	5,992	176	31	15,138	844	5,087	28,599	
Marketable	216	6,387	4,674	161	-	11,438	611	4,056	21,585	
Catalyst	233	2,103	1,318	15	31	3,700	233	1,031	7,014	
Asphalt and Road Oil	234	554	200	1,064	56	2,108	1,255	765	9,177	
Still Gas	726	6,465	4,380	260	95	11,926	711	3,623	21,801	
Miscellaneous Products	122	1,018	572	21	25	1,758	115	506	2,962	
Total	14,320	105,812	90,191	5,802	2,051	218,176	15,970	48,630	376,575	
Processing Gain(-) or Loss(+) ¹	-1,011	-10,585	-7,938	-108	-98	-19,740	-847	-5,830	-35,647	

- = 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, December 2019
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	1,322	-	1,322	172	98	495	765
Natural Gas Liquids	1,322	-	1,322	172	98	495	765
Normal Butane	977	-	977	168	83	367	618
Isobutane	-	-	-	-	-	-	-
Natural Gasoline	345	-	345	4	15	128	147
Other Liquids	89,292	6,152	95,444	44,490	8,426	13,205	66,121
Oxygenates/Renewables	9,746	660	10,406	4,787	977	1,478	7,242
Oxygenates (excluding Fuel Ethanol)	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE)	-	-	-	-	-	-	-
All Other Oxygenates ¹	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	9,746	660	10,406	4,787	977	1,478	7,242
Fuel Ethanol	9,401	616	10,017	4,662	954	1,440	7,056
Renewable Diesel Fuel ²	345	44	389	125	23	38	186
Other Renewable Fuels	-	-	-	-	-	-	-
Unfinished Oils (net)	-	-	-	93	-	-	93
Naphthas and Lighter	-	-	-	-	-	-	-
Kerosene and Light Gas Oils	-	-	-	-	-	-	-
Heavy Gas Oils	-	-	-	-	-	-	-
Residuum	-	-	-	93	-	-	93
Motor Gasoline Blend.Comp. (MGBC)(net)	79,546	5,492	85,038	39,610	7,449	11,727	58,786
Reformulated - RBOB	27,102	-	27,102	7,138	1,449	1,007	9,594
Conventional	52,444	5,492	57,936	32,472	6,000	10,720	49,192
CBOB	47,575	5,492	53,067	32,454	6,000	10,720	49,174
GTAB	1,270	-	1,270	-	-	-	-
Other	3,599	-	3,599	18	-	-	18
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input	90,614	6,152	96,766	44,662	8,524	13,700	66,886

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	33	1,604	273	41	-	1,951	117	26	4,181
Natural Gas Liquids	33	1,604	273	41	-	1,951	117	26	4,181
Normal Butane	28	711	273	41	-	1,053	80	26	2,754
Isobutane	-	-	-	-	-	-	1	-	1
Natural Gasoline	5	893	-	-	-	898	36	-	1,426
Other Liquids	18,016	10,819	2,848	8,687	1,188	41,558	4,479	44,297	251,899
Oxygenates/Renewables	1,880	808	310	1,003	134	4,135	613	4,899	27,295
Oxygenates (excluding Fuel Ethanol)	-	-	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE)	-	-	-	-	-	-	-	-	-
All Other Oxygenates ¹	-	-	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	1,880	808	310	1,003	134	4,135	613	4,899	27,295
Fuel Ethanol	1,855	774	310	954	120	4,013	602	4,602	26,290
Renewable Diesel Fuel ²	25	34	-	49	14	122	11	290	998
Other Renewable Fuels	-	-	-	-	-	-	-	7	7
Unfinished Oils (net)	-	727	25	-	-	752	-	-	845
Naphthas and Lighter	-	-	-	-	-	-	-	-	-
Kerosene and Light Gas Oils	-	727	42	-	-	769	-	-	769
Heavy Gas Oils	-	-	-17	-	-	-17	-	-	-17
Residuum	-	-	-	-	-	-	-	-	93
Motor Gasoline Blend.Comp. (MGBC)(net)	16,136	9,284	2,513	7,684	1,054	36,671	3,866	39,398	223,759
Reformulated - RBOB	6,478	5,023	-	-	-	11,501	-	28,757	76,954
Conventional	9,658	4,261	2,513	7,684	1,054	25,170	3,866	10,641	146,805
CBOB	9,658	228	564	7,684	1,051	19,185	3,865	10,383	135,674
GTAB	-	-	-	-	-	-	-	-	1,270
Other	-	4,033	1,949	-	3	5,985	1	258	9,861
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-	-	-
Total Input	18,049	12,423	3,121	8,728	1,188	43,509	4,596	44,323	256,080

- = 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, December 2019
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Finished Motor Gasoline	90,271	6,110	96,381	44,497	8,502	13,662	66,661
Reformulated	38,574	82	38,656	8,357	1,633	1,119	11,109
Reformulated Blended with Fuel Ethanol	38,574	82	38,656	8,357	1,633	1,119	11,109
Reformulated Other	-	-	-	-	-	-	-
Conventional	51,697	6,028	57,725	36,140	6,869	12,543	55,552
Conventional Blended with Fuel Ethanol	54,624	6,056	60,680	37,944	7,611	12,821	58,376
Ed55 and Lower	54,589	6,056	60,645	37,933	7,584	12,755	58,272
Greater than Ed55	35	-	35	11	27	66	104
Conventional Other	-2,927	-28	-2,955	-1,804	-742	-278	-2,824
Finished Aviation Gasoline	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	0	-	0	-35	-	0	-35
Kerosene	-6	-	-6	-1	-	-	-1
Distillate Fuel Oil	384	44	428	103	23	39	165
15 ppm sulfur and under	369	44	413	103	23	39	165
Greater than 15 ppm to 500 ppm sulfur	357	-	357	-	-	96	96
Greater than 500 ppm sulfur	-342	-	-342	-	-	-96	-96
Residual Fuel Oil	-34	-	-34	-	-	-	-
Less than 0.31 percent sulfur	-37	-	-37	-	-	-	-
0.31 to 1.00 percent sulfur	-	-	-	-	-	-	-
Greater than 1.00 percent sulfur	3	-	3	-	-	-	-
Special Naphthas	-	-	-	-	-	-	-
Lubricants	-	-	-	-	-	-	-
Asphalt and Road Oil	-	-	-	93	-	-	93
Miscellaneous Products	-	-	-	-	-	-	-
Total Production	90,615	6,154	96,769	44,657	8,525	13,701	66,883
Processing Gain(-) or Loss(+) ¹	-1	-2	-3	5	-1	-1	3

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Finished Motor Gasoline	18,026	11,665	3,095	8,679	1,174	42,639	4,584	44,029	254,294
Reformulated	7,189	6,631	-	-	-	13,820	-	32,161	95,746
Reformulated Blended with Fuel Ethanol	7,189	6,631	-	-	-	13,820	-	32,161	95,746
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	10,837	5,034	3,095	8,679	1,174	28,819	4,584	11,868	158,548
Conventional Blended with Fuel Ethanol	11,053	1,089	3,092	9,446	1,221	25,901	5,953	13,588	164,498
Ed55 and Lower	11,034	1,089	3,092	9,434	1,221	25,870	5,939	13,567	164,293
Greater than Ed55	19	-	-	12	-	31	14	21	205
Conventional Other	-216	3,945	3	-767	-47	2,918	-1,369	-1,720	-5,950
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	0	-9	8	-	0	-1	62	-24	2
Kerosene	-	-	2	-	-	2	-	17	12
Distillate Fuel Oil	23	105	-93	48	15	98	-50	293	934
15 ppm sulfur and under	23	478	-10	48	15	554	-50	272	1,354
Greater than 15 ppm to 500 ppm sulfur	-	-450	-	-	-	-450	-	-	3
Greater than 500 ppm sulfur	-	77	-83	-	-	-6	-	21	-423
Residual Fuel Oil	-	662	61	-	-	723	-	7	696
Less than 0.31 percent sulfur	-	-	89	-	-	89	-	7	59
0.31 to 1.00 percent sulfur	-	-	-	-	-	-	-	-	-
Greater than 1.00 percent sulfur	-	662	-28	-	-	634	-	-	637
Special Naphthas	-	-	-	-	-	-	-	-	-
Lubricants	-	-	-	-	-	-	-	-	-
Asphalt and Road Oil	-	-	47	-	-	47	-	-	140
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total Production	18,049	12,423	3,120	8,727	1,189	43,508	4,596	44,322	256,078
Processing Gain(-) or Loss(+) ¹	0	0	1	1	-1	1	0	1	2

- = 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, December 2019
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	6,548	604	7,152	9,987	2,215	1,995	14,197
Petroleum Products	12,531	2,286	14,817	29,250	7,614	11,460	48,324
Hydrocarbon Gas Liquids	643	20	663	2,124	313	1,505	3,942
Natural Gas Liquids	335	20	355	1,850	294	1,494	3,638
Ethane	—	—	—	—	—	—	—
Propane	95	2	97	478	36	635	1,149
Normal Butane	132	10	142	1,079	212	253	1,544
Isobutane	108	8	116	231	46	320	597
Natural Gasoline	—	—	—	62	—	286	348
Refinery Olefins	308	0	308	274	19	11	304
Ethylene	—	—	—	—	—	—	—
Propylene	151	0	151	260	19	5	284
Normal Butylene	142	0	142	14	0	6	20
Isobutylene	15	0	15	0	0	0	0
Oxygenates/Renewable Fuels/Other Hydrocarbons	170	97	267	51	72	31	154
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	170	97	267	41	72	31	144
Fuel Ethanol	170	90	260	22	58	26	106
Renewable Diesel Fuel ²	—	7	7	19	14	5	38
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	10	—	—	10
Unfinished Oils	3,615	412	4,027	7,929	1,109	3,924	12,962
Naphthas and Lighter	958	252	1,210	2,272	221	1,034	3,527
Kerosene and Light Gas Oils	640	—	640	1,789	254	444	2,487
Heavy Gas Oils	1,409	154	1,563	2,536	630	1,734	4,900
Residuum	608	6	614	1,332	4	712	2,048
Motor Gasoline Blending Components (MGBC)	3,963	242	4,205	8,307	1,990	2,895	13,192
Reformulated - RBOB	1,216	—	1,216	1,178	—	—	1,178
Conventional	2,747	242	2,989	7,129	1,990	2,895	12,014
CBOB	263	210	473	2,473	1,014	1,860	5,347
GTAB	—	—	—	—	—	—	—
Other	2,484	32	2,516	4,656	976	1,035	6,667
Aviation Gasoline Blending Components	—	—	—	—	—	—	—
Finished Motor Gasoline	—	38	38	998	260	294	1,552
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	—	38	38	998	260	294	1,552
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	—	38	38	998	260	294	1,552
Finished Aviation Gasoline	—	—	—	—	66	—	66
Kerosene-Type Jet Fuel	650	—	650	1,203	304	224	1,731
Kerosene	126	5	131	130	—	89	219
Distillate Fuel Oil	1,810	291	2,101	3,922	1,065	1,740	6,727
15 ppm sulfur and under	1,159	91	1,250	3,733	922	1,452	6,107
Greater than 15 ppm to 500 ppm sulfur	132	182	314	—	10	132	142
Greater than 500 ppm sulfur	519	18	537	189	133	156	478
Residual Fuel Oil	748	12	760	687	196	52	935
Less than 0.31 percent sulfur	265	10	275	60	—	—	60
0.31 to 1.00 percent sulfur	128	2	130	161	26	—	187
Greater than 1.00 percent sulfur	355	—	355	466	170	52	688
Petrochemical Feedstocks	45	—	45	520	—	—	520
Naphtha for Petro. Feed. Use	45	—	45	424	—	—	424
Other Oils for Petro. Feed. Use	—	—	—	96	—	—	96
Special Naphthas	—	15	15	78	—	16	94
Lubricants	599	256	855	—	—	212	212
Waxes	—	409	409	—	—	41	41
Petroleum Coke	—	—	—	804	1,073	199	2,076
Marketable	—	—	—	804	1,073	199	2,076
Catalyst	—	—	—	—	—	—	—
Asphalt and Road Oil	149	469	618	2,423	1,143	234	3,800
Miscellaneous Products	13	20	33	74	23	4	101
Total Stocks, All Oils	19,079	2,890	21,969	39,237	9,829	13,455	62,521

See footnotes at end of table.

Table 34. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, December 2019
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	1,982	24,081	16,965	1,114	338	44,480	2,671	21,995	90,495
Petroleum Products	10,907	59,452	51,639	4,553	1,481	128,032	11,978	51,887	255,038
Hydrocarbon Gas Liquids	2,092	2,105	4,744	14	61	9,016	451	1,631	15,703
Natural Gas Liquids	1,526	1,975	3,188	13	55	6,757	376	1,611	12,737
Ethane	114	—	—	—	—	114	—	—	114
Propane	311	368	207	2	4	892	46	132	2,316
Normal Butane	733	1,377	1,852	6	22	3,990	232	1,100	7,008
Isobutane	304	206	944	5	11	1,470	84	376	2,643
Natural Gasoline	64	24	185	—	18	291	14	3	656
Refinery Olefins	566	130	1,556	1	6	2,259	75	20	2,966
Ethylene	0	—	—	—	—	0	—	—	0
Propylene	559	53	611	1	0	1,224	0	14	1,673
Normal Butylene	7	77	940	0	6	1,030	75	6	1,273
Isobutylene	0	0	5	0	0	5	0	0	20
Oxygenates/Renewable Fuels/Other Hydrocarbons ...	46	54	201	90	15	406	206	315	1,348
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	46	54	201	90	15	406	206	315	1,338
Fuel Ethanol	39	27	73	34	12	185	148	31	730
Renewable Diesel Fuel ²	7	27	128	56	3	221	58	284	608
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	—	—	—	—	—	10
Unfinished Oils	2,841	20,773	16,551	1,124	615	41,904	3,181	18,866	80,940
Naphthas and Lighter	1,163	6,314	2,068	326	182	10,053	755	3,346	18,891
Kerosene and Light Gas Oils	423	3,534	2,059	247	201	6,464	569	3,141	13,301
Heavy Gas Oils	728	8,432	9,130	482	232	19,004	1,414	9,623	36,504
Residuum	527	2,493	3,294	69	—	6,383	443	2,756	12,244
Motor Gasoline Blending Components (MGBC)	3,256	12,594	13,176	374	417	29,817	3,609	14,294	65,117
Reformulated - RBOB	183	1,125	327	—	—	1,635	—	5,366	9,395
Conventional	3,073	11,469	12,849	374	417	28,182	3,609	8,928	55,722
CBOB	1,552	3,425	6,216	258	99	11,550	2,001	2,053	21,424
GTAB	—	—	—	—	—	—	—	—	—
Other	1,521	8,044	6,633	116	318	16,632	1,608	6,875	34,298
Aviation Gasoline Blending Components	32	—	10	—	—	42	—	—	42
Finished Motor Gasoline	184	1,131	1,180	9	—	2,504	928	975	5,997
Reformulated	—	—	—	—	—	—	—	13	13
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	13	13
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	184	1,131	1,180	9	—	2,504	928	962	5,984
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	63	—	63
Ed55 and Lower	—	—	—	—	—	—	63	—	63
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	184	1,131	1,180	9	—	2,504	865	962	5,921
Finished Aviation Gasoline	47	231	181	—	—	459	8	111	644
Kerosene-Type Jet Fuel	354	3,506	2,454	125	—	6,439	301	3,915	13,036
Kerosene	41	5	107	4	—	157	1	3	511
Distillate Fuel Oil	1,267	7,339	7,079	354	170	16,209	2,124	6,403	33,564
15 ppm sulfur and under	1,229	6,052	5,400	195	170	13,046	1,929	5,631	27,963
Greater than 15 ppm to 500 ppm sulfur	38	137	874	73	—	1,122	108	276	1,962
Greater than 500 ppm sulfur	—	1,150	805	86	—	2,041	87	496	3,639
Residual Fuel Oil	115	2,183	1,104	20	78	3,500	257	1,898	7,350
Less than 0.31 percent sulfur	10	—	21	—	—	31	33	—	399
0.31 to 1.00 percent sulfur	—	103	88	20	—	211	17	144	689
Greater than 1.00 percent sulfur	105	2,080	995	—	78	3,258	207	1,754	6,262
Petrochemical Feedstocks	97	1,746	735	3	—	2,581	—	8	3,154
Naphtha for Petro. Feed. Use	21	1,003	695	3	—	1,722	—	8	2,199
Other Oils for Petro. Feed. Use	76	743	40	—	—	859	—	—	955
Special Naphthas	100	701	—	162	—	963	—	46	1,118
Lubricants	72	2,766	2,281	978	—	6,097	—	650	7,814
Waxes	—	61	132	83	—	276	—	—	726
Petroleum Coke	33	3,784	1,238	—	—	5,055	189	1,739	9,059
Marketable	33	3,784	1,238	—	—	5,055	189	1,739	9,059
Catalyst	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	314	225	347	1,213	99	2,198	706	924	8,246
Miscellaneous Products	16	248	119	—	26	409	17	109	669
Total Stocks, All Oils	12,889	83,533	68,604	5,667	1,819	172,512	14,649	73,882	345,533

— = 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, December 2019

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	2.1	-1.3	1.8	1.8	-1.8	-0.8	0.8
Finished Motor Gasoline ¹	51.4	39.9	50.2	55.0	51.3	54.0	54.3
Finished Aviation Gasoline ²	-	-	-	-	0.1	-	0.0
Kerosene-Type Jet Fuel	12.5	-	11.2	8.5	5.8	2.3	6.7
Kerosene	0.3	0.3	0.3	0.5	-	0.6	0.5
Distillate Fuel Oil ³	26.7	28.5	26.9	25.1	32.4	39.0	29.2
Residual Fuel Oil	3.0	0.1	2.7	1.4	1.5	0.5	1.2
Naphtha for Petro. Feed. Use	-	-	-	0.7	-	-	0.5
Other Oils for Petro. Feed. Use	-	-	-	0.5	-	0.1	0.3
Special Naphthas	-	0.0	0.0	-0.1	-	0.0	0.0
Lubricants	0.9	6.1	1.5	-	-	0.7	0.2
Waxes	-	0.2	0.0	-	-	0.1	0.0
Petroleum Coke	3.7	0.6	3.4	5.9	6.1	3.4	5.4
Asphalt and Road Oil	1.1	22.9	3.4	3.5	7.1	0.7	3.3
Still Gas	3.9	1.7	3.7	3.5	4.0	4.0	3.7
Miscellaneous Products	0.3	0.8	0.3	0.4	0.7	0.2	0.4
Processing Gain(-) or Loss(+) ⁴	-5.9	0.1	-5.3	-6.6	-7.3	-4.8	-6.3

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	1.9	3.1	4.0	-0.4	0.0	3.3	0.2	-0.5	2.0
Finished Motor Gasoline ¹	53.7	44.7	43.2	29.1	56.6	44.6	48.5	49.2	47.9
Finished Aviation Gasoline ²	0.3	0.1	0.1	-	-	0.1	0.0	0.0	0.1
Kerosene-Type Jet Fuel	6.6	10.9	11.4	2.4	-	10.4	4.7	19.7	10.7
Kerosene	0.1	0.0	0.0	0.4	-	0.0	-	0.0	0.1
Distillate Fuel Oil ³	32.6	31.1	32.9	33.6	37.8	32.1	34.4	22.4	29.9
Residual Fuel Oil	1.7	-0.2	1.9	0.2	2.4	0.8	2.0	3.2	1.4
Naphtha for Petro. Feed. Use	0.5	3.0	1.4	-	-	2.1	-	0.0	1.2
Other Oils for Petro. Feed. Use	0.1	1.4	0.9	-	-	1.0	-	-	0.6
Special Naphthas	0.4	0.5	-	2.7	-	0.3	-	0.0	0.2
Lubricants	0.1	1.2	1.4	12.2	-	1.4	-	0.7	1.0
Waxes	-	0.0	0.0	0.3	-	0.0	-	-	0.0
Petroleum Coke	2.0	5.9	5.0	2.4	0.9	5.1	4.2	6.6	5.2
Asphalt and Road Oil	1.0	0.4	0.2	14.7	1.6	0.7	6.2	1.0	1.7
Still Gas	3.2	4.5	3.7	3.6	2.8	4.0	3.5	4.7	4.0
Miscellaneous Products	0.5	0.7	0.5	0.0	1.0	0.6	0.6	0.7	0.5
Processing Gain(-) or Loss(+) ⁴	-4.4	-7.3	-6.7	-1.5	-2.9	-6.6	-4.2	-7.5	-6.5

- = No Data Reported.

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

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

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

⁴ Represents the arithmetic difference between input and production.

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

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

Note: Refer to Appendix A for Refining District descriptions.

Source: Calculated from data on Tables 30 and 31.

Table 36. Imports of Residual Fuel Oil by Sulfur Content and by PAD District and State of Entry, December 2019
(Thousand Barrels)

PAD District and State of Entry	Residual Fuel Oil		
	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
PAD District 1	1,363	467	1,830
Connecticut	-	-	-
Delaware	-	-	-
Florida	251	50	301
Georgia	-	83	83
Maine	-	-	-
Maryland	-	-	-
Massachusetts	-	-	-
New Hampshire	-	-	-
New Jersey	602	224	826
New York	165	110	275
North Carolina	-	-	-
Pennsylvania	343	-	343
Rhode Island	-	-	-
South Carolina	-	-	-
Vermont	2	-	2
Virginia	-	-	-
West Virginia	-	-	-
PAD District 2	45	70	115
Illinois	-	-	-
Indiana	-	-	-
Michigan	-	70	70
Minnesota	18	-	18
North Dakota	27	-	27
Ohio	-	-	-
Wisconsin	-	-	-
PAD District 3	536	2,239	2,775
Alabama	-	-	-
Louisiana	236	86	322
Mississippi	-	-	-
New Mexico	-	-	-
Texas	300	2,153	2,453
PAD District 4	-	-	-
Idaho	-	-	-
Montana	-	-	-
PAD District 5	122	261	383
Alaska	-	-	-
California	-	261	261
Hawaii	-	-	-
Oregon	-	-	-
Washington	122	-	122
U.S. Total	2,066	3,037	5,103

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

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil^{1,2}	17,617	87,556	57,032	9,600	39,946	211,751	6,831
Hydrocarbon Gas Liquids	1,820	2,253	58	489	1,626	6,246	201
Natural Gas Liquids	1,571	1,975	30	489	1,626	5,691	184
Ethane	—	—	—	—	—	—	—
Propane	1,417	1,384	—	442	955	4,198	135
Normal Butane	59	506	—	16	623	1,204	39
Isobutane	95	80	30	31	48	284	9
Natural Gasoline	—	5	—	—	—	5	0
Refinery Olefins	249	278	28	—	—	555	18
Ethylene	—	—	—	—	—	—	—
Propylene	249	210	—	—	—	459	15
Normal Butylene	—	68	28	—	—	96	3
Isobutylene	—	—	—	—	—	—	—
Other Liquids	18,214	456	19,164	69	3,077	40,980	1,322
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	266	64	443	31	1,026	1,830	59
Hydrogen	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol)	—	—	438	—	—	438	14
Methyl Tertiary Butyl Ether (MTBE)	—	—	303	—	—	303	10
Other Oxygenates ³	—	—	135	—	—	135	4
Renewable Fuels (including Fuel Ethanol)	266	64	—	31	1,026	1,387	45
Fuel Ethanol	—	—	—	—	269	269	9
Biodiesel	266	64	—	31	72	433	14
Other Renewable Diesel Fuel	—	—	—	—	685	685	22
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	5	—	—	5	0
Unfinished Oils ¹	3,310	—	17,500	—	2,051	22,861	737
Naphthas and Lighter	1,145	—	—	—	—	1,145	37
Kerosene and Lighter Gas Oils	—	—	39	—	—	39	1
Heavy Gas Oils	2,165	—	6,743	—	970	9,878	319
Residuum	—	—	10,718	—	1,081	11,799	381
Motor Gasoline Blend.Comp. (MGBC)	14,638	392	1,221	38	—	16,289	525
Reformulated - RBOB	6,617	—	—	—	—	6,617	213
Conventional	8,021	392	1,221	38	—	9,672	312
CBOB	1,092	62	—	—	—	1,154	37
GTAB	923	—	—	—	—	923	30
Other	6,006	330	1,221	38	—	7,595	245
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	14,664	1,078	4,975	141	4,518	25,376	819
Finished Motor Gasoline	1,730	—	84	—	99	1,913	62
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	1,730	—	84	—	99	1,913	62
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	1,730	—	84	—	99	1,913	62
Finished Aviation Gasoline	1	3	18	1	1	24	1
Kerosene-Type Jet Fuel	1,526	—	—	—	3,764	5,290	171
Bonded Aircraft Fuel	383	—	—	—	1,937	2,320	75
Other	1,143	—	—	—	1,827	2,970	96
Kerosene	—	—	—	—	—	—	—
Distillate Fuel Oil	8,682	209	—	98	143	9,132	295
15 ppm sulfur and under	8,636	192	—	98	142	9,068	293
Bonded	—	—	—	—	—	—	—
Other	8,636	192	—	98	142	9,068	293
Greater than 15 ppm to 500 ppm sulfur	39	—	—	—	—	39	1
Bonded	—	—	—	—	—	—	—
Other	39	—	—	—	—	39	1
Greater than 500 ppm to 2000 ppm sulfur	7	17	—	—	1	25	1
Bonded	—	—	—	—	—	—	—
Other	7	17	—	—	1	25	1
Greater than 2000 ppm	—	—	—	—	—	—	—
Bonded	—	—	—	—	—	—	—
Other	—	—	—	—	—	—	—
Residual Fuel Oil	1,830	115	2,775	—	383	5,103	165
Less than 0.31 percent sulfur	—	—	—	—	—	—	—
0.31 to 1.00 percent sulfur	1,363	45	536	—	122	2,066	67
Greater than 1.00 percent sulfur	467	70	2,239	—	261	3,037	98
Petrochemical Feedstocks	1	180	320	—	—	501	16
Naphtha for Petro. Feed. Use	1	110	300	—	—	411	13
Other Oils for Petro. Feed. Use	—	70	20	—	—	90	3
Special Naphthas	—	5	439	—	—	444	14
Lubricants	155	119	1,195	—	7	1,476	48
Waxes	74	7	24	—	5	110	4
Petroleum Coke (Marketable)	2	19	120	—	25	166	5
Asphalt and Road Oil	663	421	—	41	91	1,216	39
Miscellaneous Products	—	—	—	1	—	1	0
Total	52,315	91,343	81,229	10,299	49,167	284,353	9,173

