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U.S. Energy Information
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Petroleum Supply Annual Volume 1

With data for 2019

August 2020



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Table 1. U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, 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	4,470,528	--	--	2,482,332	156,980	-23,901	6,045,396	1,088,345	0	1,067,739	
Hydrocarbon Gas Liquids	1,760,945	-7,506	221,122	75,438	--	27,835	208,501	667,957	1,145,706	211,696	
Natural Gas Liquids	1,760,945	-7,506	119,838	67,655	--	27,869	208,501	667,957	1,036,605	208,730	
Ethane	667,609	--	1,806	--	--	7,444	--	101,093	560,878	57,286	
Propane	579,878	--	105,084	48,442	--	15,918	--	400,670	316,816	79,656	
Normal Butane	157,628	--	18,278	14,637	--	1,837	68,040	102,232	18,434	39,671	
Isobutane	152,579	--	-5,330	4,516	--	2,680	79,261	1,481	68,343	11,217	
Natural Gasoline	203,251	-7,506	--	60	--	-10	61,200	62,481	72,134	20,900	
Refinery Olefins	--	--	101,284	7,783	--	-34	--	--	109,101	2,966	
Ethylene	--	--	127	--	--	0	--	--	127	0	
Propylene	--	--	103,004	5,822	--	-117	--	--	108,943	1,673	
Butylene	--	--	-1,727	1,931	--	198	--	--	6	1,273	
Isobutylene	--	--	-120	30	--	-115	--	--	25	20	
Other Liquids	--	416,684	--	506,447	74,080	9,113	816,353	148,647	23,097	345,667	
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	416,738	--	14,909	39,999	-2,073	436,068	37,650	0	27,810	
Hydrogen	--	--	--	--	77,600	--	77,600	--	0	--	
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--	
Renewable Fuels (including Fuel Ethanol)	--	416,738	--	14,865	-37,909	-2,062	358,105	37,650	0	27,800	
Fuel Ethanol ⁵	--	375,678	--	4,644	-9,300	-1,066	337,168	34,920	0	22,352	
Renewable Fuels Except Fuel Ethanol	--	41,060	--	10,221	-28,609	-996	20,937	2,730	0	5,448	
Other Hydrocarbons	--	--	--	44	308	-11	363	--	0	10	
Unfinished Oils	--	--	--	235,582	--	3,935	129,086	79,228	23,333	89,844	
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	-54	--	255,956	34,082	7,240	250,974	31,770	0	227,971	
Reformulated	--	-6	--	72,493	79,881	2,865	149,146	357	0	52,966	
Conventional	--	-48	--	183,463	-45,799	4,375	101,828	31,413	0	175,005	
Aviation Gasoline Blend. Comp.	--	--	--	--	--	11	225	--	-236	42	
Finished Petroleum Products	--	1,471	7,239,258	272,346	657	-2,727	--	1,187,120	6,329,338	291,745	
Finished Motor Gasoline	--	1,471	3,684,737	34,148	-24,781	360	--	297,306	3,397,909	26,129	
Reformulated	--	--	1,176,452	--	-76,517	-3	--	--	1,099,938	41	
Conventional	--	1,471	2,508,285	34,148	51,736	363	--	297,306	2,297,971	26,088	
Finished Aviation Gasoline	--	--	4,482	347	--	196	--	--	4,633	1,152	
Kerosene-Type Jet Fuel	--	--	655,718	59,900	--	-1,118	--	80,401	636,335	40,467	
Kerosene	--	--	3,709	703	--	205	--	1,735	2,472	2,818	
Distillate Fuel Oil ⁵	--	--	1,875,015	73,886	25,438	-79	--	476,657	1,497,761	140,083	
15 ppm sulfur and under	--	--	1,752,740	69,250	25,438	1,143	--	379,924	1,466,361	124,896	
Greater than 15 ppm to 500 ppm sulfur	--	--	46,623	720	--	-952	--	44,665	3,630	4,249	
Greater than 500 ppm sulfur	--	--	75,652	3,916	--	-270	--	52,068	27,770	10,938	
Residual Fuel Oil	--	--	131,833	54,299	--	2,206	--	83,539	100,387	30,520	
Less than 0.31 percent sulfur	--	--	19,850	3,814	--	1,656	--	NA	NA	3,801	
0.31 to 1.00 percent sulfur	--	--	17,865	10,632	--	709	--	NA	NA	5,426	
Greater than 1.00 percent sulfur	--	--	94,118	39,853	--	-161	--	NA	NA	21,285	
Petrochemical Feedstocks	--	--	109,398	6,128	--	-250	--	--	115,776	3,154	
Naphtha for Petro. Feed. Use	--	--	70,277	5,117	--	-195	--	--	75,589	2,199	
Other Oils for Petro. Feed. Use	--	--	39,121	1,011	--	-55	--	--	40,187	955	
Special Naphthas	--	--	11,533	6,453	--	-234	--	--	18,220	1,227	
Lubricants	--	--	60,877	16,336	--	-1,269	--	37,321	41,161	12,686	
Waxes	--	--	1,597	1,822	--	50	--	1,486	1,883	726	
Petroleum Coke	--	--	308,044	2,312	--	1,160	--	198,555	110,641	9,059	
Marketable	--	--	227,503	2,312	--	1,160	--	198,555	30,100	9,059	
Catalyst	--	--	80,541	--	--	--	--	--	80,541	--	
Asphalt and Road Oil	--	--	116,663	16,000	--	-3,963	--	9,459	127,167	23,055	
Still Gas	--	--	243,912	--	--	--	--	--	243,912	--	
Miscellaneous Products	--	--	31,740	12	--	9	--	660	31,083	669	
Total	6,231,473	410,649	7,460,380	3,336,563	231,717	10,320	7,070,250	3,092,070	7,498,142	1,916,847	

-- = 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 13 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.

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, 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. Daily Average Supply and Disposition of Crude Oil and Petroleum Products, 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	12,248	--	--	6,801	430	-65	16,563	2,982	0
Hydrocarbon Gas Liquids	4,825	-21	606	207	--	76	571	1,830	3,139
Natural Gas Liquids	4,825	-21	328	185	--	76	571	1,830	2,840
Ethane	1,829	--	5	--	--	20	--	277	1,537
Propane	1,589	--	288	133	--	44	--	1,098	868
Normal Butane	432	--	50	40	--	5	186	280	51
Isobutane	418	--	-15	12	--	7	217	4	187
Natural Gasoline	557	-21	--	0	--	0	168	171	198
Refinery Olefins	--	--	277	21	--	0	--	--	299
Ethylene	--	--	0	--	--	0	--	--	0
Propylene	--	--	282	16	--	0	--	--	298
Butylene	--	--	-5	5	--	1	--	--	0
Isobutylene	--	--	0	0	--	0	--	--	0
Other Liquids	--	1,142	--	1,388	203	25	2,237	407	63
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,142	--	41	110	-6	1,195	103	0
Hydrogen	--	--	--	--	213	--	213	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	1,142	--	41	-104	-6	981	103	0
Fuel Ethanol ⁵	--	1,029	--	13	-25	-3	924	96	0
Renewable Fuels Except Fuel Ethanol	--	112	--	28	-78	-3	57	7	0
Other Hydrocarbons	--	--	--	0	1	0	1	--	0
Unfinished Oils	--	--	--	645	--	11	354	217	64
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	0	--	701	93	20	688	87	0
Reformulated	--	0	--	199	219	8	409	1	0
Conventional	--	0	--	503	-125	12	279	86	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	0	1	--	-1
Finished Petroleum Products	--	4	19,834	746	2	-7	--	3,252	17,341
Finished Motor Gasoline	--	4	10,095	94	-68	1	--	815	9,309
Reformulated	--	--	3,223	--	-210	0	--	--	3,014
Conventional	--	4	6,872	94	142	1	--	815	6,296
Finished Aviation Gasoline	--	--	12	1	--	1	--	--	13
Kerosene-Type Jet Fuel	--	--	1,796	164	--	-3	--	220	1,743
Kerosene	--	--	10	2	--	1	--	5	7
Distillate Fuel Oil ⁵	--	--	5,137	202	70	0	--	1,306	4,103
15 ppm sulfur and under	--	--	4,802	190	70	3	--	1,041	4,017
Greater than 15 ppm to 500 ppm sulfur	--	--	128	2	--	-3	--	122	10
Greater than 500 ppm sulfur	--	--	207	11	--	-1	--	143	76
Residual Fuel Oil	--	--	361	149	--	6	--	229	275
Less than 0.31 percent sulfur	--	--	54	10	--	5	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	49	29	--	2	--	NA	NA
Greater than 1.00 percent sulfur	--	--	258	109	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	300	17	--	-1	--	--	317
Naphtha for Petro. Feed. Use	--	--	193	14	--	-1	--	--	207
Other Oils for Petro. Feed. Use	--	--	107	3	--	0	--	--	110
Special Naphthas	--	--	32	18	--	-1	--	--	50
Lubricants	--	--	167	45	--	-3	--	102	113
Waxes	--	--	4	5	--	0	--	4	5
Petroleum Coke	--	--	844	6	--	3	--	544	303
Marketable	--	--	623	6	--	3	--	544	82
Catalyst	--	--	221	--	--	--	--	--	221
Asphalt and Road Oil	--	--	320	44	--	-11	--	26	348
Still Gas	--	--	668	--	--	--	--	--	668
Miscellaneous Products	--	--	87	0	--	0	--	2	85
Total	17,073	1,125	20,439	9,141	635	28	19,371	8,471	20,543

-- = 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 13 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.

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, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

Table 3. PAD District 1 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, 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	25,339	--	--	234,980	69,136	-1,023	-2,009	326,881	3,560	0	9,646
Hydrocarbon Gas Liquids	201,306	-173	11,607	17,670	13,298	--	605	17,116	73,965	152,022	9,642
Natural Gas Liquids	201,306	-173	6,798	14,466	10,160	--	585	17,116	73,965	140,891	9,334
Ethane	78,390	--	--	--	-61,787	--	-104	--	14,762	1,945	739
Propane	70,712	--	6,210	12,025	62,074	--	581	--	44,439	106,001	6,568
Normal Butane	22,429	--	771	705	15,550	--	80	10,978	13,425	14,972	1,500
Isobutane	9,700	--	-183	1,736	-2,545	--	-24	3,982	27	4,723	170
Natural Gasoline	20,075	-173	--	--	-3,132	--	52	2,156	1,312	13,250	357
Refinery Olefins	--	--	4,809	3,204	3,138	--	20	--	--	11,131	308
Ethylene	--	--	127	--	--	--	--	--	--	127	--
Propylene	--	--	4,930	3,204	3,138	--	30	--	--	11,242	151
Butylene	--	--	-517	--	--	--	35	--	--	-552	142
Isobutylene	--	--	269	--	--	--	-45	--	--	314	15
Other Liquids	--	11,030	--	236,532	747,781	49,985	1,378	1,040,071	2,347	1,531	73,691
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	11,066	--	1,978	117,744	-283	474	128,377	1,654	0	8,568
Hydrogen	--	--	--	--	--	1,184	--	1,184	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	11,066	--	1,978	117,744	-1,467	474	127,193	1,654	0	8,568
Fuel Ethanol ⁶	--	8,962	--	--	115,045	1,489	682	123,351	1,463	0	7,263
Renewable Fuels Except Fuel Ethanol	--	2,104	--	1,978	2,699	-2,956	-208	3,842	191	0	1,305
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	22,559	74	--	-1,064	21,845	321	1,531	4,141
Motor Gasoline Blend.Comp. (MGBC) ⁶	--	-36	--	211,995	629,963	50,268	1,968	889,849	373	0	60,982
Reformulated	--	--	--	66,958	99,914	30,909	2,331	195,435	15	0	21,163
Conventional	--	-36	--	145,037	530,049	19,359	-363	694,414	358	0	39,819
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	1,389,276	151,624	561,075	-48,855	1,836	--	50,763	2,000,521	74,993
Finished Motor Gasoline	--	--	1,195,516	27,113	52,208	-51,757	752	--	5,675	1,216,653	4,632
Reformulated	--	--	473,231	--	--	-29,181	-2	--	--	444,052	28
Conventional	--	--	722,285	27,113	52,208	-22,576	754	--	5,675	772,601	4,604
Finished Aviation Gasoline	--	--	--	125	954	--	95	--	--	984	225
Kerosene-Type Jet Fuel	--	--	35,712	19,506	182,086	--	969	--	7,475	228,860	8,845
Kerosene	--	--	828	703	1,725	--	139	--	886	2,231	2,191
Distillate Fuel Oil ⁶	--	--	101,637	63,112	297,251	2,902	-138	--	12,475	452,565	44,817
15 ppm sulfur and under	--	--	96,488	60,478	281,665	2,902	2,064	--	8,045	431,424	39,826
Greater than 15 ppm to 500 ppm sulfur	--	--	2,441	713	374	--	-1,292	--	3,160	1,660	1,400
Greater than 500 ppm sulfur	--	--	2,708	1,921	15,212	--	-910	--	1,270	19,481	3,591
Residual Fuel Oil	--	--	12,221	26,341	-468	--	1,638	--	12,278	24,178	7,671
Less than 0.31 percent sulfur	--	--	1,863	996	--	--	776	--	NA	NA	1,677
0.31 to 1.00 percent sulfur	--	--	5,528	5,650	--	--	658	--	NA	NA	2,087
Greater than 1.00 percent sulfur	--	--	4,830	19,695	-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	222	--	--	-10	--	--	460	33
Lubricants	--	--	4,651	2,826	5,319	--	141	--	2,560	10,095	1,442
Waxes	--	--	115	838	--	--	33	--	718	202	409
Petroleum Coke	--	--	9,852	28	7,336	--	--	--	7,531	9,684	--
Marketable	--	--	3,432	28	7,336	--	--	--	7,531	3,264	--
Catalyst	--	--	6,420	--	--	--	--	--	--	6,420	--
Asphalt and Road Oil	--	--	12,870	10,783	14,252	--	-1,747	--	1,000	38,652	4,650
Still Gas	--	--	14,328	--	--	--	--	--	--	14,328	--
Miscellaneous Products	--	--	928	--	-161	--	-1	--	166	602	33
Total	226,645	10,857	1,400,883	640,806	1,391,289	107	1,810	1,384,068	130,636	2,154,074	167,972

-- = 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.

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

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Table 4. PAD District 1 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, 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	69	--	--	644	189	-3	-6	896	10	0
Hydrocarbon Gas Liquids	552	0	32	48	36	--	2	47	203	416
Natural Gas Liquids	552	0	19	40	28	--	2	47	203	386
Ethane	215	--	--	--	-169	--	0	--	40	5
Propane	194	--	17	33	170	--	2	--	--	290
Normal Butane	61	--	2	2	43	--	0	30	--	41
Isobutane	27	--	-1	5	-7	--	0	11	0	13
Natural Gasoline	55	0	--	--	-9	--	0	6	4	36
Refinery Olefins	--	--	13	9	9	--	0	--	--	30
Ethylene	--	--	0	--	--	--	--	--	--	0
Propylene	--	--	14	9	9	--	0	--	--	31
Butylene	--	--	-1	--	--	--	0	--	--	-2
Isobutylene	--	--	1	--	--	--	0	--	--	1
Other Liquids	--	30	--	648	2,049	137	4	2,850	6	4
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	30	--	5	323	-1	1	352	5	0
Hydrogen	--	--	--	--	--	3	--	3	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	30	--	5	323	-4	1	348	5	0
Fuel Ethanol ⁶	--	25	--	--	315	4	2	338	4	0
Renewable Fuels Except Fuel Ethanol	--	6	--	5	7	-8	-1	11	1	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	62	0	--	-3	60	1	4
Motor Gasoline Blend.Comp. (MGBC) ⁶	--	0	--	581	1,726	138	5	2,438	1	0
Reformulated	--	--	--	183	274	85	6	535	0	0
Conventional	--	0	--	397	1,452	53	-1	1,903	1	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,806	415	1,537	-134	5	--	139	5,481
Finished Motor Gasoline	--	--	3,275	74	143	-142	2	--	16	3,333
Reformulated	--	--	1,297	--	--	-80	0	--	--	1,217
Conventional	--	--	1,979	74	143	-62	2	--	16	2,117
Finished Aviation Gasoline	--	--	--	0	3	--	0	--	--	3
Kerosene-Type Jet Fuel	--	--	98	53	499	--	3	--	20	627
Kerosene	--	--	2	2	5	--	0	--	2	6
Distillate Fuel Oil ⁶	--	--	278	173	814	8	0	--	34	1,240
15 ppm sulfur and under	--	--	264	166	772	8	6	--	22	1,182
Greater than 15 ppm to 500 ppm sulfur	--	--	7	2	1	--	-4	--	9	5
Greater than 500 ppm sulfur	--	--	7	5	42	--	-2	--	3	53
Residual Fuel Oil	--	--	33	72	-1	--	4	--	34	66
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	54	-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	1	--	--	0	--	--	1
Lubricants	--	--	13	8	15	--	0	--	7	28
Waxes	--	--	0	2	--	--	0	--	2	1
Petroleum Coke	--	--	27	0	20	--	--	--	21	27
Marketable	--	--	9	0	20	--	--	--	21	9
Catalyst	--	--	18	--	--	--	--	--	--	18
Asphalt and Road Oil	--	--	35	30	39	--	-5	--	3	106
Still Gas	--	--	39	--	--	--	--	--	--	39
Miscellaneous Products	--	--	3	--	0	--	0	--	0	2
Total	621	30	3,838	1,756	3,812	0	5	3,792	358	5,902

-- = 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.

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, 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 5. PAD District 2 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, 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	812,696	--	--	1,036,442	-331,953	-71,803	-5,555	1,387,965	62,972	0	126,547
Hydrocarbon Gas Liquids	375,780	-6,923	40,860	31,735	-155,475	--	-2,800	36,124	95,227	157,426	47,299
Natural Gas Liquids	375,780	-6,923	25,392	28,376	-148,430	--	-2,679	36,124	95,227	145,523	46,995
Ethane	123,461	--	--	--	-42,983	--	204	--	33,768	46,506	5,415
Propane	136,991	--	26,825	19,903	-105,624	--	-667	--	1,450	77,312	20,023
Normal Butane	47,936	--	-381	6,454	-45,262	--	-2,249	8,822	1,556	618	9,143
Isobutane	22,757	--	-1,052	1,959	-2,102	--	-54	17,814	9	3,793	1,907
Natural Gasoline	44,635	-6,923	--	60	47,541	--	87	9,488	58,445	17,293	10,507
Refinery Olefins	--	--	15,468	3,359	-7,045	--	-121	--	--	11,903	304
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	14,638	2,618	-7,045	--	-67	--	--	10,278	284
Butylene	--	--	785	711	--	--	16	--	--	1,480	20
Isobutylene	--	--	45	--	--	--	-70	--	--	145	0
Other Liquids	--	376,369	--	5,133	-143,370	-20,500	-2,144	208,015	29,400	-17,640	69,930
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	376,387	--	1,034	-242,479	-16,923	-884	110,584	8,319	0	8,814
Hydrogen	--	--	--	--	--	13,605	--	13,605	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	376,387	--	1,034	-242,479	-30,880	-873	96,616	8,319	0	8,804
Fuel Ethanol	--	348,637	--	--	-233,750	-18,053	-894	90,844	6,884	0	7,865
Renewable Fuels Except Fuel Ethanol	--	27,750	--	1,034	-8,730	-12,826	21	5,772	1,435	0	939
Other Hydrocarbons	--	--	--	--	--	352	-11	363	--	0	10
Unfinished Oils	--	--	--	1,033	-5,616	--	677	-7,038	19,418	-17,640	13,421
Motor Gasoline Blend.Comp. (MGBC)	--	-18	--	3,066	104,725	-3,578	-1,937	104,469	1,663	0	47,695
Reformulated	--	-6	--	--	35,493	-15,804	-586	20,269	0	0	5,603
Conventional	--	-12	--	3,066	69,232	12,226	-1,351	84,200	1,663	0	42,092
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	1,471	1,671,716	11,340	19,982	34,628	-3,667	--	15,564	1,727,241	60,456
Finished Motor Gasoline	--	1,471	949,386	1	4,924	21,631	817	--	2,124	974,472	7,321
Reformulated	--	--	131,082	--	--	19,062	--	--	--	150,144	--
Conventional	--	1,471	818,304	1	4,924	2,569	817	--	2,124	824,328	7,321
Finished Aviation Gasoline	--	--	380	44	179	--	-15	--	--	618	151
Kerosene-Type Jet Fuel	--	--	99,543	--	12,193	--	-755	--	606	111,885	6,782
Kerosene	--	--	1,935	--	34	--	23	--	8	1,938	322
Distillate Fuel Oil	--	--	416,311	2,974	29,500	12,997	-2,287	--	3,147	460,922	31,410
15 ppm sulfur and under	--	--	416,382	2,288	28,081	12,997	-2,562	--	20	462,291	30,416
Greater than 15 ppm to 500 ppm sulfur	--	--	1,009	--	1,325	--	98	--	1,332	904	480
Greater than 500 ppm sulfur	--	--	-1,080	686	94	--	177	--	1,796	-2,273	514
Residual Fuel Oil	--	--	16,285	1,092	-7,893	--	-33	--	1,707	7,810	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	807	-6,700	--	-148	--	NA	NA	801
Petrochemical Feedstocks	--	--	11,433	1,789	-1,018	--	-45	--	--	12,249	520
Naphtha for Petro. Feed. Use	--	--	7,351	972	-898	--	-3	--	--	7,428	424
Other Oils for Petro. Feed. Use	--	--	4,082	817	-120	--	-42	--	--	4,821	96
Special Naphthas	--	--	-166	58	246	--	-5	--	--	143	178
Lubricants	--	--	2,089	1,448	1,694	--	-137	--	2,186	3,182	690
Waxes	--	--	322	69	--	--	13	--	406	-28	41
Petroleum Coke	--	--	65,470	321	-10,699	--	738	--	3,888	50,466	2,076
Marketable	--	--	48,518	321	-10,699	--	738	--	3,888	33,514	2,076
Catalyst	--	--	16,952	--	--	--	--	--	--	16,952	--
Asphalt and Road Oil	--	--	51,649	3,544	-9,122	--	-1,965	--	1,457	46,579	9,617
Still Gas	--	--	51,528	--	--	--	--	--	--	51,528	--
Miscellaneous Products	--	--	5,551	--	-56	--	-16	--	33	5,478	101
Total	1,188,476	370,917	1,712,576	1,084,650	-610,816	-57,675	-14,166	1,632,104	203,163	1,867,027	304,232

-- = 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.

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, 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 2 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, 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	2,227	--	--	2,840	-909	-197	-15	3,803	173	0
Hydrocarbon Gas Liquids	1,030	-19	112	87	-426	--	-8	99	261	431
Natural Gas Liquids	1,030	-19	70	78	-407	--	-7	99	261	399
Ethane	338	--	--	--	-118	--	1	--	93	127
Propane	375	--	73	55	-289	--	-2	--	4	212
Normal Butane	131	--	-1	18	-124	--	-6	24	4	2
Isobutane	62	--	-3	5	-6	--	0	49	0	10
Natural Gasoline	122	-19	--	0	130	--	0	26	160	47
Refinery Olefins	--	--	42	9	-19	--	0	--	--	33
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	40	7	-19	--	0	--	--	28
Butylene	--	--	2	2	--	--	0	--	--	4
Isobutylene	--	--	0	--	--	--	0	--	--	0
Other Liquids	--	1,031	--	14	-393	-56	-6	570	81	-48
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,031	--	3	-664	-46	-2	303	23	0
Hydrogen	--	--	--	--	--	37	--	37	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	1,031	--	3	-664	-85	-2	265	23	0
Fuel Ethanol	--	955	--	--	-640	-49	-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	-48
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	8	287	-10	-5	286	5	0
Reformulated	--	0	--	--	97	-43	-2	56	0	0
Conventional	--	0	--	8	190	33	-4	231	5	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	4	4,580	31	55	95	-10	--	43	4,732
Finished Motor Gasoline	--	4	2,601	0	13	59	2	--	6	2,670
Reformulated	--	--	359	--	--	52	--	--	--	411
Conventional	--	4	2,242	0	13	7	2	--	6	2,258
Finished Aviation Gasoline	--	--	1	0	0	--	0	--	--	2
Kerosene-Type Jet Fuel	--	--	273	--	33	--	-2	--	2	307
Kerosene	--	--	5	--	0	--	0	--	0	5
Distillate Fuel Oil	--	--	1,141	8	81	36	-6	--	9	1,263
15 ppm sulfur and under	--	--	1,141	6	77	36	-7	--	0	1,267
Greater than 15 ppm to 500 ppm sulfur	--	--	3	--	4	--	0	--	4	2
Greater than 500 ppm sulfur	--	--	-3	2	0	--	0	--	5	-6
Residual Fuel Oil	--	--	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	--	--	34
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	--	--	0
Lubricants	--	--	6	4	5	--	0	--	6	9
Waxes	--	--	1	0	--	--	0	--	1	0
Petroleum Coke	--	--	179	1	-29	--	2	--	11	138
Marketable	--	--	133	1	-29	--	2	--	11	92
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	3,256	1,016	4,692	2,972	-1,673	-158	-39	4,472	557	5,115

-- = 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, biogas, 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.