— = 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-December 2019
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil^{1,2}	253,825	929,891	712,933	111,976	471,541	2,480,166	6,795
Hydrocarbon Gas Liquids	17,311	31,208	1,250	4,528	19,448	73,745	202
Natural Gas Liquids	14,315	28,002	30	4,528	19,448	66,323	182
Ethane	-	-	-	-	-	-	-
Propane	11,874	19,672	-	3,700	11,960	47,206	129
Normal Butane	705	6,309	-	595	6,930	14,539	40
Isobutane	1,736	1,961	30	233	558	4,518	12
Natural Gasoline	-	60	-	-	-	60	0
Refinery Olefins	2,996	3,206	1,220	-	-	7,422	20
Ethylene	-	-	-	-	-	-	-
Propylene	2,996	2,465	-	-	-	5,461	15
Normal Butylene	-	711	1,220	-	-	1,931	5
Isobutylene	-	-	-	-	-	30	0
Other Liquids	234,000	4,376	205,312	1,529	57,021	502,238	1,376
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	1,963	995	2,040	219	11,320	16,537	45
Hydrogen	-	-	-	-	-	-	-
Oxygenates (excluding Fuel Ethanol)	-	-	1,704	-	-	1,704	5
Methyl Tertiary Butyl Ether (MTBE)	-	-	587	-	-	587	2
Other Oxygenates ³	-	-	1,117	-	-	1,117	3
Renewable Fuels (including Fuel Ethanol)	1,963	995	292	219	11,320	14,789	41
Fuel Ethanol	-	-	-	-	4,644	4,644	13
Biodiesel	1,963	995	292	219	533	4,002	11
Other Renewable Diesel Fuel	-	-	-	-	6,143	6,143	17
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	44	-	-	44	0
Unfinished Oils ¹	22,559	315	180,780	-	31,711	235,365	645
Naphthas and Lighter	6,792	88	2,897	-	684	10,461	29
Kerosene and Lighter Gas Oils	-	-	304	-	-	304	1
Heavy Gas Oils	15,767	227	102,246	-	27,250	145,490	399
Residuum	-	-	75,333	-	3,777	79,110	217
Motor Gasoline Blend Comp. (MGBC)	209,478	3,066	22,492	1,310	13,990	250,336	686
Reformulated - RBOB	66,958	-	581	-	2,569	70,108	192
Conventional	142,520	3,066	21,911	1,310	11,421	180,228	494
CBOB	13,027	694	-	-	1,658	15,379	42
GTAB	32,269	-	907	-	607	33,783	93
Other	97,224	2,372	21,004	1,310	9,156	131,066	359
Aviation Gasoline Blend Comp.	-	-	-	-	-	-	-
Finished Petroleum Products	144,448	11,361	47,046	2,023	59,695	264,573	725
Finished Motor Gasoline	23,089	1	869	72	5,647	29,678	81
Reformulated	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-
Conventional	23,089	1	869	72	5,647	29,678	81
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-
Conventional Other	23,089	1	869	72	5,647	29,678	81
Finished Aviation Gasoline	125	44	126	18	34	347	1
Kerosene-Type Jet Fuel	19,506	-	30	-	40,364	59,900	164
Bonded Aircraft Fuel	4,917	-	-	-	15,781	20,698	57
Other	14,589	-	30	-	24,583	39,202	107
Kerosene	703	-	-	-	-	703	2
Distillate Fuel Oil	61,065	3,049	1,813	1,405	4,582	71,914	197
15 ppm sulfur and under	59,082	2,288	516	1,405	4,563	67,854	186
Bonded	-	-	-	-	-	-	-
Other	59,082	2,288	516	1,405	4,563	67,854	186
Greater than 15 ppm to 500 ppm sulfur	713	-	-	-	7	720	2
Bonded	-	-	-	-	-	-	-
Other	713	-	-	-	7	720	2
Greater than 500 ppm to 2000 ppm sulfur	789	511	261	-	12	1,573	4
Bonded	-	-	-	-	-	-	-
Other	789	511	261	-	12	1,573	4
Greater than 2000 ppm	481	250	1,036	-	-	1,767	5
Bonded	-	-	-	-	-	-	-
Other	481	250	1,036	-	-	1,767	5
Residual Fuel Oil	26,015	1,017	20,542	97	6,137	53,808	147
Less than 0.31 percent sulfur	996	-	2,480	-	338	3,814	10
0.31 to 1.00 percent sulfur	5,650	285	2,221	-	2,476	10,632	29
Greater than 1.00 percent sulfur	19,369	732	15,841	97	3,323	39,362	108
Petrochemical Feedstocks	27	1,789	3,939	-	373	6,128	17
Naphtha for Petro. Feed. Use	13	972	3,759	-	373	5,117	14
Other Oils for Petro. Feed. Use	14	817	180	-	-	1,011	3
Special Naphthas	8	58	5,963	-	-	6,029	17
Lubricants	2,802	1,443	11,682	1	593	16,521	45
Waxes	788	77	340	-	553	1,758	5
Petroleum Coke (Marketable)	28	321	1,652	-	311	2,312	6
Asphalt and Road Oil	10,292	3,562	90	418	1,101	15,463	42
Miscellaneous Products	-	-	-	12	-	12	0
Total	649,584	976,836	966,541	120,056	607,705	3,320,722	9,098

- = 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, December 2019
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	40,749	109	-	1,670	-	-	-	-	205	205
Algeria	144	-	-	-	-	-	-	-	-	-
Angola	341	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	7,196	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	109	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	11,957	-	-	1,144	-	-	-	-	-	-
Kuwait	1,187	-	-	-	-	-	-	-	-	-
Libya	1,039	-	-	-	-	-	-	-	-	-
Nigeria	4,851	-	-	-	-	-	-	-	205	205
Saudi Arabia	14,034	-	-	526	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	171,002	5,582	555	21,191	-	1,913	1,913	6,617	9,467	16,084
Argentina	-	-	-	146	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	1,306	-	-	-	-	317	317
Brazil	3,325	-	-	157	-	-	-	-	409	409
Brunei	2,981	-	-	-	-	-	-	-	-	-
Cameroon	561	-	-	-	-	-	-	-	-	-
Canada	128,149	5,323	527	472	-	605	605	3,807	1,220	5,027
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	9,068	-	-	-	-	-	-	-	292	292
Denmark	500	-	-	-	-	-	-	-	-	-
Egypt	501	-	-	1,880	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	334	334
France	-	-	-	-	-	1,104	1,104	-	-	-
Germany	-	-	-	82	-	-	-	-	-	-
Guatemala	294	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	636	636
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	695	-	-	-	-	142	142
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	302	302
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	17,154	-	-	925	-	-	-	-	296	296
Netherlands	-	-	-	135	-	-	-	793	400	1,193
Norway	495	-	-	15	-	120	120	117	732	849
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	1,411	1,411
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	5,242	-	-	13,390	-	-	-	233	1,503	1,736
Spain	-	-	-	591	-	84	84	122	244	366
Sweden	-	259	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	1,886	-	-	-	-	-	-	-	-	-
United Kingdom	513	-	-	-	-	-	-	1,545	432	1,977
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	333	0	28	1,397	-	0	0	0	797	797
Total	211,751	5,691	555	22,861	-	1,913	1,913	6,617	9,672	16,289
Persian Gulf³	27,178	-	-	1,670	-	-	-	-	-	-

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, December 2019
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	303	135	269	433	685	-	9,068	39	25	-	9,132
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	147	-	-	-	-	-	-
Belgium	118	-	-	-	-	-	481	-	-	-	481
Brazil	185	135	269	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	227	-	-	4,620	39	25	-	4,684
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	851	-	-	-	851
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	142	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	1,574	-	-	-	1,574
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	64	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	862	-	-	-	862
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	680	-	-	-	680
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	0	538	-	0	0	0	-	0
Total	303	135	269	433	685	-	9,068	39	25	-	9,132
Persian Gulf³	-	-	-	-	147	-	-	-	-	-	-

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, December 2019
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
OPEC	—	—	—	233	—	—	195	566	761
Algeria	—	—	—	—	—	—	195	158	353
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	83	83
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	81	—	—	—	325	325
Kuwait	—	—	—	152	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	—	24	—	5,057	444	—	1,871	2,471	4,342
Argentina	—	—	—	—	—	—	73	261	334
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	165	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	60	—	208	—	208
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	6	—	357	152	—	873	366	1,239
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	307	—	—	—	—	—
Colombia	—	—	—	—	—	—	255	—	255
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	66	—	66
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	3,196	190	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	6	1,292	1,298
Netherlands	—	18	—	—	—	—	86	—	86
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	1	540	541
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	0	—	1,032	42	—	303	12	315
Total	—	24	—	5,290	444	—	2,066	3,037	5,103
Persian Gulf³	—	—	—	233	—	—	—	325	325

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, December 2019
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	-	-	-	-	-	-	-	2,978	43,727	1,314	96	1,411
Algeria	-	-	-	-	-	-	-	353	497	5	11	16
Angola	-	-	-	-	-	-	-	-	341	11	-	11
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	83	7,279	232	3	235
Equatorial Guinea	-	-	-	-	-	-	-	109	109	-	4	4
Gabon	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	1,550	13,507	386	50	436
Kuwait	-	-	-	-	-	-	-	152	1,339	38	5	43
Libya	-	-	-	-	-	-	-	-	1,039	34	-	34
Nigeria	-	-	-	-	-	-	-	205	5,056	156	7	163
Saudi Arabia	-	-	-	-	-	-	-	526	14,560	453	17	470
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	411	90	110	166	1,216	1,476	1	69,624	240,626	5,516	2,246	7,762
Argentina	-	20	-	120	-	-	-	620	620	-	20	20
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	165	165	-	5	5
Bahrain	-	-	-	-	-	-	-	147	147	-	5	5
Belgium	1	-	-	-	-	8	-	2,231	2,231	-	72	72
Brazil	-	-	-	-	-	-	-	1,423	4,748	107	46	153
Brunei	-	-	-	-	-	-	-	-	2,981	96	-	96
Cameroon	-	-	-	-	-	-	-	-	561	18	-	18
Canada	110	70	53	46	1,004	239	1	20,142	148,291	4,134	650	4,784
Chad	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	31	-	-	-	-	338	338	-	11	11
Colombia	-	-	-	-	68	-	-	1,466	10,534	293	47	340
Denmark	-	-	-	-	-	-	-	-	500	16	-	16
Egypt	-	-	-	-	-	-	-	1,880	2,381	16	61	77
Estonia	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	334	334	-	11	11
France	-	-	-	-	-	32	-	1,136	1,136	-	37	37
Germany	-	-	-	-	-	17	-	307	307	-	10	10
Guatemala	-	-	-	-	-	-	-	-	294	9	-	9
India	-	-	-	-	-	-	-	2,210	2,210	-	71	71
Indonesia	-	-	-	-	-	168	-	168	168	-	5	5
Italy	-	-	23	-	-	60	-	920	920	-	30	30
Korea, South	-	-	1	-	-	536	-	3,987	3,987	-	129	129
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	302	302	-	10	10
Malaysia	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	209	-	-	-	-	-	-	2,728	19,882	553	88	641
Netherlands	-	-	-	-	-	67	-	2,361	2,361	-	76	76
Norway	-	-	-	-	-	-	-	984	1,479	16	32	48
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	1,411	1,411	-	46	46
Qatar	-	-	-	-	-	271	-	271	271	-	9	9
Russia	-	-	-	-	-	-	-	16,347	21,589	169	527	696
Spain	-	-	1	-	144	-	-	1,186	1,186	-	38	38
Sweden	-	-	-	-	-	-	-	259	259	-	8	8
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	1,886	61	-	61
United Kingdom	9	-	-	-	-	10	-	1,996	2,509	17	64	81
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	82	0	1	0	0	68	0	4,305	4,638	11	138	149
Total	411	90	110	166	1,216	1,476	1	72,602	284,353	6,831	2,342	9,173
Persian Gulf³	-	-	-	-	-	271	-	2,646	29,824	877	85	962

- = 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-December 2019
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	540,654	497	-	37,652	-	81	81	100	7,677	7,777
Algeria	7,012	-	-	20,527	-	-	-	-	-	-
Angola	12,060	-	-	768	-	-	-	-	759	759
Congo (Brazzaville)	5,537	-	-	173	-	-	-	-	52	52
Ecuador	72,551	-	-	1,220	-	-	-	-	-	-
Equatorial Guinea	3,286	273	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	120,984	-	-	2,306	-	-	-	-	-	-
Kuwait	16,330	-	-	-	-	-	-	-	-	-
Libya	21,969	-	-	1,123	-	-	-	-	-	-
Nigeria	68,055	-	-	360	-	-	-	-	1,822	1,822
Saudi Arabia	182,443	-	-	5,635	-	81	81	100	2,474	2,574
United Arab Emirates	1,026	-	-	5,495	-	-	-	-	1,264	1,264
Venezuela	29,401	-	-	45	-	-	-	-	1,306	1,306
Non-OPEC	1,939,512	65,826	7,422	197,713	-	29,597	29,597	70,008	172,551	242,559
Argentina	11,079	254	-	358	-	-	-	-	840	840
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	398	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	16,663	-	600	600	1,387	5,715	7,102
Brazil	44,269	-	-	1,423	-	-	-	-	18,179	18,179
Brunei	11,857	-	-	-	-	-	-	-	-	-
Cameroon	3,374	-	-	793	-	-	-	-	-	-
Canada	1,390,572	64,338	6,202	7,125	-	5,863	5,863	36,182	19,240	55,422
Chad	1,901	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	486	486
Colombia	116,062	-	-	676	-	-	-	-	4,889	4,889
Denmark	4,911	-	-	403	-	1	1	9	419	428
Egypt	4,881	-	-	14,672	-	138	138	-	337	337
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	235	-	808	808	157	8,198	8,355
France	-	-	65	1,282	-	6,506	6,506	1,743	1,267	3,010
Germany	-	-	-	2,183	-	72	72	3	720	723
Guatemala	2,498	-	-	-	-	-	-	-	-	-
India	-	-	-	2,238	-	-	-	-	23,415	23,415
Indonesia	-	-	-	-	-	-	-	-	566	566
Italy	-	-	-	4,242	-	166	166	88	5,021	5,109
Korea, South	-	-	-	149	-	3,184	3,184	-	2,142	2,142
Latvia	-	-	-	-	-	-	-	-	69	69
Lithuania	-	-	-	19	-	-	-	-	1,741	1,741
Malaysia	-	-	-	289	-	-	-	-	243	243
Mexico	218,870	-	225	2,222	-	-	-	-	1,835	1,835
Netherlands	486	-	-	3,973	-	2,456	2,456	11,629	16,503	28,132
Norway	17,236	309	-	5,142	-	666	666	739	7,341	8,080
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	253	253	837	8,871	9,708
Qatar	-	-	-	-	-	-	-	-	67	67
Russia	48,259	7	-	109,984	-	851	851	1,622	15,603	17,225
Spain	194	-	-	4,290	-	1,765	1,765	377	9,860	10,237
Sweden	-	450	-	1,904	-	313	313	35	893	928
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	16,921	-	-	-	-	-	-	-	350	350
United Kingdom	23,323	192	-	1,934	-	5,342	5,342	15,132	6,509	21,641
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	22,819	276	930	15,116	-	613	613	68	11,232	11,300
Total	2,480,166	66,323	7,422	235,365	-	29,678	29,678	70,108	180,228	250,336
Persian Gulf³	320,783	-	-	13,436	-	81	81	100	3,805	3,905

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-December 2019
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-	-	-	-	-	-	1,999	-	-	156	2,155
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	156	156
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	312	-	-	-	312
Saudi Arabia	-	-	-	-	-	-	1,193	-	-	-	1,193
United Arab Emirates	-	-	-	-	-	-	200	-	-	-	200
Venezuela	-	-	-	-	-	-	294	-	-	-	294
Non-OPEC	587	1,117	4,644	4,002	6,143	-	65,855	720	1,573	1,611	69,759
Argentina	258	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	147	-	501	-	-	396	897
Belgium	118	-	-	143	-	-	481	-	-	-	481
Brazil	211	1,004	4,644	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	1,865	-	-	41,075	444	1,156	731	43,406
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	279	-	-	-	279
Colombia	-	-	-	-	-	-	8,786	-	-	-	8,786
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	121	-	-	-	-	-	-	-
Germany	-	-	-	1,210	-	-	-	-	106	-	106
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	8,839	-	-	-	8,839
Indonesia	-	-	-	-	-	-	312	-	-	-	312
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	407	-	-	518	-	-	-	518
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	464	-	-	-	464
Mexico	-	-	-	-	-	-	-	-	125	-	125
Netherlands	-	113	-	-	-	-	862	-	186	-	1,048
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	2,071	-	-	-	2,071
Russia	-	-	-	-	-	-	1,376	276	-	484	2,136
Spain	-	-	-	227	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	29	5,996	-	291	0	0	0	291
Total	587	1,117	4,644	4,002	6,143	-	67,854	720	1,573	1,767	71,914
Persian Gulf³	-	-	-	-	147	-	3,464	-	-	-	3,464

See footnotes at end of table.

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-December 2019
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
OPEC	—	—	—	2,314	37	—	676	4,376	5,052
Algeria	—	—	—	—	—	—	302	249	551
Angola	—	—	—	—	—	—	374	—	374
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	320	—	—	—	365	365
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	344	—	—	—	650	650
Kuwait	—	—	—	253	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	20	—	—	—	—	—
Saudi Arabia	—	—	—	618	37	—	—	679	679
United Arab Emirates	—	—	—	658	—	—	—	20	20
Venezuela	—	—	—	101	—	—	—	2,413	2,413
Non-OPEC	703	347	—	57,586	5,992	3,814	9,956	34,986	48,756
Argentina	—	—	—	—	—	939	1,793	261	2,993
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	165	—	—	482	562	1,044
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	9	345	—	515	461	976
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	99	—	7,223	898	356	3,664	7,760	11,780
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	2,283	—	—	—	—	—
Colombia	101	—	—	—	—	560	295	4,318	5,173
Denmark	—	—	—	70	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	38	38
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	94	—	—	—	—
Germany	—	—	—	—	—	—	76	—	76
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	613	226	—	—	4	4
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	10	—	34,248	3,207	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	400	400
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	6	228	749	754	10,011	11,514
Netherlands	—	215	—	—	13	—	596	1,176	1,772
Norway	—	—	—	—	—	—	—	244	244
Oman	—	—	—	—	—	—	—	256	256
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	484	—	—	—	—	—
Russia	—	—	—	—	13	872	200	7,984	9,056
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	286	286
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	41	—	41
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	602	23	—	12,485	968	338	1,540	1,225	3,103
Total	703	347	—	59,900	6,029	3,814	10,632	39,362	53,808
Persian Gulf³	—	—	—	2,357	37	—	—	1,349	1,349

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-December 2019
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	97	—	—	—	31	1,493	—	57,186	597,840	1,481	157	1,638
Algeria	—	—	—	—	—	410	—	21,488	28,500	19	59	78
Angola	—	—	—	—	—	—	—	1,901	13,961	33	5	38
Congo (Brazzaville)	—	—	—	—	—	—	—	449	5,986	15	1	16
Ecuador	—	—	—	—	—	—	—	2,061	74,612	199	6	204
Equatorial Guinea	—	—	—	—	—	—	—	273	3,559	9	1	10
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	3,300	124,284	331	9	341
Kuwait	—	—	—	—	—	—	—	253	16,583	45	1	45
Libya	—	—	—	—	—	—	—	1,123	23,092	60	3	63
Nigeria	—	—	—	—	—	—	—	2,514	70,569	186	7	193
Saudi Arabia	97	—	—	—	—	—	—	10,914	193,357	500	30	530
United Arab Emirates	—	—	—	—	—	1,083	—	8,720	9,746	3	24	27
Venezuela	—	—	—	—	31	—	—	4,190	33,591	81	11	92
Non-OPEC	5,020	1,011	1,758	2,312	15,432	15,028	12	783,370	2,722,882	5,314	2,146	7,460
Argentina	—	20	—	1,018	—	25	—	5,766	16,845	30	16	46
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	398	398	—	1	1
Bahamas	—	—	—	—	—	—	—	2,106	2,106	—	6	6
Bahrain	—	—	—	—	—	742	—	889	889	—	2	2
Belgium	2	—	—	—	84	142	—	25,335	25,335	—	69	69
Brazil	—	9	—	188	—	—	—	26,988	71,257	121	74	195
Brunei	—	—	—	—	—	—	—	—	11,857	32	—	32
Cameroon	—	—	—	—	—	—	—	793	4,167	9	2	11
Canada	972	831	544	622	12,655	2,833	12	222,690	1,613,262	3,810	610	4,420
Chad	—	—	—	—	—	—	—	—	1,901	5	—	5
China	—	—	674	—	—	—	—	3,722	3,722	—	10	10
Colombia	—	—	—	—	230	—	—	19,855	135,917	318	54	372
Denmark	—	—	—	—	—	—	—	902	5,813	13	2	16
Egypt	—	—	—	—	—	—	—	15,185	20,066	13	42	55
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	15	—	9,413	9,413	—	26	26
France	—	148	—	—	—	219	—	11,445	11,445	—	31	31
Germany	—	—	45	—	—	220	—	4,635	4,635	—	13	13
Guatemala	—	—	—	—	—	—	—	—	2,498	7	—	7
India	—	—	—	—	—	1	—	35,336	35,336	—	97	97
Indonesia	—	—	2	—	—	980	—	1,860	1,860	—	5	5
Italy	56	—	47	—	—	231	—	9,853	9,853	—	27	27
Korea, South	14	—	7	—	130	4,650	—	48,666	48,666	—	133	133
Latvia	—	—	—	—	—	—	—	69	69	—	0	0
Lithuania	—	—	—	—	—	—	—	2,160	2,160	—	6	6
Malaysia	—	—	90	—	65	4	—	1,155	1,155	—	3	3
Mexico	2,376	—	—	—	—	—	—	18,531	237,401	600	51	650
Netherlands	—	—	—	—	—	100	—	37,846	38,332	1	104	105
Norway	—	—	—	—	—	—	—	14,441	31,677	47	40	87
Oman	—	—	—	411	—	—	—	667	667	—	2	2
Portugal	—	—	—	—	—	10	—	9,971	9,971	—	27	27
Qatar	—	—	—	—	—	3,778	—	6,400	6,400	—	18	18
Russia	—	—	—	—	—	429	—	139,701	187,960	132	383	515
Spain	—	—	9	—	1,364	—	—	17,892	18,086	1	49	50
Sweden	—	—	—	19	—	93	—	3,993	3,993	—	11	11
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	350	17,271	46	1	47
United Kingdom	336	—	46	32	—	208	—	29,772	53,095	64	82	145
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	1,264	3	294	22	904	348	0	54,585	77,404	65	149	215
Total	5,117	1,011	1,758	2,312	15,463	16,521	12	840,556	3,320,722	6,795	2,303	9,098
Persian Gulf³	97	—	—	—	—	5,603	—	30,476	351,259	879	83	962

— = 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, December 2019
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	5,949	-	-	-	-	-	-	-	-	-
Algeria	144	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	3,254	-	-	-	-	-	-	-	-	-
Saudi Arabia	2,551	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	11,668	1,571	249	3,310	-	1,730	1,730	6,617	8,021	14,638
Argentina	-	-	-	146	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	317	317
Brazil	-	-	-	157	-	-	-	-	312	312
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	561	-	-	-	-	-	-	-	-	-
Canada	6,472	1,312	249	-	-	506	506	3,807	790	4,597
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	292	292
Denmark	-	-	-	-	-	-	-	-	-	-
Egypt	500	-	-	-	-	-	-	-	-	-
Estonia	501	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	334	334
France	-	-	-	-	-	1,104	1,104	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	636	636
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	302	302
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	751	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	793	400	1,193
Norway	495	-	-	-	-	120	120	117	732	849
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	1,411	1,411
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	3,139	-	-	2,013	-	-	-	233	1,503	1,736
Spain	-	-	-	-	-	-	-	122	-	122
Sweden	-	259	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	1,545	432	1,977
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	243	-	0	0	0	560	560
Total	17,617	1,571	249	3,310	-	1,730	1,730	6,617	8,021	14,638
Persian Gulf³	2,551	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2019
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	266	-	-	8,636	39	7	-	8,682
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	481	-	-	-	481
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	124	-	-	4,188	39	7	-	4,234
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	851	-	-	-	851
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	142	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	1,574	-	-	-	1,574
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	862	-	-	-	862
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	680	-	-	-	680
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	0	0	0	-	0
Total	-	-	-	266	-	-	8,636	39	7	-	8,682
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2019
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
OPEC	-	-	-	233	-	-	195	241	436
Algeria	-	-	-	-	-	-	195	158	353
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	83	83
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	81	-	-	-	-	-
Kuwait	-	-	-	152	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	1	-	1,293	-	-	1,168	226	1,394
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	1	-	357	-	-	695	-	695
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	251	-	251
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	796	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	214	214
Netherlands	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	1	-	1
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	0	-	140	-	-	221	12	233
Total	-	1	-	1,526	-	-	1,363	467	1,830
Persian Gulf³	-	-	-	233	-	-	-	-	-

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2019
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	-	-	-	-	-	-	-	669	6,618	192	22	213
Algeria	-	-	-	-	-	-	-	353	497	5	11	16
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	83	83	-	3	3
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	81	81	-	3	3
Kuwait	-	-	-	-	-	-	-	152	152	-	5	5
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	3,254	105	-	105
Saudi Arabia	-	-	-	-	-	-	-	-	2,551	82	-	82
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	1	-	74	2	663	155	-	34,029	45,697	376	1,098	1,474
Argentina	-	-	-	-	-	-	-	146	146	-	5	5
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-	-
Belgium	1	-	-	-	-	-	-	799	799	-	26	26
Brazil	-	-	-	-	-	-	-	469	469	-	15	15
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	561	18	-	18
Canada	-	-	51	2	451	113	-	12,692	19,164	209	409	618
Chad	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	21	-	-	-	-	21	21	-	1	1
Colombia	-	-	-	-	68	-	-	1,462	1,462	-	47	47
Denmark	-	-	-	-	-	-	-	-	500	16	-	16
Egypt	-	-	-	-	-	-	-	-	501	16	-	16
Estonia	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	334	334	-	11	11
France	-	-	-	-	-	7	-	1,111	1,111	-	36	36
Germany	-	-	-	-	-	11	-	153	153	-	5	5
Guatemala	-	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	2,210	2,210	-	71	71
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	1	-	-	23	-	820	820	-	26	26
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	302	302	-	10	10
Malaysia	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	965	965	-	31	31
Netherlands	-	-	-	-	-	1	-	2,056	2,056	-	66	66
Norway	-	-	-	-	-	-	-	969	1,464	16	31	47
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	1,411	1,411	-	46	46
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	4,430	7,569	101	143	244
Spain	-	-	1	-	144	-	-	267	267	-	9	9
Sweden	-	-	-	-	-	-	-	259	259	-	8	8
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	1,977	1,977	-	64	64
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	0	-	0	0	0	0	-	1,176	1,176	0	38	38
Total	1	-	74	2	663	155	-	34,698	52,315	568	1,119	1,688
Persian Gulf³	-	-	-	-	-	-	-	233	2,784	82	8	90

- = 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, December 2019
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	87,556	1,975	278	-	-	-	-	-	392	392
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	87,556	1,975	278	-	-	-	-	-	392	392
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	-	-	-	-	-	0	0
Total	87,556	1,975	278	-	-	-	-	-	392	392
Persian Gulf³	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2019
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	64	-	-	192	-	17	-	209
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	64	-	-	192	-	17	-	209
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	0	-	0	-	0
Total	-	-	-	64	-	-	192	-	17	-	209
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2019
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	3	-	-	5	-	45	70	115
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	3	-	-	5	-	45	70	115
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	0	-	-	0	-	0	0	0
Total	-	3	-	-	5	-	45	70	115
Persian Gulf³	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2019
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	-	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	110	70	7	19	421	119	-	3,787	91,343	2,824	122	2,947
Argentina	-	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-	-
Canada	110	70	2	19	421	119	-	3,782	91,338	2,824	122	2,946
Chad	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	5	-	-	-	-	5	5	-	0	0
Colombia	-	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	0	0	0	-	0	0	0	0	1
Total	110	70	7	19	421	119	-	3,787	91,343	2,824	122	2,947
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-	-

- = No Data Reported.