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, 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 3 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, 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	2,944,843	--	--	605,332	431,018	230,777	-26,433	3,223,336	1,015,067	0	854,758
Hydrocarbon Gas Liquids	1,004,662	-151	149,156	1,250	256,255	--	29,081	119,987	479,891	782,213	146,795
Natural Gas Liquids	1,004,662	-151	69,880	30	252,348	--	29,022	119,987	479,891	697,869	144,536
Ethane	425,377	--	1,806	--	141,317	--	7,253	--	52,561	508,686	50,576
Propane	309,628	--	56,422	--	83,273	--	15,440	--	344,438	89,445	49,700
Normal Butane	60,895	--	16,865	--	41,826	--	3,733	34,595	80,944	314	26,154
Isobutane	104,363	--	-5,213	30	12,137	--	2,768	46,030	1,437	61,082	8,479
Natural Gasoline	104,399	-151	--	--	-26,205	--	-172	39,362	511	38,342	9,627
Refinery Olefins	--	--	79,276	1,220	3,907	--	59	--	--	84,344	2,259
Ethylene	--	--	--	--	--	--	0	--	--	--	0
Propylene	--	--	81,557	--	3,907	--	-81	--	--	85,545	1,224
Butylene	--	--	-1,868	1,220	--	--	135	--	--	-783	1,030
Isobutylene	--	--	-413	--	--	--	5	--	--	-418	5
Other Liquids	--	15,187	--	202,973	-721,054	68,530	6,896	-581,186	109,834	30,092	137,708
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	15,187	--	343	65,985	45,270	-1,111	103,712	24,184	0	5,552
Hydrogen	--	--	--	--	--	45,340	--	45,340	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	15,187	--	299	65,985	-26	-1,111	58,372	24,184	0	5,552
Fuel Ethanol	--	7,165	--	--	65,228	5,657	-590	54,786	23,854	0	3,963
Renewable Fuels Except Fuel Ethanol	--	8,022	--	299	757	-5,683	-521	3,586	330	0	1,589
Other Hydrocarbons	--	--	--	44	--	-44	--	--	--	0	--
Unfinished Oils	--	--	--	180,062	5,703	--	4,666	93,039	57,732	30,328	49,679
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	22,568	-792,742	23,260	3,330	-778,162	27,918	0	82,435
Reformulated	--	--	--	581	-162,287	61,856	-1,283	-98,888	321	0	11,033
Conventional	--	--	--	21,987	-630,455	-38,596	4,613	-679,274	27,597	0	71,402
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	11	225	--	-236	42
Finished Petroleum Products	--	--	2,830,980	47,204	-596,499	-21,192	-2,065	--	995,411	1,267,146	110,234
Finished Motor Gasoline	--	--	853,580	869	-55,411	-28,917	-2,097	--	275,166	497,052	9,554
Reformulated	--	--	168,713	--	--	-65,792	0	--	--	102,921	--
Conventional	--	--	684,867	869	-55,411	36,875	-2,097	--	275,166	394,131	9,554
Finished Aviation Gasoline	--	--	3,656	126	-1,133	--	125	--	--	2,524	560
Kerosene-Type Jet Fuel	--	--	343,310	30	-207,327	--	-1,060	--	62,799	74,274	14,377
Kerosene	--	--	842	--	-1,759	--	96	--	786	-1,799	283
Distillate Fuel Oil	--	--	1,069,355	1,813	-335,849	7,725	1,248	--	415,072	326,723	44,458
15 ppm sulfur and under	--	--	962,391	516	-318,844	7,725	673	--	341,137	309,977	36,659
Greater than 15 ppm to 500 ppm sulfur	--	--	38,895	--	-1,699	--	273	--	33,683	3,240	1,955
Greater than 500 ppm sulfur	--	--	68,069	1,297	-15,306	--	302	--	40,252	13,506	5,844
Residual Fuel Oil	--	--	57,702	20,632	8,361	--	974	--	58,867	26,854	17,225
Less than 0.31 percent sulfur	--	--	14,868	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	--	--	36,994	15,931	7,168	--	4	--	NA	NA	12,816
Petrochemical Feedstocks	--	--	97,551	3,939	445	--	-173	--	--	102,108	2,581
Naphtha for Petro. Feed. Use	--	--	62,512	3,759	898	--	-160	--	--	67,329	1,722
Other Oils for Petro. Feed. Use	--	--	35,039	180	-453	--	-13	--	--	34,779	859
Special Naphthas	--	--	11,124	5,963	-246	--	-208	--	--	17,049	970
Lubricants	--	--	48,048	11,685	-6,692	--	-862	--	28,896	25,007	9,696
Waxes	--	--	1,160	340	--	--	4	--	296	1,200	276
Petroleum Coke	--	--	169,040	1,652	7,443	--	159	--	146,728	31,248	5,055
Marketable	--	--	126,806	1,652	7,443	--	159	--	146,728	-10,986	5,055
Catalyst	--	--	42,234	--	--	--	--	--	--	42,234	--
Asphalt and Road Oil	--	--	28,485	155	-4,548	--	-286	--	6,347	18,031	4,790
Still Gas	--	--	128,076	--	--	--	--	--	--	128,076	--
Miscellaneous Products	--	--	19,051	--	217	--	15	--	455	18,798	409
Total	3,949,505	15,036	2,980,136	856,759	-630,280	278,115	7,479	2,762,137	2,600,203	2,079,452	1,249,495

-- = 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 13 for the breakout of Commercial Crude Oil.

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, 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 3 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, 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	8,068	--	--	1,658	1,181	632	-72	8,831	2,781	0
Hydrocarbon Gas Liquids	2,752	0	409	3	702	--	80	329	1,315	2,143
Natural Gas Liquids	2,752	0	191	0	691	--	80	329	1,315	1,912
Ethane	1,165	--	5	--	387	--	20	--	144	1,394
Propane	848	--	155	--	228	--	42	--	944	245
Normal Butane	167	--	46	--	115	--	10	95	222	1
Isobutane	286	--	-14	0	33	--	8	126	4	167
Natural Gasoline	286	0	--	--	-72	--	0	108	1	105
Refinery Olefins	--	--	217	3	11	--	0	--	--	231
Ethylene	--	--	--	--	--	--	0	--	--	0
Propylene	--	--	223	--	11	--	0	--	--	234
Butylene	--	--	-5	3	--	--	0	--	--	-2
Isobutylene	--	--	-1	--	--	--	0	--	--	-1
Other Liquids	--	42	--	556	-1,975	188	19	-1,592	301	82
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	42	--	1	181	124	-3	284	66	0
Hydrogen	--	--	--	--	--	124	--	124	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	42	--	1	181	0	-3	160	66	0
Fuel Ethanol	--	20	--	--	179	15	-2	150	65	0
Renewable Fuels Except Fuel Ethanol	--	22	--	1	2	-16	-1	10	1	0
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	493	16	--	13	255	158	83
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	62	-2,172	64	9	-2,132	76	0
Reformulated	--	--	--	2	-445	169	-4	-271	1	0
Conventional	--	--	--	60	-1,727	-106	13	-1,861	76	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	1	--	-1
Finished Petroleum Products	--	--	7,756	129	-1,634	-58	-6	--	2,727	3,472
Finished Motor Gasoline	--	--	2,339	2	-152	-79	-6	--	754	1,362
Reformulated	--	--	462	--	--	-180	0	--	--	282
Conventional	--	--	1,876	2	-152	101	-6	--	754	1,080
Finished Aviation Gasoline	--	--	10	0	-3	--	0	--	--	7
Kerosene-Type Jet Fuel	--	--	941	0	-568	--	-3	--	172	203
Kerosene	--	--	2	--	-5	--	0	--	2	-5
Distillate Fuel Oil	--	--	2,930	5	-920	21	3	--	1,137	895
15 ppm sulfur and under	--	--	2,637	1	-874	21	2	--	935	849
Greater than 15 ppm to 500 ppm sulfur	--	--	107	--	-5	--	1	--	92	9
Greater than 500 ppm sulfur	--	--	186	4	-42	--	1	--	110	37
Residual Fuel Oil	--	--	158	57	23	--	3	--	161	74
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	--	--	101	44	20	--	0	--	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	--	79	69
Waxes	--	--	3	1	--	--	0	--	1	3
Petroleum Coke	--	--	463	5	20	--	0	--	402	86
Marketable	--	--	347	5	20	--	0	--	402	-30
Catalyst	--	--	116	--	--	--	--	--	--	116
Asphalt and Road Oil	--	--	78	0	-12	--	-1	--	17	49
Still Gas	--	--	351	--	--	--	--	--	--	351
Miscellaneous Products	--	--	52	--	1	--	0	--	1	52
Total	10,821	41	8,165	2,347	-1,727	762	20	7,567	7,124	5,697

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, 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 Includes value for the Strategic Petroleum Reserve. See Table 13 for the breakout of Commercial Crude Oil.

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, 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 4 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, 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	351,495	--	--	142,290	-233,327	-28,363	2,350	229,745	0	0	23,890
Hydrocarbon Gas Liquids	159,177	-123	3,539	4,895	-125,896	--	386	7,085	2,074	32,047	3,846
Natural Gas Liquids	159,177	-123	2,909	4,895	-125,896	--	348	7,085	2,074	31,455	3,771
Ethane	40,364	--	--	--	-36,547	--	91	--	0	3,726	556
Propane	59,080	--	3,153	4,067	-43,986	--	296	--	5	22,013	1,692
Normal Butane	23,109	--	-7	595	-17,574	--	-61	2,704	49	3,431	882
Isobutane	11,629	--	-237	233	-9,585	--	6	2,320	0	-286	273
Natural Gasoline	24,995	-123	--	--	-18,204	--	16	2,061	2,019	2,572	368
Refinery Olefins	--	--	630	--	--	--	38	--	--	592	75
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	44	--	--	--	-1	--	--	45	0
Butylene	--	--	607	--	--	--	44	--	--	563	75
Isobutylene	--	--	-21	--	--	--	-5	--	--	-16	0
Other Liquids	--	4,858	--	1,532	6,433	-12,742	363	-2,623	25	2,316	10,001
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	4,858	--	222	4,855	3,983	-5	13,918	6	0	462
Hydrogen	--	--	--	--	--	2,501	--	2,501	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	4,858	--	222	4,855	1,482	-5	11,417	6	0	462
Fuel Ethanol	--	4,858	--	--	4,228	1,805	47	10,844	0	0	400
Renewable Fuels Except Fuel Ethanol	--	0	--	222	627	-323	-52	573	6	0	62
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	-316	-2,019	19	2,316	3,181
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	1,310	1,578	-16,725	684	-14,522	1	0	6,358
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	1,310	1,578	-16,725	684	-14,522	1	0	6,358
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	240,311	2,023	-10,126	15,191	267	--	278	246,854	9,280
Finished Motor Gasoline	--	--	113,559	72	-6,791	14,920	271	--	10	121,479	1,921
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	113,559	72	-6,791	14,920	271	--	10	121,479	1,921
Finished Aviation Gasoline	--	--	61	18	--	--	-2	--	--	81	8
Kerosene-Type Jet Fuel	--	--	12,202	--	9,812	--	-105	--	--	22,119	709
Kerosene	--	--	1	--	--	--	-1	--	--	2	1
Distillate Fuel Oil	--	--	77,288	1,405	-1,698	271	204	--	53	77,009	4,648
15 ppm sulfur and under	--	--	76,667	1,405	-1,698	271	266	--	0	76,379	4,423
Greater than 15 ppm to 500 ppm sulfur	--	--	621	--	--	--	-63	--	53	631	138
Greater than 500 ppm sulfur	--	--	0	--	--	--	1	--	--	-1	87
Residual Fuel Oil	--	--	4,514	97	--	--	21	--	88	4,502	257
Less than 0.31 percent sulfur	--	--	2,223	--	--	--	8	--	NA	NA	33
0.31 to 1.00 percent sulfur	--	--	427	--	--	--	9	--	NA	NA	17
Greater than 1.00 percent sulfur	--	--	1,864	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	--	--	8,122	--	--	--	--	--	--	8,122	--
Miscellaneous Products	--	--	1,264	12	--	--	1	--	4	1,271	17
Total	510,672	4,735	243,850	150,740	-362,915	-25,914	3,366	234,207	2,377	281,218	47,017

-- = 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.

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, 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 4 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, 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	963	--	--	390	-639	-78	6	629	0	0
Hydrocarbon Gas Liquids	436	0	10	13	-345	--	1	19	6	88
Natural Gas Liquids	436	0	8	13	-345	--	1	19	6	86
Ethane	111	--	--	--	-100	--	0	--	0	10
Propane	162	--	9	11	-121	--	1	--	0	60
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
Butylene	--	--	2	--	--	--	0	--	--	2
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)	--	--	--	--	--	--	--	--	--	--
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	4	-46	2	-40	0	0
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	4	4	-46	2	-40	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	658	6	-28	42	1	--	1	676
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	-5	1	1	--	0	211
15 ppm sulfur and under	--	--	210	4	-5	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	--	--	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	1,399	13	668	413	-994	-71	9	642	7	770

-- = 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.

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, 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 5 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, 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	336,155	--	--	463,288	65,126	27,391	7,746	877,469	6,745	0	52,898
Hydrocarbon Gas Liquids	20,020	-136	15,960	19,888	11,818	--	563	28,189	16,799	21,999	4,114
Natural Gas Liquids	20,020	-136	14,859	19,888	11,818	--	593	28,189	16,799	20,868	4,094
Ethane	17	--	--	--	--	--	--	--	1	16	--
Propane	3,467	--	12,474	12,447	4,263	--	268	--	10,339	22,044	1,673
Normal Butane	3,259	--	1,030	6,883	5,460	--	334	10,941	6,258	-901	1,992
Isobutane	4,130	--	1,355	558	2,095	--	-16	9,115	7	-968	388
Natural Gasoline	9,147	-136	--	--	--	--	7	8,133	194	677	41
Refinery Olefins	--	--	1,101	--	--	--	-30	--	--	1,131	20
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	1,835	--	--	--	2	--	--	1,833	14
Butylene	--	--	-734	--	--	--	-32	--	--	-702	6
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	9,239	--	60,277	110,210	-11,193	2,620	152,076	7,042	6,797	54,337
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	9,239	--	11,332	53,895	7,951	-547	79,477	3,487	0	4,414
Hydrogen	--	--	--	--	--	14,970	--	14,970	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	9,239	--	11,332	53,895	-7,019	-547	64,507	3,487	0	4,414
Fuel Ethanol	--	6,056	--	4,644	49,249	-198	-311	57,343	2,718	0	2,861
Renewable Fuels Except Fuel Ethanol	--	3,183	--	6,688	4,646	-6,821	-236	7,164	769	0	1,553
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	31,928	-161	--	-28	23,259	1,739	6,797	19,422
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	17,017	56,476	-19,143	3,195	49,340	1,815	0	30,501
Reformulated	--	--	--	4,954	26,880	2,920	2,403	32,330	21	0	15,167
Conventional	--	--	--	12,063	29,596	-22,063	792	17,010	1,794	0	15,334
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	1,106,975	60,155	25,568	20,885	902	--	125,105	1,087,576	36,782
Finished Motor Gasoline	--	--	572,696	6,093	5,070	19,342	617	--	14,330	588,253	2,701
Reformulated	--	--	403,426	--	--	-607	-1	--	--	402,820	13
Conventional	--	--	169,270	6,093	5,070	19,948	618	--	14,330	185,433	2,688
Finished Aviation Gasoline	--	--	385	34	--	--	-7	--	--	426	208
Kerosene-Type Jet Fuel	--	--	164,951	40,364	3,236	--	-167	--	9,521	199,197	9,754
Kerosene	--	--	103	--	--	--	-52	--	56	99	21
Distillate Fuel Oil	--	--	210,424	4,582	10,796	1,543	894	--	45,910	180,541	14,750
15 ppm sulfur and under	--	--	200,812	4,563	10,796	1,543	702	--	30,721	186,290	13,572
Greater than 15 ppm to 500 ppm sulfur	--	--	3,657	7	--	--	32	--	6,437	-2,805	276
Greater than 500 ppm sulfur	--	--	5,955	12	--	--	160	--	8,751	-2,944	902
Residual Fuel Oil	--	--	41,111	6,137	--	--	-394	--	10,599	37,043	4,120
Less than 0.31 percent sulfur	--	--	70	338	--	--	-1	--	NA	NA	261
0.31 to 1.00 percent sulfur	--	--	3,584	2,476	--	--	-170	--	NA	NA	297
Greater than 1.00 percent sulfur	--	--	37,457	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	210	--	--	-11	--	--	568	46
Lubricants	--	--	6,089	376	-321	--	-411	--	3,590	2,965	858
Waxes	--	--	--	575	--	--	--	--	65	510	--
Petroleum Coke	--	--	54,489	311	-93	--	268	--	40,406	14,034	1,739
Marketable	--	--	42,282	311	-93	--	268	--	40,406	1,827	1,739
Catalyst	--	--	12,207	--	--	--	--	--	--	12,207	--
Asphalt and Road Oil	--	--	9,552	1,100	6,880	--	152	--	626	16,753	2,468
Still Gas	--	--	41,858	--	--	--	--	--	--	41,858	--
Miscellaneous Products	--	--	4,946	--	--	--	10	--	3	4,933	109
Total	356,175	9,103	1,122,935	603,608	212,722	37,083	11,831	1,057,734	155,691	1,116,371	148,131

-- = 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.

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, 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 5 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, 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	178	75	21	2,404	18	0
Hydrocarbon Gas Liquids	55	0	44	54	32	--	2	77	46	60
Natural Gas Liquids	55	0	41	54	32	--	2	77	46	57
Ethane	0	--	--	--	--	--	--	--	0	0
Propane	9	--	34	34	12	--	1	--	28	60
Normal Butane	9	--	3	19	15	--	1	30	17	-2
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
Butylene	--	--	-2	--	--	--	0	--	--	-2
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	25	--	165	302	-31	7	417	19	19
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	25	--	31	148	22	-1	218	10	0
Hydrogen	--	--	--	--	--	41	--	41	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	25	--	31	148	-19	-1	177	10	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	64	5	19
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	47	155	-52	9	135	5	0
Reformulated	--	--	--	14	74	8	7	89	0	0
Conventional	--	--	--	33	81	-60	2	47	5	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,033	165	70	57	2	--	343	2,980
Finished Motor Gasoline	--	--	1,569	17	14	53	2	--	39	1,612
Reformulated	--	--	1,105	--	--	-2	0	--	--	1,104
Conventional	--	--	464	17	14	55	2	--	39	508
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	--	--	577	13	30	4	2	--	126	495
15 ppm sulfur and under	--	--	550	13	30	4	2	--	84	510
Greater than 15 ppm to 500 ppm sulfur	--	--	10	0	--	--	0	--	18	-8
Greater than 500 ppm sulfur	--	--	16	0	--	--	0	--	24	-8
Residual Fuel Oil	--	--	113	17	--	--	-1	--	29	101
Less than 0.31 percent sulfur	--	--	0	1	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	10	7	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	103	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	1	--	--	0	--	--	2
Lubricants	--	--	17	1	-1	--	-1	--	10	8
Waxes	--	--	--	2	--	--	--	--	0	1
Petroleum Coke	--	--	149	1	0	--	1	--	111	38
Marketable	--	--	116	1	0	--	1	--	111	5
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	3,077	1,654	583	102	32	2,898	427	3,059

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

Process	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Supply							
Field Production	25,339	812,696	2,944,843	351,495	336,155	4,470,528	12,248
Alaskan	--	--	--	--	--	169,947	466
Lower 48 States	--	--	--	--	--	4,300,581	11,782
Imports (PAD District of Entry)	234,980	1,036,442	605,332	142,290	463,288	2,482,332	6,801
Commercial	234,980	1,036,442	605,332	142,290	463,288	2,482,332	6,801
Strategic Petroleum Reserve (SPR)	--	--	--	--	--	--	--
Net Receipts	69,136	-331,953	431,018	-233,327	65,126	--	--
Adjustments ¹	-1,023	-71,803	230,777	-28,363	27,391	156,980	430
Disposition							
Stock Change ²	-2,009	-5,555	-26,433	2,350	7,746	-23,901	-65
Commercial	--	--	-12,261	--	--	-9,729	-27
SPR	--	--	-14,172	--	--	-14,172	-39
Refinery Inputs	326,881	1,387,965	3,223,336	229,745	877,469	6,045,396	16,563
Exports	3,560	62,972	1,015,067	0	6,745	1,088,345	2,982
Ending Stocks							
Total	9,646	126,547	854,758	23,890	52,898	1,067,739	--
Commercial	9,646	126,547	219,791	23,890	52,898	432,772	--
Refinery	7,152	14,197	44,371	2,664	21,995	90,379	--
Tank Farms and Pipelines	2,494	112,350	175,420	21,226	24,138	335,628	--
Cushing, Oklahoma	--	35,866	--	--	--	35,866	--
Lease	--	--	--	--	--	--	--
Alaskan Crude Oil In-Transit by Water	--	--	--	--	6,765	6,765	--
SPR	--	--	634,967	--	--	634,967	--
SPR Stocks							
Percent of Total Crude Oil Stocks (Percent)	--	--	--	--	--	59.5	--
Percent of Total Petroleum Stocks (Percent)	--	--	--	--	--	33.1	--
Days of Total Petroleum Net Imports (Days)	--	--	--	--	--	948	--
SPR Receipts Detail							
Receipts	--	--	--	--	--	--	--
Domestic	--	--	--	--	--	--	--
Imports	--	--	--	--	--	--	--
Imported by SPR	--	--	--	--	--	--	--
Imported for SPR by Others	--	--	--	--	--	--	--
Imports							
PAD District of Entry	234,980	1,036,442	605,332	142,290	463,288	2,482,332	6,801
PAD District of Processing	253,825	923,180	720,650	112,244	472,433	2,482,332	6,801

-- = 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, 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. Production of Crude Oil by PAD District and State, 2019
(Thousand Barrels)

PAD District and State	2019	
	Total	Daily Average
PAD District 1	25,339	69
Florida	1,705	5
New York	274	1
Pennsylvania	6,557	18
Virginia	6	0
West Virginia	16,797	46
PAD District 2	812,696	2,227
Illinois	8,243	23
Indiana	1,579	4
Kansas	33,193	91
Kentucky	2,505	7
Michigan	5,092	14
Missouri	85	0
Nebraska	1,910	5
North Dakota	518,874	1,422
Ohio	28,039	77
Oklahoma	211,808	580
South Dakota	1,166	3
Tennessee	201	1
PAD District 3	2,944,843	8,068
Alabama	4,857	13
Arkansas	4,610	13
Louisiana	45,923	126
Mississippi	16,878	46
New Mexico	329,483	903
Texas	1,850,715	5,070
Federal Offshore PAD District 3	692,376	1,897
PAD District 4	351,495	963
Colorado	189,707	520
Idaho	22	0
Montana	22,967	63
Utah	36,695	101
Wyoming	102,104	280
PAD District 5	336,155	921
Alaska	169,947	466
South Alaska	5,211	14
North Slope	164,737	451
Arizona	7	0
California	161,485	442
Nevada	267	1
Federal Offshore PAD District 5	4,449	12
U.S. Total	4,470,528	12,248

— = No Data Reported.

Note: State production estimates reported by EIA are normally different from data reported by state agencies. For example, production estimates for Texas reported on table 14 are different from production reported by the Railroad Commission of Texas. See EIA "Today In Energy" article released on July 10, 2015 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, Lease Condensate, and Natural Gas Production Report," state government agencies, U.S. Department of the Interior, and the Bureau of Ocean Energy Management.

Table 15. Natural Gas Plant Net Production and Stocks of Petroleum Products by PAD and Refining Districts, 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	156	201,150	201,306	63,807	109,164	202,809	375,780
Natural Gas Liquids	156	201,150	201,306	63,807	109,164	202,809	375,780
Ethane	-	78,390	78,390	18,041	22,415	83,005	123,461
Propane	52	70,660	70,712	28,387	44,081	64,523	136,991
Normal Butane	104	22,325	22,429	6,391	19,533	22,012	47,936
Isobutane	-	9,700	9,700	6,066	5,453	11,238	22,757
Natural Gasoline	-	20,075	20,075	4,922	17,682	22,031	44,635

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	778,243	60,134	71,093	7,994	87,198	1,004,662	159,177	20,020	1,760,945
Natural Gas Liquids	778,243	60,134	71,093	7,994	87,198	1,004,662	159,177	20,020	1,760,945
Ethane	335,127	25,570	27,140	2,214	35,326	425,377	40,364	17	667,609
Propane	237,681	18,453	23,699	2,063	27,732	309,628	59,080	3,467	579,878
Normal Butane	80,176	-36,936	8,117	915	8,623	60,895	23,109	3,259	157,628
Isobutane	45,303	47,394	4,746	757	6,163	104,363	11,629	4,130	152,579
Natural Gasoline	79,956	5,653	7,391	2,045	9,354	104,399	24,995	9,147	203,251

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	293	298	956	123	541	1,620
Natural Gas Liquids	5	293	298	956	123	541	1,620
Ethane	-	-	-	32	1	107	140
Propane	3	135	138	709	56	189	954
Normal Butane	2	60	62	74	22	87	183
Isobutane	-	16	16	73	3	91	167
Natural Gasoline	-	82	82	68	41	67	176

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	7	-	1,551	200	306	3,975
Natural Gas Liquids	215	464	865	7	-	1,551	200	306	3,975
Ethane	52	183	-	-	-	235	6	-	381
Propane	43	190	43	3	-	279	95	114	1,580
Normal Butane	24	70	601	2	-	697	40	147	1,129
Isobutane	69	17	74	-	-	160	18	12	373
Natural Gasoline	27	4	147	2	-	180	41	33	512

- = 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 16. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, 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	291,680	35,201	326,881	893,503	182,876	311,586	1,387,965
Hydrocarbon Gas Liquids	17,116	-	17,116	22,520	1,665	11,939	36,124
Natural Gas Liquids	17,116	-	17,116	22,520	1,665	11,939	36,124
Normal Butane	10,978	-	10,978	4,990	858	2,974	8,822
Isobutane	3,982	-	3,982	12,462	683	4,669	17,814
Natural Gasoline	2,156	-	2,156	5,068	124	4,296	9,488
Other Liquids	963,516	76,555	1,040,071	138,113	41,162	28,740	208,015
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	118,535	9,842	128,377	70,280	18,383	21,921	110,584
Hydrogen	1,050	134	1,184	8,396	3,075	2,134	13,605
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--
Methyl Tertiary Butyl Ether (MTBE)	--	--	--	--	--	--	--
All Other Oxygenates ¹	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	117,485	9,708	127,193	61,521	15,308	19,787	96,616
Fuel Ethanol	114,434	8,917	123,351	58,430	13,452	18,962	90,844
Renewable Diesel Fuel ²	3,051	791	3,842	3,091	1,856	825	5,772
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	-	363	-	-	363
Unfinished Oils (net)	22,763	-918	21,845	-479	-4,530	-2,029	-7,038
Naphthas and Lighter	8,690	-523	8,167	2,923	-2,008	354	1,269
Kerosene and Light Gas Oils	959	3	962	-159	-1,603	-257	-2,019
Heavy Gas Oils	10,010	-397	9,613	-2,289	-919	-530	-3,738
Residuum	3,104	-1	3,103	-954	-	-1,596	-2,550
Motor Gasoline Blend.Comp. (MGBC)(net)	822,218	67,631	889,849	68,312	27,309	8,848	104,469
Reformulated - RBOB	194,409	1,026	195,435	-6,979	15,402	11,846	20,269
Conventional	627,809	66,605	694,414	75,291	11,907	-2,998	84,200
CBOB	499,948	66,543	566,491	80,844	11,469	-3,312	89,001
GTAB	48,258	-	48,258	-	-	-	-
Other	79,603	62	79,665	-5,553	438	314	-4,801
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input	1,272,312	111,756	1,384,068	1,054,136	225,703	352,265	1,632,104

See footnotes at end of table.