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

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

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

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

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

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2019
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	13,083	-	-	1,670	-	-	-	-	205	205
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	813	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	4,758	-	-	1,144	-	-	-	-	-	-
Kuwait	812	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	205	205
Saudi Arabia	6,700	-	-	526	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	43,949	30	28	15,830	-	84	84	-	1,016	1,016
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	1,306	-	-	-	-	-	-
Brazil	1,327	-	-	-	-	-	-	-	97	97
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	16,730	30	-	438	-	-	-	-	-	-
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	6,113	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	1,880	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	82	-	-	-	-	-	-
Guatemala	294	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	333	-	-	-	-	142	142
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	16,675	-	-	174	-	-	-	-	296	296
Netherlands	-	-	-	135	-	-	-	-	-	-
Norway	-	-	-	15	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	717	-	-	9,722	-	-	-	-	-	-
Spain	-	-	-	591	-	84	84	-	244	244
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	1,505	-	-	-	-	-	-	-	-	-
United Kingdom	513	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	75	0	28	1,154	-	0	0	-	237	237
Total	57,032	30	28	17,500	-	84	84	-	1,221	1,221
Persian Gulf³	12,270	-	-	1,670	-	-	-	-	-	-

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2019
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	303	135	-	-	-	-	-	-	-	-	-
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	118	-	-	-	-	-	-	-	-	-	-
Brazil	185	135	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-	-	-
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	-	-	-	-	-	-	-	-	-
Total	303	135	-	-	-	-	-	-	-	-	-
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2019
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
OPEC	-	-	-	-	-	-	-	325	325
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	325	325
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	18	-	-	439	-	536	1,914	2,450
Argentina	-	-	-	-	-	-	73	-	73
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	60	-	208	-	208
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	147	-	11	296	307
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	4	-	4
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	66	-	66
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	190	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	6	1,078	1,084
Netherlands	-	18	-	-	-	-	86	-	86
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	540	540
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	0	-	-	42	-	82	0	82
Total	-	18	-	-	439	-	536	2,239	2,775
Persian Gulf³	-	-	-	-	-	-	-	325	325

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2019
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	-	-	-	-	-	-	-	2,200	15,283	422	71	493
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	813	26	-	26
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	1,469	6,227	153	47	201
Kuwait	-	-	-	-	-	-	-	-	812	26	-	26
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	205	205	-	7	7
Saudi Arabia	-	-	-	-	-	-	-	526	7,226	216	17	233
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	300	20	24	120	-	1,195	-	21,997	65,946	1,418	710	2,127
Argentina	-	20	-	120	-	-	-	213	213	-	7	7
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	8	-	1,432	1,432	-	46	46
Brazil	-	-	-	-	-	-	-	685	2,012	43	22	65
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	922	17,652	540	30	569
Chad	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	4	6,117	197	0	197
Denmark	-	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	1,880	1,880	-	61	61
Estonia	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	25	-	25	25	-	1	1
Germany	-	-	-	-	-	6	-	154	154	-	5	5
Guatemala	-	-	-	-	-	-	-	-	294	9	-	9
India	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	168	-	168	168	-	5	5
Italy	-	-	23	-	-	60	-	558	558	-	18	18
Korea, South	-	-	-	-	-	513	-	703	703	-	23	23
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	209	-	-	-	-	-	-	1,763	18,438	538	57	595
Netherlands	-	-	-	-	-	66	-	305	305	-	10	10
Norway	-	-	-	-	-	-	-	15	15	-	0	0
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	271	-	271	271	-	9	9
Russia	-	-	-	-	-	-	-	10,262	10,979	23	331	354
Spain	-	-	-	-	-	-	-	919	919	-	30	30
Sweden	-	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	1,505	49	-	49
United Kingdom	9	-	-	-	-	10	-	19	532	17	1	17
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	82	0	1	0	-	68	-	1,699	1,774	2	54	57
Total	300	20	24	120	-	1,195	-	24,197	81,229	1,840	781	2,620
Persian Gulf³	-	-	-	-	-	271	-	2,266	14,536	396	73	469

- = 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, December 2019
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
PAD District 4										
OPEC	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	9,600	489	-	-	-	-	-	-	38	38
Canada	9,600	489	-	-	-	-	-	-	38	38
Qatar	-	-	-	-	-	-	-	-	-	-
Other	0	0	-	-	-	-	-	-	0	0
Total	9,600	489	-	-	-	-	-	-	38	38
PAD District 5										
OPEC	21,717	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	341	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	6,383	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	7,199	-	-	-	-	-	-	-	-	-
Kuwait	375	-	-	-	-	-	-	-	-	-
Libya	1,039	-	-	-	-	-	-	-	-	-
Nigeria	1,597	-	-	-	-	-	-	-	-	-
Saudi Arabia	4,783	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	18,229	1,517	-	2,051	-	99	99	-	-	-
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Brazil	1,998	-	-	-	-	-	-	-	-	-
Brunei	2,981	-	-	-	-	-	-	-	-	-
Canada	7,791	1,517	-	34	-	99	99	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	2,955	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	479	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-
Peru	258	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Other	1,767	0	-	2,017	-	0	0	-	-	-
Total	39,946	1,626	-	2,051	-	99	99	-	-	-
Persian Gulf³	12,357	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2019
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total
PAD District 4											
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	31	-	-	98	-	-	-	98
Canada	-	-	-	31	-	-	98	-	-	-	98
Qatar	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	0	-	-	-	0
Total	-	-	-	31	-	-	98	-	-	-	98
PAD District 5											
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	269	72	685	-	142	-	1	-	143
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	269	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	8	-	-	142	-	1	-	143
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	64	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	0	0	685	-	0	-	0	-	0
Total	-	-	269	72	685	-	142	-	1	-	143
Persian Gulf³	-	-	-	-	147	-	-	-	-	-	-

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2019
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
PAD District 4									
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	1	-	-	-	-	-	-	-
Canada	-	1	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Other	-	0	-	-	-	-	-	-	-
Total	-	1	-	-	-	-	-	-	-
PAD District 5									
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	1	-	3,764	-	-	122	261	383
Argentina	-	-	-	-	-	-	-	261	261
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Canada	-	1	-	-	-	-	122	-	122
China	-	-	-	307	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Japan	-	-	-	319	-	-	-	-	-
Korea, South	-	-	-	2,400	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Other	-	0	-	738	-	-	0	0	0
Total	-	1	-	3,764	-	-	122	261	383
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, December 2019
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
PAD District 4												
OPEC	-	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	-	41	-	1	699	10,299	310	23	332
Canada	-	-	-	-	41	-	1	699	10,299	310	23	332
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	0	-	0	0	0	0	0	0
Total	-	-	-	-	41	-	1	699	10,299	310	23	332
PAD District 5												
OPEC	-	-	-	-	-	-	-	109	21,826	701	4	704
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	341	11	-	11
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	6,383	206	-	206
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	7,199	232	-	232
Kuwait	-	-	-	-	-	-	-	-	375	12	-	12
Libya	-	-	-	-	-	-	-	-	1,039	34	-	34
Nigeria	-	-	-	-	-	-	-	-	1,597	52	-	52
Saudi Arabia	-	-	-	-	-	-	-	-	4,783	154	-	154
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	5	25	91	7	-	9,112	27,341	588	294	882
Argentina	-	-	-	-	-	-	-	261	261	-	8	8
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	269	2,267	64	9	73
Brunei	-	-	-	-	-	-	-	-	2,981	96	-	96
Canada	-	-	-	25	91	7	-	2,047	9,838	251	66	317
China	-	-	5	-	-	-	-	312	312	-	10	10
Colombia	-	-	-	-	-	-	-	-	2,955	95	-	95
Finland	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	319	319	-	10	10
Korea, South	-	-	-	-	-	-	-	2,464	2,464	-	79	79
Malaysia	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	479	15	-	15
Netherlands	-	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	258	8	-	8
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	538	538	-	17	17
Sweden	-	-	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	0	0	0	0	-	2,902	4,669	59	95	154
Total	-	-	5	25	91	7	-	9,221	49,167	1,289	297	1,586
Persian Gulf³	-	-	-	-	-	-	-	147	12,504	399	5	403

- = 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-December 2019
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	93,199	224	-	1,606	-	81	81	100	7,472	7,572
Algeria	7,012	-	-	1,201	-	-	-	-	-	-
Angola	672	-	-	-	-	-	-	-	759	759
Congo (Brazzaville)	5,537	-	-	-	-	-	-	-	52	52
Ecuador	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	6,871	-	-	-	-	-	-	-	-	-
Nigeria	38,957	-	-	360	-	-	-	-	1,617	1,617
Saudi Arabia	34,150	-	-	-	-	81	81	100	2,474	2,574
United Arab Emirates	-	-	-	-	-	-	-	-	1,264	1,264
Venezuela	-	-	-	45	-	-	-	-	1,306	1,306
Non-OPEC	160,626	14,091	2,996	20,953	-	23,008	23,008	66,858	135,048	201,906
Argentina	-	-	-	358	-	-	-	-	52	52
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	513	513	1,074	4,437	5,511
Brazil	546	-	-	556	-	-	-	-	15,065	15,065
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	2,035	-	-	503	-	-	-	-	-	-
Canada	80,488	13,257	2,996	2,640	-	4,792	4,792	36,182	14,138	50,320
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	6,285	-	-	-	-	-	-	-	4,089	4,089
Denmark	4,911	-	-	-	-	1	1	9	349	358
Egypt	3,256	-	-	65	-	138	138	-	337	337
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	581	581	157	7,722	7,879
France	-	-	-	128	-	6,210	6,210	1,743	562	2,305
Germany	-	-	-	222	-	71	71	3	17	20
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	164	-	-	-	-	17,616	17,616
Indonesia	-	-	-	-	-	-	-	-	566	566
Italy	-	-	-	68	-	166	166	88	3,252	3,340
Korea, South	-	-	-	-	-	-	-	-	339	339
Latvia	-	-	-	-	-	-	-	-	69	69
Lithuania	-	-	-	-	-	-	-	-	1,416	1,416
Malaysia	-	-	-	-	-	-	-	-	52	52
Mexico	698	-	-	1,748	-	-	-	-	75	75
Netherlands	-	-	-	292	-	2,308	2,308	9,587	15,362	24,949
Norway	16,607	192	-	167	-	666	666	739	6,946	7,685
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	837	7,955	8,792
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	19,465	-	-	9,592	-	851	851	1,408	15,174	16,582
Spain	194	-	-	2,053	-	1,408	1,408	377	8,738	9,115
Sweden	-	450	-	122	-	313	313	35	568	603
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	11,073	-	-	-	-	4,987	4,987	14,551	4,060	18,611
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	15,068	192	0	2,275	-	3	3	68	6,092	6,160
Total	253,825	14,315	2,996	22,559	-	23,089	23,089	66,958	142,520	209,478
Persian Gulf³	34,150	-	-	-	-	81	81	100	3,738	3,838

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-December 2019
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-	-	-	-	-	-	1,706	-	-	-	1,706
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	312	-	-	-	312
Saudi Arabia	-	-	-	-	-	-	1,193	-	-	-	1,193
United Arab Emirates	-	-	-	-	-	-	200	-	-	-	200
Venezuela	-	-	-	-	-	-	1	-	-	-	1
Non-OPEC	-	-	-	1,963	-	-	57,376	713	789	481	59,359
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	501	-	-	-	501
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	143	-	-	481	-	-	-	481
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	554	-	-	33,114	437	633	481	34,665
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	279	-	-	-	279
Colombia	-	-	-	-	-	-	8,786	-	-	-	8,786
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	121	-	-	-	-	-	-	-
Germany	-	-	-	1,088	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	8,839	-	-	-	8,839
Indonesia	-	-	-	-	-	-	312	-	-	-	312
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	464	-	-	-	464
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	862	-	156	-	1,018
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	2,071	-	-	-	2,071
Russia	-	-	-	-	-	-	1,376	276	-	-	1,652
Spain	-	-	-	57	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	291	0	0	0	291
Total	-	-	-	1,963	-	-	59,082	713	789	481	61,065
Persian Gulf³	-	-	-	-	-	-	3,464	-	-	-	3,464

See footnotes at end of table.

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2019
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
OPEC	—	—	—	2,296	—	—	302	2,244	2,546
Algeria	—	—	—	—	—	—	302	249	551
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	320	—	—	—	83	83
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	326	—	—	—	—	—
Kuwait	—	—	—	253	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	20	—	—	—	—	—
Saudi Arabia	—	—	—	618	—	—	—	—	—
United Arab Emirates	—	—	—	658	—	—	—	20	20
Venezuela	—	—	—	101	—	—	—	1,892	1,892
Non-OPEC	703	125	—	17,210	8	996	5,348	17,125	23,469
Argentina	—	—	—	—	—	939	1,572	—	2,511
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	482	562	1,044
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	9	—	—	239	187	426
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	13	—	7,169	8	57	1,216	5,373	6,646
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	345	—	—	—	—	—
Colombia	101	—	—	—	—	—	291	3,456	3,747
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	613	—	—	—	4	4
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	7,833	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	400	400
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	748	1,600	2,348
Netherlands	—	112	—	—	—	—	—	610	610
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	484	—	—	—	—	—
Russia	—	—	—	—	—	—	100	4,271	4,371
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	286	286
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	41	—	41
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	602	0	—	757	0	0	659	376	1,035
Total	703	125	—	19,506	8	996	5,650	19,369	26,015
Persian Gulf³	—	—	—	2,339	—	—	—	20	20

See footnotes at end of table.

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2019
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	—	—	—	—	31	584	—	16,646	109,845	255	46	301
Algeria	—	—	—	—	—	410	—	2,162	9,174	19	6	25
Angola	—	—	—	—	—	—	—	759	1,431	2	2	4
Congo (Brazzaville)	—	—	—	—	—	—	—	276	5,813	15	1	16
Ecuador	—	—	—	—	—	—	—	403	403	—	1	1
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	326	326	—	1	1
Kuwait	—	—	—	—	—	—	—	253	253	—	1	1
Libya	—	—	—	—	—	—	—	—	6,871	19	—	19
Nigeria	—	—	—	—	—	—	—	2,309	41,266	107	6	113
Saudi Arabia	—	—	—	—	—	—	—	4,466	38,616	94	12	106
United Arab Emirates	—	—	—	—	—	174	—	2,316	2,316	—	6	6
Venezuela	—	—	—	—	31	—	—	3,376	3,376	—	9	9
Non-OPEC	13	14	788	28	10,261	2,218	—	379,113	539,739	440	1,039	1,479
Argentina	—	—	—	—	—	14	—	2,935	2,935	—	8	8
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	1,545	1,545	—	4	4
Bahrain	—	—	—	—	—	—	—	—	—	—	—	—
Belgium	2	—	—	—	84	82	—	6,816	6,816	—	19	19
Brazil	—	—	—	—	—	—	—	16,056	16,602	1	44	45
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	503	2,538	6	1	7
Canada	—	14	483	7	7,769	1,321	—	132,654	213,142	221	363	584
Chad	—	—	—	—	—	—	—	—	—	—	—	—
China	—	—	154	—	—	—	—	778	778	—	2	2
Colombia	—	—	—	—	230	—	—	16,953	23,238	17	46	64
Denmark	—	—	—	—	—	—	—	359	5,270	13	1	14
Egypt	—	—	—	—	—	—	—	540	3,796	9	1	10
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	8,460	8,460	—	23	23
France	—	—	—	—	—	96	—	8,860	8,860	—	24	24
Germany	—	—	42	—	—	134	—	1,577	1,577	—	4	4
Guatemala	—	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	1	—	27,237	27,237	—	75	75
Indonesia	—	—	2	—	—	—	—	880	880	—	2	2
Italy	—	—	—	—	—	19	—	3,593	3,593	—	10	10
Korea, South	—	—	7	—	—	198	—	8,377	8,377	—	23	23
Latvia	—	—	—	—	—	—	—	69	69	—	0	0
Lithuania	—	—	—	—	—	—	—	1,816	1,816	—	5	5
Malaysia	—	—	—	—	—	4	—	520	520	—	1	1
Mexico	—	—	—	—	—	—	—	4,171	4,869	2	11	13
Netherlands	—	—	—	—	—	8	—	29,297	29,297	—	80	80
Norway	—	—	—	—	—	—	—	8,710	25,317	45	24	69
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	8,792	8,792	—	24	24
Qatar	—	—	—	—	—	1	—	2,556	2,556	—	7	7
Russia	—	—	—	—	—	244	—	33,292	52,757	53	91	145
Spain	—	—	8	—	1,364	—	—	14,005	14,199	1	38	39
Sweden	—	—	—	2	—	92	—	1,868	1,868	—	5	5
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	11	—	—	8	—	—	—	23,850	34,923	30	65	96
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	92	11	814	4	—	12,044	27,112	42	38	77
Total	13	14	788	28	10,292	2,802	—	395,759	649,584	695	1,084	1,780
Persian Gulf³	—	—	—	—	—	175	—	9,917	44,067	94	27	121

— = 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-December 2019
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	929,891	28,002	3,206	315	-	1	1	-	3,066	3,066
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	475	-	-	-	-	-	-	-	-	-
Brunei	417	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	927,144	28,002	3,206	315	-	1	1	-	3,066	3,066
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	1,855	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	0	-	0	0	-	0	0
Total	929,891	28,002	3,206	315	-	1	1	-	3,066	3,066
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-December 2019
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	995	-	-	2,288	-	511	250	3,049
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	995	-	-	2,288	-	511	250	3,049
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	0	-	0	0	0
Total	-	-	-	995	-	-	2,288	-	511	250	3,049
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-December 2019
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	44	-	-	58	-	285	732	1,017
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	44	-	-	58	-	285	732	1,017
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	0	-	-	0	-	0	0	0
Total	-	44	-	-	58	-	285	732	1,017
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-December 2019
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	-	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	972	817	77	321	3,562	1,443	-	46,945	976,836	2,548	129	2,676
Argentina	-	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	2	-	2	2	-	0	0
Brazil	-	-	-	-	-	-	-	-	475	1	-	1
Brunei	-	-	-	-	-	-	-	-	-	417	1	1
Cameroon	-	-	-	-	-	-	-	-	-	-	-	-
Canada	972	817	61	304	3,562	1,434	-	46,903	974,047	2,540	129	2,669
Chad	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	16	-	-	-	-	16	16	-	0	0
Colombia	-	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	3	-	3	3	-	0	0
Guatemala	-	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	1,855	5	-	5
Netherlands	-	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	4	-	4	4	-	0	0
Russia	-	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	17	-	-	-	17	17	-	0	0
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	0	0	0	-	0	0	1	0	0
Total	972	817	77	321	3,562	1,443	-	46,945	976,836	2,548	129	2,676
Persian Gulf³	-	-	-	-	-	4	-	4	4	-	0	0

- = No Data Reported.

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

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

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

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

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

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2019
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	176,839	-	-	27,160	-	-	-	-	205	205
Algeria	-	-	-	11,922	-	-	-	-	-	-
Angola	1,939	-	-	768	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	173	-	-	-	-	-	-
Ecuador	9,839	-	-	33	-	-	-	-	-	-
Equatorial Guinea	1,326	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	62,254	-	-	2,306	-	-	-	-	-	-
Kuwait	7,654	-	-	-	-	-	-	-	-	-
Libya	-	-	-	916	-	-	-	-	-	-
Nigeria	6,999	-	-	-	-	-	-	-	205	205
Saudi Arabia	57,924	-	-	5,635	-	-	-	-	-	-
United Arab Emirates	-	-	-	5,407	-	-	-	-	-	-
Venezuela	28,904	-	-	-	-	-	-	-	-	-
Non-OPEC	536,094	30	1,220	153,620	-	869	869	581	21,706	22,287
Argentina	4,305	-	-	-	-	-	-	-	788	788
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	16,663	-	-	-	-	311	311
Brazil	24,925	-	-	783	-	-	-	-	3,114	3,114
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	1,339	-	-	290	-	-	-	-	-	-
Canada	181,106	30	-	2,791	-	-	-	-	9	9
Chad	1,901	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	414	414
Colombia	76,463	-	-	246	-	-	-	-	200	200
Denmark	-	-	-	403	-	-	-	-	70	70
Egypt	1,625	-	-	14,607	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	235	-	227	227	-	312	312
France	-	-	65	1,154	-	-	-	-	111	111
Germany	-	-	-	1,961	-	1	1	-	375	375
Guatemala	2,498	-	-	-	-	-	-	-	-	-
India	-	-	-	1,121	-	-	-	-	4,956	4,956
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	2,151	-	-	-	-	1,769	1,769
Korea, South	-	-	-	-	-	-	-	-	303	303
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	19	-	-	-	-	325	325
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	203,581	-	225	474	-	-	-	-	1,760	1,760
Netherlands	486	-	-	3,681	-	-	-	-	1,000	1,000
Norway	629	-	-	4,614	-	-	-	-	322	322
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	916	916
Qatar	-	-	-	-	-	-	-	-	67	67
Russia	11,032	-	-	88,313	-	-	-	-	317	317
Spain	-	-	-	2,025	-	357	357	-	797	797
Sweden	-	-	-	766	-	-	-	-	325	325
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	13,702	-	-	-	-	-	-	-	350	350
United Kingdom	12,250	-	-	1,585	-	284	284	581	767	1,348
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	252	0	930	9,738	-	0	0	0	2,028	2,028
Total	712,933	30	1,220	180,780	-	869	869	581	21,911	22,492
Persian Gulf³	127,832	-	-	13,348	-	-	-	-	67	67

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-December 2019
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-	-	-	-	-	-	293	-	-	156	449
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	156	156
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	293	-	-	-	293
Non-OPEC	587	1,117	-	292	-	-	223	-	261	880	1,364
Argentina	258	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	396	396
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	118	-	-	-	-	-	-	-	-	-	-
Brazil	211	1,004	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	223	-	-	-	223
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	122	-	-	-	-	106	-	106
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	125	-	125
Netherlands	-	113	-	-	-	-	-	-	30	-	30
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	484	484
Spain	-	-	-	170	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	-	-	0	-	0	0	0
Total	587	1,117	-	292	-	-	516	-	261	1,036	1,813
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-December 2019
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
OPEC	—	—	—	18	37	—	374	1,982	2,356
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	374	—	374
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	132	132
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	18	—	—	—	650	650
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	37	—	—	679	679
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	521	521
Non-OPEC	—	126	—	12	5,926	2,480	1,847	13,859	18,186
Argentina	—	—	—	—	—	—	221	—	221
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	345	—	276	274	550
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	—	—	6	832	299	15	1,010	1,324
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	560	4	862	1,426
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	38	38
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	94	—	—	—	—
Germany	—	—	—	—	—	—	76	—	76
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	—	226	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	3,207	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	6	228	749	6	6,976	7,731
Netherlands	—	103	—	—	13	—	268	486	754
Norway	—	—	—	—	—	—	—	244	244
Oman	—	—	—	—	—	—	—	256	256
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	13	872	100	3,713	4,685
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	23	—	0	968	0	881	0	881
Total	—	126	—	30	5,963	2,480	2,221	15,841	20,542
Persian Gulf³	—	—	—	18	37	—	—	1,329	1,329

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-December 2019
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	97	—	—	—	—	909	—	31,231	208,070	484	86	570
Algeria	—	—	—	—	—	—	—	11,922	11,922	—	33	33
Angola	—	—	—	—	—	—	—	1,142	3,081	5	3	8
Congo (Brazzaville)	—	—	—	—	—	—	—	173	173	—	0	0
Ecuador	—	—	—	—	—	—	—	321	10,160	27	1	28
Equatorial Guinea	—	—	—	—	—	—	—	—	1,326	4	—	4
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	2,974	65,228	171	8	179
Kuwait	—	—	—	—	—	—	—	—	7,654	21	—	21
Libya	—	—	—	—	—	—	—	916	916	—	3	3
Nigeria	—	—	—	—	—	—	—	205	7,204	19	1	20
Saudi Arabia	97	—	—	—	—	—	—	6,448	64,372	159	18	176
United Arab Emirates	—	—	—	—	—	909	—	6,316	6,316	—	17	17
Venezuela	—	—	—	—	—	—	—	814	29,718	79	2	81
Non-OPEC	3,662	180	340	1,652	90	10,773	—	222,377	758,471	1,469	609	2,078
Argentina	—	20	—	1,018	—	11	—	2,316	6,621	12	6	18
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	396	396	—	1	1
Bahrain	—	—	—	—	—	742	—	742	742	—	2	2
Belgium	—	—	—	—	—	58	—	17,150	17,150	—	47	47
Brazil	—	9	—	188	—	—	—	6,204	31,129	68	17	85
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	290	1,629	4	1	4
Canada	—	—	—	—	—	—	—	5,215	186,321	496	14	510
Chad	—	—	—	—	—	—	—	—	1,901	5	—	5
China	—	—	48	—	—	—	—	462	462	—	1	1
Colombia	—	—	—	—	—	—	—	1,872	78,335	209	5	215
Denmark	—	—	—	—	—	—	—	473	473	—	1	1
Egypt	—	—	—	—	—	—	—	14,645	16,270	4	40	45
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	15	—	789	789	—	2	2
France	—	148	—	—	—	123	—	1,695	1,695	—	5	5
Germany	—	—	1	—	—	83	—	2,725	2,725	—	7	7
Guatemala	—	—	—	—	—	—	—	—	2,498	7	—	7
India	—	—	—	—	—	—	—	6,303	6,303	—	17	17
Indonesia	—	—	—	—	—	980	—	980	980	—	3	3
Italy	56	—	47	—	—	212	—	4,237	4,237	—	12	12
Korea, South	14	—	—	—	—	4,338	—	7,862	7,862	—	22	22
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	344	344	—	1	1
Malaysia	—	—	88	—	—	—	—	88	88	—	0	0
Mexico	2,376	—	—	—	—	—	—	12,925	216,506	558	35	593
Netherlands	—	—	—	—	—	92	—	5,810	6,296	1	16	17
Norway	—	—	—	—	—	—	—	5,180	5,809	2	14	16
Oman	—	—	—	411	—	—	—	667	667	—	2	2
Portugal	—	—	—	—	—	10	—	926	926	—	3	3
Qatar	—	—	—	—	—	3,773	—	3,840	3,840	—	11	11
Russia	—	—	—	—	—	—	—	93,812	104,844	30	257	287
Spain	—	—	1	—	—	—	—	3,350	3,350	—	9	9
Sweden	—	—	—	—	—	1	—	1,092	1,092	—	3	3
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	350	14,052	38	1	38
United Kingdom	325	—	46	24	—	208	—	3,820	16,070	34	10	44
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	891	3	109	11	90	127	—	15,817	16,069	1	44	45
Total	3,759	180	340	1,652	90	11,682	—	253,608	966,541	1,953	695	2,648
Persian Gulf³	97	—	—	—	—	5,424	—	20,320	148,152	350	56	406

— = 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-December 2019
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
PAD District 4										
OPEC	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	111,976	4,528	-	-	-	72	72	-	1,310	1,310
Canada	111,976	4,528	-	-	-	72	72	-	1,310	1,310
Qatar	-	-	-	-	-	-	-	-	-	-
Other	0	0	-	-	-	0	0	-	0	0
Total	111,976	4,528	-	-	-	72	72	-	1,310	1,310
PAD District 5										
OPEC	270,616	-	-	8,886	-	-	-	-	-	-
Algeria	-	-	-	7,404	-	-	-	-	-	-
Angola	9,449	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	62,712	-	-	1,187	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	58,730	-	-	-	-	-	-	-	-	-
Kuwait	8,676	-	-	-	-	-	-	-	-	-
Libya	15,098	-	-	207	-	-	-	-	-	-
Nigeria	22,099	-	-	-	-	-	-	-	-	-
Saudi Arabia	90,369	-	-	-	-	-	-	-	-	-
United Arab Emirates	1,026	-	-	88	-	-	-	-	-	-
Venezuela	497	-	-	-	-	-	-	-	-	-
Non-OPEC	200,925	19,175	-	22,825	-	5,647	5,647	2,569	11,421	13,990
Argentina	6,774	254	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	398	-	-	-	-	-	-
Brazil	18,323	-	-	84	-	-	-	-	-	-
Brunei	11,440	-	-	-	-	-	-	-	-	-
Canada	89,858	18,521	-	1,379	-	998	998	-	717	717
China	-	-	-	-	-	-	-	-	72	72
Colombia	33,314	-	-	430	-	-	-	-	600	600
Finland	-	-	-	-	-	-	-	-	164	164
Germany	-	-	-	-	-	-	-	-	328	328
Indonesia	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	1,091	-	610	610	-	1,898	1,898
Korea, South	-	-	-	149	-	3,184	3,184	-	1,500	1,500
Malaysia	-	-	-	289	-	-	-	-	191	191
Mexico	12,736	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	148	148	2,042	141	2,183
Oman	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-
Peru	467	-	-	657	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	641	-	-	-	-	431	431
Sweden	-	-	-	1,016	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	327	327
United Kingdom	-	-	-	349	-	71	71	-	1,682	1,682
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Other	28,013	400	-	16,342	-	636	636	527	3,370	3,897
Total	471,541	19,448	-	31,711	-	5,647	5,647	2,569	11,421	13,990
Persian Gulf³	158,801	-	-	88	-	-	-	-	-	-

See footnotes at end of table.

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2019
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total
PAD District 4											
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	219	-	-	1,405	-	-	-	1,405
Canada	-	-	-	219	-	-	1,405	-	-	-	1,405
Qatar	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	0	-	-	-	0
Total	-	-	-	219	-	-	1,405	-	-	-	1,405
PAD District 5											
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	4,644	533	6,143	-	4,563	7	12	-	4,582
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	4,644	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	97	-	-	4,045	7	12	-	4,064
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	407	-	-	518	-	-	-	518
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	0	29	6,143	-	0	0	0	-	0
Total	-	-	4,644	533	6,143	-	4,563	7	12	-	4,582
Persian Gulf³	-	-	-	-	147	-	-	-	-	-	-

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-December 2019
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
PAD District 4									
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	18	-	-	-	-	-	97	97
Canada	-	18	-	-	-	-	-	97	97
Qatar	-	-	-	-	-	-	-	-	-
Other	-	0	-	-	-	-	-	0	0
Total	-	18	-	-	-	-	-	97	97
PAD District 5									
OPEC	-	-	-	-	-	-	-	150	150
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	150	150
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	34	-	40,364	-	338	2,476	3,173	5,987
Argentina	-	-	-	-	-	-	-	261	261
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Canada	-	24	-	48	-	-	2,148	548	2,696
China	-	-	-	1,938	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Japan	-	-	-	5,787	-	-	-	-	-
Korea, South	-	10	-	26,415	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	1,435	1,435
Netherlands	-	-	-	-	-	-	328	80	408
Oman	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	656	656
Qatar	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	1,176	-	338	-	-	338
Sweden	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	190	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Other	-	0	-	4,810	-	0	0	193	193
Total	-	34	-	40,364	-	338	2,476	3,323	6,137
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-December 2019
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
PAD District 4												
OPEC	-	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	-	418	1	12	8,080	120,056	307	22	329
Canada	-	-	-	-	418	1	12	8,080	120,056	307	22	329
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	0	0	0	0	0	0	0	0
Total	-	-	-	-	418	1	12	8,080	120,056	307	22	329
PAD District 5												
OPEC	-	-	-	-	-	-	-	9,309	279,925	741	26	767
Algeria	-	-	-	-	-	-	-	7,404	7,404	-	20	20
Angola	-	-	-	-	-	-	-	-	9,449	26	-	26
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	1,337	64,049	172	4	175
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	58,730	161	-	161
Kuwait	-	-	-	-	-	-	-	-	8,676	24	-	24
Libya	-	-	-	-	-	-	-	207	15,305	41	1	42
Nigeria	-	-	-	-	-	-	-	-	22,099	61	-	61
Saudi Arabia	-	-	-	-	-	-	-	-	90,369	248	-	248
United Arab Emirates	-	-	-	-	-	-	-	88	1,114	3	0	3
Venezuela	-	-	-	-	-	-	-	-	497	1	-	1
Non-OPEC	373	-	553	311	1,101	593	-	126,855	327,780	550	348	898
Argentina	-	-	-	-	-	-	-	515	7,289	19	1	20
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	398	398	-	1	1
Brazil	-	-	-	-	-	-	-	4,728	23,051	50	13	63
Brunei	-	-	-	-	-	-	-	-	11,440	31	-	31
Canada	-	-	-	311	906	77	-	29,838	119,696	246	82	328
China	-	-	456	-	-	-	-	2,466	2,466	-	7	7
Colombia	-	-	-	-	-	-	-	1,030	34,344	91	3	94
Finland	-	-	-	-	-	-	-	164	164	-	0	0
Germany	-	-	2	-	-	-	-	330	330	-	1	1
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	69	-	-	-	-	9,455	9,455	-	26	26
Korea, South	-	-	-	-	130	114	-	32,427	32,427	-	89	89
Malaysia	-	-	2	-	65	-	-	547	547	-	1	1
Mexico	-	-	-	-	-	-	-	1,435	14,171	35	4	39
Netherlands	-	-	-	-	-	-	-	2,739	2,739	-	8	8
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	1,313	1,780	1	4	5
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	8,582	8,582	-	24	24
Sweden	-	-	-	-	-	-	-	1,016	1,016	-	3	3
Taiwan	373	-	24	-	-	-	-	914	914	-	3	3
United Kingdom	-	-	-	-	-	-	-	2,102	2,102	-	6	6
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Other	0	-	0	0	0	402	-	26,856	54,869	77	72	149
Total	373	-	553	311	1,101	593	-	136,164	607,705	1,292	373	1,665
Persian Gulf³	-	-	-	-	-	-	-	235	159,036	435	1	436

- = 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, December 2019
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil¹	0	5,670	108,061	0	-	113,731	3,669
Hydrocarbon Gas Liquids	5,943	7,885	45,567	73	815	60,283	1,945
Natural Gas Liquids	5,943	7,885	45,567	73	815	60,283	1,945
Ethane	1,954	2,875	3,818	-	0	8,647	279
Propane	3,096	200	34,625	-	566	38,487	1,242
Normal Butane	836	32	6,957	-	247	8,072	260
Isobutane	13	1	112	-	0	126	4
Natural Gasoline	44	4,778	54	73	3	4,951	160
Refinery Olefins	-	-	-	-	-	-	-
Ethylene	-	-	-	-	-	-	-
Propylene	-	-	-	-	-	-	-
Normal Butylene	-	-	-	-	-	-	-
Isobutylene	-	-	-	-	-	-	-
Other Liquids	115	2,010	13,505	1	935	16,566	534
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	82	597	4,654	1	294	5,628	182
Hydrogen	-	-	-	-	-	-	-
Oxygenates (excluding Fuel Ethanol)	1	1	2,053	0	0	2,055	66
Methyl Tertiary Butyl Ether (MTBE)	0	-	1,384	-	-	1,385	45
Other Oxygenates	0	1	668	0	0	671	22
Renewable Fuels (including Fuel Ethanol) ...	81	596	2,602	1	293	3,573	115
Fuel Ethanol	81	563	2,571	-	275	3,490	113
Biodiesel	1	33	30	1	18	83	3
Other Renewable Diesel	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	-	-	-	-	-
Unfinished Oils	20	1,347	6,525	0	51	7,942	256
Naphthas and Lighter	10	1,345	6,208	0	40	7,603	245
Kerosene and Light Gas Oils	10	2	317	-	10	339	11
Heavy Gas Oils	-	-	-	-	-	-	-
Residuum	-	-	-	-	-	-	-
Motor Gasoline Blend.Comp. (MGBC)	13	66	2,326	0	591	2,996	97
Reformulated	0	-	131	-	3	134	4
Conventional	13	66	2,195	0	588	2,862	92
Aviation Gasoline Blend. Comp.	-	-	-	-	-	-	-
Finished Petroleum Products	3,657	1,385	92,529	16	11,295	108,882	3,512
Finished Motor Gasoline	279	204	27,987	0	2,180	30,651	989
Reformulated	-	-	-	-	-	-	-
Conventional	279	204	27,987	0	2,180	30,651	989
Finished Aviation Gasoline	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	1,011	53	6,533	-	1,202	8,799	284
Kerosene	0	1	285	-	15	301	10
Distillate Fuel Oil	291	181	37,199	-	3,593	41,265	1,331
15 ppm sulfur and under	291	0	29,436	-	3,468	33,196	1,071
Greater than 15 ppm to 500 ppm sulfur	-	7	3,312	-	121	3,439	111
Greater than 500 ppm sulfur	-	174	4,451	-	4	4,630	149
Residual Fuel Oil	1,488	134	4,682	4	292	6,599	213
Naphtha for Petro. Feed. Use	-	-	-	-	-	-	-
Other Oils for Petro. Feed. Use	-	-	-	-	-	-	-
Special Naphthas	-	-	-	-	-	-	-
Lubricants	231	150	2,230	10	311	2,932	95
Waxes	66	37	29	0	6	137	4
Petroleum Coke	220	510	12,974	-	3,666	17,370	560
Asphalt and Road Oil	58	112	508	1	31	710	23
Miscellaneous Products	12	3	103	-	0	117	4
Total	9,715	16,950	259,662	90	13,046	299,463	9,660

- = 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-December 2019
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil¹	3,560	59,720	1,016,787	0	6,745	1,086,813	2,978
Hydrocarbon Gas Liquids	73,725	93,397	478,894	2,074	16,825	664,915	1,822
Natural Gas Liquids	73,725	93,397	478,894	2,074	16,825	664,915	1,822
Ethane	14,981	33,358	54,065	0	3	102,407	281
Propane	43,516	1,456	342,836	5	10,356	397,200	1,088
Normal Butane	13,672	1,540	80,840	49	6,310	102,131	280
Isobutane	27	9	1,807	0	7	1,845	5
Natural Gasoline	1,566	57,041	511	2,019	194	61,332	168
Refinery Olefins	-	-	-	-	-	-	-
Ethylene	-	-	-	-	-	-	-
Propylene	-	-	-	-	-	-	-
Normal Butylene	-	-	-	-	-	-	-
Isobutylene	-	-	-	-	-	-	-
Other Liquids	2,305	29,466	140,873	26	6,934	179,603	492
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	1,612	8,341	49,449	6	3,190	62,599	172
Hydrogen	-	-	-	-	-	-	-
Oxygenates (excluding Fuel Ethanol)	8	19	24,684	0	6	24,718	68
Methyl Tertiary Butyl Ether (MTBE)	1	0	13,963	-	0	13,964	38
Other Oxygenates	7	19	10,722	0	6	10,754	29
Renewable Fuels (including Fuel Ethanol) ...	1,604	8,322	24,765	6	3,184	37,881	104
Fuel Ethanol	1,434	6,888	24,434	0	2,415	35,171	96
Biodiesel	170	1,434	332	6	769	2,710	7
Other Renewable Diesel	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	-	-	-	-	-
Unfinished Oils	320	19,462	62,497	19	1,880	84,178	231
Naphthas and Lighter	147	19,389	60,504	1	1,777	81,819	224
Kerosene and Light Gas Oils	173	73	1,993	17	103	2,359	6
Heavy Gas Oils	-	-	-	-	-	-	-
Residuum	-	-	-	-	-	-	-
Motor Gasoline Blend.Comp. (MGBC)	373	1,663	28,927	1	1,863	32,827	90
Reformulated	15	0	321	-	21	357	1
Conventional	358	1,663	28,606	1	1,842	32,470	89
Aviation Gasoline Blend. Comp.	-	-	-	-	-	-	-
Finished Petroleum Products	50,491	15,671	1,003,762	278	125,399	1,195,602	3,276
Finished Motor Gasoline	5,575	2,125	276,271	10	14,334	298,315	817
Reformulated	-	-	-	-	-	-	-
Conventional	5,575	2,125	276,271	10	14,334	298,315	817
Finished Aviation Gasoline	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	7,556	605	63,994	-	9,519	81,674	224
Kerosene	783	8	777	-	55	1,622	4
Distillate Fuel Oil	12,295	3,143	420,539	53	46,103	482,133	1,321
15 ppm sulfur and under	8,042	95	346,808	15	31,538	386,497	1,059
Greater than 15 ppm to 500 ppm sulfur	2,984	1,252	33,961	38	5,472	43,707	120
Greater than 500 ppm sulfur	1,270	1,796	39,770	-	9,094	51,929	142
Residual Fuel Oil	12,670	1,713	59,097	88	10,354	83,923	230
Naphtha for Petro. Feed. Use	-	-	-	-	-	-	-
Other Oils for Petro. Feed. Use	-	-	-	-	-	-	-
Special Naphthas	-	-	-	-	-	-	-
Lubricants	2,560	2,179	29,750	90	3,590	38,169	105
Waxes	717	406	295	2	65	1,486	4
Petroleum Coke	7,206	3,888	146,325	2	40,751	198,173	543
Asphalt and Road Oil	962	1,571	6,172	29	626	9,359	26
Miscellaneous Products	166	33	542	4	3	748	2
Total	130,081	198,254	2,640,316	2,378	155,903	3,126,933	8,567

- = 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, December 2019
(Thousand Barrels)

Destination	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
Argentina	—	1	—	268	—	—	—	—	—	—
Australia	1,642	586	—	0	—	696	696	—	—	—
Bahamas	—	2	—	—	—	92	92	0	0	0
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	678	1,042	—	1	—	146	146	—	180	180
Belize	—	—	—	—	—	—	—	—	—	—
Brazil	3,328	855	—	472	—	2,942	2,942	—	1,114	1,114
Canada	14,486	8,309	—	1,359	—	965	965	—	556	556
Cayman Islands	—	—	—	—	—	0	0	0	—	0
Chile	799	577	—	21	—	424	424	—	—	—
China	536	219	—	54	—	—	—	—	—	—
Colombia	550	0	—	1,769	—	659	659	—	—	—
Costa Rica	—	193	—	—	—	615	615	—	—	—
Denmark	1,862	—	—	—	—	—	—	—	—	—
Dominican Republic	502	1,314	—	0	—	459	459	—	—	—
Ecuador	—	870	—	15	—	830	830	—	701	701
Egypt	—	1,017	—	—	—	—	—	—	—	—
El Salvador	—	239	—	—	—	314	314	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—
France	6,252	241	—	—	—	—	—	—	—	—
Germany	1,953	—	—	6	—	—	—	—	—	—
Ghana	—	793	—	—	—	—	—	—	—	—
Gibraltar	—	524	—	—	—	—	—	—	—	—
Greece	1,372	0	—	—	—	—	—	—	—	—
Guatemala	—	418	—	—	—	1,321	1,321	—	37	37
Honduras	—	205	—	—	—	417	417	0	80	80
Hong Kong	—	—	—	0	—	—	—	—	—	—
India	8,517	2,378	—	10	—	—	—	—	—	—
Indonesia	974	—	—	1	—	—	—	—	—	—
Ireland	1,797	—	—	0	—	—	—	—	—	—
Israel	722	0	—	0	—	—	—	—	—	—
Italy	4,241	—	—	8	—	—	—	—	—	—
Jamaica	—	104	—	—	—	347	347	—	0	0
Japan	1,489	16,938	—	513	—	1	1	1	1	2
Korea, South	13,262	3,160	—	2,269	—	1	1	2	32	34
Lebanon	—	—	—	—	—	—	—	—	—	—
Mexico	—	5,593	—	654	—	17,757	17,757	130	161	291
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	762	—	—	—	—	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—	—	—
Netherlands	12,187	2,899	—	349	—	3	3	—	—	—
New Zealand	—	—	—	0	—	0	0	—	—	—
Nicaragua	400	—	—	—	—	90	90	—	—	—
Nigeria	—	382	—	0	—	324	324	—	—	—
Norway	220	1,217	—	125	—	0	0	—	—	—
Pakistan	—	—	—	—	—	0	0	—	—	—
Panama	—	550	—	—	—	924	924	0	—	0
Peru	813	250	—	11	—	546	546	—	—	—
Philippines	—	—	—	—	—	—	—	—	—	—
Portugal	—	1,064	—	—	—	—	—	—	—	—
Puerto Rico	—	13	—	0	—	2	2	—	—	—
Romania	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	1	—	—	—	—	—	—
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—	—	—
Singapore	7,075	1,133	—	8	—	—	—	—	—	—
South Africa	—	240	—	0	—	—	—	—	—	—
Spain	3,156	1,769	—	—	—	—	—	—	—	—
Switzerland	608	—	—	0	—	—	—	—	—	—
Taiwan	4,179	1,160	—	17	—	—	—	—	—	—
Thailand	4,512	—	—	1	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	0	—	590	590	—	—	—
Turkey	—	687	—	—	—	—	—	—	—	—
United Arab Emirates	786	—	—	0	—	9	9	—	—	—
United Kingdom	11,960	1,020	—	0	—	0	0	—	—	—
Venezuela	—	1	—	—	—	0	0	0	—	0
Other	2,873	1,558	—	10	—	177	177	1	—	1
Total	113,731	60,283	—	7,942	—	30,651	30,651	134	2,862	2,996

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, December 2019
(Thousand Barrels) – Continued

Destination	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
Argentina	–	–	0	–	–	–	870	–	–	–	870
Australia	–	0	0	–	–	–	–	–	–	–	–
Bahamas	–	–	–	–	–	–	588	–	295	–	883
Bahrain	–	–	–	–	–	–	–	–	–	–	–
Belgium	–	–	0	–	–	–	–	–	–	–	–
Belize	–	–	–	–	–	–	–	38	–	–	38
Brazil	–	0	733	–	–	–	5,860	299	298	–	6,457
Canada	–	0	755	52	–	–	0	62	317	–	380
Cayman Islands	–	–	–	–	–	–	126	–	–	–	126
Chile	248	–	2	–	–	–	2,829	–	–	–	2,829
China	–	0	0	–	–	–	0	–	–	–	0
Colombia	–	–	168	–	–	–	941	–	–	–	941
Costa Rica	–	0	0	–	–	–	710	–	–	–	710
Denmark	–	–	–	–	–	–	–	–	–	–	–
Dominican Republic	–	–	0	–	–	–	348	–	683	–	1,032
Ecuador	–	0	0	–	–	–	839	–	813	–	1,652
Egypt	–	–	0	–	–	–	–	–	–	–	–
El Salvador	–	–	–	–	–	–	84	311	–	–	395
Finland	–	–	–	–	–	–	–	–	–	–	–
France	–	0	0	–	–	–	–	–	–	–	–
Germany	–	0	–	0	–	–	–	–	–	–	–
Ghana	–	–	–	–	–	–	–	–	–	–	–
Gibraltar	–	–	–	–	–	–	–	–	–	–	–
Greece	–	–	–	–	–	–	–	–	–	–	–
Guatemala	–	–	–	–	–	–	405	653	–	–	1,058
Honduras	–	–	–	–	–	–	120	364	–	–	484
Hong Kong	–	–	–	–	–	–	–	–	–	–	–
India	0	0	662	–	–	–	0	–	–	–	0
Indonesia	–	–	0	–	–	–	–	–	–	–	–
Ireland	–	–	–	–	–	–	–	–	–	–	–
Israel	–	–	0	–	–	–	180	–	–	–	180
Italy	–	–	0	–	–	–	–	–	–	–	–
Jamaica	–	–	73	–	–	–	80	–	148	–	228
Japan	–	665	0	–	–	–	2	–	–	–	2
Korea, South	–	0	373	0	–	–	3	–	–	–	3
Lebanon	–	–	–	–	–	–	381	–	–	–	381
Mexico	978	1	105	3	–	–	8,353	41	83	–	8,477
Montenegro	–	–	–	–	–	–	–	–	–	–	–
Morocco	–	–	–	–	–	–	812	–	–	–	812
Mozambique	–	–	–	–	–	–	–	–	–	–	–
Netherlands	158	3	259	–	–	–	1,579	–	545	–	2,123
New Zealand	–	–	–	–	–	–	0	–	–	–	0
Nicaragua	–	–	0	–	–	–	–	120	–	–	120
Nigeria	–	–	–	–	–	–	–	–	–	–	–
Norway	–	–	–	–	–	–	90	–	–	–	90
Pakistan	–	–	–	–	–	–	–	–	–	–	–
Panama	–	–	–	–	–	–	2,949	484	489	–	3,922
Peru	–	–	81	28	–	–	2,663	–	–	–	2,663
Philippines	–	0	121	–	–	–	–	–	–	–	–
Portugal	–	–	–	–	–	–	–	–	–	–	–
Puerto Rico	0	0	1	–	–	–	1	–	–	–	1
Romania	–	–	–	–	–	–	–	–	–	–	–
Saudi Arabia	0	–	–	–	–	–	–	–	–	–	–
Serbia (Excludes Kosovo) ..	–	–	–	–	–	–	–	–	–	–	–
Singapore	–	0	29	0	–	–	37	–	–	–	37
South Africa	–	–	–	–	–	–	–	–	–	–	–
Spain	–	–	0	–	–	–	499	156	–	–	655
Switzerland	–	–	20	–	–	–	0	–	–	–	0
Taiwan	–	0	–	–	–	–	–	–	–	–	–
Thailand	–	0	0	–	–	–	–	–	–	–	–
Trinidad and Tobago	–	–	–	–	–	–	0	60	524	–	584
Turkey	–	–	22	–	–	–	–	–	–	–	–
United Arab Emirates	–	–	0	–	–	–	–	–	–	–	–
United Kingdom	–	0	84	–	–	–	650	–	–	–	650
Venezuela	–	–	–	–	–	–	2	–	–	–	2
Other	1	2	2	–	–	–	1,195	851	435	–	2,480
Total	1,385	671	3,490	83	–	–	33,196	3,439	4,630	–	41,265

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, December 2019
(Thousand Barrels) — Continued