Table 16. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, 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	254,158	1,608,559	1,234,105	81,175	45,339	3,223,336	229,745	877,469	6,045,396
Hydrocarbon Gas Liquids	7,754	62,114	47,308	749	2,062	119,987	7,085	28,189	208,501
Natural Gas Liquids	7,754	62,114	47,308	749	2,062	119,987	7,085	28,189	208,501
Normal Butane	3,206	18,362	12,633	393	1	34,595	2,704	10,941	68,040
Isobutane	2,970	22,981	17,710	316	2,053	46,030	2,320	9,115	79,261
Natural Gasoline	1,578	20,771	16,965	40	8	39,362	2,061	8,133	61,200
Other Liquids	103,306	-463,277	-305,693	88,965	-4,487	-581,186	-2,623	152,076	816,353
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	26,085	35,653	25,418	13,758	2,798	103,712	13,918	79,477	436,068
Hydrogen	80	24,972	18,903	842	543	45,340	2,501	14,970	77,600
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--
Methyl Tertiary Butyl Ether (MTBE)	--	--	--	--	--	--	--	--	--
All Other Oxygenates ¹	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	26,005	10,681	6,515	12,916	2,255	58,372	11,417	64,507	358,105
Fuel Ethanol	24,678	10,017	5,994	12,133	1,964	54,786	10,844	57,343	337,168
Renewable Diesel Fuel ²	1,327	659	521	783	291	3,581	573	7,079	20,847
Other Renewable Fuels	--	5	--	--	--	5	--	85	90
Other Hydrocarbons	--	--	--	--	--	--	--	--	363
Unfinished Oils (net)	-3,648	-25,887	126,011	-2,665	-772	93,039	-2,019	23,259	129,086
Naphthas and Lighter	-1,201	-70,495	5,639	-479	-177	-66,713	-766	-1,852	-59,895
Kerosene and Light Gas Oils	-85	-13,619	16,888	-327	-536	2,321	-2,840	-7,036	-8,612
Heavy Gas Oils	-1,886	41,631	79,058	-985	-59	117,759	2,059	26,321	152,014
Residuum	-476	16,596	24,426	-874	--	39,672	-472	5,826	45,579
Motor Gasoline Blend.Comp. (MGBC)(net)	80,683	-473,043	-457,161	77,872	-6,513	-778,162	-14,522	49,340	250,974
Reformulated - RBOB	69,298	-110,104	-49,197	--	-8,885	-98,888	--	32,330	149,146
Conventional	11,385	-362,939	-407,964	77,872	2,372	-679,274	-14,522	17,010	101,828
CBOB	12,656	-379,733	-401,160	78,243	2,283	-687,711	-15,155	11,991	-35,383
GTAB	--	--	--	--	--	--	--	--	48,258
Other	-1,271	16,794	-6,804	-371	89	8,437	633	5,019	88,953
Aviation Gasoline Blend. Comp. (net)	186	--	39	--	--	225	--	--	225
Total Input	365,218	1,207,396	975,720	170,889	42,914	2,762,137	234,207	1,057,734	7,070,250

-- = Not Applicable.

-- = 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.

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 17. Refinery and Blender Net Production of Finished Petroleum Products by PAD and Refining Districts, 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	11,455	152	11,607	33,946	2,730	4,184	40,860
Natural Gas Liquids	6,646	152	6,798	22,682	1,182	1,528	25,392
Ethane	-	-	-	-	-	-	-
Propane	5,899	311	6,210	18,399	3,210	5,216	26,825
Normal Butane	751	20	771	4,485	-1,730	-3,136	-381
Isobutane	-4	-179	-183	-202	-298	-552	-1,052
Natural Gasoline	-	-	-	-	-	-	-
Refinery Olefins	4,809	-	4,809	11,264	1,548	2,656	15,468
Ethylene	127	-	127	-	-	-	-
Propylene	4,930	-	4,930	10,521	1,548	2,569	14,638
Butylene	-517	-	-517	743	-	42	785
Isobutylene	269	-	269	-	-	45	45
Finished Motor Gasoline	1,105,862	89,654	1,195,516	620,341	130,718	198,327	949,386
Reformulated	471,396	1,835	473,231	99,262	18,655	13,165	131,082
Reformulated Blended with Fuel Ethanol	471,396	1,835	473,231	99,262	18,655	13,165	131,082
Reformulated Other	-	-	-	-	-	-	-
Conventional	634,466	87,819	722,285	521,079	112,063	185,162	818,304
Conventional Blended with Fuel Ethanol	663,499	87,244	750,743	480,449	113,674	170,652	764,775
Ed55 and Lower	662,926	87,244	750,170	480,310	113,315	169,814	763,439
Greater than Ed55	573	-	573	139	359	838	1,336
Conventional Other	-29,033	575	-28,458	40,630	-1,611	14,510	53,529
Finished Aviation Gasoline	-	-	-	-	380	-	380
Kerosene-Type Jet Fuel	35,715	-3	35,712	77,032	11,333	11,178	99,543
Kerosene	801	27	828	1,534	-	401	1,935
Distillate Fuel Oil	91,622	10,015	101,637	234,376	60,321	121,614	416,311
15 ppm sulfur and under	87,807	8,681	96,488	234,585	60,315	121,482	416,382
Greater than 15 ppm to 500 ppm sulfur	1,453	988	2,441	-168	-	1,177	1,009
Greater than 500 ppm sulfur	2,362	346	2,708	-41	6	-1,045	-1,080
Residual Fuel Oil	12,155	66	12,221	12,731	2,279	1,275	16,285
Less than 0.31 percent sulfur	1,808	55	1,863	825	-	1	826
0.31 to 1.00 percent sulfur	5,517	11	5,528	1,452	1,034	-	2,486
Greater than 1.00 percent sulfur	4,830	-	4,830	10,454	1,245	1,274	12,973
Petrochemical Feedstocks	390	-	390	11,040	-	393	11,433
Naphtha for Petro. Feed. Use	390	-	390	7,351	-	-	7,351
Other Oils for Petro. Feed. Use	-	-	-	3,689	-	393	4,082
Special Naphthas	-	228	228	-502	-	336	-166
Lubricants	2,332	2,319	4,651	-	-	2,089	2,089
Waxes	-	115	115	-	-	322	322
Petroleum Coke	9,622	230	9,852	45,397	10,016	10,057	65,470
Marketable	3,432	-	3,432	32,859	8,124	7,535	48,518
Catalyst	6,190	230	6,420	12,538	1,892	2,522	16,952
Asphalt and Road Oil	5,147	7,723	12,870	35,246	13,308	3,095	51,649
Still Gas	13,720	608	14,328	31,813	7,260	12,455	51,528
Miscellaneous Products	642	286	928	3,682	1,307	562	5,551
Total	1,289,463	111,420	1,400,883	1,106,636	239,652	366,288	1,712,576
Processing Gain(-) or Loss(+) ¹	-17,151	336	-16,815	-52,500	-13,949	-14,023	-80,472

See footnotes at end of table.

Table 17. Refinery and Blender Net Production of Finished Petroleum Products by PAD and Refining Districts, 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	9,409	73,523	65,549	218	457	149,156	3,539	15,960	221,122
Natural Gas Liquids	4,818	33,559	31,099	-27	431	69,880	2,909	14,859	119,838
Ethane	42	1,505	259	-	-	1,806	-	-	1,806
Propane	3,455	27,043	25,338	99	487	56,422	3,153	12,474	105,084
Normal Butane	1,218	12,003	3,813	-126	-43	16,865	-7	1,030	18,278
Isobutane	103	-6,992	1,689	-	-13	-5,213	-237	1,355	-5,330
Natural Gasoline	-	-	-	-	-	-	-	-	-
Refinery Olefins	4,591	39,964	34,450	245	26	79,276	630	1,101	101,284
Ethylene	-	-	-	-	-	-	-	-	127
Propylene	4,578	41,122	35,612	245	-	81,557	44	1,835	103,004
Butylene	13	-739	-1,168	-	26	-1,868	607	-734	-1,727
Isobutylene	-	-419	6	-	-	-413	-21	-	-120
Finished Motor Gasoline	244,077	296,451	180,557	111,608	20,887	853,580	113,559	572,696	3,684,737
Reformulated	89,885	78,828	-	-	-	168,713	-	403,426	1,176,452
Reformulated Blended with Fuel Ethanol	89,885	78,828	-	-	-	168,713	-	403,426	1,176,452
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	154,192	217,623	180,557	111,608	20,887	684,867	113,559	169,270	2,508,285
Conventional Blended with Fuel Ethanol	153,472	19,460	59,803	120,260	19,779	372,774	108,163	166,961	2,163,416
Ed55 and Lower	153,224	19,460	59,803	120,095	19,777	372,359	108,011	166,830	2,160,809
Greater than Ed55	248	-	-	165	2	415	152	131	2,607
Conventional Other	720	198,163	120,754	-8,652	1,108	312,093	5,396	2,309	344,869
Finished Aviation Gasoline	962	1,213	1,481	-	-	3,656	61	385	4,482
Kerosene-Type Jet Fuel	17,799	169,804	153,566	2,139	2	343,310	12,202	164,951	655,718
Kerosene	29	535	84	194	-	842	1	103	3,709
Distillate Fuel Oil	80,684	501,347	441,391	27,428	18,505	1,069,355	77,288	210,424	1,875,015
15 ppm sulfur and under	80,687	474,705	362,662	25,832	18,505	962,391	76,667	200,812	1,752,740
Greater than 15 ppm to 500 ppm sulfur	-3	2,926	34,706	1,266	-	38,895	621	3,657	46,623
Greater than 500 ppm sulfur	-	23,716	44,023	330	-	68,069	0	5,955	75,652
Residual Fuel Oil	4,101	16,089	36,447	-180	1,245	57,702	4,514	41,111	131,833
Less than 0.31 percent sulfur	2,983	274	11,611	-	-	14,868	2,223	70	19,850
0.31 to 1.00 percent sulfur	-	811	5,209	-180	-	5,840	427	3,584	17,865
Greater than 1.00 percent sulfur	1,118	15,004	19,627	-	1,245	36,994	1,864	37,457	94,118
Petrochemical Feedstocks	1,582	61,914	34,052	3	-	97,551	-	24	109,398
Naphtha for Petro. Feed. Use	1,431	41,843	19,235	3	-	62,512	-	24	70,277
Other Oils for Petro. Feed. Use	151	20,071	14,817	-	-	35,039	-	-	39,121
Special Naphthas	789	7,724	-	2,611	-	11,124	-	347	11,533
Lubricants	281	18,442	18,905	10,420	-	48,048	-	6,089	60,877
Waxes	-	468	440	252	-	1,160	-	-	1,597
Petroleum Coke	4,647	95,385	66,889	1,730	389	169,040	9,193	54,489	308,044
Marketable	1,953	72,001	51,266	1,586	-	126,806	6,465	42,282	227,503
Catalyst	2,694	23,384	15,623	144	389	42,234	2,728	12,207	80,541
Asphalt and Road Oil	2,609	5,724	8,850	10,687	615	28,485	14,107	9,552	116,663
Still Gas	7,829	66,351	50,017	2,710	1,169	128,076	8,122	41,858	243,912
Miscellaneous Products	1,310	10,905	6,314	201	321	19,051	1,264	4,946	31,740
Total	376,108	1,325,875	1,064,542	170,021	43,590	2,980,136	243,850	1,122,935	7,460,380
Processing Gain(-) or Loss(+) ¹	-10,890	-118,479	-88,822	868	-676	-217,999	-9,643	-65,201	-390,130

- = 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 18. Refinery Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, 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	291,680	35,201	326,881	893,503	182,876	311,586	1,387,965
Hydrocarbon Gas Liquids	6,366	-	6,366	21,215	683	8,538	30,436
Natural Gas Liquids	6,366	-	6,366	21,215	683	8,538	30,436
Normal Butane	2,384	-	2,384	3,714	-	441	4,155
Isobutane	3,982	-	3,982	12,462	683	4,669	17,814
Natural Gasoline	-	-	-	5,039	-	3,428	8,467
Other Liquids	-125,140	933	-124,207	-403,193	-64,501	-134,903	-602,597
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	2,005	1,780	3,785	11,865	5,249	3,746	20,860
Hydrogen	1,050	134	1,184	8,396	3,075	2,134	13,605
Oxygenates (excluding Fuel Ethanol)	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE)	-	-	-	-	-	-	-
All Other Oxygenates ¹	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	955	1,646	2,601	3,106	2,174	1,612	6,892
Fuel Ethanol	955	1,367	2,322	2,016	1,725	1,370	5,111
Renewable Diesel Fuel ²	-	279	279	1,090	449	242	1,781
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	-	363	-	-	363
Unfinished Oils (net)	22,756	-918	21,838	-1,441	-4,530	-2,029	-8,000
Naphthas and Lighter	8,690	-523	8,167	2,923	-2,008	354	1,269
Kerosene and Light Gas Oils	959	3	962	-159	-1,603	-257	-2,019
Heavy Gas Oils	10,003	-397	9,606	-2,261	-919	-530	-3,710
Residuum	3,104	-1	3,103	-1,944	-	-1,596	-3,540
Motor Gasoline Blend.Comp. (MGBC)(net)	-149,901	71	-149,830	-413,617	-65,220	-136,620	-615,457
Reformulated - RBOB	-98,574	-	-98,574	-93,013	-1,249	-	-94,262
Conventional	-51,327	71	-51,256	-320,604	-63,971	-136,620	-521,195
CBOB	-48,098	9	-48,089	-314,505	-64,100	-136,922	-515,527
GTAB	-	-	-	-	-	-	-
Other	-3,229	62	-3,167	-6,099	129	302	-5,668
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input to Refineries	172,906	36,134	209,040	511,525	119,058	185,221	815,804
Atmospheric Crude Oil Distillation							
Gross Input (daily average)	802	98	900	2,453	512	855	3,820
Operable Capacity (daily average)	1,126	98	1,224	2,678	547	923	4,147
Operable Utilization Rate (percent) ³	71.3	99.4	73.5	91.6	93.7	92.7	92.1
Downstream Processing							
Fresh Feed Input (daily average)							
Catalytic Reforming	146	16	162	452	72	160	684
Catalytic Cracking	305	16	320	731	120	211	1,063
Catalytic Hydrocracking	34	-	34	183	57	56	297
Delayed and Fluid Coking	41	-	41	326	64	82	472
Crude Oil Qualities							
Sulfur Content, Weighted Average (percent)	0.74	1.62	0.84	1.53	1.67	0.63	1.35
API Gravity, Weighted Average (degrees)	35.83	32.33	35.45	33.07	29.04	38.84	33.78
Operable Capacity (daily average)	1,126	98	1,224	2,678	547	923	4,147
Operating	985	98	1,084	2,586	509	917	4,011
Idle	140	-	140	92	38	6	136
Alaskan Crude Oil Receipts	-	-	-	-	-	-	-

See footnotes at end of table.

Table 18. Refinery Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, 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	254,158	1,608,559	1,234,105	81,175	45,339	3,223,336	229,745	877,469	6,045,396
Hydrocarbon Gas Liquids	7,222	48,255	46,042	360	2,062	103,941	6,154	27,787	174,684
Natural Gas Liquids	7,222	48,255	46,042	360	2,062	103,941	6,154	27,787	174,684
Normal Butane	2,815	14,197	11,367	4	1	28,384	2,200	10,539	47,662
Isobutane	2,968	22,981	17,710	316	2,053	46,028	2,294	9,115	79,233
Natural Gasoline	1,439	11,077	16,965	40	8	29,529	1,660	8,133	47,789
Other Liquids	-111,067	-592,125	-342,712	-17,087	-18,621	-1,081,612	-59,179	-391,263	-2,258,858
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	3,446	25,690	21,637	1,536	1,198	53,507	6,234	19,349	103,735
Hydrogen	80	24,972	18,903	842	543	45,340	2,501	14,970	77,600
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--
Methyl Tertiary Butyl Ether (MTBE)	--	--	--	--	--	--	--	--	--
All Other Oxygenates ¹	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	3,366	718	2,734	694	655	8,167	3,733	4,379	25,772
Fuel Ethanol	2,654	580	2,213	503	535	6,485	3,323	1,094	18,335
Renewable Diesel Fuel ²	712	138	521	191	120	1,682	410	3,285	7,437
Other Renewable Fuels	--	--	--	--	--	--	--	--	--
Other Hydrocarbons	--	--	--	--	--	--	--	--	363
Unfinished Oils (net)	-3,648	-25,314	125,509	-2,665	-772	93,110	-2,019	23,259	128,188
Naphthas and Lighter	-1,201	-70,495	5,639	-479	-177	-66,713	-766	-1,852	-59,895
Kerosene and Light Gas Oils	-85	-13,046	16,679	-327	-536	2,685	-2,840	-7,036	-8,248
Heavy Gas Oils	-1,886	41,631	78,765	-985	-59	117,466	2,059	26,321	151,742
Residuum	-476	16,596	24,426	-874	--	39,672	-472	5,826	44,589
Motor Gasoline Blend.Comp. (MGBC)(net)	-111,051	-592,501	-489,897	-15,958	-19,047	-1,228,454	-63,394	-433,871	-2,491,006
Reformulated - RBOB	-11,719	-166,993	-49,197	--	-8,885	-236,794	--	-323,449	-753,079
Conventional	-99,332	-425,508	-440,700	-15,958	-10,162	-991,660	-63,394	-110,422	-1,737,927
CBOB	-98,061	-366,091	-417,287	-15,576	-10,187	-907,202	-64,013	-114,327	-1,649,158
GTAB	--	--	--	--	--	--	--	--	--
Other	-1,271	-59,417	-23,413	-382	25	-84,458	619	3,905	-88,769
Aviation Gasoline Blend. Comp. (net)	186	--	39	--	--	225	--	--	225
Total Input to Refineries	150,313	1,064,689	937,435	64,448	28,780	2,245,665	176,720	513,993	3,961,222
Atmospheric Crude Oil Distillation									
Gross Input (daily average)	695	4,545	3,526	199	125	9,090	630	2,553	16,993
Operable Capacity (daily average)	745	5,042	3,696	256	136	9,876	687	2,875	18,808
Operable Utilization Rate (percent) ³	93.3	90.1	95.4	77.7	91.7	92.0	91.8	88.8	90.4
Downstream Processing									
Fresh Feed Input (daily average)									
Catalytic Reforming	147	633	599	32	26	1,437	99	394	2,777
Catalytic Cracking	171	1,276	1,001	14	30	2,493	168	667	4,711
Catalytic Hydrocracking	46	478	444	15	16	999	26	458	1,814
Delayed and Fluid Coking	23	735	505	25	--	1,289	63	431	2,296
Crude Oil Qualities									
Sulfur Content, Weighted Average (percent)	0.57	1.42	1.22	1.54	0.85	1.26	1.41	1.39	1.29
API Gravity, Weighted Average (degrees)	39.98	33.09	32.78	30.01	37.43	33.54	33.04	28.61	32.93
Operable Capacity (daily average)	745	5,042	3,696	256	136	9,876	687	2,875	18,808
Operating	745	4,984	3,679	256	136	9,802	669	2,874	18,439
Idle	--	58	16	--	--	74	18	1	370
Alaskan Crude Oil Receipts	--	--	--	--	--	--	--	157,560	157,560

-- = Not Applicable.

-- = 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 19. Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts, 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	11,455	152	11,607	33,946	2,730	4,184	40,860
Natural Gas Liquids	6,646	152	6,798	22,682	1,182	1,528	25,392
Ethane	-	-	-	-	-	-	-
Propane	5,899	311	6,210	18,399	3,210	5,216	26,825
Normal Butane	751	20	771	4,485	-1,730	-3,136	-381
Isobutane	-4	-179	-183	-202	-298	-552	-1,052
Natural Gasoline	-	-	-	-	-	-	-
Refinery Olefins	4,809	-	4,809	11,264	1,548	2,656	15,468
Ethylene	127	-	127	-	-	-	-
Propylene	4,930	-	4,930	10,521	1,548	2,569	14,638
Butylene	-517	-	-517	743	-	42	785
Isobutylene	269	-	269	-	-	45	45
Finished Motor Gasoline	9,463	14,548	24,011	80,426	25,475	31,869	137,770
Reformulated	9,463	-	9,463	-	-	-	-
Reformulated Blended with Fuel Ethanol	9,463	-	9,463	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-
Conventional	-	14,548	14,548	80,426	25,475	31,869	137,770
Conventional Blended with Fuel Ethanol	-	13,718	13,718	20,529	18,465	14,061	53,055
Ed55 and Lower	-	13,718	13,718	20,529	18,465	14,061	53,055
Greater than Ed55	-	-	-	-	-	-	-
Conventional Other	-	830	830	59,897	7,010	17,808	84,715
Finished Aviation Gasoline	-	-	-	-	380	-	380
Kerosene-Type Jet Fuel	36,146	-	36,146	77,376	11,337	11,178	99,891
Kerosene	829	29	858	1,542	-	401	1,943
Distillate Fuel Oil	87,863	9,487	97,350	232,302	58,922	121,044	412,268
15 ppm sulfur and under	84,449	8,153	92,602	232,511	58,916	120,917	412,344
Greater than 15 ppm to 500 ppm sulfur	668	988	1,656	-168	-	91	-77
Greater than 500 ppm sulfur	2,746	346	3,092	-41	6	36	1
Residual Fuel Oil	12,419	66	12,485	12,731	2,279	1,275	16,285
Less than 0.31 percent sulfur	2,152	55	2,207	825	-	1	826
0.31 to 1.00 percent sulfur	5,481	11	5,492	1,452	1,034	-	2,486
Greater than 1.00 percent sulfur	4,786	-	4,786	10,454	1,245	1,274	12,973
Petrochemical Feedstocks	390	-	390	11,040	-	393	11,433
Naphtha for Petro. Feed. Use	390	-	390	7,351	-	-	7,351
Other Oils for Petro. Feed. Use	-	-	-	3,689	-	393	4,082
Special Naphthas	-	228	228	-502	-	336	-166
Lubricants	2,332	2,319	4,651	-	-	2,089	2,089
Waxes	-	115	115	-	-	322	322
Petroleum Coke	9,622	230	9,852	45,397	10,016	10,057	65,470
Marketable	3,432	-	3,432	32,859	8,124	7,535	48,518
Catalyst	6,190	230	6,420	12,538	1,892	2,522	16,952
Asphalt and Road Oil	5,147	7,723	12,870	34,284	13,303	3,080	50,667
Still Gas	13,720	608	14,328	31,813	7,260	12,455	51,528
Miscellaneous Products	642	286	928	3,682	1,307	562	5,551
Total	190,028	35,791	225,819	564,037	133,009	199,245	896,291
Processing Gain(-) or Loss(+) ¹	-17,122	343	-16,779	-52,512	-13,951	-14,024	-80,487

See footnotes at end of table.