Destination	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks	
							Naphtha	Other Oils
Argentina	—	—	—	89	—	—	—	—
Australia	—	—	—	—	—	—	—	—
Bahamas	0	—	—	162	—	1,021	—	—
Bahrain	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—
Belize	—	—	—	—	—	—	—	—
Brazil	—	—	—	346	—	—	—	—
Canada	284	—	—	2,296	—	949	—	—
Cayman Islands	—	—	—	26	—	0	—	—
Chile	—	—	—	—	—	—	—	—
China	0	—	—	—	—	1	—	—
Colombia	0	—	—	—	—	1	—	—
Costa Rica	0	—	—	356	—	1	—	—
Denmark	—	—	—	—	—	—	—	—
Dominican Republic	—	—	—	136	—	—	—	—
Ecuador	1	—	—	—	—	214	—	—
Egypt	—	—	—	—	—	—	—	—
El Salvador	—	—	—	60	—	—	—	—
Finland	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—
Ghana	—	—	—	—	—	—	—	—
Gibraltar	—	—	—	210	—	—	—	—
Greece	—	—	—	—	—	—	—	—
Guatemala	0	—	—	32	—	30	—	—
Honduras	—	—	—	66	—	253	—	—
Hong Kong	—	—	—	—	—	—	—	—
India	0	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—
Ireland	—	—	—	—	—	—	—	—
Israel	—	—	—	154	—	—	—	—
Italy	—	—	—	—	—	—	—	—
Jamaica	—	—	—	130	—	—	—	—
Japan	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	0	—	—
Lebanon	—	—	—	—	—	379	—	—
Mexico	15	—	—	2,626	—	1,533	—	—
Montenegro	—	—	—	—	—	—	—	—
Morocco	—	—	—	—	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	401	—	—
New Zealand	—	—	—	—	—	—	—	—
Nicaragua	—	—	—	—	—	—	—	—
Nigeria	0	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—
Pakistan	—	—	—	—	—	—	—	—
Panama	—	—	—	443	—	261	—	—
Peru	0	—	—	—	—	—	—	—
Philippines	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—
Puerto Rico	0	—	—	0	—	0	—	—
Romania	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—
Singapore	—	—	—	308	—	743	—	—
South Africa	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	130	—	—
Switzerland	—	—	—	—	—	—	—	—
Taiwan	—	—	—	—	—	—	—	—
Thailand	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	101	—	—	—	—
Turkey	—	—	—	—	—	—	—	—
United Arab Emirates	0	—	—	—	—	0	—	—
United Kingdom	—	—	—	605	—	—	—	—
Venezuela	—	—	—	0	—	—	—	—
Other	1	—	—	653	—	682	—	—
Total	301	—	—	8,799	—	6,599	—	—

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, December 2019
(Thousand Barrels) — Continued

Destination	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
Argentina	0	165	0	3	0	1,396	1,396	—	45	45
Australia	1	330	1	8	0	1,622	3,264	53	52	105
Bahamas	—	—	5	1	—	2,167	2,167	—	70	70
Bahrain	0	—	—	0	—	0	0	—	0	0
Belgium	0	111	—	448	1	1,928	2,607	22	62	84
Belize	—	—	—	1	—	39	39	—	1	1
Brazil	0	1,505	—	326	1	14,751	18,080	107	476	583
Canada	98	777	168	213	5	17,166	31,652	467	554	1,021
Cayman Islands	—	—	0	0	—	153	153	—	5	5
Chile	1	—	—	73	0	4,175	4,973	26	135	160
China	2	1,140	1	13	0	1,431	1,967	17	46	63
Colombia	0	—	1	85	0	3,624	4,173	18	117	135
Costa Rica	0	55	30	12	—	1,973	1,973	—	64	64
Denmark	—	176	—	—	—	176	2,038	60	6	66
Dominican Republic	0	390	101	15	—	3,447	3,949	16	111	127
Ecuador	0	—	0	39	—	4,321	4,321	—	139	139
Egypt	—	6	—	0	—	1,022	1,022	—	33	33
El Salvador	—	143	—	5	—	1,156	1,156	—	37	37
Finland	—	—	—	0	—	0	0	—	0	0
France	0	610	—	1	—	852	7,104	202	27	229
Germany	2	185	1	2	—	197	2,150	63	6	69
Ghana	—	—	—	0	—	794	794	—	26	26
Gibraltar	—	—	—	—	—	734	734	—	24	24
Greece	—	457	—	1	—	458	1,830	44	15	59
Guatemala	0	—	—	10	—	2,906	2,906	—	94	94
Honduras	0	242	—	12	—	1,759	1,759	—	57	57
Hong Kong	0	—	—	1	0	2	2	—	0	0
India	0	2,738	0	39	0	5,827	14,344	275	188	463
Indonesia	0	0	1	1	0	3	977	31	0	32
Ireland	—	375	—	0	0	376	2,173	58	12	70
Israel	0	—	—	3	0	336	1,059	23	11	34
Italy	—	397	0	0	0	406	4,647	137	13	150
Jamaica	—	—	—	13	0	896	896	—	29	29
Japan	1	1,876	1	18	3	20,021	21,509	48	646	694
Korea, South	0	0	0	8	0	5,849	19,110	428	189	616
Lebanon	—	—	—	—	—	760	760	—	25	25
Mexico	15	1,243	349	1,044	103	40,788	40,788	—	1,316	1,316
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	457	—	0	—	2,030	2,030	—	65	65
Mozambique	—	63	—	—	—	63	63	—	2	2
Netherlands	13	320	1	84	1	6,614	18,801	393	213	606
New Zealand	—	110	2	0	—	113	113	—	4	4
Nicaragua	—	—	—	4	—	214	614	13	7	20
Nigeria	—	0	—	81	—	788	788	—	25	25
Norway	—	58	—	0	—	1,489	1,709	7	48	55
Pakistan	0	—	0	0	0	1	1	—	0	0
Panama	—	—	43	28	—	6,171	6,171	—	199	199
Peru	0	182	—	54	0	3,815	4,628	26	123	149
Philippines	0	—	—	3	0	124	124	—	4	4
Portugal	0	—	—	0	—	1,064	1,064	—	34	34
Puerto Rico	—	—	1	9	—	27	27	—	1	1
Romania	—	289	—	0	—	289	289	—	9	9
Saudi Arabia	0	—	—	41	—	42	42	—	1	1
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—	—	—
Singapore	0	—	0	55	0	2,316	9,391	228	75	303
South Africa	0	94	—	69	—	403	403	—	13	13
Spain	0	365	—	1	0	2,921	6,077	102	94	196
Switzerland	—	—	—	0	—	20	628	20	1	20
Taiwan	1	—	0	4	0	1,183	5,362	135	38	173
Thailand	0	—	0	2	0	4	4,515	146	0	146
Trinidad and Tobago	0	—	—	4	0	1,279	1,279	—	41	41
Turkey	0	1,411	—	1	—	2,121	2,121	—	68	68
United Arab Emirates	0	377	—	44	—	432	1,218	25	14	39
United Kingdom	0	35	0	1	0	2,396	14,356	386	77	463
Venezuela	—	—	—	3	—	7	7	—	0	0
Other	3	688	4	49	3	6,294	9,170	93	204	299
Total	137	17,370	710	2,932	117	185,731	299,463	3,669	5,991	9,660

— = 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-December 2019
(Thousand Barrels)

Destination	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
Argentina	13	1	—	2,906	—	1,200	1,200	—	0	0
Australia	15,680	4,066	—	8	—	3,395	3,395	5	—	5
Bahamas	—	560	—	1	—	1,268	1,268	1	1	2
Bahrain	—	—	—	0	—	3	3	—	0	0
Belgium	1,559	2,242	—	747	—	146	146	—	180	180
Belize	—	—	—	—	—	371	371	—	320	320
Brazil	19,459	17,032	—	11,050	—	20,706	20,706	—	4,195	4,195
Canada	167,612	98,266	—	19,721	—	10,185	10,185	—	8,766	8,766
Cayman Islands	—	80	—	—	—	480	480	1	0	1
Chile	12,980	9,793	—	99	—	2,623	2,623	—	—	—
China	48,680	6,727	—	1,541	—	15	15	0	—	0
Colombia	6,964	250	—	16,819	—	7,789	7,789	0	808	808
Costa Rica	—	1,886	—	318	—	5,453	5,453	—	—	—
Denmark	12,176	0	—	121	—	1	1	0	0	0
Dominican Republic	5,143	15,868	—	1,253	—	4,591	4,591	0	62	62
Ecuador	—	13,450	—	72	—	10,171	10,171	—	2,799	2,799
Egypt	—	6,957	—	0	—	—	—	—	1	1
El Salvador	—	3,189	—	5	—	4,395	4,395	0	0	1
Finland	—	150	—	0	—	1	1	—	—	—
France	30,166	8,526	—	242	—	2	2	—	0	0
Germany	11,575	112	—	78	—	2	2	0	0	0
Ghana	—	2,267	—	0	—	0	0	—	—	—
Gibraltar	—	2,832	—	—	—	318	318	—	—	—
Greece	5,020	0	—	—	—	0	0	—	—	—
Guatemala	—	4,676	—	38	—	13,525	13,525	0	1,597	1,597
Honduras	—	5,664	—	9	—	6,107	6,107	1	941	942
Hong Kong	—	552	—	1	—	—	—	—	1	1
India	93,339	39,258	—	54	—	0	0	1	—	1
Indonesia	1,604	23,169	—	19	—	—	—	—	—	—
Ireland	15,120	—	—	0	—	—	—	—	—	—
Israel	4,336	2	—	8	—	9	9	—	—	—
Italy	46,140	284	—	16	—	474	474	—	0	0
Jamaica	946	563	—	2	—	2,875	2,875	0	3	3
Japan	18,737	154,441	—	7,472	—	320	320	8	1	9
Korea, South	155,555	43,645	—	6,708	—	195	195	8	87	95
Lebanon	—	—	—	0	—	—	—	—	—	—
Mexico	533	54,822	—	3,693	—	172,271	172,271	317	11,781	12,097
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	13,224	—	0	—	—	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—	—	—
Netherlands	102,402	20,871	—	5,003	—	1,589	1,589	0	217	217
New Zealand	—	4	—	0	—	0	0	0	—	0
Nicaragua	4,000	0	—	1	—	1,647	1,647	—	—	—
Nigeria	—	2,600	—	130	—	1,120	1,120	—	—	—
Norway	8,701	11,124	—	427	—	1	1	—	—	—
Pakistan	—	—	—	—	—	0	0	—	—	—
Panama	13,733	552	—	5	—	8,266	8,266	0	147	147
Peru	10,616	2,329	—	37	—	6,087	6,087	—	257	257
Philippines	280	1,587	—	2	—	0	0	—	—	—
Portugal	—	5,657	—	—	—	—	—	—	—	—
Puerto Rico	—	114	—	20	—	26	26	—	2	2
Romania	—	0	—	0	—	—	—	—	—	—
Saudi Arabia	—	5	—	12	—	0	0	—	0	0
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—	—	—
Singapore	30,835	5,863	—	409	—	455	455	0	50	50
South Africa	1,292	1,912	—	0	—	508	508	0	0	0
Spain	17,711	14,075	—	0	—	498	498	—	1	1
Switzerland	608	289	—	0	—	85	85	0	0	0
Taiwan	58,808	14,218	—	1,748	—	4	4	—	0	0
Thailand	40,808	0	—	9	—	—	—	—	—	—
Trinidad and Tobago	—	130	—	1	—	3,306	3,306	—	240	240
Turkey	—	8,370	—	0	—	2	2	1	—	1
United Arab Emirates	14,009	1	—	3	—	34	34	0	—	0
United Kingdom	88,001	16,531	—	3	—	11	11	0	0	0
Venezuela	—	272	—	2,041	—	1,496	1,496	7	2	10
Other	21,672	23,857	—	1,326	—	4,289	4,289	7	11	17
Total	1,086,813	664,915	—	84,178	—	298,315	298,315	357	32,470	32,827

See footnotes at end of table.

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

Destination	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
Argentina	—	—	1	0	—	—	10,704	310	386	—	11,400
Australia	0	0	89	—	—	—	4	—	0	—	4
Bahamas	—	1	1	—	—	—	7,359	150	3,544	—	11,052
Bahrain	—	—	0	—	—	—	—	—	—	—	—
Belgium	62	0	1	0	—	—	603	—	533	—	1,135
Belize	—	—	0	—	—	—	151	513	78	—	742
Brazil	0	0	8,095	0	—	—	66,505	2,603	4,092	—	73,200
Canada	—	5	7,867	2,419	—	—	1,136	4,671	2,163	—	7,970
Cayman Islands	—	—	—	0	—	—	1,030	—	—	—	1,030
Chile	2,845	—	13	—	—	—	36,137	310	641	—	37,088
China	0	4	2	—	—	—	14	299	—	—	313
Colombia	—	—	1,909	0	—	—	13,712	—	—	—	13,712
Costa Rica	24	0	3	—	—	—	7,891	—	1	—	7,892
Denmark	—	—	—	—	—	—	414	—	—	—	414
Dominican Republic	0	—	14	—	—	—	4,649	1,300	4,016	—	9,964
Ecuador	—	0	0	—	—	—	6,559	3,160	2,189	—	11,908
Egypt	—	—	0	—	—	—	193	—	—	—	193
El Salvador	—	—	—	—	—	—	1,614	3,963	—	—	5,577
Finland	—	—	223	—	—	—	58	—	—	—	58
France	—	2	126	—	—	—	10,635	1,017	1	—	11,653
Germany	0	0	0	7	—	—	1	—	—	—	1
Ghana	—	—	—	—	—	—	2	—	—	—	2
Gibraltar	—	—	—	—	—	—	4,047	499	6,281	—	10,827
Greece	—	—	0	—	—	—	—	—	—	—	—
Guatemala	—	0	1	—	—	—	6,258	7,231	922	—	14,412
Honduras	—	0	260	—	—	—	1,936	3,128	1,363	—	6,427
Hong Kong	—	0	0	0	—	—	246	—	—	—	246
India	170	0	4,342	1	—	—	33	—	—	—	33
Indonesia	59	—	0	—	—	—	—	—	—	—	—
Ireland	—	0	0	—	—	—	254	—	—	—	254
Israel	—	0	2	—	—	—	180	—	—	—	180
Italy	—	—	2	—	—	—	1,138	—	—	—	1,138
Jamaica	—	0	508	—	—	—	1,559	71	937	—	2,566
Japan	—	10,707	123	0	—	—	8	24	—	—	32
Korea, South	155	1	2,560	0	—	—	726	—	0	—	726
Lebanon	—	—	0	—	—	—	1,523	—	—	—	1,523
Mexico	9,141	8	744	15	—	—	102,866	1,075	774	—	104,714
Montenegro	—	—	—	—	—	—	—	—	—	—	—
Morocco	—	—	—	10	—	—	8,405	77	—	—	8,482
Mozambique	—	—	—	—	—	—	—	—	—	—	—
Netherlands	310	16	1,269	152	—	—	13,668	1,420	4,036	—	19,124
New Zealand	—	—	0	0	—	—	0	—	—	—	0
Nicaragua	—	—	0	—	—	—	377	1,605	210	—	2,191
Nigeria	—	—	523	—	—	—	0	—	—	—	0
Norway	0	—	139	—	—	—	501	—	—	—	501
Pakistan	—	—	0	—	—	—	0	—	—	—	0
Panama	—	0	0	—	—	—	13,917	2,408	6,765	—	23,090
Peru	—	0	1,132	96	—	—	25,044	—	—	—	25,044
Philippines	—	0	1,657	—	—	—	0	—	—	—	0
Portugal	—	—	—	—	—	—	—	—	—	—	—
Puerto Rico	1	2	161	—	—	—	10	72	—	—	82
Romania	—	—	—	—	—	—	320	—	—	—	320
Saudi Arabia	0	1	348	—	—	—	3	—	—	—	3
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—	—	—	—
Singapore	112	3	125	3	—	—	1,251	197	3,322	—	4,770
South Africa	—	—	0	—	—	—	1	—	—	—	1
Spain	0	—	270	—	—	—	6,884	703	450	—	8,037
Switzerland	—	0	256	6	—	—	674	—	4	—	678
Taiwan	0	0	4	—	—	—	3	9	—	—	12
Thailand	—	0	0	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	0	—	—	—	1,351	1,983	2,582	—	5,915
Turkey	—	—	69	—	—	—	2	—	—	—	2
United Arab Emirates	—	—	474	—	—	—	2	1	—	—	2
United Kingdom	—	0	659	—	—	—	11,889	—	—	—	11,889
Venezuela	259	—	—	—	—	—	279	—	—	—	279
Other	826	4	1,199	1	—	—	11,771	4,908	6,639	—	23,325
Total	13,964	10,754	35,171	2,710	—	—	386,497	43,707	51,929	—	482,133

See footnotes at end of table.

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

Destination	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks	
							Naphtha	Other Oils
Argentina	—	—	—	1,140	—	0	—	—
Australia	—	—	—	—	—	1	—	—
Bahamas	0	—	—	859	—	4,476	—	—
Bahrain	—	—	—	0	—	—	—	—
Belgium	—	—	—	—	—	0	—	—
Belize	—	—	—	134	—	0	—	—
Brazil	0	—	—	3,163	—	808	—	—
Canada	1,336	—	—	19,163	—	9,243	—	—
Cayman Islands	2	—	—	362	—	2	—	—
Chile	5	—	—	2,715	—	1	—	—
China	1	—	—	0	—	8	—	—
Colombia	0	—	—	297	—	1	—	—
Costa Rica	16	—	—	2,089	—	2	—	—
Denmark	—	—	—	99	—	—	—	—
Dominican Republic	1	—	—	2,653	—	892	—	—
Ecuador	2	—	—	9	—	3,632	—	—
Egypt	0	—	—	—	—	0	—	—
El Salvador	1	—	—	474	—	0	—	—
Finland	—	—	—	453	—	0	—	—
France	0	—	—	—	—	—	—	—
Germany	—	—	—	—	—	0	—	—
Ghana	—	—	—	—	—	345	—	—
Gibraltar	—	—	—	210	—	2,755	—	—
Greece	—	—	—	—	—	—	—	—
Guatemala	31	—	—	2,024	—	620	—	—
Honduras	11	—	—	618	—	2,775	—	—
Hong Kong	0	—	—	—	—	—	—	—
India	0	—	—	1	—	66	—	—
Indonesia	—	—	—	—	—	—	—	—
Ireland	—	—	—	—	—	—	—	—
Israel	1	—	—	1,667	—	154	—	—
Italy	—	—	—	0	—	—	—	—
Jamaica	0	—	—	1,223	—	5,047	—	—
Japan	1	—	—	0	—	65	—	—
Korea, South	0	—	—	3	—	232	—	—
Lebanon	—	—	—	0	—	4,448	—	—
Mexico	190	—	—	20,689	—	18,221	—	—
Montenegro	—	—	—	—	—	—	—	—
Morocco	—	—	—	329	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—
Netherlands	—	—	—	1,590	—	8,279	—	—
New Zealand	0	—	—	—	—	0	—	—
Nicaragua	1	—	—	32	—	93	—	—
Nigeria	0	—	—	—	—	—	—	—
Norway	—	—	—	293	—	—	—	—
Pakistan	0	—	—	—	—	—	—	—
Panama	1	—	—	5,840	—	8,095	—	—
Peru	1	—	—	1,793	—	1	—	—
Philippines	—	—	—	0	—	—	—	—
Portugal	—	—	—	—	—	—	—	—
Puerto Rico	0	—	—	1	—	1	—	—
Romania	—	—	—	—	—	—	—	—
Saudi Arabia	0	—	—	3	—	1	—	—
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—
Singapore	1	—	—	309	—	7,255	—	—
South Africa	—	—	—	318	—	0	—	—
Spain	—	—	—	—	—	130	—	—
Switzerland	—	—	—	—	—	—	—	—
Taiwan	0	—	—	0	—	1	—	—
Thailand	—	—	—	—	—	0	—	—
Trinidad and Tobago	0	—	—	2,097	—	—	—	—
Turkey	1	—	—	5	—	—	—	—
United Arab Emirates	3	—	—	0	—	1,052	—	—
United Kingdom	0	—	—	2,875	—	885	—	—
Venezuela	—	—	—	18	—	1	—	—
Other	16	—	—	6,126	—	4,335	—	—
Total	1,622	—	—	81,674	—	83,923	—	—

See footnotes at end of table.

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

Destination	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
Argentina	5	430	2	370	0	17,456	17,469	0	48	48
Australia	7	2,625	2	234	4	10,439	26,119	43	29	72
Bahamas	0	—	33	35	0	18,288	18,288	—	50	50
Bahrain	0	—	—	4	—	7	7	—	0	0
Belgium	0	3,654	1	4,957	12	13,138	14,698	4	36	40
Belize	—	—	—	13	0	1,580	1,580	—	4	4
Brazil	8	15,613	0	4,266	8	158,143	177,602	53	433	487
Canada	1,048	9,439	2,316	3,009	87	200,839	368,452	459	550	1,009
Cayman Islands	—	—	8	12	—	1,977	1,977	—	5	5
Chile	5	2	550	867	1	56,607	69,587	36	155	191
China	25	13,358	11	199	10	22,214	70,893	133	61	194
Colombia	2	239	4	1,136	4	42,971	49,934	19	118	137
Costa Rica	2	242	237	170	0	18,334	18,334	—	50	50
Denmark	0	1,178	—	0	—	1,814	13,990	33	5	38
Dominican Republic	3	2,269	1,215	239	1	39,026	44,169	14	107	121
Ecuador	0	1,684	1	668	0	44,397	44,397	—	122	122
Egypt	—	1,555	286	93	—	9,086	9,086	—	25	25
El Salvador	0	329	0	268	—	14,239	14,239	—	39	39
Finland	0	293	0	8	—	1,186	1,186	—	3	3
France	2	2,934	—	602	—	24,089	54,255	83	66	149
Germany	30	474	9	30	2	744	12,319	32	2	34
Ghana	0	—	0	3	—	2,617	2,617	—	7	7
Gibraltar	—	—	—	0	—	16,942	16,942	—	46	46
Greece	—	2,670	0	3	—	2,674	7,695	14	7	21
Guatemala	1	3,270	0	215	—	40,409	40,409	—	111	111
Honduras	0	2,230	232	146	0	25,421	25,421	—	70	70
Hong Kong	2	—	0	17	2	821	821	—	2	2
India	15	32,990	7	833	2	77,772	171,111	256	213	469
Indonesia	1	1	12	120	1	23,381	24,985	4	64	68
Ireland	0	1,642	—	1	1	1,898	17,018	41	5	47
Israel	0	1,272	0	131	0	3,426	7,762	12	9	21
Italy	2	6,093	1	32	0	8,042	54,182	126	22	148
Jamaica	0	0	1	446	1	13,236	14,182	3	36	39
Japan	37	23,268	10	142	42	196,668	215,405	51	539	590
Korea, South	3	2,509	7	89	3	56,931	212,486	426	156	582
Lebanon	—	870	0	6	—	6,848	6,848	—	19	19
Mexico	214	19,012	3,592	12,653	540	432,618	433,151	1	1,185	1,187
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	4,366	1	1	—	26,413	26,413	—	72	72
Mozambique	—	921	—	—	—	921	921	—	3	3
Netherlands	38	3,734	17	657	5	62,871	165,273	281	172	453
New Zealand	1	567	3	10	—	585	585	—	2	2
Nicaragua	—	—	—	51	—	4,016	8,016	11	11	22
Nigeria	0	199	33	1,109	—	5,715	5,715	—	16	16
Norway	0	1,208	—	4	—	13,697	22,398	24	38	61
Pakistan	1	591	1	2	0	595	595	—	2	2
Panama	0	520	429	472	0	47,417	61,149	38	130	168
Peru	1	717	0	787	1	38,286	48,902	29	105	134
Philippines	1	303	0	19	2	3,571	3,851	1	10	11
Portugal	0	1,003	—	0	—	6,660	6,660	—	18	18
Puerto Rico	0	0	30	143	0	584	584	—	2	2
Romania	0	1,751	—	2	0	2,072	2,072	—	6	6
Saudi Arabia	1	429	1	93	0	896	896	—	2	2
Serbia (Excludes Kosovo) ..	—	—	0	0	—	0	0	—	—	—
Singapore	1	193	151	165	0	19,866	50,701	84	54	139
South Africa	1	853	1	605	—	4,199	5,490	4	12	15
Spain	3	4,961	0	24	0	27,999	45,710	49	77	125
Switzerland	0	—	—	1	—	1,317	1,925	2	4	5
Taiwan	12	0	3	71	1	16,075	74,883	161	44	205
Thailand	1	420	4	35	2	472	41,279	112	1	113
Trinidad and Tobago	0	0	0	83	0	11,773	11,773	—	32	32
Turkey	0	10,767	0	152	—	19,370	19,370	—	53	53
United Arab Emirates	0	1,627	6	706	0	3,910	17,919	38	11	49
United Kingdom	3	1,537	2	25	1	34,421	122,422	241	94	335
Venezuela	0	30	—	63	0	4,468	4,468	—	12	12
Other	10	9,331	140	872	15	75,673	97,347	60	207	267
Total	1,486	198,173	9,359	38,169	748	2,040,120	3,126,933	2,978	5,589	8,567

— = 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, December 2019
(Thousand Barrels per Day)

Country of Origin	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	1,289	-37	-	53	-	-38	-38	0	-16	-16
Algeria	5	-	-	0	-	-	-	-	-	-
Angola	11	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	232	-28	-	0	-	-27	-27	-	-23	-23
Equatorial Guinea	-	4	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	0	0	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	386	-	-	37	-	-	-	-	-	-
Kuwait	38	-	-	0	-	-	-	-	-	-
Libya	34	-	-	-	-	-	-	-	-	-
Nigeria	156	-12	-	0	-	-10	-10	-	7	7
Saudi Arabia	453	-	-	17	-	-	-	-	-	-
United Arab Emirates	-25	-	-	0	-	0	0	-	-	-
Venezuela	-	0	-	-	-	0	0	0	-	0
Non-OPEC	1,873	-1,724	18	428	-	-889	-889	209	236	445
Argentina	-	0	-	-4	-	-	-	-	-	-
Aruba	-	-	-	-	-	-2	-2	-	-	-
Australia	-53	-19	-	0	-	-22	-22	-	-	-
Bahamas	-	0	-	-	-	-3	-3	0	0	0
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-22	-34	-	42	-	-5	-5	-	4	4
Brazil	0	-28	-	-10	-	-95	-95	-	-23	-23
Brunei	96	-	-	-	-	-	-	-	-	-
Cameroon	18	-	-	-	-	-	-	-	-	-
Canada	3,667	-96	17	-29	-	-12	-12	123	21	144
Chad	-	-	-	-	-	-	-	-	-	-
China	-17	-7	-	-2	-	-	-	-	-	-
Colombia	275	0	-	-57	-	-21	-21	-	9	9
Denmark	-44	-	-	-	-	-	-	-	-	-
Dominican Republic	-16	-42	-	0	-	-15	-15	-	-	-
Estonia	-	-	-	-	-	-	-	-	0	0
Finland	-	-	-	-	-	-	-	-	11	11
France	-202	-8	-	-	-	36	36	-	-	-
Germany	-63	-	-	2	-	-	-	-	-	-
Guatemala	9	-13	-	-	-	-43	-43	-	-1	-1
Honduras	-	-7	-	-	-	-13	-13	0	-3	-3
India	-275	-77	-	0	-	-	-	-	21	21
Indonesia	-31	-	-	0	-	-	-	-	-	-
Italy	-137	-	-	22	-	-	-	-	5	5
Japan	-48	-546	-	-17	-	0	0	0	0	0
Korea, South	-428	-102	-	-73	-	0	0	0	-1	-1
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	10	10
Malaysia	-	-	-	0	-	-	-	-	-	-
Mexico	553	-180	-	9	-	-573	-573	-4	4	0
Netherlands	-393	-94	-	-7	-	0	0	26	13	38
Norway	9	-39	-	-4	-	4	4	4	24	27
Oman	-	-	-	-	-	-	-	-	-	-
Panama	-	-18	-	-	-	-30	-30	0	-	0
Portugal	-	-34	-	-	-	-	-	-	46	46
Puerto Rico	-	0	-	0	-	0	0	-	-	-
Qatar	-	-	-	-	-	0	0	-	-	-
Russia	169	-	-	432	-	-	-	8	48	56
Spain	-102	-57	-	19	-	3	3	4	8	12
Sweden	-	-11	-	-	-	-	-	-	-	-
Trinidad and Tobago	61	-	-	0	-	-19	-19	-	-	-
United Kingdom	-369	-33	-	0	-	0	0	50	14	64
Vietnam	-23	-	-	0	-	-	-	0	-	0
Virgin Islands, U.S.	-	-5	-	-	-	-3	-3	-	0	0
Yemen	-	-	-	-	-	-	-	-	-	-
Other	-761	-274	1	105	-	-76	-76	-2	26	26
Total	3,162	-1,761	18	481	-	-927	-927	209	220	429
Persian Gulf²	851	-	-	54	-	0	0	-	-	-

See footnotes at end of table.

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

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	0	0	0	-	-	-	-35	-	-36	-	-71
Algeria	-	-	-	-	-	-	-8	-	-10	-	-18
Angola	-	-	0	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	0	0	-	-	-	-27	-	-26	-	-53
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	0	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	0	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	0	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	0	-	-	-	0
Non-OPEC	-35	-17	-104	11	22	-	-743	-110	-113	-	-966
Argentina	-	-	0	-	-	-	-28	-	-	-	-28
Aruba	-	-	-	-	-	-	-2	-	-	-	-2
Australia	-	0	0	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-19	-	-10	-	-28
Bahrain	-	-	-	-	5	-	-	-	-	-	-
Belgium	4	-	0	-	-	-	16	-	-	-	16
Brazil	6	4	-15	-	-	-	-189	-10	-10	-	-208
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	0	-24	6	-	-	149	-1	-9	-	139
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	0	0	-	-	-	0	-	-	-	0
Colombia	-	-	-5	-	-	-	-3	-	-	-	-3
Denmark	-	-	-	-	-	-	-	-	-	-	-
Dominican Republic	-	-	0	-	-	-	-11	-	-22	-	-33
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	0	0	-	-	-	-	-	-	-	-
Germany	-	0	-	5	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-13	-21	-	-	-34
Honduras	-	-	-	-	-	-	-4	-12	-	-	-16
India	0	0	-21	-	-	-	51	-	-	-	51
Indonesia	-	-	0	-	-	-	-	-	-	-	-
Italy	-	-	0	-	-	-	-	-	-	-	-
Japan	-	-21	0	-	-	-	0	-	-	-	0
Korea, South	-	0	-12	2	-	-	0	-	-	-	0
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	0	0	-	-	-	-	-	-	-	-
Mexico	-32	0	-3	0	-	-	-269	-1	-3	-	-273
Netherlands	-5	0	-8	-	-	-	-23	-	-18	-	-41
Norway	-	-	-	-	-	-	-3	-	-	-	-3
Oman	-	-	-	-	-	-	0	-	-	-	0
Panama	-	-	-	-	-	-	-95	-16	-16	-	-127
Portugal	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	0	0	0	-	-	-	0	-	-	-	0
Qatar	-	-	0	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	22	-	-	-	22
Spain	-	-	0	-	-	-	-16	-5	-	-	-21
Sweden	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	0	-2	-17	-	-19
United Kingdom	-	0	-3	-	-	-	-21	-	-	-	-21
Vietnam	-	0	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-8	0	-13	-2	17	-	-285	-42	-8	-	-337
Total	-35	-17	-104	11	22	-	-778	-110	-149	-	-1,037
Persian Gulf²	0	-	0	-	5	-	-	-	-	-	-

See footnotes at end of table.

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

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks	
							Naphtha	Other Oils
OPEC	0	-	-	8	-	18	-	-
Algeria	-	-	-	-	-	11	-	-
Angola	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-
Ecuador	0	-	-	-	-	-4	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-
Iraq	-	-	-	3	-	10	-	-
Kuwait	-	-	-	5	-	-	-	-
Libya	-	-	-	-	-	-	-	-
Nigeria	0	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-
United Arab Emirates	0	-	-	-	-	0	-	-
Venezuela	-	-	-	0	-	-	-	-
Non-OPEC	-10	1	-	-121	14	-66	13	3
Argentina	-	-	-	-3	-	11	-	1
Aruba	0	-	-	-5	-	-	-	-
Australia	-	-	-	-	-	-	-	-
Bahamas	0	-	-	0	-	-33	-	-
Bahrain	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	0	-
Brazil	-	-	-	-11	2	7	-	-
Brunei	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-
Canada	-9	0	-	-63	5	9	4	2
Chad	-	-	-	-	-	-	-	-
China	0	-	-	10	-	0	-	-
Colombia	0	-	-	-	-	8	-	-
Denmark	-	-	-	-	-	-	-	-
Dominican Republic	-	-	-	-4	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	2	-	-
Guatemala	0	-	-	-1	-	-1	-	-
Honduras	-	-	-	-2	-	-8	-	-
India	0	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Japan	-	-	-	10	1	-	3	-
Korea, South	-	-	-	103	6	0	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-11	-	-
Mexico	0	-	-	-85	-	-8	7	-
Netherlands	-	1	-	-	-	-10	-	-
Norway	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-
Panama	-	-	-	0	-	-8	-	-
Portugal	-	-	-	-	-	-	-	-
Puerto Rico	0	-	-	0	-	0	-	-
Qatar	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	17	-	-
Spain	-	-	-	-	-	-4	-	-
Sweden	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-3	-	-	-	-
United Kingdom	-	-	-	-20	-	-	0	-
Vietnam	-	-	-	0	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-11	-	-
Yemen	-	-	-	-	-	-	-	-
Other	-1	0	-	-47	0	-26	-1	0
Total	-10	1	-	-113	14	-48	13	3
Persian Gulf²	0	-	-	8	-	10	-	-

See footnotes at end of table.

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

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products
OPEC	0	-12	0	-7	-	-102	1,187
Algeria	0	-	-	0	-	-6	-2
Angola	-	-	-	-	-	0	11
Congo (Brazzaville)	-	-	-	-	-	-	-
Ecuador	0	-	0	-1	-	-137	95
Equatorial Guinea	-	-	-	0	-	4	4
Gabon	-	-	-	-	-	0	0
Iran	-	-	-	-	-	-	-
Iraq	-	-	-	0	-	50	436
Kuwait	-	-	-	0	-	5	43
Libya	-	-	-	0	-	0	34
Nigeria	-	0	-	-3	-	-19	138
Saudi Arabia	0	-	-	-1	-	16	468
United Arab Emirates	0	-12	-	-1	-	-14	-39
Venezuela	-	-	-	0	-	0	0
Non-OPEC	-1	-543	16	-40	-4	-3,547	-1,674
Argentina	0	-1	0	0	0	-25	-25
Aruba	-	-	-	0	-	-8	-8
Australia	0	-11	0	0	0	-52	-105
Bahamas	-	-	0	0	-	-65	-65
Bahrain	0	-	-	0	-	5	5
Belgium	0	-4	-	-14	0	10	-12
Brazil	0	-49	-	-11	0	-430	-430
Brunei	-	-	-	-	-	-	96
Cameroon	-	-	-	0	-	0	18
Canada	-1	-24	27	1	0	96	3,763
Chad	-	-	-	-	-	-	-
China	1	-37	0	0	0	-35	-53
Colombia	0	-	2	-3	0	-70	205
Denmark	-	-6	-	-	-	-6	-50
Dominican Republic	0	-13	-3	0	-	-111	-127
Estonia	-	-	-	0	-	0	0
Finland	-	-	-	0	-	11	11
France	0	-20	-	1	-	9	-193
Germany	0	-6	0	0	-	4	-59
Guatemala	0	-	-	0	-	-94	-84
Honduras	0	-8	-	0	-	-57	-57
India	0	-88	0	-1	0	-117	-391
Indonesia	0	0	0	5	0	5	-26
Italy	1	-13	0	2	0	17	-120
Japan	0	-61	0	-1	0	-631	-679
Korea, South	0	0	0	17	0	-60	-488
Latvia	-	-	-	0	0	0	0
Lithuania	0	-	-	-	-	10	10
Malaysia	0	0	-	0	0	-11	-11
Mexico	0	-40	-11	-34	-3	-1,228	-674
Netherlands	0	-10	0	-1	0	-137	-530
Norway	-	-2	-	0	-	-16	-7
Oman	-	-2	0	0	-	-2	-2
Panama	-	-	-1	-1	-	-184	-184
Portugal	0	-	-	0	-	11	11
Puerto Rico	-	-	0	0	-	-1	-1
Qatar	-	-	-	9	-	9	9
Russia	-	0	-	0	-	527	696
Spain	0	-12	5	0	0	-56	-158
Sweden	0	-1	-	0	-	-12	-12
Trinidad and Tobago	0	-	-	0	0	-41	20
United Kingdom	0	-1	0	0	0	-13	-382
Vietnam	0	-1	0	0	0	-1	-23
Virgin Islands, U.S.	-	-	0	0	-	-19	-19
Yemen	-	-	-	0	-	0	0
Other	-2	-133	-3	-9	-1	-779	-1,543
Total	-1	-555	16	-47	-4	-3,649	-487
Persian Gulf²	0	-12	-	6	-	70	921

- = 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-December 2019
(Thousand Barrels per Day)

Country of Origin	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	1,443	-43	-	97	-	-35	-35	0	13	14
Algeria	19	-	-	56	-	-	-	-	-	-
Angola	33	-	-	2	-	-	-	-	2	2
Congo (Brazzaville)	15	-	-	-	-	-	-	-	-	-
Ecuador	199	-37	-	3	-	-28	-28	-	-8	-8
Equatorial Guinea	9	1	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	0	0	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	331	-	-	6	-	-	-	-	-	-
Kuwait	45	0	-	0	-	0	0	0	-	0
Libya	60	-	-	3	-	-	-	-	-	-
Nigeria	186	-7	-	1	-	-3	-3	-	5	5
Saudi Arabia	500	0	-	15	-	0	0	0	7	7
United Arab Emirates	-36	0	-	15	-	0	0	0	3	3
Venezuela	81	-1	-	-5	-	-4	-4	0	4	4
Non-OPEC	2,375	-1,597	20	317	-	-701	-701	191	391	582
Argentina	30	1	-	-7	-	-3	-3	-	2	2
Aruba	-	0	-	0	-	-1	-1	-	-	-
Australia	-43	-11	-	1	-	-9	-9	0	-	0
Bahamas	-	-2	-	0	-	-3	-3	0	0	0
Bahrain	-	-	-	0	-	0	0	-	0	0
Belgium	-4	-6	-	44	-	1	1	4	15	19
Brazil	68	-47	-	-26	-	-57	-57	-	38	38
Brunei	32	-	-	-1	-	-	-	-	-	-
Cameroon	9	-	-	2	-	-	-	-	-	-
Canada	3,351	-93	17	-35	-	-12	-12	99	29	128
Chad	5	-	-	-	-	-	-	-	0	0
China	-133	-18	-	-4	-	0	0	0	1	1
Colombia	299	-1	-	-44	-	-21	-21	0	11	11
Denmark	-20	0	-	1	-	0	0	0	1	1
Dominican Republic	-14	-43	-	-3	-	-13	-13	0	0	0
Estonia	-	-	-	-	-	0	0	-	0	0
Finland	-	0	-	1	-	2	2	0	22	23
France	-83	-23	0	3	-	18	18	5	3	8
Germany	-32	0	-	6	-	0	0	0	2	2
Guatemala	7	-13	-	0	-	-37	-37	0	-4	-4
Honduras	-	-16	-	0	-	-17	-17	0	-3	-3
India	-256	-108	-	6	-	0	0	0	64	64
Indonesia	-4	-63	-	0	-	-	-	-	2	2
Italy	-126	-1	-	12	-	-1	-1	0	14	14
Japan	-51	-423	-	-17	-	1	1	0	7	7
Korea, South	-426	-120	-	-18	-	8	8	0	6	6
Latvia	-	-	-	0	-	0	0	-	0	0
Lithuania	-2	-	-	0	-	-	-	-	5	5
Malaysia	-4	0	-	1	-	0	0	-	1	1
Mexico	598	-150	1	-4	-	-472	-472	-1	-27	-28
Netherlands	-279	-57	-	-3	-	2	2	32	45	76
Norway	23	-30	-	13	-	2	2	2	20	22
Oman	-	-	-	-2	-	-	-	-	0	0
Panama	-38	-2	-	0	-	-23	-23	0	0	0
Portugal	-	-15	-	-	-	1	1	2	24	27
Puerto Rico	-	0	-	0	-	0	0	-	0	0
Qatar	-	0	-	0	-	0	0	-	0	0
Russia	132	0	-	301	-	2	2	4	43	47
Spain	-48	-39	-	12	-	3	3	1	27	28
Sweden	-5	-18	-	5	-	1	1	0	2	3
Trinidad and Tobago	46	0	-	0	-	-9	-9	-	0	0
United Kingdom	-177	-45	-	5	-	15	15	41	18	59
Vietnam	-12	-1	-	0	-	0	0	0	0	0
Virgin Islands, U.S.	-	-10	-	-	-	-1	-1	0	0	0
Yemen	-	-	-	-	-	-	-	-	-	-
Other	-468	-243	2	68	-	-78	-78	2	23	23
Total	3,817	-1,640	20	414	-	-736	-736	191	405	596
Persian Gulf²	840	0	-	37	-	0	0	0	10	11

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-December 2019
(Thousand Barrels per Day) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil					Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm		
OPEC	-1	0	-4	-	-	-	-15	-11	-8	0	-33	
Algeria	-	-	0	-	-	-	-1	-2	-2	-	-5	
Angola	-	0	0	-	-	-	-	-	-	-	-	
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	
Ecuador	-	0	0	-	-	-	-18	-9	-6	0	-32	
Equatorial Guinea	-	-	-	-	-	-	0	-	0	-	0	
Gabon	-	-	-	-	-	-	0	-	-	-	0	
Iran	-	-	-	-	-	-	-	-	-	-	-	
Iraq	-	-	-	-	-	-	0	-	-	-	0	
Kuwait	-	-	0	-	-	-	0	-	-	-	0	
Libya	-	-	-	-	-	-	0	-	-	-	0	
Nigeria	-	-	-1	-	-	-	1	-	-	-	1	
Saudi Arabia	0	0	-1	-	-	-	3	-	-	-	3	
United Arab Emirates	-	-	-1	-	-	-	1	0	-	-	1	
Venezuela	-1	-	-	-	-	-	0	-	-	-	0	
Non-OPEC	-36	-26	-80	4	17	-	-858	-107	-130	4	-1,091	
Argentina	1	-	0	0	-	-	-29	-1	-1	-	-31	
Aruba	-	-	0	-	-	-	-1	-	-	-	-1	
Australia	0	0	0	-	-	-	0	-	0	-	0	
Bahamas	-	0	0	-	-	-	-19	0	-10	1	-28	
Bahrain	-	-	0	-	0	-	-	-	-	-	-	
Belgium	0	0	0	0	-	-	0	-	-1	-	-2	
Brazil	1	3	-9	0	-	-	-182	-7	-11	-	-201	
Brunei	-	-	-	-	-	-	0	-	-	-	0	
Cameroon	-	-	0	-	-	-	0	-	-	-	0	
Canada	-	0	-22	-2	-	-	109	-12	-3	2	97	
Chad	-	-	-	-	-	-	-	-	-	-	-	
China	0	0	0	-	-	-	1	-1	-	-	0	
Colombia	-	-	-5	0	-	-	-13	-	-	-	-13	
Denmark	-	-	-	-	-	-	-1	-	-	-	-1	
Dominican Republic	0	-	0	-	-	-	-13	-4	-11	-	-27	
Estonia	-	-	-	-	-	-	-	-	-	-	-	
Finland	-	-	-1	-	-	-	0	-	-	-	0	
France	-	0	0	0	-	-	-29	-3	0	-	-32	
Germany	0	0	0	3	-	-	0	-	0	-	0	
Guatemala	-	0	0	-	-	-	-17	-20	-3	-	-39	
Honduras	-	0	-1	-	-	-	-5	-9	-4	-	-18	
India	0	0	-12	0	-	-	24	-	-	-	24	
Indonesia	0	-	0	-	-	-	1	-	-	-	1	
Italy	-	-	0	-	-	-	-3	-	-	-	-3	
Japan	-	-29	0	0	-	-	1	0	-	-	1	
Korea, South	0	0	-7	1	-	-	-1	-	0	-	-1	
Latvia	-2	-	-	-	-	-	0	-	-	-	0	
Lithuania	-	-	-	-	-	-	-	-	-	-	-	
Malaysia	0	0	0	-	-	-	1	-	-1	-	0	
Mexico	-25	0	-2	0	-	-	-282	-3	-2	-	-287	
Netherlands	-1	0	-3	0	-	-	-35	-4	-11	-	-50	
Norway	0	-	0	-	-	-	-1	-	-	-	-1	
Oman	-	-	-2	-	-	-	0	-	-	-	0	
Panama	-	0	0	-	-	-	-38	-7	-19	-	-63	
Portugal	-	-	-	-	-	-	-	-	-	-	-	
Puerto Rico	0	0	0	-	-	-	0	0	-	-	0	
Qatar	-	-	0	-	-	-	6	-	-	-	6	
Russia	-	0	0	-	-	-	4	1	-	1	6	
Spain	0	-	-1	1	-	-	-19	-2	-1	-	-22	
Sweden	-	-	0	-	-	-	0	-	-	-	0	
Trinidad and Tobago	-	-	0	-	-	-	-4	-5	-7	-	-16	
United Kingdom	-	0	-2	-	-	-	-33	-	-	-	-33	
Vietnam	-	0	0	-	-	-	0	-	-	-	0	
Virgin Islands, U.S.	-	-	0	-	-	-	-3	0	-5	-	-8	
Yemen	-	-	-	-	-	-	-	-	-	-	-	
Other	-10	0	-13	1	17	-	-277	-30	-40	0	-349	
Total	-37	-26	-84	4	17	-	-873	-118	-138	5	-1,124	
Persian Gulf²	0	0	-2	-	0	-	9	0	-	-	9	

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-December 2019
(Thousand Barrels per Day) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks	
							Naphtha	Other Oils
OPEC	0	-	-	6	0	1	0	-
Algeria	-	-	-	-	-	2	-	-
Angola	-	-	-	-	-	1	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-
Ecuador	0	-	-	1	-	-9	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-
Gabon	0	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-
Iraq	0	-	-	1	-	2	-	-
Kuwait	-	-	-	1	-	-	-	-
Libya	-	-	-	0	-	0	-	-
Nigeria	0	-	-	0	-	-	-	-
Saudi Arabia	0	-	-	2	0	2	0	-
United Arab Emirates	0	-	-	2	-	-3	-	-
Venezuela	-	-	-	0	-	7	-	-
Non-OPEC	-3	1	-	-66	16	-84	14	3
Argentina	-	-	-	-3	-	8	-	0
Aruba	0	-	-	-2	-	-	-	-
Australia	-	-	-	-	-	0	-	-
Bahamas	0	-	-	-2	-	-9	-	-
Bahrain	-	-	-	0	-	-	-	-
Belgium	-	-	-	-	-	0	0	-
Brazil	0	-	-	-9	1	0	-	0
Brunei	-	-	-	-	-	-	-	-
Cameroon	-	-	-	0	-	-	-	-
Canada	-4	0	-	-33	2	7	3	2
Chad	-	-	-	-	-	-	-	-
China	0	-	-	6	-	0	-	-
Colombia	0	-	-	-1	-	14	-	-
Denmark	-	-	-	0	-	-	-	-
Dominican Republic	0	-	-	-7	-	-2	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-1	-	0	-	-
France	0	-	-	-	0	-	-	0
Germany	-	-	-	-	-	0	-	-
Guatemala	0	-	-	-6	-	-2	-	-
Honduras	0	-	-	-2	-	-8	-	-
India	0	-	-	2	1	0	-	-
Indonesia	-	-	-	-	-	-	-	-
Italy	-	-	-	0	-	-	0	-
Japan	2	-	-	18	3	0	2	0
Korea, South	0	0	-	94	9	-1	0	-
Latvia	-	-	-	0	-	-	-	-
Lithuania	0	-	-	-	-	1	-	-
Malaysia	0	-	-	-	-	-3	-	-
Mexico	-1	-	-	-57	1	-18	7	-
Netherlands	-	1	-	-4	0	-18	-	-
Norway	-	-	-	-1	-	1	-	-
Oman	-	-	-	-	-	1	-	-
Panama	0	-	-	-11	-	-22	-	-
Portugal	-	-	-	-	-	-	-	-
Puerto Rico	0	-	-	0	-	0	-	-
Qatar	0	-	-	1	-	-	-	-
Russia	-	-	-	0	0	25	-	-
Spain	-	-	-	-	-	0	-	-
Sweden	-	-	-	0	-	1	-	-
Trinidad and Tobago	0	-	-	-6	-	-	-	-
United Kingdom	0	-	-	-8	-	-2	1	-
Vietnam	0	-	-	0	-	0	-	-
Virgin Islands, U.S.	0	-	-	-5	-	-6	-	-
Yemen	-	-	-	-	-	-	-	-
Other	0	0	-	-29	-1	-51	1	1
Total	-3	1	-	-60	17	-83	14	3
Persian Gulf²	0	-	-	6	0	1	0	-

See footnotes at end of table.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-December 2019
(Thousand Barrels per Day) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products
OPEC	0	-11	0	-3	0	-11	1,432
Algeria	0	-	0	1	-	54	73
Angola	-	-	0	0	-	5	38
Congo (Brazzaville)	-	-	-	-	-	-	16
Ecuador	0	-5	0	-2	0	-116	83
Equatorial Guinea	-	-	-	0	-	1	10
Gabon	-	-	0	0	-	0	0
Iran	-	-	-	-	-	-	-
Iraq	-	-	0	0	-	9	340
Kuwait	0	0	0	0	-	1	45
Libya	-	-	-	0	-	3	63
Nigeria	0	-1	0	-3	0	-9	178
Saudi Arabia	0	-1	0	0	0	27	527
United Arab Emirates	0	-4	0	1	0	13	-22
Venezuela	0	0	0	0	0	-1	80
Non-OPEC	1	-526	17	-56	-2	-3,275	-901
Argentina	0	2	0	-1	0	-32	-2
Aruba	-	-	0	0	-	-4	-4
Australia	0	-7	0	-1	0	-28	-70
Bahamas	0	-	0	0	0	-44	-44
Bahrain	0	-	-	2	-	2	2
Belgium	0	-10	0	-13	0	33	29
Brazil	0	-42	0	-12	0	-359	-291
Brunei	-	-	-	0	-	-1	32
Cameroon	-	-	-	0	-	2	11
Canada	-1	-24	28	0	0	60	3,410
Chad	-	-	-	0	-	0	5
China	2	-37	0	-1	0	-51	-184
Colombia	0	-1	1	-3	0	-63	236
Denmark	0	-3	0	0	-	-2	-22
Dominican Republic	0	-6	-3	-1	0	-106	-120
Estonia	-	-	-	0	-	0	0
Finland	0	-1	0	0	-	23	23
France	0	-8	-	-1	-	-35	-117
Germany	0	-1	0	1	0	11	-21
Guatemala	0	-9	0	-1	-	-111	-104
Honduras	0	-6	-1	0	0	-70	-70
India	0	-90	0	-2	0	-116	-372
Indonesia	0	0	0	2	0	-59	-63
Italy	0	-17	0	1	0	5	-121
Japan	0	-64	0	0	0	-503	-554
Korea, South	0	-7	0	12	0	-23	-449
Latvia	-	-	-	0	0	-2	-2
Lithuania	0	0	-	0	-	6	4
Malaysia	0	-2	0	0	0	-4	-8
Mexico	-1	-52	-10	-35	-1	-1,134	-536
Netherlands	0	-10	0	-2	0	-69	-348
Norway	0	-3	-	0	-	2	25
Oman	0	0	0	0	-	-3	-3
Panama	0	-1	-1	-1	0	-125	-163
Portugal	0	-3	-	0	-	9	9
Puerto Rico	0	0	0	0	0	-2	-2
Qatar	0	0	0	10	-	17	17
Russia	0	0	0	1	-	383	515
Spain	0	-14	4	0	0	-28	-76
Sweden	0	-1	-	0	0	-9	-15
Trinidad and Tobago	0	0	0	0	0	-31	15
United Kingdom	0	-4	0	1	0	-13	-190
Vietnam	0	0	0	0	0	-2	-13
Virgin Islands, U.S.	-	-	0	0	0	-31	-31
Yemen	-	-	-	0	-	0	0
Other	1	-105	-1	-12	-1	-768	-1,239
Total	1	-537	17	-59	-2	-3,286	531
Persian Gulf²	0	-6	0	13	0	70	910