Table 19. Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts, 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	9,409	73,523	65,549	218	457	149,156	3,539	15,960	221,122
Natural Gas Liquids	4,818	33,559	31,099	-27	431	69,880	2,909	14,859	119,838
Ethane	42	1,505	259	-	-	1,806	-	-	1,806
Propane	3,455	27,043	25,338	99	487	56,422	3,153	12,474	105,084
Normal Butane	1,218	12,003	3,813	-126	-43	16,865	-7	1,030	18,278
Isobutane	103	-6,992	1,689	-	-13	-5,213	-237	1,355	-5,330
Natural Gasoline	-	-	-	-	-	-	-	-	-
Refinery Olefins	4,591	39,964	34,450	245	26	79,276	630	1,101	101,284
Ethylene	-	-	-	-	-	-	-	-	127
Propylene	4,578	41,122	35,612	245	-	81,557	44	1,835	103,004
Butylene	13	-739	-1,168	-	26	-1,868	607	-734	-1,727
Isobutylene	-	-419	6	-	-	-413	-21	-	-120
Finished Motor Gasoline	29,752	154,412	142,776	5,753	6,925	339,618	56,228	32,811	590,438
Reformulated	-	-	-	-	-	-	-	6,854	16,317
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	6,854	16,317
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	29,752	154,412	142,776	5,753	6,925	339,618	56,228	25,957	574,121
Conventional Blended with Fuel Ethanol	26,479	5,781	22,244	5,151	5,343	64,998	33,834	3,930	169,535
Ed55 and Lower	26,455	5,781	22,244	5,151	5,343	64,974	33,834	3,930	169,511
Greater than Ed55	24	-	-	-	-	24	-	-	24
Conventional Other	3,273	148,631	120,532	602	1,582	274,620	22,394	22,027	404,586
Finished Aviation Gasoline	962	1,213	1,481	-	-	3,656	61	385	4,482
Kerosene-Type Jet Fuel	17,799	169,797	153,449	2,142	-	343,187	11,451	165,119	655,794
Kerosene	29	567	59	194	-	849	1	4	3,655
Distillate Fuel Oil	80,108	501,059	441,641	26,841	18,334	1,067,983	77,889	206,579	1,862,069
15 ppm sulfur and under	80,111	473,187	362,805	25,245	18,334	959,682	77,268	197,116	1,739,012
Greater than 15 ppm to 500 ppm sulfur	-3	3,813	34,748	1,266	-	39,824	621	3,657	45,681
Greater than 500 ppm sulfur	-	24,059	44,088	330	-	68,477	0	5,806	77,376
Residual Fuel Oil	4,101	15,653	36,155	-180	1,245	56,974	4,514	41,041	131,299
Less than 0.31 percent sulfur	2,983	285	11,468	-	-	14,736	2,223	-	19,992
0.31 to 1.00 percent sulfur	-	860	5,192	-180	-	5,872	427	3,584	17,861
Greater than 1.00 percent sulfur	1,118	14,508	19,495	-	1,245	36,366	1,864	37,457	93,446
Petrochemical Feedstocks	1,582	61,914	34,052	3	-	97,551	-	24	109,398
Naphtha for Petro. Feed. Use	1,431	41,843	19,235	3	-	62,512	-	24	70,277
Other Oils for Petro. Feed. Use	151	20,071	14,817	-	-	35,039	-	-	39,121
Special Naphthas	789	7,724	-	2,611	-	11,124	-	347	11,533
Lubricants	281	18,442	18,905	10,420	-	48,048	-	6,089	60,877
Waxes	-	468	440	252	-	1,160	-	-	1,597
Petroleum Coke	4,647	95,385	66,889	1,730	389	169,040	9,193	54,489	308,044
Marketable	1,953	72,001	51,266	1,586	-	126,806	6,465	42,282	227,503
Catalyst	2,694	23,384	15,623	144	389	42,234	2,728	12,207	80,541
Asphalt and Road Oil	2,609	5,724	8,533	10,687	615	28,168	14,107	9,552	115,364
Still Gas	7,829	66,351	50,017	2,710	1,169	128,076	8,122	41,858	243,912
Miscellaneous Products	1,310	10,905	6,314	201	321	19,051	1,264	4,946	31,740
Total	161,207	1,183,137	1,026,260	63,582	29,455	2,463,641	186,369	579,204	4,351,324
Processing Gain(-) or Loss(+) ¹	-10,894	-118,448	-88,825	866	-675	-217,976	-9,649	-65,211	-390,102

- = 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 20. Blender Net Inputs of Petroleum Products by PAD Districts, 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	10,750	–	10,750	1,305	982	3,401	5,688
Natural Gas Liquids	10,750	–	10,750	1,305	982	3,401	5,688
Normal Butane	8,594	–	8,594	1,276	858	2,533	4,667
Isobutane	–	–	–	–	–	–	–
Natural Gasoline	2,156	–	2,156	29	124	868	1,021
Other Liquids	1,088,656	75,622	1,164,278	541,306	105,663	163,643	810,612
Oxygenates/Renewables	116,530	8,062	124,592	58,415	13,134	18,175	89,724
Oxygenates (excluding Fuel Ethanol)	–	–	–	–	–	–	–
Methyl Tertiary Butyl Ether (MTBE)	–	–	–	–	–	–	–
All Other Oxygenates ¹	–	–	–	–	–	–	–
Renewable Fuels (including Fuel Ethanol)	116,530	8,062	124,592	58,415	13,134	18,175	89,724
Fuel Ethanol	113,479	7,550	121,029	56,414	11,727	17,592	85,733
Renewable Diesel Fuel ²	3,051	512	3,563	2,001	1,407	583	3,991
Other Renewable Fuels	–	–	–	–	–	–	–
Unfinished Oils (net)	7	–	7	962	–	–	962
Naphthas and Lighter	–	–	–	–	–	–	–
Kerosene and Light Gas Oils	–	–	–	–	–	–	–
Heavy Gas Oils	7	–	7	-28	–	–	-28
Residuum	–	–	–	990	–	–	990
Motor Gasoline Blend.Comp. (MGBC)(net)	972,119	67,560	1,039,679	481,929	92,529	145,468	719,926
Reformulated - RBOB	292,983	1,026	294,009	86,034	16,651	11,846	114,531
Conventional	679,136	66,534	745,670	395,895	75,878	133,622	605,395
CBOB	548,046	66,534	614,580	395,349	75,569	133,610	604,528
GTAB	48,258	–	48,258	–	–	–	–
Other	82,832	–	82,832	546	309	12	867
Aviation Gasoline Blend. Comp. (net)	–	–	–	–	–	–	–
Total Input	1,099,406	75,622	1,175,028	542,611	106,645	167,044	816,300

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	532	13,859	1,266	389	–	16,046	931	402	33,817
Natural Gas Liquids	532	13,859	1,266	389	–	16,046	931	402	33,817
Normal Butane	391	4,165	1,266	389	–	6,211	504	402	20,378
Isobutane	2	–	–	–	–	2	26	–	28
Natural Gasoline	139	9,694	–	–	–	9,833	401	–	13,411
Other Liquids	214,373	128,848	37,019	106,052	14,134	500,426	56,556	543,339	3,075,211
Oxygenates/Renewables	22,639	9,963	3,781	12,222	1,600	50,205	7,684	60,128	332,333
Oxygenates (excluding Fuel Ethanol)	–	–	–	–	–	–	–	–	–
Methyl Tertiary Butyl Ether (MTBE)	–	–	–	–	–	–	–	–	–
All Other Oxygenates ¹	–	–	–	–	–	–	–	–	–
Renewable Fuels (including Fuel Ethanol)	22,639	9,963	3,781	12,222	1,600	50,205	7,684	60,128	332,333
Fuel Ethanol	22,024	9,437	3,781	11,630	1,429	48,301	7,521	56,249	318,833
Renewable Diesel Fuel ²	615	521	–	592	171	1,899	163	3,794	13,410
Other Renewable Fuels	–	5	–	–	–	5	–	85	90
Unfinished Oils (net)	–	-573	502	–	–	-71	–	–	898
Naphthas and Lighter	–	–	–	–	–	–	–	–	–
Kerosene and Light Gas Oils	–	-573	209	–	–	-364	–	–	-364
Heavy Gas Oils	–	–	293	–	–	293	–	–	272
Residuum	–	–	–	–	–	–	–	–	990
Motor Gasoline Blend.Comp. (MGBC)(net)	191,734	119,458	32,736	93,830	12,534	450,292	48,872	483,211	2,741,980
Reformulated - RBOB	81,017	56,889	–	–	–	137,906	–	355,779	902,225
Conventional	110,717	62,569	32,736	93,830	12,534	312,386	48,872	127,432	1,839,755
CBOB	110,717	-13,642	16,127	93,819	12,470	219,491	48,858	126,318	1,613,775
GTAB	–	–	–	–	–	–	–	–	48,258
Other	–	76,211	16,609	11	64	92,895	14	1,114	177,722
Aviation Gasoline Blend. Comp. (net)	–	–	–	–	–	–	–	–	–
Total Input	214,905	142,707	38,285	106,441	14,134	516,472	57,487	543,741	3,109,028

-- = Not Applicable.

- = 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.

Note: Refer to Appendix A for Refining District descriptions.

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

Table 21. Blender Net Production of Petroleum Products by PAD Districts, 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	1,096,399	75,106	1,171,505	539,915	105,243	166,458	811,616
Reformulated	461,933	1,835	463,768	99,262	18,655	13,165	131,082
Reformulated Blended with Fuel Ethanol	461,933	1,835	463,768	99,262	18,655	13,165	131,082
Reformulated Other	-	-	-	-	-	-	-
Conventional	634,466	73,271	707,737	440,653	86,588	153,293	680,534
Conventional Blended with Fuel Ethanol	663,499	73,526	737,025	459,920	95,209	156,591	711,720
Ed55 and Lower	662,926	73,526	736,452	459,781	94,850	155,753	710,384
Greater than Ed55	573	-	573	139	359	838	1,336
Conventional Other	-29,033	-255	-29,288	-19,267	-8,621	-3,298	-31,186
Finished Aviation Gasoline	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	-431	-3	-434	-344	-4	0	-348
Kerosene	-28	-2	-30	-8	-	-	-8
Distillate Fuel Oil	3,759	528	4,287	2,074	1,399	570	4,043
15 ppm sulfur and under	3,358	528	3,886	2,074	1,399	565	4,038
Greater than 15 ppm to 500 ppm sulfur	785	-	785	-	-	1,086	1,086
Greater than 500 ppm sulfur	-384	-	-384	-	-	-1,081	-1,081
Residual Fuel Oil	-264	-	-264	-	-	-	-
Less than 0.31 percent sulfur	-344	-	-344	-	-	-	-
0.31 to 1.00 percent sulfur	36	-	36	-	-	-	-
Greater than 1.00 percent sulfur	44	-	44	-	-	-	-
Special Naphthas	-	-	-	-	-	-	-
Lubricants	-	-	-	-	-	-	-
Asphalt and Road Oil	-	-	-	962	5	15	982
Miscellaneous Products	-	-	-	-	-	-	-
Total Production	1,099,435	75,629	1,175,064	542,599	106,643	167,043	816,285
Processing Gain(-) or Loss(+) ¹	-29	-7	-36	12	2	1	15

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	214,325	142,039	37,781	105,855	13,962	513,962	57,331	539,885	3,094,299
Reformulated	89,885	78,828	-	-	-	168,713	-	396,572	1,160,135
Reformulated Blended with Fuel Ethanol	89,885	78,828	-	-	-	168,713	-	396,572	1,160,135
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	124,440	63,211	37,781	105,855	13,962	345,249	57,331	143,313	1,934,164
Conventional Blended with Fuel Ethanol	126,993	13,679	37,559	115,109	14,436	307,776	74,329	163,031	1,993,881
Ed55 and Lower	126,769	13,679	37,559	114,944	14,434	307,385	74,177	162,900	1,991,298
Greater than Ed55	224	-	-	165	2	391	152	131	2,583
Conventional Other	-2,553	49,532	222	-9,254	-474	37,473	-16,998	-19,718	-59,717
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	0	7	117	-3	2	123	751	-168	-76
Kerosene	-	-32	25	-	-	-7	-	99	54
Distillate Fuel Oil	576	288	-250	587	171	1,372	-601	3,845	12,946
15 ppm sulfur and under	576	1,518	-143	587	171	2,709	-601	3,696	13,728
Greater than 15 ppm to 500 ppm sulfur	-	-887	-42	-	-	-929	-	-	942
Greater than 500 ppm sulfur	-	-343	-65	-	-	-408	-	149	-1,724
Residual Fuel Oil	-	436	292	-	-	728	-	70	534
Less than 0.31 percent sulfur	-	-11	143	-	-	132	-	70	-142
0.31 to 1.00 percent sulfur	-	-49	17	-	-	-32	-	-	4
Greater than 1.00 percent sulfur	-	496	132	-	-	628	-	-	672
Special Naphthas	-	-	-	-	-	-	-	-	-
Lubricants	-	-	-	-	-	-	-	-	-
Asphalt and Road Oil	-	-	317	-	-	317	-	-	1,299
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total Production	214,901	142,738	38,282	106,439	14,135	516,495	57,481	543,731	3,109,056
Processing Gain(-) or Loss(+) ¹	4	-31	3	2	-1	-23	6	10	-28

- = 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 22. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, 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
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 22. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, 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	23,972	16,965	1,114	338	44,371	2,664	21,995	90,379
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
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	83,424	68,604	5,667	1,819	172,403	14,642	73,882	345,417

-- = Not Applicable.

- = 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.

Note: Refer to Appendix A for Refining District descriptions.

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

Table 23. Percent Yield of Petroleum Products by PAD and Refining Districts, 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 ¹	3.6	0.4	3.3	3.8	1.5	1.3	2.9
Finished Motor Gasoline ²	48.2	38.1	47.2	52.3	48.7	50.9	51.5
Finished Aviation Gasoline ³	-	-	-	-	0.2	-	0.0
Kerosene-Type Jet Fuel	11.5	-	10.3	8.6	6.3	3.6	7.2
Kerosene	0.3	0.1	0.3	0.2	-	0.1	0.1
Distillate Fuel Oil ⁴	27.9	26.8	27.7	25.7	32.2	38.8	29.5
Residual Fuel Oil	3.9	0.2	3.6	1.4	1.3	0.4	1.2
Naphtha for Petro. Feed. Use	0.1	-	0.1	0.8	-	-	0.5
Other Oils for Petro. Feed. Use	-	-	-	0.4	-	0.1	0.3
Special Naphthas	-	0.7	0.1	-0.1	-	0.1	0.0
Lubricants	0.7	6.7	1.3	-	-	0.7	0.2
Waxes	-	0.3	0.0	-	-	0.1	0.0
Petroleum Coke	3.1	0.7	2.8	5.0	5.5	3.2	4.7
Asphalt and Road Oil	1.6	22.4	3.7	3.8	7.3	1.0	3.6
Still Gas	4.4	1.8	4.1	3.5	4.0	4.0	3.7
Miscellaneous Products	0.2	0.8	0.3	0.4	0.7	0.2	0.4
Processing Gain(-) or Loss(+) ⁵	-5.4	1.0	-4.8	-5.8	-7.7	-4.5	-5.8

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	3.8	4.6	4.8	0.3	1.0	4.4	1.5	1.7	3.5
Finished Motor Gasoline ²	52.3	43.4	42.4	26.3	51.8	43.4	47.8	47.8	46.2
Finished Aviation Gasoline ³	0.3	0.1	0.1	-	-	0.1	0.0	0.0	0.1
Kerosene-Type Jet Fuel	7.1	10.6	11.1	2.7	-	10.2	5.0	18.0	10.5
Kerosene	0.0	0.0	0.0	0.2	-	0.0	0.0	0.0	0.1
Distillate Fuel Oil ⁴	31.7	31.2	32.0	33.6	40.4	31.7	33.7	22.2	29.7
Residual Fuel Oil	1.6	1.0	2.6	-0.2	2.8	1.7	2.0	4.5	2.1
Naphtha for Petro. Feed. Use	0.6	2.6	1.4	0.0	-	1.9	-	0.0	1.1
Other Oils for Petro. Feed. Use	0.1	1.3	1.1	-	-	1.0	-	-	0.6
Special Naphthas	0.3	0.5	-	3.3	-	0.3	-	0.0	0.2
Lubricants	0.1	1.2	1.4	13.1	-	1.4	-	0.7	1.0
Waxes	-	0.0	0.0	0.3	-	0.0	-	-	0.0
Petroleum Coke	1.9	5.9	4.9	2.2	0.9	5.0	4.0	6.0	4.9
Asphalt and Road Oil	1.0	0.4	0.6	13.5	1.4	0.8	6.1	1.0	1.9
Still Gas	3.1	4.1	3.6	3.4	2.6	3.8	3.5	4.6	3.9
Miscellaneous Products	0.5	0.7	0.5	0.0	1.0	0.6	0.6	0.5	0.5
Processing Gain(-) or Loss(+) ⁵	-4.4	-7.4	-6.4	1.1	-1.5	-6.5	-4.2	-7.1	-6.2

- = No Data Reported.

¹ Excludes natural gasoline.

² 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.

³ Based on finished aviation gasoline net production minus net input of aviation gasoline blending components.

⁴ Based on distillate fuel oil net production minus input of biodiesel, "other" renewable diesel fuels, and "other" renewable fuels.

⁵ Represents the arithmetic difference between refinery input and production divided by input of crude oil, hydrogen, "other" hydrocarbons, and net input of unfinished oils.

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 18 and 19.

Table 24. Imports of Residual Fuel Oil by Sulfur Content and by PAD District and State of Entry, 2019
(Thousand Barrels)

PAD District and State of Entry	Residual Fuel Oil			
	Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
PAD District 1	996	5,650	19,695	26,341
Connecticut	-	-	-	-
Delaware	-	-	-	-
Florida	-	1,338	3,939	5,277
Georgia	-	-	508	508
Maine	-	-	-	-
Maryland	-	187	-	187
Massachusetts	-	-	-	-
New Hampshire	-	-	-	-
New Jersey	939	2,900	13,033	16,872
New York	57	863	1,482	2,402
North Carolina	-	-	-	-
Pennsylvania	-	343	604	947
Rhode Island	-	-	-	-
South Carolina	-	-	129	129
Vermont	-	19	-	19
Virginia	-	-	-	-
West Virginia	-	-	-	-
PAD District 2	-	285	807	1,092
Illinois	-	-	-	-
Indiana	-	-	-	-
Michigan	-	11	665	676
Minnesota	-	185	137	322
North Dakota	-	89	5	94
Ohio	-	-	-	-
Wisconsin	-	-	-	-
PAD District 3	2,480	2,221	15,931	20,632
Alabama	-	-	-	-
Louisiana	-	1,028	965	1,993
Mississippi	-	-	-	-
New Mexico	-	-	-	-
Texas	2,480	1,193	14,966	18,639
PAD District 4	-	-	97	97
Idaho	-	-	-	-
Montana	-	-	97	97
PAD District 5	338	2,476	3,323	6,137
Alaska	-	-	-	-
California	338	328	3,082	3,748
Hawaii	-	-	-	-
Oregon	-	-	241	241
Washington	-	2,148	-	2,148
U.S. Total	3,814	10,632	39,853	54,299

- = No Data Reported.

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

Table 25. Imports of Crude Oil and Petroleum Products by PAD District, 2019
(Thousand Barrels, Except Where Noted)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil^{1,2}	253,825	923,180	720,650	112,244	472,433	2,482,332	6,801
Hydrocarbon Gas Liquids	17,670	31,735	1,250	4,895	19,888	75,438	207
Natural Gas Liquids	14,466	28,376	30	4,895	19,888	67,655	185
Ethane	—	—	—	—	—	—	—
Propane	12,025	19,903	—	4,067	12,447	48,442	133
Normal Butane	705	6,454	—	595	6,883	14,637	40
Isobutane	1,736	1,959	30	233	558	4,516	12
Natural Gasoline	—	60	—	—	—	60	0
Refinery Olefins	3,204	3,359	1,220	—	—	7,783	21
Ethylene	—	—	—	—	—	—	—
Propylene	3,204	2,618	—	—	—	5,822	16
Butylene	—	711	1,220	—	—	1,931	5
Isobutylene	—	30	—	—	—	30	0
Other Liquids	236,532	4,415	203,691	1,532	60,277	506,447	1,388
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	1,978	1,034	343	222	11,332	14,909	41
Hydrogen	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—
Other Oxygenates ³	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	1,978	1,034	299	222	11,332	14,865	41
Fuel Ethanol	—	—	—	—	4,644	4,644	13
Biodiesel	1,978	1,034	299	222	545	4,078	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	—	31,928	235,582	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	—	27,467	145,707	399
Residuum	—	—	75,333	—	3,777	79,110	217
Motor Gasoline Blend.Comp. (MGBC)	211,995	3,066	22,568	1,310	17,017	255,956	701
Reformulated - RBOB	66,958	—	581	—	4,954	72,493	199
Conventional	145,037	3,066	21,987	1,310	12,063	183,463	503
CBOB	13,027	694	—	—	1,970	15,691	43
GTAB	32,782	—	907	—	607	34,296	94
Other	99,228	2,372	21,080	1,310	9,486	133,476	366
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	151,624	11,340	47,204	2,023	60,155	272,346	746
Finished Motor Gasoline	27,113	1	869	72	6,093	34,148	94
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	27,113	1	869	72	6,093	34,148	94
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	27,113	1	869	72	6,093	34,148	94
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	63,112	2,974	1,813	1,405	4,582	73,886	202
15 ppm sulfur and under	60,478	2,288	516	1,405	4,563	69,250	190
Bonded	—	—	—	—	—	—	—
Other	60,478	2,288	516	1,405	4,563	69,250	190
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	436	261	—	12	1,498	4
Bonded	—	—	—	—	—	—	—
Other	789	436	261	—	12	1,498	4
Greater than 2000 ppm	1,132	250	1,036	—	—	2,418	7
Bonded	—	—	—	—	—	—	—
Other	1,132	250	1,036	—	—	2,418	7
Residual Fuel Oil	26,341	1,092	20,632	97	6,137	54,299	149
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	19,695	807	15,931	97	3,323	39,853	109
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	222	58	5,963	—	210	6,453	18
Lubricants	2,826	1,448	11,685	1	376	16,336	45
Waxes	838	69	340	—	575	1,822	5
Petroleum Coke (Marketable)	28	321	1,652	—	311	2,312	6
Asphalt and Road Oil	10,783	3,544	155	418	1,100	16,000	44
Miscellaneous Products	—	—	—	12	—	12	0
Total	659,651	970,670	972,795	120,694	612,753	3,336,563	9,141

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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 26. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, 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	7,936	8,036
Algeria	7,012	-	-	20,527	-	-	-	-	-	-
Angola	12,060	-	-	768	-	-	-	-	819	819
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	2,673	2,773
United Arab Emirates	1,026	-	-	5,495	-	-	-	-	1,264	1,264
Venezuela	29,401	-	-	45	-	-	-	-	1,306	1,306
Non-OPEC	1,941,678	67,158	7,783	197,930	-	34,067	34,067	72,393	175,527	247,920
Argentina	11,079	254	-	358	-	-	-	-	840	840
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	398	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	16,663	-	1,026	1,026	1,697	6,087	7,784
Brazil	44,269	-	-	1,423	-	-	-	-	18,488	18,488
Brunei	11,857	-	-	-	-	-	-	-	-	-
Cameroon	3,374	-	-	793	-	-	-	-	-	-
Canada	1,392,124	65,670	6,563	7,125	-	6,739	6,739	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	-	-	-	2,075	23,638	25,713
Indonesia	-	-	-	-	-	-	-	-	566	566
Italy	-	-	-	4,242	-	166	166	88	5,145	5,233
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	218,769	-	225	2,222	-	-	-	-	1,835	1,835
Netherlands	486	-	-	3,973	-	4,046	4,046	11,629	17,002	28,631
Norway	17,236	309	-	5,142	-	1,964	1,964	739	7,375	8,114
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	265	265	837	8,871	9,708
Qatar	-	-	-	-	-	-	-	-	67	67
Russia	48,974	7	-	109,984	-	1,005	1,005	1,622	16,145	17,767
Spain	194	-	-	4,290	-	1,765	1,765	377	10,052	10,429
Sweden	-	450	-	1,904	-	313	313	35	893	928
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	16,921	-	-	-	-	-	-	-	350	350
United Kingdom	23,323	192	-	1,934	-	5,365	5,365	15,132	6,509	21,641
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	17,282	276	930	15,160	-	704	704	68	11,861	11,929
Total	2,482,332	67,655	7,783	235,582	-	34,148	34,148	72,493	183,463	255,956
Persian Gulf³	320,783	-	-	13,436	-	81	81	100	4,004	4,104

See footnotes at end of table.

Table 26. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, 2019
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biodiesel	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	--	--	4,644	4,078	6,143	--	67,251	720	1,498	2,262	71,731
Argentina	--	--	--	--	--	--	--	--	--	--	--
Aruba	--	--	--	--	--	--	--	--	--	--	--
Australia	--	--	--	--	--	--	--	--	--	--	--
Bahamas	--	--	--	--	--	--	501	--	--	396	897
Bahrain	--	--	--	--	0	--	--	--	--	--	--
Belgium	--	--	--	143	--	--	481	--	--	--	481
Brazil	--	--	4,644	--	--	--	--	--	--	--	--
Brunei	--	--	--	--	--	--	--	--	--	--	--
Cameroon	--	--	--	--	--	--	--	--	--	--	--
Canada	--	--	--	1,934	--	--	41,075	444	1,081	731	43,331
Chad	--	--	--	--	--	--	--	--	--	--	--
China	--	--	--	--	--	--	279	--	--	--	279
Colombia	--	--	--	--	--	--	8,831	--	--	288	9,119
Denmark	--	--	--	--	--	--	--	--	--	--	--
Egypt	--	--	--	--	--	--	--	--	--	--	--
Estonia	--	--	--	--	--	--	--	--	--	--	--
Finland	--	--	--	--	--	--	--	--	--	--	--
France	--	--	--	121	--	--	--	--	--	--	--
Germany	--	--	--	1,217	--	--	--	--	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	--	--	--	--	--	--	1,655	--	186	--	1,841
Norway	--	--	--	--	--	--	--	--	--	--	--
Oman	--	--	--	--	--	--	--	--	--	--	--
Portugal	--	--	--	--	--	--	--	--	--	--	--
Qatar	--	--	--	--	--	--	2,071	--	--	--	2,071
Russia	--	--	--	--	--	--	1,581	276	--	579	2,436
Spain	--	--	--	227	--	--	--	--	--	--	--
Sweden	--	--	--	--	--	--	--	--	--	--	--
Syria	--	--	--	--	--	--	--	--	--	--	--
Trinidad and Tobago	--	--	--	--	--	--	--	--	--	--	--
United Kingdom	--	--	--	--	--	--	253	--	--	--	253
Vietnam	--	--	--	--	--	--	--	--	--	--	--
Virgin Islands, U.S.	--	--	--	--	--	--	--	--	--	--	--
Yemen	--	--	--	--	--	--	--	--	--	--	--
Other	--	--	0	29	6,143	--	391	0	0	268	659
Total	--	--	4,644	4,078	6,143	--	69,250	720	1,498	2,418	73,886
Persian Gulf³	--	--	--	--	0	--	3,464	--	--	--	3,464

See footnotes at end of table.

Table 26. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, 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	4,451	5,127
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	—	—	—	2,488	2,488
Non-OPEC	703	347	—	57,586	6,416	3,814	9,956	35,402	49,172
Argentina	—	—	—	—	—	939	1,793	261	2,993
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	165	—	—	482	562	1,044
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	9	360	—	515	461	976
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	99	—	7,223	898	356	3,664	8,011	12,031
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	235	—	—	4	4
Indonesia	—	—	—	—	40	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	10	—	34,248	3,207	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	400	400
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	6	228	749	754	10,101	11,604
Netherlands	—	215	—	—	223	—	596	1,176	1,772
Norway	—	—	—	—	25	—	—	244	244
Oman	—	—	—	—	—	—	—	256	256
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	484	—	—	—	—	—
Russia	—	—	—	—	53	872	200	8,059	9,131
Spain	—	—	—	—	85	—	—	—	—
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	6,453	3,814	10,632	39,853	54,299
Persian Gulf³	—	—	—	2,357	37	—	—	1,349	1,349

See footnotes at end of table.

Table 26. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, 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	1,531	—	57,558	598,212	1,481	158	1,639
Algeria	—	—	—	—	—	410	—	21,488	28,500	19	59	78
Angola	—	—	—	—	—	—	—	1,961	14,021	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	—	—	—	—	—	—	11,113	193,556	500	30	530
United Arab Emirates	—	—	—	—	—	1,121	—	8,758	9,784	3	24	27
Venezuela	—	—	—	—	31	—	—	4,265	33,666	81	12	92
Non-OPEC	5,020	1,011	1,822	2,312	15,969	14,805	12	796,673	2,738,351	5,320	2,183	7,502
Argentina	—	20	—	1,018	—	25	—	5,508	16,587	30	15	45
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	398	398	—	1	1
Bahamas	—	—	—	—	—	—	—	2,106	2,106	—	6	6
Bahrain	—	—	—	—	—	810	—	810	810	—	2	2
Belgium	2	—	—	—	84	147	—	26,330	26,330	—	72	72
Brazil	—	9	—	188	—	—	—	26,097	70,366	121	71	193
Brunei	—	—	—	—	—	—	—	—	11,857	32	—	32
Cameroon	—	—	—	—	—	—	—	793	4,167	9	2	11
Canada	972	831	585	622	12,636	2,819	12	225,512	1,617,636	3,814	618	4,432
Chad	—	—	—	—	—	—	—	—	1,901	5	—	5
China	—	—	674	—	—	—	—	3,722	3,722	—	10	10
Colombia	—	—	—	—	240	—	—	20,198	136,260	318	55	373
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	—	—	224	—	4,646	4,646	—	13	13
Guatemala	—	—	—	—	—	—	—	—	2,498	7	—	7
India	—	—	—	—	—	1	—	37,643	37,643	—	103	103
Indonesia	—	—	2	—	—	980	—	1,900	1,900	—	5	5
Italy	56	—	47	—	53	231	—	10,030	10,030	—	27	27
Korea, South	14	—	7	—	130	4,647	—	48,663	48,663	—	133	133
Latvia	—	—	—	—	—	—	—	69	69	—	0	0
Lithuania	—	—	—	—	—	—	—	2,160	2,160	—	6	6
Malaysia	—	—	91	—	65	4	—	1,156	1,156	—	3	3
Mexico	2,376	—	—	—	—	—	—	18,621	237,390	599	51	650
Netherlands	—	—	—	—	—	100	—	40,825	41,311	1	112	113
Norway	—	—	—	—	—	—	—	15,798	33,034	47	43	91
Oman	—	—	—	411	—	—	—	667	667	—	2	2
Portugal	—	—	—	—	—	10	—	9,983	9,983	—	27	27
Qatar	—	—	—	—	—	3,778	—	6,400	6,400	—	18	18
Russia	—	—	—	—	—	429	—	140,812	189,786	134	386	520
Spain	—	—	9	—	1,491	—	—	18,296	18,490	1	50	51
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	—	30,048	53,371	64	82	146
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	1,264	3	316	22	1,270	65	0	55,745	73,027	51	156	203
Total	5,117	1,011	1,822	2,312	16,000	16,336	12	854,231	3,336,563	6,801	2,340	9,141
Persian Gulf³	97	—	—	—	—	5,709	—	30,634	351,417	879	84	963

-- = Not Applicable.

— = 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 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 27. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, 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	7,731	7,831
Algeria	7,012	-	-	1,201	-	-	-	-	-	-
Angola	672	-	-	-	-	-	-	-	819	819
Congo (Brazzaville)	11,074	-	-	-	-	-	-	-	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	2,673	2,773
United Arab Emirates	-	-	-	-	-	-	-	-	1,264	1,264
Venezuela	-	-	-	45	-	-	-	-	1,306	1,306
Non-OPEC	160,626	14,242	3,204	20,953	-	27,032	27,032	66,858	137,306	204,164
Argentina	-	-	-	358	-	-	-	-	52	52
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	939	939	1,074	4,497	5,571
Brazil	546	-	-	556	-	-	-	-	15,374	15,374
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	2,035	-	-	503	-	-	-	-	-	-
Canada	80,488	13,408	3,204	2,640	-	5,668	5,668	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	-	-	-	-	17,839	17,839
Indonesia	-	-	-	-	-	-	-	-	566	566
Italy	-	-	-	68	-	166	166	88	3,376	3,464
Korea, South	-	-	-	-	-	-	-	-	339	339
Latvia	-	-	-	-	-	-	-	-	69	69
Lithuania	-	-	-	-	-	-	-	-	1,416	1,416
Malaysia	-	-	-	-	-	-	-	-	52	52
Mexico	698	-	-	1,748	-	-	-	-	75	75
Netherlands	-	-	-	292	-	3,848	3,848	9,587	15,785	25,372
Norway	16,607	192	-	167	-	1,603	1,603	739	6,980	7,719
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	837	7,955	8,792
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	19,465	-	-	9,592	-	1,005	1,005	1,408	15,716	17,124
Spain	-	-	-	2,053	-	1,408	1,408	377	8,930	9,307
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	4,188	192	0	2,275	-	94	94	68	6,391	6,459
Total	253,825	14,466	3,204	22,559	-	27,113	27,113	66,958	145,037	211,995
Persian Gulf³	34,150	-	-	-	-	81	81	100	3,937	4,037

See footnotes at end of table.

Table 27. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, 2019
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biodiesel	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	--	--	--	1,978	--	--	58,772	713	789	1,132	61,406
Argentina	--	--	--	--	--	--	--	--	--	--	--
Aruba	--	--	--	--	--	--	--	--	--	--	--
Australia	--	--	--	--	--	--	--	--	--	--	--
Bahamas	--	--	--	--	--	--	501	--	--	--	501
Bahrain	--	--	--	--	--	--	--	--	--	--	--
Belgium	--	--	--	143	--	--	481	--	--	--	481
Brazil	--	--	--	--	--	--	--	--	--	--	--
Brunei	--	--	--	--	--	--	--	--	--	--	--
Cameroon	--	--	--	--	--	--	--	--	--	--	--
Canada	--	--	--	569	--	--	33,114	437	633	481	34,665
Chad	--	--	--	--	--	--	--	--	--	--	--
China	--	--	--	--	--	--	279	--	--	--	279
Colombia	--	--	--	--	--	--	8,831	--	--	288	9,119
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	--	--	--	--	--	--	1,655	--	156	--	1,811
Norway	--	--	--	--	--	--	--	--	--	--	--
Oman	--	--	--	--	--	--	--	--	--	--	--
Portugal	--	--	--	--	--	--	--	--	--	--	--
Qatar	--	--	--	--	--	--	2,071	--	--	--	2,071
Russia	--	--	--	--	--	--	1,581	276	--	95	1,952
Spain	--	--	--	57	--	--	--	--	--	--	--
Sweden	--	--	--	--	--	--	--	--	--	--	--
Syria	--	--	--	--	--	--	--	--	--	--	--
Trinidad and Tobago	--	--	--	--	--	--	--	--	--	--	--
United Kingdom	--	--	--	--	--	--	253	--	--	--	253
Vietnam	--	--	--	--	--	--	--	--	--	--	--
Virgin Islands, U.S.	--	--	--	--	--	--	--	--	--	--	--
Yemen	--	--	--	--	--	--	--	--	--	--	--
Other	--	--	--	0	--	--	391	0	0	268	659
Total	--	--	--	1,978	--	--	60,478	713	789	1,132	63,112
Persian Gulf³	--	--	--	--	--	--	3,464	--	--	--	3,464

See footnotes at end of table.

Table 27. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, 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	2,319	2,621
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	—	—	—	1,967	1,967
Non-OPEC	703	125	—	17,210	222	996	5,348	17,376	23,720
Argentina	—	—	—	—	—	939	1,572	—	2,511
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	482	562	1,044
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	9	15	—	239	187	426
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	13	—	7,169	8	57	1,216	5,549	6,822
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	345	—	—	—	—	—
Colombia	101	—	—	—	—	—	291	3,456	3,747
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	613	9	—	—	4	4
Indonesia	—	—	—	—	40	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	7,833	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	400	400
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	748	1,600	2,348
Netherlands	—	112	—	—	—	—	—	610	610
Norway	—	—	—	—	25	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	484	—	—	—	—	—
Russia	—	—	—	—	40	—	100	4,346	4,446
Spain	—	—	—	—	85	—	—	—	—
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	222	996	5,650	19,695	26,341
Persian Gulf³	—	—	—	2,339	—	—	—	20	20

See footnotes at end of table.

Table 27. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, 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	622	--	17,018	110,217	255	47	302
Algeria	--	--	--	--	--	410	--	2,162	9,174	19	6	25
Angola	--	--	--	--	--	--	--	819	1,491	2	2	4
Congo (Brazzaville)	--	--	--	--	--	--	--	276	11,626	30	2	32
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	--	--	--	--	--	--	--	4,665	38,815	94	13	106
United Arab Emirates	--	--	--	--	--	212	--	2,354	2,354	--	6	6
Venezuela	--	--	--	--	31	--	--	3,451	3,451	--	9	9
Non-OPEC	13	14	838	28	10,752	2,204	--	388,808	549,434	440	1,065	1,505
Argentina	--	--	--	--	--	14	--	2,935	2,935	--	8	8
Aruba	--	--	--	--	--	--	--	--	--	--	--	--
Australia	--	--	--	--	--	--	--	--	--	--	--	--
Bahamas	--	--	--	--	--	--	--	1,545	1,545	--	4	4
Bahrain	--	--	--	--	--	--	--	--	--	--	--	--
Belgium	2	--	--	--	84	86	--	7,306	7,306	--	20	20
Brazil	--	--	--	--	--	--	--	16,380	16,926	1	45	46
Brunei	--	--	--	--	--	--	--	--	--	--	--	--
Cameroon	--	--	--	--	--	--	--	503	2,538	6	1	7
Canada	--	14	532	7	7,769	1,302	--	134,110	214,598	221	367	588
Chad	--	--	--	--	--	--	--	--	--	--	--	--
China	--	--	154	--	--	--	--	778	778	--	2	2
Colombia	--	--	--	--	240	--	--	17,296	23,581	17	47	65
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	--	--	135	--	1,578	1,578	--	4	4
Guatemala	--	--	--	--	--	--	--	--	--	--	--	--
India	--	--	--	--	--	1	--	27,469	27,469	--	75	75
Indonesia	--	--	2	--	--	--	--	920	920	--	3	3
Italy	--	--	--	--	53	19	--	3,770	3,770	--	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	--	--	1	--	--	4	--	521	521	--	1	1
Mexico	--	--	--	--	--	--	--	4,171	4,869	2	11	13
Netherlands	--	--	--	--	--	8	--	32,053	32,053	--	88	88
Norway	--	--	--	--	--	--	--	9,706	26,313	45	27	72
Oman	--	--	--	--	--	--	--	--	--	--	--	--
Portugal	--	--	--	--	--	--	--	8,792	8,792	--	24	24
Qatar	--	--	--	--	--	1	--	2,556	2,556	--	7	7
Russia	--	--	--	--	--	244	--	34,403	53,868	53	94	148
Spain	--	--	8	--	1,491	--	--	14,409	14,603	1	39	40
Sweden	--	--	--	2	--	92	--	1,868	1,868	--	5	5
Syria	--	--	--	--	--	--	--	--	--	--	--	--
Trinidad and Tobago	--	--	--	--	--	--	--	--	--	--	--	--
United Kingdom	11	--	--	8	--	--	--	24,103	35,176	30	66	96
Vietnam	--	--	--	--	--	--	--	--	--	--	--	--
Virgin Islands, U.S.	--	--	--	--	--	--	--	--	--	--	--	--
Yemen	--	--	--	--	--	--	--	--	--	--	--	--
Other	0	0	92	11	1,115	4	--	12,879	16,597	12	38	48
Total	13	14	838	28	10,783	2,826	--	405,826	659,651	695	1,112	1,807
Persian Gulf³	--	--	--	--	--	213	--	10,154	44,304	94	28	121

-- = Not Applicable.

- = 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 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 28. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, 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	923,180	28,376	3,359	315	-	1	1	-	3,066	3,066
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	475	-	-	-	-	-	-	-	-	-
Brunei	417	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	921,325	28,376	3,359	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	-892	0	0	0	-	0	0	-	0	0
Total	923,180	28,376	3,359	315	-	1	1	-	3,066	3,066
Persian Gulf³	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 28. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, 2019
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biodiesel	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	--	--	--	1,034	--	--	2,288	--	436	250	2,974
Argentina	--	--	--	--	--	--	--	--	--	--	--
Aruba	--	--	--	--	--	--	--	--	--	--	--
Australia	--	--	--	--	--	--	--	--	--	--	--
Bahamas	--	--	--	--	--	--	--	--	--	--	--
Bahrain	--	--	--	--	--	--	--	--	--	--	--
Belgium	--	--	--	--	--	--	--	--	--	--	--
Brazil	--	--	--	--	--	--	--	--	--	--	--
Brunei	--	--	--	--	--	--	--	--	--	--	--
Cameroon	--	--	--	--	--	--	--	--	--	--	--
Canada	--	--	--	1,034	--	--	2,288	--	436	250	2,974
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	--	--	--	1,034	--	--	2,288	--	436	250	2,974
Persian Gulf³	--	--	--	--	--	--	--	--	--	--	--

See footnotes at end of table.

Table 28. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, 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	807	1,092
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	44	-	-	58	-	285	807	1,092
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	807	1,092
Persian Gulf³	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 28. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, 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	69	321	3,544	1,448	--	47,490	970,670	2,529	130	2,659
Argentina	--	--	--	--	--	--	--	--	--	--	--	--
Aruba	--	--	--	--	--	--	--	--	--	--	--	--
Australia	--	--	--	--	--	--	--	--	--	--	--	--
Bahamas	--	--	--	--	--	--	--	--	--	--	--	--
Bahrain	--	--	--	--	--	--	--	--	--	--	--	--
Belgium	--	--	--	--	--	2	--	2	2	--	0	0
Brazil	--	--	--	--	--	--	--	--	475	1	--	1
Brunei	--	--	--	--	--	--	--	--	417	1	--	1
Cameroon	--	--	--	--	--	--	--	--	--	--	--	--
Canada	972	817	53	304	3,544	1,439	--	47,448	968,773	2,524	130	2,654
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	-892	-2	0	-2
Total	972	817	69	321	3,544	1,448	--	47,490	970,670	2,529	130	2,659
Persian Gulf³	--	--	--	--	--	4	--	4	4	--	0	0

-- = Not Applicable.

-- = 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 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 29. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, 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)	–	–	–	346	–	–	–	–	–	–
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	543,811	30	1,220	153,620	–	869	869	581	21,782	22,363
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	188,209	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	203,480	–	225	474	–	–	–	–	1,760	1,760
Netherlands	486	–	–	3,681	–	–	–	–	1,076	1,076
Norway	629	–	–	4,614	–	–	–	–	322	322
Oman	–	–	–	–	–	–	–	–	–	–
Portugal	–	–	–	–	–	–	–	–	916	916
Qatar	–	–	–	–	–	–	–	–	67	67
Russia	11,747	–	–	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	9,392	–	0	0	0	2,028	2,028
Total	720,650	30	1,220	180,780	–	869	869	581	21,987	22,568
Persian Gulf³	127,832	–	–	13,348	–	–	–	–	67	67

See footnotes at end of table.

Table 29. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, 2019
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biodiesel	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	--	--	--	299	--	--	223	--	261	880	1,364
Argentina	--	--	--	--	--	--	--	--	--	--	--
Aruba	--	--	--	--	--	--	--	--	--	--	--
Australia	--	--	--	--	--	--	--	--	--	--	--
Bahamas	--	--	--	--	--	--	--	--	--	396	396
Bahrain	--	--	--	--	--	--	--	--	--	--	--
Belgium	--	--	--	--	--	--	--	--	--	--	--
Brazil	--	--	--	--	--	--	--	--	--	--	--
Brunei	--	--	--	--	--	--	--	--	--	--	--
Cameroon	--	--	--	--	--	--	--	--	--	--	--
Canada	--	--	--	--	--	--	223	--	--	--	223
Chad	--	--	--	--	--	--	--	--	--	--	--
China	--	--	--	--	--	--	--	--	--	--	--
Colombia	--	--	--	--	--	--	--	--	--	--	--
Denmark	--	--	--	--	--	--	--	--	--	--	--
Egypt	--	--	--	--	--	--	--	--	--	--	--
Estonia	--	--	--	--	--	--	--	--	--	--	--
Finland	--	--	--	--	--	--	--	--	--	--	--
France	--	--	--	--	--	--	--	--	--	--	--
Germany	--	--	--	129	--	--	--	--	106	--	106
Guatemala	--	--	--	--	--	--	--	--	--	--	--
India	--	--	--	--	--	--	--	--	--	--	--
Indonesia	--	--	--	--	--	--	--	--	--	--	--
Italy	--	--	--	--	--	--	--	--	--	--	--
Korea, South	--	--	--	--	--	--	--	--	--	--	--
Latvia	--	--	--	--	--	--	--	--	--	--	--
Lithuania	--	--	--	--	--	--	--	--	--	--	--
Malaysia	--	--	--	--	--	--	--	--	--	--	--
Mexico	--	--	--	--	--	--	--	--	125	--	125
Netherlands	--	--	--	--	--	--	--	--	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
Total	--	--	--	299	--	--	516	--	261	1,036	1,813
Persian Gulf³	--	--	--	--	--	--	--	--	--	--	--

See footnotes at end of table.

Table 29. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, 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	13,949	18,276
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	7,066	7,821
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	15,931	20,632
Persian Gulf³	—	—	—	18	37	—	—	1,329	1,329

See footnotes at end of table.

Table 29. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, 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	346	—	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	155	10,776	—	220,914	764,725	1,490	605	2,095
Argentina	—	20	—	1,018	—	11	—	2,058	6,363	12	6	17
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	396	396	—	1	1
Bahrain	—	—	—	—	—	810	—	810	810	—	2	2
Belgium	—	—	—	—	—	59	—	17,033	17,033	—	47	47
Brazil	—	9	—	188	—	—	—	4,989	29,914	68	14	82
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	290	1,629	4	1	4
Canada	—	—	—	—	—	—	—	5,215	193,424	516	14	530
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	—	—	86	—	2,735	2,735	—	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	—	—	—	—	4,335	—	7,859	7,859	—	22	22
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	344	344	—	1	1
Malaysia	—	—	88	—	—	—	—	88	88	—	0	0
Mexico	2,376	—	—	—	—	—	—	13,015	216,495	557	36	593
Netherlands	—	—	—	—	—	92	—	5,773	6,259	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	105,559	32	257	289
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	155	61	—	15,643	15,722	1	42	44
Total	3,759	180	340	1,652	155	11,685	—	252,145	972,795	1,974	691	2,665
Persian Gulf³	97	—	—	—	—	5,492	—	20,388	148,220	350	56	406

-- = Not Applicable.

— = 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 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 30. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, 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	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	112,244	4,895	-	-	-	72	72	-	1,310	1,310
Canada	112,244	4,895	-	-	-	72	72	-	1,310	1,310
Other	0	0	-	-	-	0	0	-	0	0
Total	112,244	4,895	-	-	-	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	-	-	-	-	-	-
Equatorial Guinea	3,920	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
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	201,817	19,615	-	23,042	-	6,093	6,093	4,954	12,063	17,017
Argentina	6,774	254	-	-	-	-	-	-	-	-
Australia	-	-	-	398	-	-	-	-	-	-
Brazil	18,798	-	-	84	-	-	-	-	-	-
Brunei	11,857	-	-	-	-	-	-	-	-	-
Canada	89,858	18,961	-	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	-	2,228	2,228
Korea, South	-	-	-	149	-	3,184	3,184	-	1,500	1,500
Malaysia	-	-	-	289	-	-	-	-	191	191
Mexico	12,736	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	198	198	2,042	141	2,183
Oman	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-
Peru	467	-	-	657	-	-	-	-	-	-
Singapore	-	-	-	641	-	-	-	-	431	431
Sweden	-	-	-	1,016	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	327	327
United Kingdom	-	-	-	349	-	94	94	-	1,682	1,682
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Other	28,013	400	-	16,559	-	1,009	1,009	2,912	3,682	6,594
Total	472,433	19,888	-	31,928	-	6,093	6,093	4,954	12,063	17,017
Persian Gulf³	158,801	-	-	88	-	-	-	-	-	-

See footnotes at end of table.

Table 30. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, 2019
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biodiesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
PAD District 4											
OPEC	--	--	--	--	--	--	--	--	--	--	--
Algeria	--	--	--	--	--	--	--	--	--	--	--
Angola	--	--	--	--	--	--	--	--	--	--	--
Congo (Brazzaville)	--	--	--	--	--	--	--	--	--	--	--
Ecuador	--	--	--	--	--	--	--	--	--	--	--
Equatorial Guinea	--	--	--	--	--	--	--	--	--	--	--
Gabon	--	--	--	--	--	--	--	--	--	--	--
Iran	--	--	--	--	--	--	--	--	--	--	--
Iraq	--	--	--	--	--	--	--	--	--	--	--
Kuwait	--	--	--	--	--	--	--	--	--	--	--
Libya	--	--	--	--	--	--	--	--	--	--	--
Nigeria	--	--	--	--	--	--	--	--	--	--	--
Saudi Arabia	--	--	--	--	--	--	--	--	--	--	--
United Arab Emirates	--	--	--	--	--	--	--	--	--	--	--
Venezuela	--	--	--	--	--	--	--	--	--	--	--
Non-OPEC	--	--	--	222	--	--	1,405	--	--	--	1,405
Canada	--	--	--	222	--	--	1,405	--	--	--	1,405
Other	--	--	--	0	--	--	0	--	--	--	0
Total	--	--	--	222	--	--	1,405	--	--	--	1,405
PAD District 5											
OPEC	--	--	--	--	--	--	--	--	--	--	--
Algeria	--	--	--	--	--	--	--	--	--	--	--
Angola	--	--	--	--	--	--	--	--	--	--	--
Congo (Brazzaville)	--	--	--	--	--	--	--	--	--	--	--
Ecuador	--	--	--	--	--	--	--	--	--	--	--
Equatorial Guinea	--	--	--	--	--	--	--	--	--	--	--
Gabon	--	--	--	--	--	--	--	--	--	--	--
Iran	--	--	--	--	--	--	--	--	--	--	--
Iraq	--	--	--	--	--	--	--	--	--	--	--
Kuwait	--	--	--	--	--	--	--	--	--	--	--
Libya	--	--	--	--	--	--	--	--	--	--	--
Nigeria	--	--	--	--	--	--	--	--	--	--	--
Saudi Arabia	--	--	--	--	--	--	--	--	--	--	--
United Arab Emirates	--	--	--	--	--	--	--	--	--	--	--
Venezuela	--	--	--	--	--	--	--	--	--	--	--
Non-OPEC	--	--	4,644	545	6,143	--	4,563	7	12	--	4,582
Argentina	--	--	--	--	--	--	--	--	--	--	--
Australia	--	--	--	--	--	--	--	--	--	--	--
Brazil	--	--	4,644	--	--	--	--	--	--	--	--
Brunei	--	--	--	--	--	--	--	--	--	--	--
Canada	--	--	--	109	--	--	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	--	--	--	--	--	--	--	--	--	--	--
Singapore	--	--	--	--	--	--	--	--	--	--	--
Sweden	--	--	--	--	--	--	--	--	--	--	--
Taiwan	--	--	--	--	--	--	--	--	--	--	--
United Kingdom	--	--	--	--	--	--	--	--	--	--	--
Virgin Islands, U.S.	--	--	--	--	--	--	--	--	--	--	--
Other	--	--	0	29	6,143	--	0	0	0	--	0
Total	--	--	4,644	545	6,143	--	4,563	7	12	--	4,582
Persian Gulf³	--	--	--	--	0	--	--	--	--	--	--

See footnotes at end of table.