- = 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, December 2019
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Crude Oil	9,646	126,589	856,072	23,680	51,917	1,067,904
Refinery	7,152	14,197	44,480	2,671	21,995	90,495
Tank Farms and Pipelines (Includes Cushing, OK)	2,494	112,392	176,625	21,009	24,138	336,658
Cushing, Oklahoma	–	35,866	–	–	–	35,866
Leases	–	–	–	–	–	–
Strategic Petroleum Reserve ¹	–	–	634,967	–	–	634,967
Alaskan In Transit	–	–	–	–	5,784	5,784
Total Stocks, All Oils (excluding Crude Oil)²	158,280	177,695	401,829	23,133	95,162	856,099
Refinery	14,817	48,324	128,032	11,978	51,887	255,038
Bulk Terminal	114,792	91,354	213,229	6,692	37,837	463,904
Pipeline	28,393	36,407	59,001	4,257	5,132	133,190
Natural Gas Processing Plant	278	1,610	1,567	206	306	3,967
Natural Gas Liquids	9,314	46,981	144,603	3,777	4,094	208,769
Refinery	355	3,638	6,757	376	1,611	12,737
Bulk Terminal	7,082	25,644	115,575	964	2,177	151,442
Pipeline	1,599	16,089	20,704	2,231	–	40,623
Natural Gas Processing Plant	278	1,610	1,567	206	306	3,967
Ethane	739	5,415	50,689	556	–	57,399
Refinery	–	–	114	–	–	114
Bulk Terminal	462	2,398	43,103	–	–	45,963
Pipeline	277	2,877	7,237	550	–	10,941
Natural Gas Processing Plant	–	140	235	6	–	381
Propane	6,558	20,016	49,672	1,693	1,673	79,612
Refinery	97	1,149	892	46	132	2,316
Bulk Terminal	5,258	14,033	41,609	672	1,427	62,999
Pipeline	1,075	3,883	6,879	879	–	12,716
Natural Gas Processing Plant	128	951	292	96	114	1,581
Normal Butane	1,497	9,145	26,136	885	1,992	39,655
Refinery	142	1,544	3,990	232	1,100	7,008
Bulk Terminal	1,123	6,113	19,410	276	745	27,667
Pipeline	173	1,303	2,036	334	–	3,846
Natural Gas Processing Plant	59	185	700	43	147	1,134
Isobutane	168	1,897	8,479	273	388	11,205
Refinery	116	597	1,470	84	376	2,643
Bulk Terminal	–	573	5,678	–	–	6,251
Pipeline	38	570	1,171	171	–	1,950
Natural Gas Processing Plant	14	157	160	18	12	361
Natural Gasoline	352	10,508	9,627	370	41	20,898
Refinery	–	348	291	14	3	656
Bulk Terminal	239	2,527	5,775	16	5	8,562
Pipeline	36	7,456	3,381	297	–	11,170
Natural Gas Processing Plant	77	177	180	43	33	510
Refinery Olefins	308	315	8,235	75	20	8,953
Refinery	308	304	2,259	75	20	2,966
Bulk Terminal	–	11	5,976	–	–	5,987
Pipeline	–	–	–	–	–	–
Natural Gas Processing Plant	–	–	–	–	–	–
Ethylene	–	–	0	–	–	0
Refinery	–	–	0	–	–	0
Bulk Terminal	–	–	–	–	–	–
Pipeline	–	–	–	–	–	–
Natural Gas Processing Plant	–	–	–	–	–	–
Propylene	151	295	7,200	0	14	7,660
Refinery	151	284	1,224	0	14	1,673
Bulk Terminal	–	11	5,976	–	–	5,987
Pipeline	–	–	–	–	–	–
Natural Gas Processing Plant	–	–	–	–	–	–
Normal Butylene	142	20	1,030	75	6	1,273
Refinery	142	20	1,030	75	6	1,273
Bulk Terminal	–	–	–	–	–	–
Pipeline	–	–	–	–	–	–
Natural Gas Processing Plant	–	–	–	–	–	–
Isobutylene	15	0	5	0	0	20
Refinery	15	0	5	0	0	20
Bulk Terminal	–	–	–	–	–	–
Pipeline	–	–	–	–	–	–
Natural Gas Processing Plant	–	–	–	–	–	–
Other Hydrocarbons	–	10	–	–	–	10
Refinery	–	10	–	–	–	10
Oxygenates (excluding Fuel Ethanol)	–	2	1,410	–	–	1,412
Refinery	–	–	–	–	–	–
Bulk Terminal	–	2	1,410	–	–	1,412
Pipeline	–	–	–	–	–	–

See footnotes at end of table.

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

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
MTBE	-	-	1,035	-	-	1,035
Refinery	-	-	-	-	-	-
Bulk Terminal ³	-	-	1,035	-	-	1,035
Pipeline	-	-	-	-	-	-
Other Oxygenates⁴	-	2	375	-	-	377
Refinery	-	-	-	-	-	-
Bulk Terminal	-	2	375	-	-	377
Pipeline	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	8,579	8,803	5,552	462	4,413	27,809
Refinery	267	144	406	206	315	1,338
Bulk Terminal	8,312	8,659	5,146	252	4,098	26,467
Pipeline	-	-	-	4	-	4
Fuel Ethanol²	7,261	7,864	3,963	400	2,861	22,349
Refinery	260	106	185	148	31	730
Bulk Terminal	7,001	7,758	3,778	248	2,830	21,615
Pipeline	-	-	-	4	-	4
Renewable Diesel Fuel⁵	1,318	939	1,585	62	1,506	5,410
Refinery	7	38	221	58	284	608
Bulk Terminal	1,311	901	1,364	4	1,222	4,802
Pipeline	-	-	-	-	-	-
Other Renewable Fuels	-	-	4	-	46	50
Refinery	-	-	-	-	-	-
Bulk Terminal	-	-	4	-	46	50
Pipeline	-	-	-	-	-	-
Unfinished Oils	4,141	13,421	49,236	3,181	19,422	89,401
Naphthas and Lighter	1,268	3,553	11,407	755	3,625	20,608
Refinery	1,210	3,527	10,053	755	3,346	18,891
Bulk Terminal	58	26	1,354	-	279	1,717
Kerosene and Light Gas Oils	640	2,487	8,401	569	3,231	15,328
Refinery	640	2,487	6,464	569	3,141	13,301
Bulk Terminal	-	-	1,937	-	90	2,027
Heavy Gas Oils	1,619	5,146	22,807	1,414	9,790	40,776
Refinery	1,563	4,900	19,004	1,414	9,623	36,504
Bulk Terminal	56	246	3,803	-	167	4,272
Residuum	614	2,235	6,621	443	2,776	12,689
Refinery	614	2,048	6,383	443	2,756	12,244
Bulk Terminal	-	187	238	-	20	445
Motor Gasoline Blending Components²	60,972	47,679	82,389	6,358	30,455	227,853
Refinery	4,205	13,192	29,817	3,609	14,294	65,117
Bulk Terminal	45,997	25,972	33,301	1,843	13,490	120,603
Pipeline	10,770	8,515	19,271	906	2,671	42,133
Reformulated - RBOB	21,155	5,603	10,987	-	15,121	52,866
Refinery	1,216	1,178	1,635	-	5,366	9,395
Bulk Terminal	15,484	3,570	5,813	-	8,182	33,049
Pipeline	4,455	855	3,539	-	1,573	10,422
Conventional	39,817	42,076	71,402	6,358	15,334	174,987
Refinery	2,989	12,014	28,182	3,609	8,928	55,722
Bulk Terminal	30,513	22,402	27,488	1,843	5,308	87,554
Pipeline	6,315	7,660	15,732	906	1,098	31,711
CBOB	25,841	34,262	38,652	4,747	7,416	110,918
Refinery	473	5,347	11,550	2,001	2,053	21,424
Bulk Terminal	19,053	21,310	11,439	1,840	4,269	57,911
Pipeline	6,315	7,605	15,663	906	1,094	31,583
GTAB	1,108	-	-	-	-	1,108
Refinery	-	-	-	-	-	-
Bulk Terminal	1,108	-	-	-	-	1,108
Pipeline	-	-	-	-	-	-
Other	12,868	7,814	32,750	1,611	7,918	62,961
Refinery	2,516	6,667	16,632	1,608	6,875	34,298
Bulk Terminal	10,352	1,092	16,049	3	1,039	28,535
Pipeline	-	55	69	-	4	128
Aviation Gasoline Blending Components	-	-	42	-	-	42
Refinery	-	-	42	-	-	42
Bulk Terminal	-	-	-	-	-	-
Finished Motor Gasoline	4,632	7,321	9,399	1,921	2,701	25,974
Refinery	38	1,552	2,504	928	975	5,997
Bulk Terminal	1,518	3,032	4,820	779	1,538	11,687
Pipeline	3,076	2,737	2,075	214	188	8,290
Reformulated	28	-	-	-	13	41
Refinery	-	-	-	-	13	13
Bulk Terminal	28	-	-	-	-	28
Pipeline	-	-	-	-	-	-
Reformulated (Blended with Fuel Ethanol)	28	-	-	-	13	41
Refinery	-	-	-	-	13	13
Bulk Terminal	28	-	-	-	-	28
Pipeline	-	-	-	-	-	-

See footnotes at end of table.

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

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Reformulated (Other)	-	-	-	-	-	-
Refinery	-	-	-	-	-	-
Bulk Terminal	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-
Conventional	4,604	7,321	9,399	1,921	2,688	25,933
Refinery	38	1,552	2,504	928	962	5,984
Bulk Terminal	1,490	3,032	4,820	779	1,538	11,659
Pipeline	3,076	2,737	2,075	214	188	8,290
Conventional (Blended with Fuel Ethanol)	52	217	-	65	3	337
Refinery	-	-	-	63	-	63
Bulk Terminal	52	217	-	2	3	274
Pipeline	-	-	-	-	-	-
Ed55 and Lower	52	217	-	65	-	334
Refinery	-	-	-	63	-	63
Bulk Terminal	52	217	-	2	-	271
Pipeline	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-
Refinery	-	-	-	-	-	-
Bulk Terminal	-	-	-	-	3	3
Pipeline	-	-	-	-	-	-
Conventional (Other)	4,552	7,104	9,399	1,856	2,685	25,596
Refinery	38	1,552	2,504	865	962	5,921
Bulk Terminal	1,438	2,815	4,820	777	1,535	11,385
Pipeline	3,076	2,737	2,075	214	188	8,290
Finished Aviation Gasoline	199	151	560	8	184	1,102
Refinery	-	66	459	8	111	644
Bulk Terminal	199	85	101	-	73	458
Pipeline	-	-	-	-	-	-
Kerosene-Type Jet Fuel	8,845	6,767	14,377	709	9,755	40,453
Refinery	650	1,731	6,439	301	3,915	13,036
Bulk Terminal	4,605	3,171	3,978	287	4,949	16,990
Pipeline	3,590	1,865	3,960	121	891	10,427
Kerosene	2,205	322	283	1	44	2,855
Refinery	131	219	157	1	3	511
Bulk Terminal	2,039	103	10	-	41	2,193
Pipeline	35	-	116	-	-	151
Distillate Fuel Oil²	44,802	31,453	44,357	4,648	14,726	139,986
Refinery	2,101	6,727	16,209	2,124	6,403	33,564
Bulk Terminal	33,378	17,525	15,273	1,743	6,949	74,868
Pipeline	9,323	7,201	12,875	781	1,374	31,554
15 ppm sulfur and Under	39,732	30,459	36,536	4,423	13,548	124,698
Refinery	1,250	6,107	13,046	1,929	5,631	27,963
Bulk Terminal	29,927	17,473	11,384	1,715	6,611	67,110
Pipeline	8,555	6,879	12,106	779	1,306	29,625
Greater than 15 ppm to 500 ppm sulfur	1,471	480	2,077	138	276	4,442
Refinery	314	142	1,122	108	276	1,962
Bulk Terminal	1,151	33	857	28	-	2,069
Pipeline	6	305	98	2	-	411
Greater than 500 ppm sulfur	3,599	514	5,744	87	902	10,846
Refinery	537	478	2,041	87	496	3,639
Bulk Terminal	2,300	19	3,032	-	338	5,689
Pipeline	762	17	671	-	68	1,518
Residual Fuel Oil⁶	7,671	1,247	17,609	257	4,120	30,904
Refinery	760	935	3,500	257	1,898	7,350
Bulk Terminal	6,911	312	14,109	-	2,214	23,546
Pipeline	-	-	-	-	8	8
Less than 0.31% Sulfur	1,677	197	1,633	33	261	3,801
Refinery	275	60	31	33	-	399
Bulk Terminal	1,402	137	1,602	-	261	3,402
0.31% to 1.00% Sulfur	2,087	249	2,776	17	297	5,426
Refinery	130	187	211	17	144	689
Bulk Terminal	1,957	62	2,565	-	153	4,737
Greater than 1.00% Percent Sulfur	3,907	801	13,200	207	3,554	21,669
Refinery	355	688	3,258	207	1,754	6,262
Bulk Terminal	3,552	113	9,942	-	1,800	15,407
Petrochemical Feedstocks	45	520	2,581	-	8	3,154
Refinery	45	520	2,581	-	8	3,154
Naphtha for Petrochemical Feedstock Use	45	424	1,722	-	8	2,199
Other Oils for Petrochemical Feedstock Use	-	96	859	-	-	955
Special Naphthas	33	178	970	-	46	1,227
Refinery	15	94	963	-	46	1,118
Bulk Terminal	18	84	7	-	-	109
Lubricants	1,442	690	9,696	-	858	12,686
Refinery	855	212	6,097	-	650	7,814
Bulk Terminal	587	478	3,599	-	208	4,872
Waxes	409	41	276	-	-	726
Refinery	409	41	276	-	-	726
Petroleum Coke	-	2,076	5,055	189	1,739	9,059
Refinery	-	2,076	5,055	189	1,739	9,059
Asphalt and Road Oil	4,650	9,617	4,790	1,530	2,468	23,055
Refinery	618	3,800	2,198	706	924	8,246
Bulk Terminal	4,032	5,817	2,592	824	1,544	14,809

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

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Miscellaneous Products	33	101	409	17	109	669
Refinery	33	101	409	17	109	669
Bulk Terminal	—	—	—	—	—	—
Pipeline	—	—	—	—	—	—
Total Stocks, All Oils	167,926	304,284	1,257,901	46,813	147,079	1,924,003

— = 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, December 2019
(Thousand Barrels)

Commodity	Motor Gasoline			Motor Gasoline Blending Components ¹			Kerosene
	Reformulated	Conventional	Total	Reformulated	Conventional	Total	
PAD District 1	28	1,528	1,556	16,700	33,502	50,202	2,170
Connecticut	—	—	—	1,361	15	1,376	31
Delaware	—	—	—	802	277	1,079	117
District of Columbia	—	—	—	—	—	—	—
Florida	—	676	676	—	5,649	5,649	—
Georgia	—	295	295	—	2,043	2,043	—
Maine	—	—	—	331	316	647	158
Maryland	—	—	—	1,612	446	2,058	103
Massachusetts	2	—	2	1,621	13	1,634	43
New Hampshire	—	—	—	—	—	—	—
New Jersey	—	31	31	6,822	12,623	19,445	801
New York	26	14	40	934	2,387	3,321	474
North Carolina	—	239	239	—	2,376	2,376	236
Pennsylvania	—	31	31	805	4,602	5,407	134
Rhode Island	—	—	—	861	—	861	—
South Carolina	—	108	108	—	1,360	1,360	17
Vermont	—	52	52	—	—	—	6
Virginia	—	44	44	1,551	1,242	2,793	50
West Virginia	—	38	38	—	153	153	—
PAD District 2	—	4,584	4,584	4,748	34,416	39,164	322
Illinois	—	425	425	2,391	4,685	7,076	139
Indiana	—	243	243	1,003	4,193	5,196	29
Iowa	—	243	243	—	1,954	1,954	48
Kansas	—	358	358	—	3,738	3,738	20
Kentucky	—	225	225	453	1,248	1,701	1
Michigan	—	155	155	41	2,868	2,909	—
Minnesota	—	601	601	—	2,405	2,405	—
Missouri	—	349	349	308	691	999	—
Nebraska	—	111	111	—	805	805	—
North Dakota	—	111	111	—	859	859	—
Ohio	—	821	821	3	3,440	3,443	16
Oklahoma	—	601	601	—	4,216	4,216	69
South Dakota	—	42	42	—	343	343	—
Tennessee	—	178	178	—	1,771	1,771	—
Wisconsin	—	121	121	549	1,200	1,749	—
PAD District 3	—	7,324	7,324	7,448	55,670	63,118	167
Alabama	—	123	123	—	1,172	1,172	4
Arkansas	—	110	110	11	778	789	—
Louisiana	—	923	923	327	13,603	13,930	107
Mississippi	—	2,239	2,239	—	2,168	2,168	—
New Mexico	—	15	15	—	705	705	—
Texas	—	3,914	3,914	7,110	37,244	44,354	56
PAD District 4	—	1,707	1,707	—	5,452	5,452	1
Colorado	—	269	269	—	1,342	1,342	—
Idaho	—	343	343	—	153	153	—
Montana	—	417	417	—	1,452	1,452	—
Utah	—	127	127	—	1,533	1,533	1
Wyoming	—	551	551	—	972	972	—
PAD District 5	13	2,500	2,513	13,548	14,236	27,784	44
Alaska	—	776	776	—	—	—	41
Arizona	—	48	48	897	262	1,159	—
California	13	496	509	12,374	7,057	19,431	3
Hawaii	—	312	312	—	737	737	—
Nevada	—	228	228	13	356	369	—
Oregon	—	49	49	—	1,799	1,799	—
Washington	—	591	591	264	4,025	4,289	—
U.S. Total	41	17,643	17,684	42,444	143,276	185,720	2,704

See footnotes at end of table.

Table 56. Refinery, Bulk Terminal, and Natural Gas Plant Stocks of Selected Petroleum Products by PAD District and State, December 2019
(Thousand Barrels) — Continued

Commodity	Distillate Fuel Oil ¹				Residual Fuel Oil	Propane
	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	Greater than 500 ppm	Total		
PAD District 1	31,177	1,465	2,837	35,479	7,671	5,483
Connecticut	2,686	44	—	2,730	15	—
Delaware	535	25	95	655	618	15
District of Columbia	—	—	—	—	—	—
Florida	2,162	51	—	2,213	873	190
Georgia	1,248	—	—	1,248	235	15
Maine	1,578	3	21	1,602	94	—
Maryland	2,063	—	—	2,063	480	3
Massachusetts	1,656	26	63	1,745	150	—
New Hampshire	535	—	—	535	11	270
New Jersey	6,425	531	1,568	8,524	2,537	68
New York	4,563	59	102	4,724	1,851	1,385
North Carolina	1,480	—	9	1,489	—	469
Pennsylvania	2,811	332	638	3,781	739	2,095
Rhode Island	968	63	—	1,031	—	—
South Carolina	752	—	—	752	6	709
Vermont	95	—	—	95	—	—
Virginia	1,454	279	341	2,074	62	3
West Virginia	166	52	—	218	—	77
PAD District 2	23,580	175	497	24,252	1,247	16,133
Illinois	3,162	—	—	3,162	230	759
Indiana	2,530	—	68	2,598	106	324
Iowa	1,887	1	—	1,888	1	433
Kansas	2,229	—	—	2,229	33	9,706
Kentucky	871	2	—	873	115	246
Michigan	1,685	—	—	1,685	195	3,041
Minnesota	1,869	—	20	1,889	157	262
Missouri	626	30	5	661	103	221
Nebraska	815	—	—	815	—	359
North Dakota	924	2	—	926	27	51
Ohio	1,933	—	132	2,065	121	634
Oklahoma	2,253	132	159	2,544	53	45
South Dakota	577	—	—	577	—	9
Tennessee	1,200	—	—	1,200	94	4
Wisconsin	1,019	8	113	1,140	12	39
PAD District 3	24,430	1,979	5,073	31,482	17,609	42,793
Alabama	972	5	32	1,009	457	30
Arkansas	833	—	12	845	—	57
Louisiana	5,338	903	1,639	7,880	8,730	1,967
Mississippi	1,286	519	131	1,936	32	2,961
New Mexico	381	—	—	381	78	4
Texas	15,620	552	3,259	19,431	8,312	37,774
PAD District 4	3,644	136	87	3,867	257	814
Colorado	753	—	—	753	16	18
Idaho	268	—	—	268	—	—
Montana	1,069	70	—	1,139	92	29
Utah	749	18	87	854	58	684
Wyoming	805	48	—	853	91	83
PAD District 5	12,242	276	834	13,352	4,112	1,673
Alaska	1,060	—	74	1,134	184	5
Arizona	423	—	—	423	—	1,037
California	6,315	276	449	7,040	2,392	449
Hawaii	303	—	308	611	703	92
Nevada	584	—	3	587	—	—
Oregon	1,214	—	—	1,214	29	—
Washington	2,343	—	—	2,343	804	90
U.S. Total	95,073	4,031	9,328	108,432	30,896	66,896

— = 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, December 2019
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	335	40	0	4,961	63,905	6,768	5,076	1,975	20,354
Petroleum Products	16,206	36	0	20,779	37,623	9,003	6,052	112,762	20,785
Natural Gas Liquids	6,830	36	0	6,571	25,113	5,629	985	2,316	11,025
Ethane	4,867	0	-	0	10,794	855	-	0	794
Propane	1,123	1	0	4,812	8,055	2,611	337	2,273	2,253
Normal Butane	189	19	0	1,623	2,557	1,121	473	33	472
Isobutane	370	16	0	136	1,253	405	175	10	801
Natural Gasoline	281	0	-	0	2,454	637	-	0	6,705
Refinery Olefins	0	0	-	238	341	-	-	0	0
Ethylene	-	-	-	-	-	-	-	-	-
Propylene	0	0	-	238	341	-	-	0	0
Normal Butylene	-	-	-	-	-	-	-	-	-
Isobutylene	-	-	-	-	-	-	-	-	-
Unfinished Oils	44	0	0	0	365	-	0	0	303
Motor Gasoline Blending Components	6,309	0	0	1,093	2,263	1,295	0	58,912	4,501
Reformulated - RBOB	0	0	0	0	381	-	0	9,717	1,393
Conventional	6,309	0	0	1,093	1,882	1,295	0	49,195	3,108
CBOB	6,309	0	0	1,093	1,382	1,295	0	49,195	2,904
GTAB	-	-	-	-	-	-	-	-	-
Other	0	0	-	-	500	-	-	-	204
Renewable Fuels	0	0	0	9,446	6,579	411	4,872	459	0
Fuel Ethanol	0	0	0	9,187	6,256	376	4,557	459	0
Renewable Diesel Fuel ²	0	0	0	259	324	35	315	0	0
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	84	0	0	1,102	530	193	0	3,466	401
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	84	0	0	1,102	530	193	0	3,466	401
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	84	0	0	1,102	530	193	0	3,466	401
Finished Aviation Gasoline	0	0	-	0	0	-	-	94	10
Kerosene-Type Jet Fuel	318	0	0	41	20	905	0	16,808	1,741
Kerosene	14	0	-	0	0	-	-	274	0
Distillate Fuel Oil	2,583	0	0	1,184	807	547	0	29,531	2,303
15 ppm sulfur and under	2,583	0	0	1,148	807	547	0	27,768	2,094
Greater than 15 ppm to 500 ppm sulfur	0	0	-	36	0	-	-	3	166
Greater than 500 ppm sulfur	0	0	-	0	0	-	-	1,760	43
Residual Fuel Oil	0	0	-	-	728	-	-	-	0
Petrochemical Feedstocks	0	0	-	-	192	-	-	-	0
Naphtha for Petrochemical Feedstock Use	0	0	-	-	146	-	-	-	0
Other Oils for Petrochemical Feedstock Use	0	0	-	-	46	-	-	-	0
Special Naphthas	0	0	-	-	0	-	-	-	23
Lubricants	0	0	-	0	0	-	-	400	122
Waxes	-	-	-	-	-	-	-	-	-
Marketable Petroleum Coke	0	0	0	558	498	24	0	0	0
Asphalt and Road Oil	24	0	0	510	186	0	195	502	344
Miscellaneous Products	0	0	-	36	0	-	-	0	12
Total	16,541	76	0	25,740	101,527	15,771	11,128	114,737	41,139

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, December 2019
(Thousand Barrels) — Continued

Commodity	From 3 to		From 4 to				From 5 to		
	4	5	1	2	3	5	1	3	4
Crude Oil	0	515	0	27,788	982	0	0	0	0
Petroleum Products	0	4,892	0	13,353	3,684	2,818	0	186	20
Natural Gas Liquids	0	141	0	12,154	3,446	212	0	0	0
Ethane	0	—	0	2,429	1,220	—	0	0	0
Propane	0	0	0	5,059	1,019	7	0	0	0
Normal Butane	0	109	0	2,172	353	177	0	0	0
Isobutane	0	32	0	887	302	28	0	0	0
Natural Gasoline	0	—	0	1,607	552	—	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	0	161	—
Motor Gasoline Blending Components	0	3,558	0	155	0	1,352	0	0	0
Reformulated - RBOB	—	2,179	0	0	0	0	0	0	—
Conventional	0	1,379	0	155	0	1,352	0	0	0
CBOB	0	1,379	0	155	0	1,352	0	0	0
GTAB	—	—	—	—	—	—	—	—	—
Other	—	—	—	0	0	—	—	0	—
Renewable Fuels	0	229	0	0	0	28	0	0	0
Fuel Ethanol	0	0	0	0	0	28	0	0	0
Renewable Diesel Fuel ²	0	229	0	0	0	0	0	0	0
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	432	0	372	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	432	0	372	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	432	0	372	0	0	0
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	—
Kerosene-Type Jet Fuel	0	204	0	36	0	0	0	0	0
Kerosene	—	—	0	0	0	—	0	0	—
Distillate Fuel Oil	0	551	0	427	0	497	0	0	0
15 ppm sulfur and under	0	551	0	427	0	497	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	0	—
Residual Fuel Oil	—	—	—	0	0	—	—	0	—
Petrochemical Feedstocks	—	—	—	0	0	—	—	0	—
Naphtha for Petrochemical Feedstock Use	—	—	—	0	0	—	—	0	—
Other Oils for Petrochemical Feedstock Use	—	—	—	0	0	—	—	0	—
Special Naphthas	—	—	—	0	0	—	—	0	—
Lubricants	—	—	0	0	0	—	0	0	—
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	53	0	18	48	40	0	25	0
Asphalt and Road Oil	0	156	0	131	190	317	0	0	20
Miscellaneous Products	—	—	0	0	0	—	0	0	—
Total	0	5,407	0	41,141	4,666	2,818	0	186	20

— = 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, December 2019
(Thousand Barrels)

Commodity	From 1 to		From 2 to			From 3 to			
	2	3	1	3	4	1	2	4	5
Crude Oil	177	40	153	62,230	6,768	128	20,354	0	-
Petroleum Products	15,901	0	6,959	26,696	8,569	89,777	18,817	0	4,313
Natural Gas Liquids	6,600	0	4,554	24,135	5,629	2,122	10,602	0	-
Ethane	4,867	0	0	10,794	855	0	794	0	-
Propane	1,000	0	3,704	7,336	2,611	2,122	2,078	0	-
Normal Butane	133	0	850	2,442	1,121	0	305	0	-
Isobutane	319	0	0	1,109	405	0	720	0	-
Natural Gasoline	281	0	0	2,454	637	0	6,705	0	-
Motor Gasoline Blending Components	6,309	0	568	1,661	1,295	45,871	4,397	0	3,558
Reformulated - RBOB	0	0	0	381	-	9,717	1,393	-	2,179
Conventional	6,309	0	568	1,280	1,295	36,154	3,004	0	1,379
CBOB	6,309	0	568	1,280	1,295	36,154	2,904	0	1,379
GTAB	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	-	-	100	-	-
Renewable Fuels	-	-	-	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-	-	-	-
Renewable Diesel Fuel ¹	-	-	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	84	0	1,062	105	193	2,407	401	0	0
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	84	0	1,062	105	193	2,407	401	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	84	0	1,062	105	193	2,407	401	0	0
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	311	0	41	20	905	13,339	1,494	0	204
Kerosene	14	0	0	0	-	274	0	-	-
Distillate Fuel Oil	2,583	0	698	775	547	25,764	1,923	0	551
15 ppm sulfur and under	2,583	0	662	775	547	24,001	1,757	0	551
Greater than 15 ppm to 500 ppm sulfur	0	0	36	0	-	3	166	-	-
Greater than 500 ppm sulfur	-	0	0	0	-	1,760	-	-	-
Residual Fuel Oil	-	-	-	-	-	-	-	-	-
Miscellaneous Products	0	-	36	-	-	0	0	-	-
Total	16,078	40	7,112	88,926	15,337	89,905	39,171	0	4,313

See footnotes at end of table.