Table 30. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, 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	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	18	-	-	-	-	-	97	97
Canada	-	18	-	-	-	-	-	97	97
Other	-	0	-	-	-	-	-	0	0
Total	-	18	-	-	-	-	-	97	97
PAD District 5									
OPEC	-	-	-	-	-	-	-	150	150
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	150	150
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	34	-	40,364	210	338	2,476	3,173	5,987
Argentina	-	-	-	-	-	-	-	261	261
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	-	-	-	-	210	-	328	80	408
Oman	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	656	656
Singapore	-	-	-	1,176	-	338	-	-	338
Sweden	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	190	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Other	-	0	-	4,810	0	0	0	193	193
Total	-	34	-	40,364	210	338	2,476	3,323	6,137
Persian Gulf³	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 30. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, 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	--	--	--	--	--	--	--	--	--	--	--	--
Equatorial Guinea	--	--	--	--	--	--	--	--	--	--	--	--
Gabon	--	--	--	--	--	--	--	--	--	--	--	--
Iran	--	--	--	--	--	--	--	--	--	--	--	--
Iraq	--	--	--	--	--	--	--	--	--	--	--	--
Kuwait	--	--	--	--	--	--	--	--	--	--	--	--
Libya	--	--	--	--	--	--	--	--	--	--	--	--
Nigeria	--	--	--	--	--	--	--	--	--	--	--	--
Saudi Arabia	--	--	--	--	--	--	--	--	--	--	--	--
United Arab Emirates	--	--	--	--	--	--	--	--	--	--	--	--
Venezuela	--	--	--	--	--	--	--	--	--	--	--	--
Non-OPEC	--	--	--	--	418	1	12	8,450	120,694	308	23	331
Canada	--	--	--	--	418	1	12	8,450	120,694	308	23	331
Other	--	--	--	--	0	0	0	0	0	0	0	0
Total	--	--	--	--	418	1	12	8,450	120,694	308	23	331
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
Equatorial Guinea	--	--	--	--	--	--	--	546	4,466	10	2	12
Gabon	--	--	--	--	--	--	--	--	--	--	--	--
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	--	575	311	1,100	376	--	131,011	332,828	553	359	912
Argentina	--	--	--	--	--	--	--	515	7,289	19	1	20
Australia	--	--	--	--	--	--	--	398	398	--	1	1
Brazil	--	--	--	--	--	--	--	4,728	23,526	52	13	64
Brunei	--	--	--	--	--	--	--	--	11,857	32	--	32
Canada	--	--	--	311	905	77	--	30,289	120,147	246	83	329
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	--	--	91	--	--	--	--	9,807	9,807	--	27	27
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	--	--	--	--	--	--	--	2,999	2,999	--	8	8
Oman	--	--	--	--	--	--	--	--	--	--	--	--
Papua New Guinea	--	--	--	--	--	--	--	--	--	--	--	--
Peru	--	--	--	--	--	--	--	1,313	1,780	1	4	5
Singapore	--	--	--	--	--	--	--	8,729	8,729	--	24	24
Sweden	--	--	--	--	--	--	--	1,016	1,016	--	3	3
Taiwan	373	--	24	--	--	--	--	914	914	--	3	3
United Kingdom	--	--	--	--	--	--	--	2,125	2,125	--	6	6
Virgin Islands, U.S.	--	--	--	--	--	--	--	--	--	--	--	--
Other	0	--	0	0	0	185	--	29,779	57,792	77	81	159
Total	373	--	575	311	1,100	376	--	140,320	612,753	1,294	384	1,679
Persian Gulf³	--	--	--	--	--	--	--	88	158,889	435	0	435

-- = Not Applicable.

- = 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 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 31. Exports of Crude Oil and Petroleum Products by PAD District, 2019
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil¹	3,560	62,972	1,015,067	0	6,745	1,088,345	2,982
Hydrocarbon Gas Liquids	73,965	95,227	479,891	2,074	16,799	667,957	1,830
Natural Gas Liquids	73,965	95,227	479,891	2,074	16,799	667,957	1,830
Ethane	14,762	33,768	52,561	0	1	101,093	277
Propane	44,439	1,450	344,438	5	10,339	400,670	1,098
Normal Butane	13,425	1,556	80,944	49	6,258	102,232	280
Isobutane	27	9	1,437	0	7	1,481	4
Natural Gasoline	1,312	58,445	511	2,019	194	62,481	171
Refinery Olefins	--	--	--	--	--	--	--
Ethylene	--	--	--	--	--	--	--
Propylene	--	--	--	--	--	--	--
Butylene	--	--	--	--	--	--	--
Isobutylene	--	--	--	--	--	--	--
Other Liquids	2,347	29,400	109,834	25	7,042	148,647	407
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	1,654	8,319	24,184	6	3,487	37,650	103
Hydrogen	--	--	--	--	--	--	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--
Methyl Tertiary Butyl Ether (MTBE)	--	--	--	--	--	--	--
Other Oxygenates	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol) ...	1,654	8,319	24,184	6	3,487	37,650	103
Fuel Ethanol	1,463	6,884	23,854	0	2,718	34,920	96
Biodiesel	191	1,435	330	6	769	2,730	7
Other Renewable Diesel	--	--	--	--	--	--	--
Other Renewable Fuels	--	--	--	--	--	--	--
Other Hydrocarbons	--	--	--	--	--	--	--
Unfinished Oils	321	19,418	57,732	19	1,739	79,228	217
Naphthas and Lighter	148	19,345	55,713	1	1,636	76,843	211
Kerosene and Light Gas Oils	173	73	2,019	17	103	2,385	7
Heavy Gas Oils	--	--	--	--	--	--	--
Residuum	--	--	--	--	--	--	--
Motor Gasoline Blend.Comp. (MGBC)	373	1,663	27,918	1	1,815	31,770	87
Reformulated	15	0	321	--	21	357	1
Conventional	358	1,663	27,597	1	1,794	31,413	86
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--
Finished Petroleum Products	50,763	15,564	995,411	278	125,105	1,187,120	3,252
Finished Motor Gasoline	5,675	2,124	275,166	10	14,330	297,306	815
Reformulated	--	--	--	--	--	--	--
Conventional	5,675	2,124	275,166	10	14,330	297,306	815
Finished Aviation Gasoline	--	--	--	--	--	--	--
Kerosene-Type Jet Fuel	7,475	606	62,799	--	9,521	80,401	220
Kerosene	886	8	786	--	56	1,735	5
Distillate Fuel Oil	12,475	3,147	415,072	53	45,910	476,657	1,306
15 ppm sulfur and under	8,045	20	341,137	0	30,721	379,924	1,041
Greater than 15 ppm to 500 ppm sulfur	3,160	1,332	33,683	53	6,437	44,665	122
Greater than 500 ppm sulfur	1,270	1,796	40,252	--	8,751	52,068	143
Residual Fuel Oil	12,278	1,707	58,867	88	10,599	83,539	229
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--
Lubricants	2,560	2,186	28,896	90	3,590	37,321	102
Waxes	718	406	296	2	65	1,486	4
Petroleum Coke	7,531	3,888	146,728	2	40,406	198,555	544
Asphalt and Road Oil	1,000	1,457	6,347	29	626	9,459	26
Miscellaneous Products	166	33	455	4	3	660	2
Total	130,636	203,163	2,600,203	2,377	155,691	3,092,070	8,471

-- = Not Applicable.
 - = No Data Reported.
 NA = Not Available.

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 32. Exports of Crude Oil and Petroleum Products by Destination, 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	--	2,733	--	1,358	1,358	--	0	0
Australia	15,106	4,066	--	8	--	3,395	3,395	5	--	5
Bahamas	--	1,098	--	1	--	1,223	1,223	1	1	2
Bahrain	--	--	--	0	--	3	3	--	0	0
Belgium	1,588	2,604	--	745	--	146	146	--	180	180
Belize	--	--	--	--	--	371	371	--	320	320
Brazil	17,570	16,253	--	11,492	--	20,183	20,183	--	3,958	3,958
Canada	174,736	99,841	--	19,677	--	10,273	10,273	--	8,854	8,854
Cayman Islands	--	80	--	--	--	477	477	1	0	1
Chile	12,980	10,092	--	99	--	2,623	2,623	--	--	--
China	49,997	7,111	--	276	--	15	15	0	--	0
Colombia	6,614	250	--	16,580	--	7,789	7,789	0	808	808
Costa Rica	--	2,011	--	318	--	5,599	5,599	--	--	--
Denmark	12,907	0	--	121	--	1	1	0	0	0
Dominican Republic	5,143	17,053	--	15	--	4,816	4,816	0	62	62
Ecuador	--	13,747	--	72	--	10,110	10,110	--	2,799	2,799
Egypt	--	6,957	--	0	--	--	--	--	1	1
El Salvador	--	3,189	--	5	--	4,370	4,370	0	0	1
Finland	--	150	--	0	--	1	1	--	--	--
France	32,166	7,742	--	239	--	2	2	--	0	0
Germany	9,682	112	--	78	--	2	2	0	0	0
Ghana	--	2,269	--	0	--	0	0	--	--	--
Gibraltar	--	2,832	--	--	--	0	0	--	--	--
Greece	5,020	0	--	--	--	0	0	--	--	--
Guatemala	--	4,406	--	38	--	13,374	13,374	0	1,597	1,597
Honduras	--	6,670	--	9	--	6,103	6,103	1	941	942
Hong Kong	--	552	--	1	--	--	--	--	1	1
India	92,969	36,565	--	54	--	0	0	1	--	1
Indonesia	1,322	23,921	--	19	--	--	--	--	--	--
Ireland	15,720	--	--	0	--	--	--	--	--	--
Israel	5,051	2	--	8	--	9	9	--	--	--
Italy	46,823	284	--	16	--	321	321	--	0	0
Jamaica	946	501	--	2	--	2,789	2,789	0	3	3
Japan	18,718	151,890	--	8,159	--	346	346	8	1	9
Korea, South	152,917	46,031	--	6,528	--	195	195	8	87	95
Lebanon	--	--	--	0	--	--	--	--	--	--
Mexico	0	55,109	--	2,874	--	174,471	174,471	317	10,923	11,240
Montenegro	--	--	--	--	--	--	--	--	--	--
Morocco	--	12,926	--	0	--	--	--	--	--	--
Mozambique	--	--	--	--	--	--	--	--	--	--
Netherlands	101,757	21,881	--	4,634	--	743	743	0	217	217
New Zealand	--	4	--	0	--	0	0	0	--	0
Nicaragua	4,000	0	--	1	--	1,656	1,656	--	--	--
Nigeria	--	2,608	--	155	--	1,289	1,289	--	--	--
Norway	8,701	11,558	--	427	--	1	1	--	--	--
Pakistan	--	--	--	--	--	0	0	--	--	--
Panama	11,755	552	--	5	--	8,211	8,211	0	147	147
Peru	10,215	2,328	--	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	28,321	5,884	--	147	--	135	135	0	0	0
South Africa	1,292	2,151	--	0	--	508	508	0	0	0
Spain	17,136	13,745	--	0	--	18	18	--	1	1
Switzerland	608	0	--	0	--	0	0	0	0	0
Taiwan	61,547	14,797	--	1,381	--	4	4	--	0	0
Thailand	39,930	0	--	9	--	--	--	--	--	--
Trinidad and Tobago	--	130	--	1	--	3,254	3,254	--	240	240
Turkey	--	8,561	--	0	--	2	2	1	--	1
United Arab Emirates	14,009	1	--	3	--	34	34	0	--	0
United Kingdom	89,042	15,960	--	3	--	11	11	0	0	0
Venezuela	--	272	--	906	--	1,196	1,196	7	2	10
Other	21,764	23,847	--	1,318	--	3,766	3,766	7	11	16
Total	1,088,345	667,957	--	79,228	--	297,306	297,306	357	31,413	31,770

See footnotes at end of table.

Table 32. Exports of Crude Oil and Petroleum Products by Destination, 2019
(Thousand Barrels) — Continued

Destination	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biodiesel	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	--	--	11,068	310	386	--	11,764
Australia	--	--	89	--	--	--	4	--	0	--	4
Bahamas	--	--	1	--	--	--	7,625	270	3,603	--	11,498
Bahrain	--	--	0	--	--	--	--	--	--	--	--
Belgium	--	--	1	0	--	--	603	--	288	--	891
Belize	--	--	0	--	--	--	251	498	78	--	826
Brazil	--	--	7,914	0	--	--	65,724	2,784	4,195	--	72,703
Canada	--	--	7,883	2,440	--	--	1,046	4,963	2,164	--	8,173
Cayman Islands	--	--	--	0	--	--	991	--	--	--	991
Chile	--	--	13	--	--	--	35,275	608	462	--	36,345
China	--	--	2	--	--	--	14	299	--	--	313
Colombia	--	--	1,981	0	--	--	13,431	325	--	--	13,756
Costa Rica	--	--	3	--	--	--	7,745	--	1	--	7,745
Denmark	--	--	--	--	--	--	414	--	--	--	414
Dominican Republic	--	--	14	--	--	--	4,387	1,115	5,205	--	10,706
Ecuador	--	--	0	--	--	--	5,435	4,189	2,189	--	11,813
Egypt	--	--	0	--	--	--	193	--	--	--	193
El Salvador	--	--	--	--	--	--	1,945	3,816	--	--	5,761
Finland	--	--	223	--	--	--	58	--	--	--	58
France	--	--	126	--	--	--	8,554	902	1	--	9,457
Germany	--	--	0	7	--	--	1	--	--	--	1
Ghana	--	--	--	--	--	--	2	--	--	--	2
Gibraltar	--	--	--	--	--	--	3,389	499	5,082	--	8,970
Greece	--	--	0	--	--	--	--	--	--	--	--
Guatemala	--	--	1	--	--	--	7,494	5,849	954	--	14,297
Honduras	--	--	260	--	--	--	1,086	3,529	1,418	--	6,034
Hong Kong	--	--	0	0	--	--	246	--	--	--	246
India	--	--	4,139	1	--	--	33	--	--	--	33
Indonesia	--	--	0	--	--	--	--	--	--	--	--
Ireland	--	--	0	--	--	--	254	--	--	--	254
Israel	--	--	2	--	--	--	180	--	--	--	180
Italy	--	--	2	--	--	--	1,138	--	--	--	1,138
Jamaica	--	--	512	--	--	--	1,656	0	860	--	2,516
Japan	--	--	123	0	--	--	88	24	--	--	112
Korea, South	--	--	2,888	0	--	--	27	--	0	--	27
Lebanon	--	--	0	--	--	--	1,142	--	--	--	1,142
Mexico	--	--	748	14	--	--	102,354	1,195	774	--	104,322
Montenegro	--	--	--	--	--	--	--	--	--	--	--
Morocco	--	--	--	10	--	--	8,582	77	--	--	8,660
Mozambique	--	--	--	--	--	--	--	--	--	--	--
Netherlands	--	--	1,232	152	--	--	13,994	2,055	3,472	--	19,521
New Zealand	--	--	0	0	--	--	0	--	--	--	0
Nicaragua	--	--	0	--	--	--	325	1,622	210	--	2,157
Nigeria	--	--	523	--	--	--	0	--	--	--	0
Norway	--	--	124	--	--	--	501	--	--	--	501
Pakistan	--	--	0	--	--	--	0	--	--	--	0
Panama	--	--	0	--	--	--	14,376	2,323	5,866	--	22,564
Peru	--	--	1,132	96	--	--	25,141	--	--	--	25,141
Philippines	--	--	1,574	--	--	--	0	--	--	--	0
Portugal	--	--	--	--	--	--	--	--	--	--	--
Puerto Rico	--	--	161	--	--	--	10	72	--	--	82
Romania	--	--	--	--	--	--	320	--	--	--	320
Saudi Arabia	--	--	348	--	--	--	3	--	--	--	3
Serbia (Excludes Kosovo) ..	--	--	--	--	--	--	--	--	--	--	--
Singapore	--	--	110	3	--	--	712	199	3,092	--	4,003
South Africa	--	--	0	--	--	--	1	--	--	--	1
Spain	--	--	270	--	--	--	7,596	703	1,624	--	9,923
Switzerland	--	--	32	6	--	--	674	--	0	--	674
Taiwan	--	--	4	--	--	--	3	9	--	--	12
Thailand	--	--	0	--	--	--	--	--	--	--	--
Trinidad and Tobago	--	--	0	--	--	--	1,391	1,983	2,542	--	5,915
Turkey	--	--	69	--	--	--	2	--	--	--	2
United Arab Emirates	--	--	691	--	--	--	2	1	4	--	7
United Kingdom	--	--	659	--	--	--	10,096	327	--	--	10,423
Venezuela	--	--	--	--	--	--	279	264	285	--	827
Other	--	--	1,065	1	--	--	12,063	3,855	7,313	--	23,236
Total	--	--	34,920	2,730	--	--	379,924	44,665	52,068	--	476,657

See footnotes at end of table.

Table 32. Exports of Crude Oil and Petroleum Products by Destination, 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	—	—	—	1,131	—	0	—	—
Australia	—	—	—	—	—	1	—	—
Bahamas	0	—	—	899	—	4,134	—	—
Bahrain	—	—	—	0	—	—	—	—
Belgium	—	—	—	—	—	0	—	—
Belize	—	—	—	134	—	0	—	—
Brazil	0	—	—	2,997	—	933	—	—
Canada	1,461	—	—	19,039	—	9,596	—	—
Cayman Islands	2	—	—	361	—	2	—	—
Chile	7	—	—	2,713	—	1	—	—
China	1	—	—	0	—	8	—	—
Colombia	1	—	—	462	—	1	—	—
Costa Rica	17	—	—	2,088	—	2	—	—
Denmark	—	—	—	99	—	—	—	—
Dominican Republic	1	—	—	2,478	—	812	—	—
Ecuador	2	—	—	9	—	3,632	—	—
Egypt	0	—	—	—	—	0	—	—
El Salvador	1	—	—	408	—	0	—	—
Finland	—	—	—	453	—	0	—	—
France	0	—	—	—	—	—	—	—
Germany	—	—	—	—	—	0	—	—
Ghana	—	—	—	—	—	345	—	—
Gibraltar	—	—	—	210	—	2,728	—	—
Greece	—	—	—	—	—	—	—	—
Guatemala	11	—	—	1,972	—	573	—	—
Honduras	12	—	—	564	—	2,474	—	—
Hong Kong	0	—	—	—	—	—	—	—
India	0	—	—	1	—	66	—	—
Indonesia	—	—	—	—	—	—	—	—
Ireland	—	—	—	—	—	—	—	—
Israel	1	—	—	1,667	—	154	—	—
Italy	—	—	—	0	—	—	—	—
Jamaica	0	—	—	1,144	—	5,047	—	—
Japan	1	—	—	0	—	65	—	—
Korea, South	0	—	—	3	—	232	—	—
Lebanon	—	—	—	0	—	4,304	—	—
Mexico	191	—	—	20,638	—	17,208	—	—
Montenegro	—	—	—	—	—	—	—	—
Morocco	—	—	—	329	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—
Netherlands	0	—	—	1,589	—	8,390	—	—
New Zealand	0	—	—	—	—	0	—	—
Nicaragua	1	—	—	32	—	93	—	—
Nigeria	0	—	—	—	—	—	—	—
Norway	—	—	—	293	—	—	—	—
Pakistan	0	—	—	—	—	—	—	—
Panama	1	—	—	5,679	—	8,448	—	—
Peru	1	—	—	1,793	—	1	—	—
Philippines	—	—	—	0	—	—	—	—
Portugal	—	—	—	—	—	—	—	—
Puerto Rico	0	—	—	1	—	1	—	—
Romania	—	—	—	—	—	—	—	—
Saudi Arabia	0	—	—	0	—	1	—	—
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—
Singapore	1	—	—	307	—	6,767	—	—
South Africa	—	—	—	318	—	0	—	—
Spain	—	—	—	—	—	130	—	—
Switzerland	—	—	—	—	—	—	—	—
Taiwan	0	—	—	0	—	1	—	—
Thailand	—	—	—	—	—	0	—	—
Trinidad and Tobago	0	—	—	1,833	—	—	—	—
Turkey	2	—	—	4	—	—	—	—
United Arab Emirates	3	—	—	0	—	1,052	—	—
United Kingdom	0	—	—	2,878	—	1,938	—	—
Venezuela	0	—	—	18	—	1	—	—
Other	17	—	—	5,857	—	4,398	—	—
Total	1,735	—	—	80,401	—	83,539	—	—

See footnotes at end of table.

Table 32. Exports of Crude Oil and Petroleum Products by Destination, 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	363	0	17,791	17,804	0	49	49
Australia	7	2,622	81	234	4	10,515	25,621	41	29	70
Bahamas	0	—	34	35	0	18,925	18,925	—	52	52
Bahrain	0	—	—	4	—	7	7	—	0	0
Belgium	0	3,416	1	4,957	12	12,954	14,541	4	35	40
Belize	—	—	—	13	0	1,664	1,664	—	5	5
Brazil	8	15,445	0	3,510	8	155,403	172,974	48	426	474
Canada	1,048	9,439	2,386	3,017	87	203,215	377,951	479	557	1,035
Cayman Islands	—	—	8	12	—	1,935	1,935	—	5	5
Chile	5	2	605	880	1	53,386	66,366	36	146	182
China	25	13,535	11	199	10	21,506	71,503	137	59	196
Colombia	2	239	4	1,119	4	42,996	49,610	18	118	136
Costa Rica	2	242	327	170	0	18,524	18,524	—	51	51
Denmark	0	1,178	—	0	—	1,814	14,721	35	5	40
Dominican Republic	3	2,269	1,230	240	1	39,700	44,842	14	109	123
Ecuador	0	1,684	1	657	0	44,527	44,527	—	122	122
Egypt	—	1,555	286	94	—	9,087	9,087	—	25	25
El Salvador	0	329	0	268	—	14,331	14,331	—	39	39
Finland	0	293	0	8	—	1,186	1,186	—	3	3
France	2	2,930	—	601	—	21,101	53,267	88	58	146
Germany	30	474	9	30	2	744	10,426	27	2	29
Ghana	0	—	0	3	—	2,619	2,619	—	7	7
Gibraltar	—	—	—	0	—	14,530	14,530	—	40	40
Greece	—	2,804	0	3	—	2,808	7,829	14	8	21
Guatemala	1	3,270	0	215	—	39,755	39,755	—	109	109
Honduras	0	2,659	241	146	0	25,853	25,853	—	71	71
Hong Kong	2	—	0	17	2	821	821	—	2	2
India	15	33,293	7	861	2	75,037	168,006	255	206	460
Indonesia	1	1	12	14	1	23,968	25,291	4	66	69
Ireland	0	1,645	—	1	1	1,901	17,621	43	5	48
Israel	0	1,242	0	131	0	3,396	8,447	14	9	23
Italy	2	6,191	1	32	0	7,987	54,809	128	22	150
Jamaica	0	0	1	446	1	12,962	13,908	3	36	38
Japan	38	22,843	10	141	42	183,778	202,496	51	504	555
Korea, South	3	2,509	7	89	3	58,609	211,526	419	161	580
Lebanon	—	870	0	7	—	6,323	6,323	—	17	17
Mexico	214	18,941	3,481	12,660	453	422,565	422,565	0	1,158	1,158
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	4,366	1	1	—	26,293	26,293	—	72	72
Mozambique	—	916	—	—	—	916	916	—	3	3
Netherlands	38	3,719	17	589	5	62,727	164,484	279	172	451
New Zealand	1	567	3	10	—	584	584	—	2	2
Nicaragua	—	—	—	51	—	3,992	7,991	11	11	22
Nigeria	0	199	33	1,017	—	5,825	5,825	—	16	16
Norway	0	1,208	—	4	—	14,116	22,817	24	39	63
Pakistan	1	591	1	2	0	595	595	—	2	2
Panama	0	520	307	480	0	46,915	58,670	32	129	161
Peru	1	526	0	776	1	38,177	48,392	28	105	133
Philippines	1	303	0	19	2	3,488	3,768	1	10	10
Portugal	0	1,003	—	0	—	6,660	6,660	—	18	18
Puerto Rico	0	0	30	143	0	581	581	—	2	2
Romania	0	2,098	—	2	0	2,419	2,419	—	7	7
Saudi Arabia	1	429	1	92	0	892	892	—	2	2
Serbia (Excludes Kosovo) ..	—	—	0	—	—	0	0	—	0	0
Singapore	1	0	151	178	0	17,689	46,010	78	48	126
South Africa	1	858	1	619	—	4,456	5,748	4	12	16
Spain	3	4,961	0	72	0	29,124	46,260	47	80	127
Switzerland	0	—	—	1	—	714	1,322	2	2	4
Taiwan	12	0	3	71	1	16,286	77,833	169	45	213
Thailand	1	420	4	35	2	471	40,401	109	1	111
Trinidad and Tobago	0	0	0	83	0	11,457	11,457	—	31	31
Turkey	0	10,955	0	152	—	19,747	19,747	—	54	54
United Arab Emirates	0	1,627	6	706	0	4,131	18,140	38	11	50
United Kingdom	3	1,537	2	25	1	33,441	122,482	244	92	336
Venezuela	0	30	—	63	0	3,323	3,323	—	9	9
Other	9	9,372	154	953	14	74,482	96,249	58	199	260
Total	1,486	198,555	9,459	37,321	660	2,003,724	3,092,070	2,982	5,490	8,471

-- = Not Applicable.

- = 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 33. Net Imports of Crude Oil and Petroleum Products into the United States by Country, 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	-44	-	100	-	-34	-34	0	14	14
Algeria	19	-	-	56	-	-	-	-	-	-
Angola	33	-	-	2	-	-	-	-	2	2
Congo (Brazzaville)	15	-	-	0	-	-	-	-	-	-
Ecuador	199	-38	-	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	-	-4	-4	-	5	5
Saudi Arabia	500	0	-	15	-	0	0	0	7	8
United Arab Emirates	-36	0	-	15	-	0	0	0	3	3
Venezuela	81	-1	-	-2	-	-3	-3	0	4	4
Non-OPEC	2,376	-1,600	21	328	-	-687	-687	197	403	600
Argentina	30	1	-	-7	-	-4	-4	-	2	2
Aruba	-	0	-	0	-	-1	-1	-	-	-
Australia	-41	-11	-	1	-	-9	-9	0	-	0
Bahamas	-	-3	-	0	-	-3	-3	0	0	0
Bahrain	-	-	-	0	-	0	0	-	0	0
Belgium	-4	-7	-	44	-	2	2	5	16	21
Brazil	73	-45	-	-28	-	-55	-55	-	40	40
Brunei	32	-	-	-1	-	-	-	-	-	-
Cameroon	9	-	-	2	-	-	-	-	-	-
Canada	3,335	-94	18	-34	-	-10	-10	99	28	128
Chad	5	-	-	-	-	-	-	-	0	0
China	-137	-19	-	-1	-	0	0	0	1	1
Colombia	300	-1	-	-44	-	-21	-21	0	11	11
Denmark	-22	0	-	1	-	0	0	0	1	1
Dominican Republic	-14	-46	-	0	-	-13	-13	0	0	0
Estonia	-	-	-	-	-	0	0	-	0	0
Finland	-	0	-	1	-	2	2	0	22	23
France	-88	-21	0	3	-	18	18	5	3	8
Germany	-27	0	-	6	-	0	0	0	2	2
Guatemala	7	-12	-	0	-	-37	-37	0	-4	-4
Honduras	-	-18	-	0	-	-17	-17	0	-3	-3
India	-255	-100	-	6	-	0	0	6	65	70
Indonesia	-4	-66	-	0	-	-	-	-	2	2
Italy	-128	-1	-	12	-	0	0	0	14	14
Japan	-51	-416	-	-19	-	1	1	0	8	8
Korea, South	-419	-126	-	-17	-	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	599	-151	1	-2	-	-478	-478	-1	-25	-26
Netherlands	-277	-60	-	-2	-	9	9	32	46	78
Norway	23	-31	-	13	-	5	5	2	20	22
Oman	-	-	-	-2	-	-	-	-	0	0
Panama	-32	-2	-	0	-	-22	-22	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	134	0	-	301	-	3	3	4	44	49
Spain	-46	-38	-	12	-	5	5	1	28	29
Sweden	-5	-19	-	5	-	1	1	0	2	3
Trinidad and Tobago	46	0	-	0	-	-9	-9	-	0	0
United Kingdom	-180	-43	-	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	-469	-245	2	72	-	-77	-77	1	26	23
Total	3,819	-1,645	21	428	-	-721	-721	198	417	614
Persian Gulf²	840	0	-	37	-	0	0	0	11	11

See footnotes at end of table.

Table 33. Net Imports of Crude Oil and Petroleum Products into the United States by Country, 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	Biodiesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	--	--	-4	--	--	--	-12	-14	-8	0	-34
Algeria	--	--	0	--	--	--	-1	-2	-2	--	-5
Angola	--	--	0	--	--	--	--	--	--	--	--
Congo (Brazzaville)	--	--	--	--	--	--	--	--	--	--	--
Ecuador	--	--	0	--	--	--	-15	-11	-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	--	--	-1	--	--	--	3	--	--	--	3
United Arab Emirates	--	--	-2	--	--	--	1	0	0	--	1
Venezuela	--	--	--	--	--	--	0	-1	-1	--	-1
Non-OPEC	--	--	-79	4	17	--	-840	-106	-130	6	-1,070
Argentina	--	--	0	0	--	--	-30	-1	-1	--	-32
Aruba	--	--	0	--	--	--	-1	--	--	--	-1
Australia	--	--	0	--	--	--	0	--	0	--	0
Bahamas	--	--	0	--	--	--	-20	-1	-10	1	-29
Bahrain	--	--	0	--	0	--	--	--	--	--	--
Belgium	--	--	0	0	--	--	0	--	-1	--	-1
Brazil	--	--	-9	0	--	--	-180	-8	-11	--	-199
Brunei	--	--	--	--	--	--	0	--	--	--	0
Cameroon	--	--	0	--	--	--	0	--	--	--	0
Canada	--	--	-22	-1	--	--	110	-12	-3	2	96
Chad	--	--	--	--	--	--	--	--	--	--	--
China	--	--	0	--	--	--	1	-1	--	--	0
Colombia	--	--	-5	0	--	--	-13	-1	--	1	-13
Denmark	--	--	--	--	--	--	-1	--	--	--	-1
Dominican Republic	--	--	0	--	--	--	-12	-3	-14	--	-29
Estonia	--	--	--	--	--	--	--	--	--	--	--
Finland	--	--	-1	--	--	--	0	--	--	--	0
France	--	--	0	0	--	--	-23	-2	0	--	-26
Germany	--	--	0	3	--	--	0	--	0	--	0
Guatemala	--	--	0	--	--	--	-21	-16	-3	--	-39
Honduras	--	--	-1	--	--	--	-3	-10	-4	--	-17
India	--	--	-11	0	--	--	24	--	--	--	24
Indonesia	--	--	0	--	--	--	1	--	--	--	1
Italy	--	--	0	--	--	--	-3	--	--	--	-3
Japan	--	--	0	0	--	--	1	0	--	--	0
Korea, South	--	--	-8	1	--	--	1	--	0	--	1
Latvia	--	--	0	--	--	--	0	--	--	--	0
Lithuania	--	--	--	--	--	--	--	--	--	--	--
Malaysia	--	--	0	--	--	--	1	--	-2	--	-1
Mexico	--	--	-2	0	--	--	-280	-3	-2	--	-285
Netherlands	--	--	-3	0	--	--	-34	-6	-9	--	-48
Norway	--	--	0	--	--	--	-1	--	--	--	-1
Oman	--	--	-2	--	--	--	0	--	--	--	0
Panama	--	--	0	--	--	--	-39	-6	-16	--	-62
Portugal	--	--	--	--	--	--	--	--	--	--	--
Puerto Rico	--	--	0	--	--	--	0	0	--	--	0
Qatar	--	--	0	--	--	--	6	--	--	--	6
Russia	--	--	0	--	--	--	4	1	--	2	7
Spain	--	--	-1	1	--	--	-21	-2	-4	--	-27
Sweden	--	--	0	--	--	--	0	--	--	--	0
Trinidad and Tobago	--	--	0	--	--	--	-4	-5	-7	--	-16
United Kingdom	--	--	-2	--	--	--	-27	-1	--	--	-28
Vietnam	--	--	0	--	--	--	0	--	--	--	0
Virgin Islands, U.S.	--	--	0	--	--	--	-3	0	-5	--	-8
Yemen	--	--	--	--	--	--	--	--	--	--	--
Other	--	--	-12	0	17	--	-273	-29	-38	0	-339
Total	--	--	-83	4	17	--	-851	-120	-139	7	-1,103
Persian Gulf²	--	--	-3	--	0	--	9	0	0	--	9

See footnotes at end of table.

Table 33. Net Imports of Crude Oil and Petroleum Products into the United States by Country, 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	-	-	0	-	7	-	-
Non-OPEC	-3	1	-	-62	18	-81	14	3
Argentina	-	-	-	-3	-	8	-	0
Aruba	0	-	-	-2	-	-	-	-
Australia	-	-	-	-	-	0	-	-
Bahamas	0	-	-	-2	-	-8	-	-
Bahrain	-	-	-	0	-	-	-	-
Belgium	-	-	-	-	-	0	0	-
Brazil	0	-	-	-8	1	0	-	0
Brunei	-	-	-	-	-	-	-	-
Cameroon	-	-	-	0	-	-	-	-
Canada	-4	0	-	-32	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	-	-	-5	-	-2	-	-
Honduras	0	-	-	-2	-	-7	-	-
India	0	-	-	2	1	0	-	-
Indonesia	-	-	-	-	0	-	-	-
Italy	-	-	-	0	-	-	0	-
Japan	2	-	-	18	3	0	2	0
Korea, South	0	0	-	94	9	-1	0	-
Latvia	0	-	-	0	-	-	-	-
Lithuania	0	-	-	-	-	1	-	-
Malaysia	0	-	-	-	-	-3	-	-
Mexico	-1	-	-	-57	1	-15	7	-
Netherlands	0	1	-	-4	1	-18	-	-
Norway	-	-	-	-1	0	1	-	-
Oman	-	-	-	-	-	1	-	-
Panama	0	-	-	-11	-	-23	-	-
Portugal	-	-	-	-	-	-	-	-
Puerto Rico	0	-	-	0	-	0	-	-
Qatar	0	-	-	1	-	-	-	-
Russia	0	-	-	0	0	25	-	-
Spain	-	-	-	-	0	0	-	-
Sweden	-	-	-	0	-	1	-	-
Trinidad and Tobago	0	-	-	-5	-	-	-	-
United Kingdom	0	-	-	-8	-	-5	1	-
Vietnam	0	-	-	0	-	0	-	-
Virgin Islands, U.S.	0	-	-	-5	-	-6	-	-
Yemen	-	-	-	-	-	-	-	-
Other	0	0	-	-29	0	-49	1	1
Total	-3	1	-	-56	18	-80	14	3
Persian Gulf²	0	-	-	6	0	1	0	-

See footnotes at end of table.

Table 33. Net Imports of Crude Oil and Petroleum Products into the United States by Country, 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	-8	1,434
Algeria	0	-	0	1	-	54	73
Angola	-	-	0	0	-	5	38
Congo (Brazzaville)	-	-	-	-	-	1	16
Ecuador	0	-5	0	-2	0	-116	82
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	-	-9	177
Saudi Arabia	0	-1	0	0	0	28	528
United Arab Emirates	0	-4	0	1	0	13	-23
Venezuela	0	0	0	0	0	3	83
Non-OPEC	1	-527	18	-55	-2	-3,141	-765
Argentina	0	2	0	-1	0	-34	-3
Aruba	-	-	0	0	-	-5	-5
Australia	0	-7	0	-1	0	-28	-69
Bahamas	0	-	0	0	0	-46	-46
Bahrain	0	-	-	2	-	2	2
Belgium	0	-9	0	-13	0	37	32
Brazil	0	-42	0	-10	0	-354	-281
Brunei	-	-	-	0	-	-1	32
Cameroon	-	-	-	0	-	2	11
Canada	-1	-24	28	-1	0	61	3,396
Chad	-	-	-	0	-	0	5
China	2	-37	0	-1	0	-49	-186
Colombia	0	-1	1	-3	0	-62	237
Denmark	0	-3	-	0	-	-2	-24
Dominican Republic	0	-6	-3	-1	0	-108	-122
Estonia	-	-	-	0	-	0	0
Finland	0	-1	0	0	-	23	23
France	0	-8	-	-1	-	-26	-115
Germany	0	-1	0	1	0	11	-16
Guatemala	0	-9	0	-1	-	-109	-102
Honduras	0	-7	-1	0	0	-71	-71
India	0	-91	0	-2	0	-102	-357
Indonesia	0	0	0	3	0	-60	-64
Italy	0	-17	0	1	0	6	-123
Japan	0	-63	0	0	0	-466	-518
Korea, South	0	-7	0	12	0	-27	-446
Latvia	-	-	-	0	0	0	0
Lithuania	0	0	-	0	-	6	4
Malaysia	0	-2	0	0	0	-4	-9
Mexico	-1	-52	-10	-35	-1	-1,107	-507
Netherlands	0	-10	0	-1	0	-60	-337
Norway	0	-3	-	0	-	5	28
Oman	-	0	0	0	-	-3	-3
Panama	0	-1	-1	-1	0	-124	-156
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	-	386	520
Spain	0	-14	4	0	0	-30	-76
Sweden	0	-1	-	0	0	-11	-16
Trinidad and Tobago	0	0	0	0	0	-30	16
United Kingdom	0	-4	0	1	0	-9	-189
Vietnam	0	0	0	0	0	-2	-14
Virgin Islands, U.S.	-	-	0	0	0	-31	-31
Yemen	-	-	-	0	-	0	0
Other	1	-106	0	-14	-1	-743	-1,209
Total	1	-538	18	-57	-2	-3,149	670
Persian Gulf²	0	-6	0	13	0	70	910

-- = Not Applicable.

- = 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 34. Stocks of Crude Oil and Petroleum Products by PAD District, 2019
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Crude Oil	9,646	126,547	854,758	23,890	52,898	1,067,739
Refinery	7,152	14,197	44,371	2,664	21,995	90,379
Tank Farms and Pipelines (Includes Cushing, OK)	2,494	112,350	175,420	21,226	24,138	335,628
Cushing, Oklahoma	--	35,866	--	--	--	35,866
Leases	--	--	--	--	--	--
Strategic Petroleum Reserve ¹	--	--	634,967	--	--	634,967
Alaskan In Transit	--	--	--	--	6,765	6,765
Total Stocks, All Oils (excluding Crude Oil)²	158,326	177,685	394,737	23,127	95,233	849,108
Refinery	14,817	48,324	128,032	11,978	51,887	255,038
Bulk Terminal	114,818	91,334	206,068	6,692	37,908	456,820
Pipeline	28,393	36,407	59,086	4,257	5,132	133,275
Natural Gas Processing Plant	298	1,620	1,551	200	306	3,975
Natural Gas Liquids	9,334	46,995	144,536	3,771	4,094	208,730
Refinery	355	3,638	6,757	376	1,611	12,737
Bulk Terminal	7,082	25,648	115,439	964	2,177	151,310
Pipeline	1,599	16,089	20,789	2,231	--	40,708
Natural Gas Processing Plant	298	1,620	1,551	200	306	3,975
Ethane	739	5,415	50,576	556	--	57,286
Refinery	--	--	114	--	--	114
Bulk Terminal	462	2,398	42,927	--	--	45,787
Pipeline	277	2,877	7,300	550	--	11,004
Natural Gas Processing Plant	--	140	235	6	--	381
Propane	6,568	20,023	49,700	1,692	1,673	79,656
Refinery	97	1,149	892	46	132	2,316
Bulk Terminal	5,258	14,037	41,649	672	1,427	63,043
Pipeline	1,075	3,883	6,880	879	--	12,717
Natural Gas Processing Plant	138	954	279	95	114	1,580
Normal Butane	1,500	9,143	26,154	882	1,992	39,671
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	2,057	334	--	3,867
Natural Gas Processing Plant	62	183	697	40	147	1,129
Isobutane	170	1,907	8,479	273	388	11,217
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	16	167	160	18	12	373
Natural Gasoline	357	10,507	9,627	368	41	20,900
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	82	176	180	41	33	512
Refinery Olefins	308	304	2,259	75	20	2,966
Refinery	308	304	2,259	75	20	2,966
Bulk Terminal	--	--	--	--	--	--
Pipeline	--	--	--	--	--	--
Natural Gas Processing Plant	--	--	--	--	--	--
Ethylene	--	--	0	--	--	0
Refinery	--	--	0	--	--	0
Bulk Terminal	--	--	--	--	--	--
Pipeline	--	--	--	--	--	--
Natural Gas Processing Plant	--	--	--	--	--	--
Propylene	151	284	1,224	0	14	1,673
Refinery	151	284	1,224	0	14	1,673
Bulk Terminal	--	--	--	--	--	--
Pipeline	--	--	--	--	--	--
Natural Gas Processing Plant	--	--	--	--	--	--
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)	--	--	--	--	--	--
Refinery	--	--	--	--	--	--
Bulk Terminal	--	--	--	--	--	--
Pipeline	--	--	--	--	--	--

See footnotes at end of table.

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

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
MTBE	--	--	--	--	--	--
Refinery	--	--	--	--	--	--
Bulk Terminal ³	--	--	--	--	--	--
Pipeline	--	--	--	--	--	--
Other Oxygenates⁴	--	--	--	--	--	--
Refinery	--	--	--	--	--	--
Bulk Terminal	--	--	--	--	--	--
Pipeline	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	8,568	8,804	5,552	462	4,414	27,800
Refinery	267	144	406	206	315	1,338
Bulk Terminal	8,301	8,660	5,146	252	4,099	26,458
Pipeline	--	--	--	4	--	4
Fuel Ethanol²	7,263	7,865	3,963	400	2,861	22,352
Refinery	260	106	185	148	31	730
Bulk Terminal	7,003	7,759	3,778	248	2,830	21,618
Pipeline	--	--	--	4	--	4
Renewable Diesel Fuel⁵	1,305	939	1,585	62	1,507	5,398
Refinery	7	38	221	58	284	608
Bulk Terminal	1,298	901	1,364	4	1,223	4,790
Pipeline	--	--	--	--	--	--
Other Renewable Fuels	--	--	4	--	46	50
Refinery	--	--	--	--	--	--
Bulk Terminal	--	--	4	--	46	50
Pipeline	--	--	--	--	--	--
Unfinished Oils	4,141	13,421	49,679	3,181	19,422	89,844
Naphthas and Lighter	1,268	3,553	11,467	755	3,625	20,668
Refinery	1,210	3,527	10,053	755	3,346	18,891
Bulk Terminal	58	26	1,414	--	279	1,777
Kerosene and Light Gas Oils	640	2,487	8,881	569	3,231	15,808
Refinery	640	2,487	6,464	569	3,141	13,301
Bulk Terminal	--	--	2,417	--	90	2,507
Heavy Gas Oils	1,619	5,146	22,710	1,414	9,790	40,679
Refinery	1,563	4,900	19,004	1,414	9,623	36,504
Bulk Terminal	56	246	3,706	--	167	4,175
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	60,982	47,695	82,435	6,358	30,501	227,971
Refinery	4,205	13,192	29,817	3,609	14,294	65,117
Bulk Terminal	46,007	25,988	33,347	1,843	13,536	120,721
Pipeline	10,770	8,515	19,271	906	2,671	42,133
Reformulated - RBOB	21,163	5,603	11,033	--	15,167	52,966
Refinery	1,216	1,178	1,635	--	5,366	9,395
Bulk Terminal	15,492	3,570	5,859	--	8,228	33,149
Pipeline	4,455	855	3,539	--	1,573	10,422
Conventional	39,819	42,092	71,402	6,358	15,334	175,005
Refinery	2,989	12,014	28,182	3,609	8,928	55,722
Bulk Terminal	30,515	22,418	27,488	1,843	5,308	87,572
Pipeline	6,315	7,660	15,732	906	1,098	31,711
CBOB	25,843	34,262	38,652	4,747	7,416	110,920
Refinery	473	5,347	11,550	2,001	2,053	21,424
Bulk Terminal	19,055	21,310	11,439	1,840	4,269	57,913
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	7,830	32,750	1,611	7,918	62,977
Refinery	2,516	6,667	16,632	1,608	6,875	34,298
Bulk Terminal	10,352	1,108	16,049	3	1,039	28,551
Pipeline	--	55	69	--	4	128
Aviation Gasoline Blending Components	--	--	42	--	--	42
Refinery	--	--	42	--	--	42
Bulk Terminal	--	--	--	--	--	--
Finished Motor Gasoline	4,632	7,321	9,554	1,921	2,701	26,129
Refinery	38	1,552	2,504	928	975	5,997
Bulk Terminal	1,518	3,032	4,975	779	1,538	11,842
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 34. Stocks of Crude Oil and Petroleum Products by PAD District, 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	9,554	1,921	2,688	26,088
Refinery	38	1,552	2,504	928	962	5,984
Bulk Terminal	1,490	3,032	4,975	779	1,538	11,814
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	9,554	1,856	2,685	25,751
Refinery	38	1,552	2,504	865	962	5,921
Bulk Terminal	1,438	2,815	4,975	777	1,535	11,540
Pipeline	3,076	2,737	2,075	214	188	8,290
Finished Aviation Gasoline	225	151	560	8	208	1,152
Refinery	—	66	459	8	111	644
Bulk Terminal	225	85	101	—	97	508
Pipeline	—	—	—	—	—	—
Kerosene-Type Jet Fuel	8,845	6,782	14,377	709	9,754	40,467
Refinery	650	1,731	6,439	301	3,915	13,036
Bulk Terminal	4,605	3,186	3,978	287	4,948	17,004
Pipeline	3,590	1,865	3,960	121	891	10,427
Kerosene	2,191	322	283	1	21	2,818
Refinery	131	219	157	1	3	511
Bulk Terminal	2,025	103	10	—	18	2,156
Pipeline	35	—	116	—	—	151
Distillate Fuel Oil²	44,817	31,410	44,458	4,648	14,750	140,083
Refinery	2,101	6,727	16,209	2,124	6,403	33,564
Bulk Terminal	33,393	17,482	15,374	1,743	6,973	74,965
Pipeline	9,323	7,201	12,875	781	1,374	31,554
15 ppm sulfur and Under	39,826	30,416	36,659	4,423	13,572	124,896
Refinery	1,250	6,107	13,046	1,929	5,631	27,963
Bulk Terminal	30,021	17,430	11,507	1,715	6,635	67,308
Pipeline	8,555	6,879	12,106	779	1,306	29,625
Greater than 15 ppm to 500 ppm sulfur	1,400	480	1,955	138	276	4,249
Refinery	314	142	1,122	108	276	1,962
Bulk Terminal	1,080	33	735	28	—	1,876
Pipeline	6	305	98	2	—	411
Greater than 500 ppm sulfur	3,591	514	5,844	87	902	10,938
Refinery	537	478	2,041	87	496	3,639
Bulk Terminal	2,292	19	3,132	—	338	5,781
Pipeline	762	17	671	—	68	1,518
Residual Fuel Oil	7,671	1,247	17,225	257	4,120	30,520
Refinery	760	935	3,500	257	1,898	7,350
Bulk Terminal	6,911	312	13,725	—	2,214	23,162
Pipeline	—	—	—	—	—	—
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	12,816	207	3,554	21,285
Refinery	355	688	3,258	207	1,754	6,262
Bulk Terminal	3,552	113	9,558	—	1,800	15,023
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

See footnotes at end of table.

Table 34. Stocks of Crude Oil and Petroleum Products by PAD District, 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	167,972	304,232	1,249,495	47,017	148,131	1,916,847

-- = Not Applicable.

— = No Data Reported.

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.

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 35. Refinery, Bulk Terminal, and Natural Gas Plant Stocks of Selected Petroleum Products by PAD District and State, 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	16,708	33,504	50,212	2,156
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	942	2,389	3,331	474
North Carolina	—	239	239	—	2,376	2,376	222
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	34,432	39,180	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	1,278	1,731	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	3,426	3,429	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	—	7,479	7,479	7,494	55,670	63,164	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	—	4,069	4,069	7,156	37,244	44,400	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	13,594	14,236	27,830	21
Alaska	—	776	776	—	—	—	18
Arizona	—	48	48	897	262	1,159	—
California	13	496	509	12,420	7,057	19,477	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	17,798	17,839	42,544	143,294	185,838	2,667

See footnotes at end of table.