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

Commodity	From 4 to				From 5 to	
	1	2	3	5	3	4
Crude Oil	0	27,788	292	-	0	0
Petroleum Products	0	13,204	3,446	2,221	0	0
Natural Gas Liquids	0	12,154	3,446	-	0	0
Ethane	0	2,429	1,220	-	0	0
Propane	0	5,059	1,019	-	0	0
Normal Butane	0	2,172	353	-	0	0
Isobutane	0	887	302	-	0	0
Natural Gasoline	0	1,607	552	-	0	0
Motor Gasoline Blending Components	0	155	0	1,352	0	0
Reformulated - RBOB	0	0	0	0	0	-
Conventional	0	155	0	1,352	0	0
CBOB	0	155	0	1,352	0	0
GTAB	-	-	-	-	-	-
Other	-	0	0	-	0	-
Renewable Fuels	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-
Renewable Diesel Fuel ¹	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-
Finished Motor Gasoline	0	432	0	372	0	0
Reformulated	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-
Conventional	0	432	0	372	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-
Conventional Other	0	432	0	372	0	0
Finished Aviation Gasoline	-	-	-	-	-	-
Kerosene-Type Jet Fuel	0	36	0	0	0	0
Kerosene	0	0	0	-	0	-
Distillate Fuel Oil	0	427	0	497	0	0
15 ppm sulfur and under	0	427	0	497	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	0	0	-	-	-	-
Total	0	40,992	3,738	2,221	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, December 2019
(Thousand Barrels)

Commodity	From 1 to			From 2 to		
	2	3	5	1	3	5
Crude Oil	158	0	-	345	666	-
Petroleum Products	51	0	0	1,348	2,891	0
Natural Gas Liquids	-	0	-	0	0	-
Ethane	-	-	-	-	-	-
Propane	-	0	-	0	0	-
Normal Butane	-	-	-	-	-	-
Isobutane	-	-	-	-	-	-
Natural Gasoline	-	-	-	-	-	-
Unfinished Oils	44	0	0	0	365	0
Motor Gasoline Blending Components	0	0	-	525	602	-
Reformulated - RBOB	-	-	-	-	-	-
Conventional	0	0	-	525	602	-
CBOB	0	0	-	525	102	-
GTAB	-	-	-	-	-	-
Other	0	0	-	-	500	-
Renewable Fuels	0	0	0	297	497	0
Fuel Ethanol	0	0	-	297	418	-
Renewable Diesel Fuel ¹	0	0	0	-	79	0
Other Renewable Fuels	-	-	-	-	-	-
Finished Motor Gasoline	0	0	-	40	425	-
Reformulated	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-
Conventional	0	0	-	40	425	-
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-
Conventional Other	0	0	-	40	425	-
Finished Aviation Gasoline	0	0	-	0	0	-
Kerosene-Type Jet Fuel	7	0	-	0	0	-
Kerosene	-	-	-	-	-	-
Distillate Fuel Oil	0	0	-	486	32	-
15 ppm sulfur and under	0	0	-	486	32	-
Greater than 15 ppm to 500 ppm sulfur	-	-	-	-	-	-
Greater than 500 ppm sulfur	0	0	-	-	0	-
Residual Fuel Oil	0	0	-	-	728	-
Less than 0.31 percent sulfur	0	0	-	-	101	-
0.31 to 1.00 percent sulfur	0	0	-	-	196	-
Greater than 1.00 percent sulfur	0	0	-	-	431	-
Petrochemical Feedstocks	0	0	-	-	192	-
Naphtha for Petrochemical Feedstock Use	0	0	-	-	146	-
Other Oils for Petrochemical Feedstock Use	0	0	-	-	46	-
Special Naphthas	0	0	-	-	0	-
Lubricants	0	0	-	0	0	-
Waxes	-	-	-	-	-	-
Marketable Petroleum Coke	-	-	-	-	-	-
Asphalt and Road Oil	0	0	-	0	50	-
Miscellaneous Products	0	0	-	-	0	-
Total	209	0	0	1,693	3,557	0

See footnotes at end of table.

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

Commodity	From 3 to						From 5 to		
	1	New England	Central Atlantic	Lower Atlantic	2	5	1	2	3
Crude Oil	1,847	—	1,847	—	0	—	0	0	0
Petroleum Products	22,641	290	262	22,089	1,308	191	0	0	161
Natural Gas Liquids	22	—	—	22	—	—	0	—	0
Ethane	—	—	—	—	—	—	—	—	—
Propane	22	—	—	22	—	—	0	—	0
Normal Butane	—	—	—	—	—	—	—	—	—
Isobutane	—	—	—	—	—	—	—	—	—
Natural Gasoline	—	—	—	—	—	—	—	—	—
Unfinished Oils	0	—	—	—	303	0	0	0	161
Motor Gasoline Blending Components	13,041	—	—	13,041	104	—	0	0	0
Reformulated - RBOB	—	—	—	—	—	—	—	—	—
Conventional	13,041	—	—	13,041	104	—	0	0	0
CBOB	13,041	—	—	13,041	0	—	0	0	0
GTAB	—	—	—	—	—	—	—	—	—
Other	—	—	—	—	104	—	—	0	0
Renewable Fuels	459	—	—	459	0	191	0	0	0
Fuel Ethanol	459	—	—	459	0	—	0	0	0
Renewable Diesel Fuel ¹	—	—	—	—	0	191	—	0	0
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	1,059	—	—	1,059	0	—	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	1,059	—	—	1,059	0	—	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	1,059	—	—	1,059	0	—	0	0	0
Finished Aviation Gasoline	94	—	20	74	10	—	0	0	0
Kerosene-Type Jet Fuel	3,469	—	—	3,469	247	—	0	0	0
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	3,767	290	—	3,477	380	—	0	0	0
15 ppm sulfur and under	3,767	290	—	3,477	337	—	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	—	—	—	—	—	—	—
Greater than 500 ppm sulfur	—	—	—	—	43	—	—	0	0
Residual Fuel Oil	—	—	—	—	0	—	—	0	0
Less than 0.31 percent sulfur	—	—	—	—	0	—	—	0	0
0.31 to 1.00 percent sulfur	—	—	—	—	0	—	—	0	0
Greater than 1.00 percent sulfur	—	—	—	—	0	—	—	0	0
Petrochemical Feedstocks	—	—	—	—	0	—	—	0	0
Naphtha for Petrochemical Feedstock Use	—	—	—	—	0	—	—	0	0
Other Oils for Petrochemical Feedstock Use	—	—	—	—	0	—	—	0	0
Special Naphthas	—	—	—	—	23	—	—	0	0
Lubricants	400	—	242	158	122	—	0	0	0
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	330	—	—	330	107	—	0	0	0
Miscellaneous Products	—	—	—	—	12	—	—	0	0
Total	24,488	290	2,109	22,089	1,308	191	0	0	161

— = 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, December 2019
(Thousand Barrels)

Commodity	From 1 to				From 2 to			
	2	3	4	5	1	3	4	5
Crude Oil	0	0	0	0	4,463	1,009	0	5,076
Propane	123	1	0	0	1,108	719	0	337
Propylene	0	0	-	-	238	341	-	-
Normal Butane	56	19	0	0	773	115	0	473
Isobutane	51	16	0	0	136	144	0	175
Fuel Ethanol	0	0	0	0	8,890	5,838	376	4,557
Biodiesel	0	0	0	0	259	245	35	315
Marketable Petroleum Coke	0	0	0	0	558	498	24	0
Asphalt and Road Oil	24	0	0	0	510	136	0	195

Commodity	From 3 to				From 4 to			
	1	2	4	5	1	2	3	5
Crude Oil	0	0	0	515	0	0	690	0
Propane	129	175	0	0	0	0	0	7
Propylene	0	0	-	-	0	0	0	-
Normal Butane	33	167	0	109	0	0	0	177
Isobutane	10	81	0	32	0	0	0	28
Fuel Ethanol	0	0	0	0	0	0	0	28
Biodiesel	0	0	0	38	0	0	0	0
Marketable Petroleum Coke	0	0	0	53	0	18	48	40
Asphalt and Road Oil	172	237	0	156	0	131	190	317

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

- = 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, December 2019
(Thousand Barrels)

PADD	Pipeline	Tanker and Barge	Rail	Total
From 1 to				
2	177	158	0	335
3	40	0	0	40
4	0	-	0	0
5	-	-	0	0
From 2 to				
1	153	345	4,463	4,961
3	62,230	666	1,009	63,905
4	6,768	-	0	6,768
5	-	-	5,076	5,076
From 3 to				
1	128	1,847	0	1,975
2	20,354	0	0	20,354
4	0	-	0	0
5	-	-	515	515
From 4 to				
1	0	0	0	0
2	27,788	0	0	27,788
3	292	0	690	982
5	-	-	0	0
From 5 to				
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	-	0	0

- = No Data Reported.

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

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

Commodity	PAD District 1			PAD District 2			PAD District 3		
	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts
Crude Oil	6,936	375	6,561	48,477	80,709	-32,232	64,927	22,844	42,083
Petroleum Products	133,541	16,242	117,300	50,343	73,457	-23,114	41,529	138,439	-96,910
Natural Gas Liquids	8,887	6,866	2,021	30,009	38,298	-8,289	28,595	13,482	15,113
Ethane	0	4,867	-4,867	8,090	11,649	-3,559	12,014	794	11,220
Propane	7,085	1,124	5,961	8,435	15,815	-7,380	9,075	4,526	4,549
Normal Butane	1,656	208	1,448	2,833	5,774	-2,941	2,929	614	2,315
Isobutane	146	386	-240	2,058	1,969	89	1,571	843	728
Natural Gasoline	0	281	-281	8,593	3,091	5,502	3,006	6,705	-3,699
Refinery Olefins	238	0	238	0	579	-579	341	0	341
Ethylene	0	0	-	-	-	-	0	0	-
Propylene	238	0	238	0	579	-579	341	0	341
Normal Butylene	0	0	-	0	0	-	0	0	-
Isobutylene	0	0	-	0	0	-	0	0	-
Unfinished Oils	0	44	-44	347	365	-18	526	303	223
Motor Gasoline Blending Components	60,005	6,309	53,696	10,965	4,651	6,314	2,263	66,971	-64,708
Reformulated - RBOB	9,717	0	9,717	1,393	381	1,012	381	13,289	-12,908
Conventional	50,288	6,309	43,979	9,572	4,270	5,302	1,882	53,682	-51,800
CBOB	50,288	6,309	43,979	9,368	3,770	5,598	1,382	53,478	-52,096
GTAB	0	0	-	-	-	-	-	-	-
Other	0	0	-	204	500	-296	500	204	296
Renewable Fuels	9,905	0	9,905	0	21,308	-21,308	6,579	688	5,891
Fuel Ethanol	9,646	0	9,646	0	20,375	-20,375	6,256	459	5,797
Renewable Diesel Fuel ²	259	0	259	0	933	-933	324	229	95
Other Renewable Fuels	-	-	-	-	-	-	0	0	-
Finished Motor Gasoline	4,568	84	4,484	917	1,825	-908	530	3,867	-3,337
Reformulated	0	0	-	0	0	-	0	0	-
Reformulated Blended with Fuel Ethanol	0	0	-	0	0	-	0	0	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	4,568	84	4,484	917	1,825	-908	530	3,867	-3,337
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	4,568	84	4,484	917	1,825	-908	530	3,867	-3,337
Finished Aviation Gasoline	94	0	94	10	0	10	0	104	-104
Kerosene-Type Jet Fuel	16,849	318	16,531	2,095	966	1,129	20	18,753	-18,733
Kerosene	274	14	260	14	0	14	0	274	-274
Distillate Fuel Oil	30,715	2,583	28,132	5,313	2,538	2,775	807	32,385	-31,578
15 ppm sulfur and under	28,916	2,583	26,333	5,104	2,502	2,602	807	30,413	-29,606
Greater than 15 ppm to 500 ppm sulfur	39	0	39	166	36	130	0	169	-169
Greater than 500 ppm sulfur	1,760	0	1,760	43	0	43	0	1,803	-1,803
Residual Fuel Oil	0	0	-	0	728	-728	728	0	728
Petrochemical Feedstocks	0	0	-	0	192	-192	192	0	192
Naphtha for Petrochemical Feedstock Use	0	0	-	0	146	-146	146	0	146
Other Oils for Petrochemical Feedstock Use	-	-	-	0	46	-46	46	0	46
Special Naphthas	0	0	-	23	0	23	0	23	-23
Lubricants	400	0	400	122	0	122	0	522	-522
Waxes	0	0	-	0	0	-	0	0	-
Marketable Petroleum Coke	558	0	558	18	1,079	-1,061	571	53	519
Asphalt and Road Oil	1,013	24	989	498	892	-394	376	1,002	-626
Miscellaneous Products	36	0	36	12	36	-24	0	12	-12
Total	140,477	16,617	123,860	98,820	154,166	-55,346	106,456	161,283	-54,827

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, December 2019
(Thousand Barrels) — Continued

Commodity	PAD District 4			PAD District 5		
	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts
Crude Oil	6,768	28,770	-22,002	5,591	0	5,591
Petroleum Products	9,024	19,855	-10,831	13,762	206	13,555
Natural Gas Liquids	5,629	15,812	-10,183	1,338	0	1,338
Ethane	855	3,649	-2,794	0	0	-
Propane	2,611	6,085	-3,474	344	0	344
Normal Butane	1,121	2,702	-1,581	759	0	759
Isobutane	405	1,217	-812	235	0	235
Natural Gasoline	637	2,159	-1,522	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	161	-161
Motor Gasoline Blending Components	1,295	1,507	-212	4,910	0	4,910
Reformulated - RBOB	-	-	-	2,179	0	2,179
Conventional	1,295	1,507	-212	2,731	0	2,731
CBOB	1,295	1,507	-212	2,731	0	2,731
GTAB	-	-	-	-	-	-
Other	0	0	-	0	0	-
Renewable Fuels	411	28	383	5,129	0	5,129
Fuel Ethanol	376	28	348	4,585	0	4,585
Renewable Diesel Fuel ²	35	0	35	544	0	544
Other Renewable Fuels	-	-	-	0	0	-
Finished Motor Gasoline	193	804	-611	372	0	372
Reformulated	-	-	-	0	0	-
Reformulated Blended with Fuel Ethanol	-	-	-	0	0	-
Reformulated Other	-	-	-	-	-	-
Conventional	193	804	-611	372	0	372
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	193	804	-611	372	0	372
Finished Aviation Gasoline	0	0	-	0	0	-
Kerosene-Type Jet Fuel	905	36	869	204	0	204
Kerosene	0	0	-	0	0	-
Distillate Fuel Oil	547	924	-377	1,048	0	1,048
15 ppm sulfur and under	547	924	-377	1,048	0	1,048
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	24	107	-83	93	25	68
Asphalt and Road Oil	20	637	-617	668	20	648
Miscellaneous Products	0	0	-	0	0	-
Total	15,792	48,625	-32,833	19,353	206	19,146

- = 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.

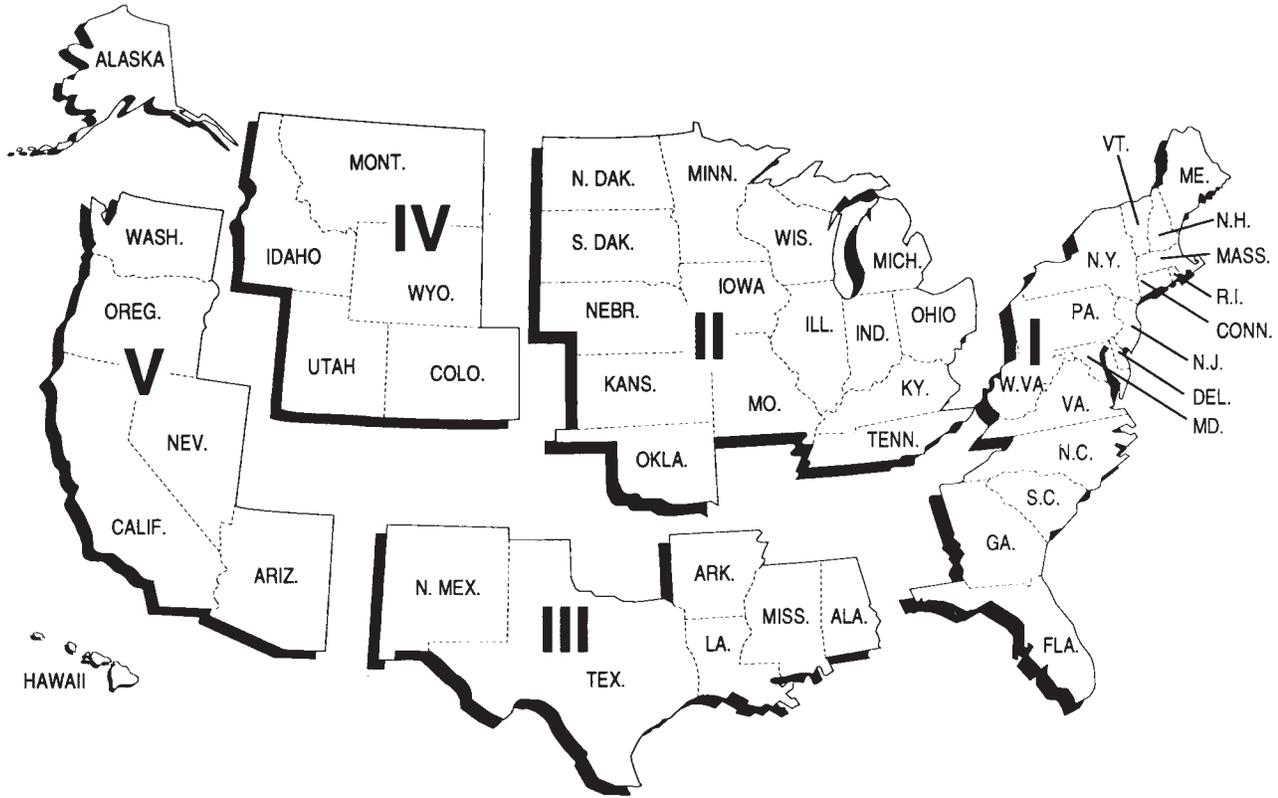
PAD District IV

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

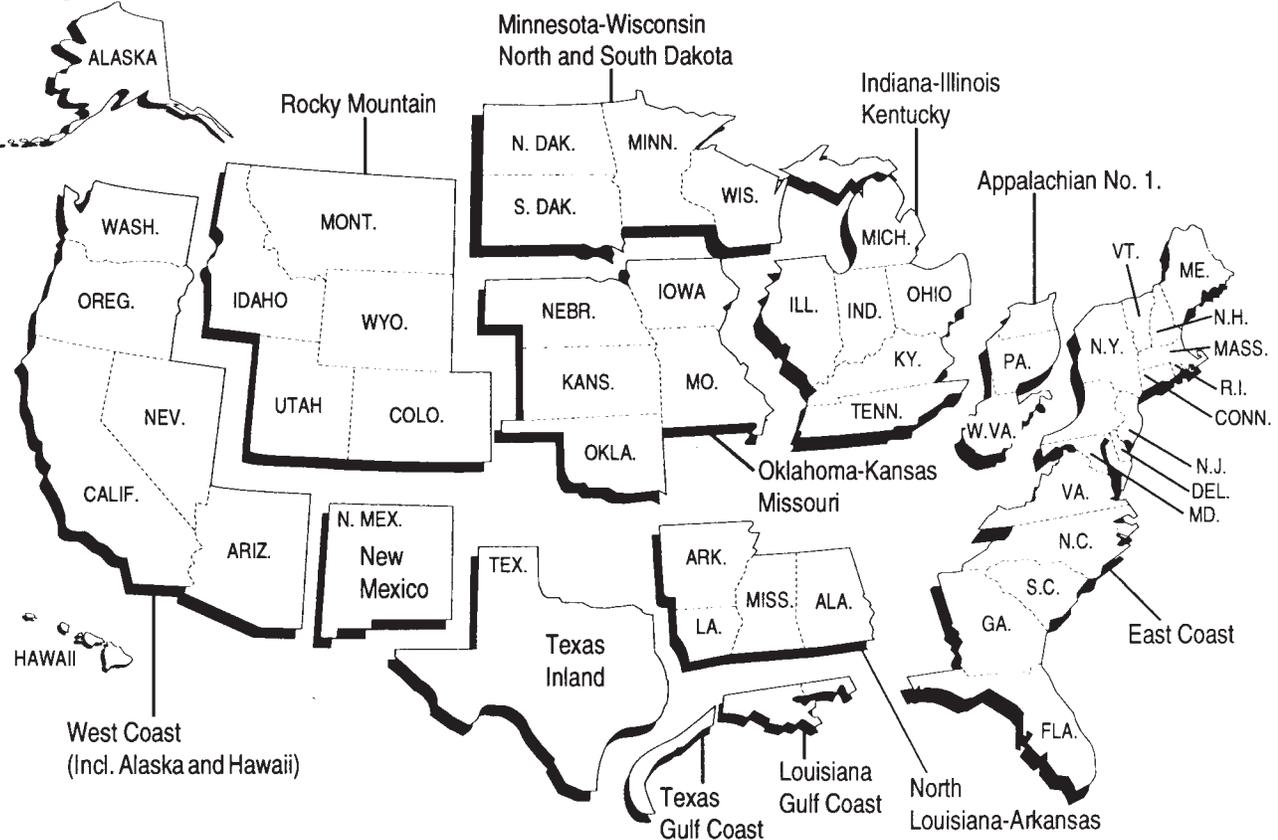
PAD District V

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_mbbl_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_mbbl_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	89
Fuel Ethanol	NY	10
Distillate Fuel Oil, 15 ppm Sulfur and Under	NY	34

Source: New York State Energy Research & Development Authority

Definitions of Petroleum Products and Other Terms

(Revised May 2010)

Alcohol. The family name of a group of organic chemical compounds composed of carbon, hydrogen, and oxygen. The series of molecules vary in chain length and are composed of a hydrocarbon plus a hydroxyl group; CH₃-(CH₂)_n-OH (e.g., methanol, ethanol, and tertiary butyl alcohol).

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

the types and grades of inputs to be processed;

the types and grades of products expected to be manufactured;

the environmental constraints associated with refinery operations;

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

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

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

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

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

feedstocks.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Flexicoking. A thermal cracking process which converts heavy

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

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

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

Examples:

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

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

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

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

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

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

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

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

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

Heavy Gas Oil. Petroleum distillates with an approximate boiling

range from 651 degrees Fahrenheit to 1000 degrees Fahrenheit.

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

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

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

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

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

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

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

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

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

Isopentane. See *Natural Gasoline and Isopentane.*

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Reformulated Blendstock for Oxygenate Blending (RBOB).

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

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

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

All Other Motor Gasoline Blending Components.

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

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

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

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

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

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

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

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

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

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

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

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

Normal Butane. See *Butane*.

OPEC. An intergovernmental organization whose stated objective is to coordinate and unify petroleum policies of member countries. It was created at the Baghdad Conference on September 10–14, 1960. Current and former members (with years of membership) include Algeria (1969-present), Angola (2007-present), Congo (Brazzaville) (June 2018-present), Ecuador (1973-1992 and 2007-present), Gabon (1975-1994 and July, 2016-present), Indonesia (1962-2008 and January, 2016-November, 2016), Iran (1960-present), Iraq (1960-present), Kuwait (1960-present), Libya (1962-present), Nigeria (1971-present), Qatar (1961-2018), Saudi Arabia (1960-present), United Arab Emirates (1967-present), and Venezuela (1960-present).

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Refinery-Grade Butane. See *Butane*.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

to a PAD District.

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

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

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

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

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

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

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

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

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

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

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

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

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

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