Table 35. Refinery, Bulk Terminal, and Natural Gas Plant Stocks of Selected Petroleum Products by PAD District and State, 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	31,271	1,394	2,829	35,494	7,671	5,493
Connecticut	2,730	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	1,599	3	13	1,615	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	4,592	31	102	4,725	1,851	1,385
North Carolina	1,480	—	9	1,489	—	469
Pennsylvania	2,811	333	638	3,782	739	2,105
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	23,537	175	497	24,209	1,247	16,140
Illinois	3,162	—	—	3,162	230	759
Indiana	2,530	—	68	2,598	106	324
Iowa	1,887	1	—	1,888	1	437
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	1,908	—	132	2,040	121	637
Oklahoma	2,235	132	159	2,526	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	24,553	1,857	5,173	31,583	17,225	42,820
Alabama	972	5	32	1,009	457	17
Arkansas	833	—	12	845	—	57
Louisiana	5,338	903	1,639	7,880	8,826	2,007
Mississippi	1,286	519	131	1,936	32	2,961
New Mexico	381	—	—	381	78	4
Texas	15,743	430	3,359	19,532	7,832	37,774
PAD District 4	3,644	136	87	3,867	257	813
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	82
PAD District 5	12,266	276	834	13,376	4,112	1,673
Alaska	1,075	—	74	1,149	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	1,223	—	—	1,223	29	—
Washington	2,343	—	—	2,343	804	90
U.S. Total	95,271	3,838	9,420	108,529	30,512	66,939

— = 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 36. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, 2019
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	4,095	796	0	49,220	787,800	80,790	60,244	24,807	338,568
Petroleum Products	198,254	2,559	0	245,420	466,160	98,231	60,992	1,277,384	239,515
Natural Gas Liquids	83,625	1,395	0	77,057	323,683	56,751	8,852	18,123	94,816
Ethane	61,787	0	—	0	137,344	8,256	—	0	10,030
Propane	11,925	315	0	56,548	102,317	26,662	3,289	17,766	14,232
Normal Butane	2,683	239	0	18,193	42,636	11,528	3,968	279	4,245
Isobutane	4,098	841	0	2,316	15,110	4,203	1,595	78	7,046
Natural Gasoline	3,132	0	—	0	26,276	6,102	—	0	59,263
Refinery Olefins	0	0	—	3,138	3,907	—	—	0	0
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	0	0	—	3,138	3,907	—	—	0	0
Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	293	0	0	0	9,423	—	0	367	3,514
Motor Gasoline Blending Components	77,777	0	0	14,858	22,209	16,529	0	692,882	78,485
Reformulated - RBOB	0	0	0	180	2,536	—	0	99,734	38,209
Conventional	77,777	0	0	14,678	19,673	16,529	0	593,148	40,276
CBOB	77,749	0	0	14,678	16,187	16,529	0	591,784	33,794
GTAB	—	—	—	—	—	—	—	—	—
Other	28	0	0	0	3,486	—	0	1,364	6,482
Renewable Fuels	0	0	0	113,843	74,034	4,841	49,762	3,901	0
Fuel Ethanol	0	0	0	111,380	70,618	4,338	47,414	3,665	0
Renewable Diesel Fuel ²	0	0	0	2,463	3,416	502	2,348	236	0
Other Renewable Fuels	0	0	—	—	0	—	—	—	0
Finished Motor Gasoline	998	0	0	5,459	3,053	2,469	0	47,747	10,717
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	998	0	0	5,459	3,053	2,469	0	47,747	10,717
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	998	0	0	5,459	3,053	2,469	0	47,747	10,717
Finished Aviation Gasoline	0	0	—	0	0	—	—	954	179
Kerosene-Type Jet Fuel	3,640	0	0	1,179	277	10,328	0	184,547	20,060
Kerosene	34	0	—	0	0	—	—	1,759	0
Distillate Fuel Oil	31,732	0	0	13,776	12,638	7,101	0	315,207	26,707
15 ppm sulfur and under	31,732	0	0	13,641	12,638	7,101	0	299,756	25,153
Greater than 15 ppm to 500 ppm sulfur	0	0	—	135	0	—	—	239	1,460
Greater than 500 ppm sulfur	0	0	—	0	0	—	—	15,212	94
Residual Fuel Oil	0	468	—	0	7,893	—	—	0	0
Petrochemical Feedstocks	0	255	—	0	1,085	—	—	828	67
Naphtha for Petrochemical Feedstock Use	0	0	—	—	945	—	—	—	47
Other Oils for Petrochemical Feedstock Use	0	255	—	0	140	—	—	828	20
Special Naphthas	0	0	—	—	0	—	—	—	246
Lubricants	0	0	0	40	0	—	0	5,279	1,734
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	151	0	7,113	4,970	100	94	324	157
Asphalt and Road Oil	155	60	0	8,887	2,978	112	2,284	5,465	2,810
Miscellaneous Products	0	231	—	70	10	—	—	0	24
Total	202,349	3,355	0	294,640	1,253,960	179,021	121,236	1,302,191	578,083

See footnotes at end of table.

Table 36. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, 2019
(Thousand Barrels) — Continued

Commodity	From 3 to		From 4 to				From 5 to			
	4	5	1	2	3	5	1	2	3	4
Crude Oil	0	4,806	0	303,438	10,603	76	0	0	0	0
Petroleum Products	0	59,985	114	153,693	45,992	28,375	49	477	875	355
Natural Gas Liquids	0	1,223	0	139,472	41,432	1,743	0	0	0	0
Ethane	0	—	0	30,800	14,003	—	0	0	0	0
Propane	0	0	0	57,035	12,639	974	0	0	0	0
Normal Butane	0	900	0	24,135	4,375	592	0	0	0	0
Isobutane	0	323	0	9,978	3,633	177	0	0	0	0
Natural Gasoline	0	—	0	17,524	6,782	—	0	0	0	0
Refinery Olefins	—	—	0	0	0	—	0	0	0	—
Ethylene	—	—	—	—	—	—	—	—	—	—
Propylene	—	—	0	0	0	—	0	0	0	—
Butylene	—	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—	—
Unfinished Oils	—	0	0	0	0	0	0	0	161	—
Motor Gasoline Blending Components	0	43,584	0	2,059	0	12,892	0	0	0	0
Reformulated - RBOB	—	26,880	0	0	0	0	0	0	0	—
Conventional	0	16,704	0	2,059	0	12,892	0	0	0	0
CBOB	0	16,527	0	2,059	0	12,892	0	0	0	0
GTAB	—	—	—	—	—	—	—	—	—	—
Other	—	177	0	0	0	0	0	0	0	—
Renewable Fuels	0	4,173	0	0	0	110	0	0	25	125
Fuel Ethanol	0	1,725	0	0	0	110	0	0	0	0
Renewable Diesel Fuel ²	0	2,448	0	0	0	0	0	0	25	125
Other Renewable Fuels	—	—	—	0	0	—	—	0	0	—
Finished Motor Gasoline	0	0	0	4,190	0	5,070	0	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	4,190	0	5,070	0	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	4,190	0	5,070	0	0	0	0
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	0	—
Kerosene-Type Jet Fuel	0	2,997	0	277	0	239	0	0	0	0
Kerosene	—	—	0	0	0	—	0	0	0	—
Distillate Fuel Oil	0	6,573	0	4,576	0	4,223	0	0	0	0
15 ppm sulfur and under	0	6,573	0	4,576	0	4,223	0	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	0	0	0	—	0	0	0	—
Greater than 500 ppm sulfur	—	—	0	0	0	—	0	0	0	—
Residual Fuel Oil	—	—	0	0	0	—	0	0	0	—
Petrochemical Feedstocks	—	—	0	0	0	—	0	0	0	—
Naphtha for Petrochemical Feedstock Use	—	—	—	0	0	—	—	0	0	—
Other Oils for Petrochemical Feedstock Use	—	—	0	0	0	—	0	0	0	—
Special Naphthas	—	—	—	0	0	—	—	0	0	—
Lubricants	—	0	0	0	0	0	0	0	321	—
Waxes	—	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	53	0	945	2,487	804	49	477	368	148
Asphalt and Road Oil	0	1,383	114	2,174	2,073	3,295	0	0	0	82
Miscellaneous Products	—	—	0	0	0	—	0	0	0	—
Total	0	64,791	114	457,131	56,594	28,451	49	477	875	355

— = 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 37. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, 2019
(Thousand Barrels)

Commodity	From 1 to		From 2 to			From 3 to			
	2	3	1	3	4	1	2	4	5
Crude Oil	2,174	522	2,719	750,908	80,790	1,600	338,428	0	-
Petroleum Products	194,637	0	75,479	343,018	93,178	991,272	216,580	0	52,807
Natural Gas Liquids	80,613	0	52,984	311,027	56,751	15,986	92,008	0	-
Ethane	61,787	0	0	137,344	8,256	0	10,030	0	-
Propane	10,762	0	40,493	95,085	26,662	15,986	13,159	0	-
Normal Butane	1,469	0	12,491	39,241	11,528	0	3,472	0	-
Isobutane	3,463	0	0	13,081	4,203	0	6,084	0	-
Natural Gasoline	3,132	0	0	26,276	6,102	0	59,263	0	-
Motor Gasoline Blending Components	77,676	0	8,136	18,018	16,529	530,954	75,150	0	43,237
Reformulated - RBOB	0	0	0	2,536	-	99,368	38,209	-	26,880
Conventional	77,676	0	8,136	15,482	16,529	431,586	36,941	0	16,357
CBOB	77,676	0	8,136	15,482	16,529	431,586	33,794	0	16,357
GTAB	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	-	-	3,147	-	-
Renewable Fuels	-	-	-	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-	-	-	-
Renewable Diesel Fuel ¹	-	-	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	992	0	4,989	1,625	2,469	21,379	7,752	0	0
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	992	0	4,989	1,625	2,469	21,379	7,752	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	992	0	4,989	1,625	2,469	21,379	7,752	0	0
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	3,614	0	1,122	277	10,328	152,080	18,038	0	2,997
Kerosene	34	0	0	0	-	1,759	0	-	-
Distillate Fuel Oil	31,708	0	8,178	12,071	7,101	269,114	23,632	0	6,573
15 ppm sulfur and under	31,708	0	8,043	12,071	7,101	253,663	22,172	0	6,573
Greater than 15 ppm to 500 ppm sulfur	0	0	135	0	-	239	1,460	-	-
Greater than 500 ppm sulfur	-	0	0	0	-	15,212	-	-	-
Residual Fuel Oil	-	-	-	-	-	-	-	-	-
Miscellaneous Products	0	-	70	-	-	0	0	-	-
Total	196,811	522	78,198	1,093,926	173,968	992,872	555,008	0	52,807

See footnotes at end of table.

Table 37. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, 2019
(Thousand Barrels) — Continued

Commodity	From 4 to				From 5 to	
	1	2	3	5	3	4
Crude Oil	0	303,307	3,798	-	0	0
Petroleum Products	0	150,574	41,432	22,424	0	0
Natural Gas Liquids	0	139,472	41,432	-	0	0
Ethane	0	30,800	14,003	-	0	0
Propane	0	57,035	12,639	-	0	0
Normal Butane	0	24,135	4,375	-	0	0
Isobutane	0	9,978	3,633	-	0	0
Natural Gasoline	0	17,524	6,782	-	0	0
Motor Gasoline Blending Components	0	2,059	0	12,892	0	0
Reformulated - RBOB	0	0	0	0	0	-
Conventional	0	2,059	0	12,892	0	0
CBOB	0	2,059	0	12,892	0	0
GTAB	-	-	-	-	-	-
Other	-	0	0	-	0	-
Renewable Fuels	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-
Renewable Diesel Fuel ¹	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-
Finished Motor Gasoline	0	4,190	0	5,070	0	0
Reformulated	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-
Conventional	0	4,190	0	5,070	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-
Conventional Other	0	4,190	0	5,070	0	0
Finished Aviation Gasoline	-	-	-	-	-	-
Kerosene-Type Jet Fuel	0	277	0	239	0	0
Kerosene	0	0	0	0	0	-
Distillate Fuel Oil	0	4,576	0	4,223	0	0
15 ppm sulfur and under	0	4,576	0	4,223	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	453,881	45,230	22,424	0	0

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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 38. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, 2019
(Thousand Barrels)

Commodity	From 1 to			From 2 to		
	2	3	5	1	3	5
Crude Oil	1,921	274	0	3,730	25,433	0
Petroleum Products	450	954	0	16,421	31,144	0
Natural Gas Liquids	—	0	—	0	0	—
Ethane	—	—	—	—	—	—
Propane	—	0	—	0	0	—
Normal Butane	—	—	—	—	—	—
Isobutane	—	—	—	—	—	—
Natural Gasoline	—	—	—	—	—	—
Unfinished Oils	293	0	0	0	9,423	0
Motor Gasoline Blending Components	101	0	0	6,722	4,191	0
Reformulated - RBOB	0	0	0	180	0	—
Conventional	101	0	0	6,542	4,191	0
CBOB	73	0	0	6,542	705	0
GTAB	—	—	—	—	—	—
Other	28	0	0	0	3,486	0
Renewable Fuels	0	0	0	2,709	6,048	0
Fuel Ethanol	0	0	—	2,709	5,461	—
Renewable Diesel Fuel ¹	0	0	0	0	587	0
Other Renewable Fuels	0	0	—	—	0	—
Finished Motor Gasoline	6	0	—	470	1,428	—
Reformulated	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—
Conventional	6	0	—	470	1,428	—
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—
Conventional Other	6	0	—	470	1,428	—
Finished Aviation Gasoline	0	0	—	0	0	—
Kerosene-Type Jet Fuel	26	0	—	57	0	—
Kerosene	—	—	—	—	—	—
Distillate Fuel Oil	24	0	—	5,598	567	—
15 ppm sulfur and under	24	0	—	5,598	567	—
Greater than 15 ppm to 500 ppm sulfur	—	—	—	—	—	—
Greater than 500 ppm sulfur	0	0	—	—	0	—
Residual Fuel Oil	0	468	—	0	7,893	—
Less than 0.31 percent sulfur	0	0	—	—	848	—
0.31 to 1.00 percent sulfur	0	0	—	—	345	—
Greater than 1.00 percent sulfur	0	468	—	0	6,700	—
Petrochemical Feedstocks	0	255	—	0	1,085	—
Naphtha for Petrochemical Feedstock Use	0	0	—	—	945	—
Other Oils for Petrochemical Feedstock Use	0	255	—	0	140	—
Special Naphthas	0	0	—	—	0	—
Lubricants	0	0	0	40	0	0
Waxes	—	—	—	—	—	—
Marketable Petroleum Coke	—	—	—	—	—	—
Asphalt and Road Oil	0	0	—	825	499	—
Miscellaneous Products	0	231	—	0	10	—
Total	2,371	1,228	0	20,151	56,577	0

See footnotes at end of table.

Table 38. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, 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	23,158	—	23,158	—	140	1,325	0	0	0
Petroleum Products	282,038	2,330	5,436	274,272	18,872	2,260	0	0	482
Natural Gas Liquids	404	—	—	404	—	—	0	—	0
Ethane	—	—	—	—	—	—	—	—	—
Propane	404	—	—	404	—	—	0	—	0
Normal Butane	—	—	—	—	—	—	—	—	—
Isobutane	—	—	—	—	—	—	—	—	—
Natural Gasoline	—	—	—	—	—	—	—	—	—
Unfinished Oils	367	—	367	—	3,514	0	0	0	161
Motor Gasoline Blending Components	161,928	234	1,175	160,519	3,335	347	0	0	0
Reformulated - RBOB	366	234	—	132	0	—	0	0	0
Conventional	161,562	—	1,175	160,387	3,335	347	0	0	0
CBOB	160,198	—	—	160,198	0	170	0	0	0
GTAB	—	—	—	—	—	—	—	—	—
Other	1,364	—	1,175	189	3,335	177	0	0	0
Renewable Fuels	3,810	—	—	3,810	0	1,913	0	0	0
Fuel Ethanol	3,665	—	—	3,665	0	—	0	0	0
Renewable Diesel Fuel ¹	145	—	—	145	0	1,913	0	0	0
Other Renewable Fuels	—	—	—	—	0	—	—	0	0
Finished Motor Gasoline	26,368	—	—	26,368	2,965	—	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	26,368	—	—	26,368	2,965	—	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	26,368	—	—	26,368	2,965	—	0	0	0
Finished Aviation Gasoline	954	111	76	767	179	—	0	0	0
Kerosene-Type Jet Fuel	32,467	—	—	32,467	2,022	—	0	0	0
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	46,093	1,985	208	43,900	3,075	—	0	0	0
15 ppm sulfur and under	46,093	1,985	208	43,900	2,981	—	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	—	—	—	—	—	—	—
Greater than 500 ppm sulfur	—	—	—	—	94	—	—	0	0
Residual Fuel Oil	0	—	—	—	0	—	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	0	0
Petrochemical Feedstocks	828	—	828	—	67	—	0	0	0
Naphtha for Petrochemical Feedstock Use	—	—	—	—	47	—	—	0	0
Other Oils for Petrochemical Feedstock Use	828	—	828	—	20	—	0	0	0
Special Naphthas	—	—	—	—	246	—	—	0	0
Lubricants	5,279	—	2,658	2,621	1,734	0	0	0	321
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	3,540	—	124	3,416	1,711	—	0	0	0
Miscellaneous Products	0	—	—	—	24	—	0	0	0
Total	305,196	2,330	28,594	274,272	19,012	3,585	0	0	482

— = 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 39. Movements of Crude Oil and Selected Products by Rail Between PAD Districts, 2019
(Thousand Barrels)

Commodity	From 1 to				From 2 to			
	2	3	4	5	1	3	4	5
Crude Oil	0	0	0	0	42,771	11,459	0	60,244
Propane	1,163	315	0	0	16,055	7,232	0	3,289
Propylene	0	0	-	-	3,138	3,907	-	-
Normal Butane	1,214	239	0	0	5,702	3,395	0	3,968
Isobutane	635	841	0	0	2,316	2,029	0	1,595
Fuel Ethanol	0	0	0	0	108,671	65,157	4,338	47,414
Biodiesel	0	0	0	0	2,463	2,829	502	2,348
Marketable Petroleum Coke	0	151	0	0	7,113	4,970	100	94
Asphalt and Road Oil	155	60	0	0	8,062	2,479	112	2,284

Commodity	From 3 to				From 4 to			
	1	2	4	5	1	2	3	5
Crude Oil	49	0	0	3,481	0	131	6,805	76
Propane	1,376	1,073	0	0	0	0	0	974
Propylene	0	0	-	-	0	0	0	-
Normal Butane	279	773	0	900	0	0	0	592
Isobutane	78	962	0	323	0	0	0	177
Fuel Ethanol	0	0	0	1,725	0	0	0	110
Biodiesel	91	0	0	535	0	0	0	0
Marketable Petroleum Coke	324	157	0	53	0	945	2,487	804
Asphalt and Road Oil	1,925	1,099	0	1,383	114	2,174	2,073	3,295

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	25	125
Marketable Petroleum Coke	49	477	368	148
Asphalt and Road Oil	0	0	0	82

- = No Data Reported.
Source: Rail Movements are estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 40. Movements of Crude Oil by Pipeline, Tanker, Barge and Rail between PAD Districts, 2019
(Thousand Barrels)

PADD	Pipeline	Tanker and Barge	Rail	Total
From 1 to				
2	2,174	1,921	0	4,095
3	522	274	0	796
4	0	-	0	0
5	-	0	0	0
From 2 to				
1	2,719	3,730	42,771	49,220
3	750,908	25,433	11,459	787,800
4	80,790	-	0	80,790
5	-	0	60,244	60,244
From 3 to				
1	1,600	23,158	49	24,807
2	338,428	140	0	338,568
4	0	-	0	0
5	-	1,325	3,481	4,806
From 4 to				
1	0	0	0	0
2	303,307	0	131	303,438
3	3,798	0	6,805	10,603
5	-	0	76	76
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 41. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, 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	74,027	4,891	69,136	646,101	978,055	-331,953	799,199	368,181	431,018
Petroleum Products	1,522,967	200,814	1,322,154	591,940	870,803	-278,863	515,586	1,576,884	-1,061,298
Natural Gas Liquids	95,180	85,020	10,160	317,913	466,343	-148,430	366,510	114,162	252,348
Ethane	0	61,787	-61,787	102,617	145,600	-42,983	151,347	10,030	141,317
Propane	74,314	12,240	62,074	83,192	188,816	-105,624	115,271	31,998	83,273
Normal Butane	18,472	2,922	15,550	31,063	76,325	-45,262	47,250	5,424	41,826
Isobutane	2,394	4,939	-2,545	21,122	23,224	-2,102	19,584	7,447	12,137
Natural Gasoline	0	3,132	-3,132	79,919	32,378	47,541	33,058	59,263	-26,205
Refinery Olefins	3,138	0	3,138	0	7,045	-7,045	3,907	0	3,907
Ethylene	0	0	-	-	-	-	0	0	-
Propylene	3,138	0	3,138	0	7,045	-7,045	3,907	0	3,907
Butylene	0	0	-	0	0	-	0	0	-
Isobutylene	0	0	-	0	0	-	0	0	-
Unfinished Oils	367	293	74	3,807	9,423	-5,616	9,584	3,881	5,703
Motor Gasoline Blending Components	707,740	77,777	629,963	158,321	53,596	104,725	22,209	814,951	-792,742
Reformulated - RBOB	99,914	0	99,914	38,209	2,716	35,493	2,536	164,823	-162,287
Conventional	607,826	77,777	530,049	120,112	50,880	69,232	19,673	650,128	-630,455
CBOB	606,462	77,749	528,713	113,602	47,394	66,208	16,187	642,105	-625,918
GTAB	0	0	-	-	-	-	0	0	-
Other	1,364	28	1,336	6,510	3,486	3,024	3,486	8,023	-4,537
Renewable Fuels	117,744	0	117,744	0	242,479	-242,479	74,059	8,074	65,985
Fuel Ethanol	115,045	0	115,045	0	233,750	-233,750	70,618	5,390	65,228
Renewable Diesel Fuel ²	2,699	0	2,699	0	8,730	-8,730	3,441	2,684	757
Other Renewable Fuels	-	-	-	0	10	0	0	0	0
Finished Motor Gasoline	53,206	998	52,208	15,905	10,981	4,924	3,053	58,464	-55,411
Reformulated	0	0	-	0	0	-	0	0	-
Reformulated Blended with Fuel Ethanol	0	0	-	0	0	-	0	0	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	53,206	998	52,208	15,905	10,981	4,924	3,053	58,464	-55,411
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	53,206	998	52,208	15,905	10,981	4,924	3,053	58,464	-55,411
Finished Aviation Gasoline	954	0	954	179	0	179	0	1,133	-1,133
Kerosene-Type Jet Fuel	185,726	3,640	182,086	23,977	11,784	12,193	277	207,604	-207,327
Kerosene	1,759	34	1,725	34	0	34	0	1,759	-1,759
Distillate Fuel Oil	328,983	31,732	297,251	63,015	33,515	29,500	12,638	348,487	-335,849
15 ppm sulfur and under	313,397	31,732	281,665	61,461	33,380	28,081	12,638	331,482	-318,844
Greater than 15 ppm to 500 ppm sulfur	374	0	374	1,460	135	1,325	0	1,699	-1,699
Greater than 500 ppm sulfur	15,212	0	15,212	94	0	94	0	15,306	-15,306
Residual Fuel Oil	0	468	-468	0	7,893	-7,893	8,361	0	8,361
Petrochemical Feedstocks	828	255	573	67	1,085	-1,018	1,340	895	445
Naphtha for Petrochemical Feedstock Use	0	0	-	47	945	-898	945	47	898
Other Oils for Petrochemical Feedstock Use	828	255	573	20	140	-120	395	848	-453
Special Naphthas	0	0	-	246	0	246	0	246	-246
Lubricants	5,319	0	5,319	1,734	40	1,694	321	7,013	-6,692
Waxes	0	0	-	0	0	-	0	0	-
Marketable Petroleum Coke	7,487	151	7,336	1,579	12,277	-10,699	7,976	533	7,443
Asphalt and Road Oil	14,467	215	14,252	5,139	14,261	-9,122	5,110	9,658	-4,548
Miscellaneous Products	70	231	-161	24	80	-56	241	24	217
Total	1,596,994	205,705	1,391,289	1,238,041	1,848,857	-610,816	1,314,785	1,945,065	-630,280

See footnotes at end of table.

Table 41. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, 2019
(Thousand Barrels) — Continued

Commodity	PAD District 4			PAD District 5		
	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts
Crude Oil	80,790	314,117	-233,327	65,126	0	65,126
Petroleum Products	98,586	228,174	-129,588	149,353	1,757	147,596
Natural Gas Liquids	56,751	182,647	-125,896	11,818	0	11,818
Ethane	8,256	44,803	-36,547	0	0	-
Propane	26,662	70,648	-43,986	4,263	0	4,263
Normal Butane	11,528	29,102	-17,574	5,460	0	5,460
Isobutane	4,203	13,788	-9,585	2,095	0	2,095
Natural Gasoline	6,102	24,306	-18,204	0	0	-
Refinery Olefins	0	0	-	0	0	-
Ethylene	-	-	-	-	-	-
Propylene	0	0	-	0	0	-
Butylene	0	0	-	0	0	-
Isobutylene	0	0	-	0	0	-
Unfinished Oils	0	0	-	0	161	-161
Motor Gasoline Blending Components	16,529	14,951	1,578	56,476	0	56,476
Reformulated - RBOB	-	-	-	26,880	0	26,880
Conventional	16,529	14,951	1,578	29,596	0	29,596
CBOB	16,529	14,951	1,578	29,419	0	29,419
GTAB	-	-	-	0	0	-
Other	0	0	-	177	0	177
Renewable Fuels	4,965	110	4,855	54,045	150	53,895
Fuel Ethanol	4,338	110	4,228	49,249	0	49,249
Renewable Diesel Fuel ²	627	0	627	4,796	150	4,646
Other Renewable Fuels	-	-	-	0	0	-
Finished Motor Gasoline	2,469	9,260	-6,791	5,070	0	5,070
Reformulated	-	-	-	0	0	-
Reformulated Blended with Fuel Ethanol	-	-	-	0	0	-
Reformulated Other	-	-	-	-	-	-
Conventional	2,469	9,260	-6,791	5,070	0	5,070
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	2,469	9,260	-6,791	5,070	0	5,070
Finished Aviation Gasoline	0	0	-	0	0	-
Kerosene-Type Jet Fuel	10,328	516	9,812	3,236	0	3,236
Kerosene	0	0	-	0	0	-
Distillate Fuel Oil	7,101	8,799	-1,698	10,796	0	10,796
15 ppm sulfur and under	7,101	8,799	-1,698	10,796	0	10,796
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	321	-321
Waxes	0	0	-	0	0	-
Marketable Petroleum Coke	248	4,235	-3,987	950	1,043	-93
Asphalt and Road Oil	194	7,656	-7,461	6,961	82	6,880
Miscellaneous Products	0	0	-	0	0	-
Total	179,376	542,291	-362,915	214,479	1,757	212,722

- = 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.