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Administration

Petroleum Supply Monthly

with data for March 2019

May 2019



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Preface

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

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

Scope of data

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

Sections

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

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Table 1. U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, March 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	369,049	--	--	209,541	6,313	7,594	494,114	83,196	0	1,108,448
Hydrocarbon Gas Liquids	146,573	-595	19,507	7,819	--	7,818	15,772	50,456	99,258	162,993
Natural Gas Liquids	146,573	-595	11,534	7,259	--	8,163	15,772	50,456	90,380	153,600
Ethane	58,898	--	182	--	--	3,031	--	7,571	48,478	49,980
Propane	47,214	--	8,916	5,400	--	2,738	--	28,247	30,545	47,758
Normal Butane	12,386	--	2,761	1,388	--	2,649	4,821	8,427	638	27,727
Isobutane	12,584	--	-325	467	--	423	6,821	106	5,376	10,014
Natural Gasoline	15,491	-595	--	4	--	-678	4,130	6,105	5,343	18,121
Refinery Olefins	--	--	7,973	560	--	-345	--	--	8,878	9,393
Ethylene	--	--	7	--	--	0	--	--	7	0
Propylene	--	--	8,106	323	--	-242	--	--	8,671	7,837
Normal Butylene	--	--	-151	237	--	-129	--	--	215	1,398
Isobutylene	--	--	11	--	--	26	--	--	-15	158
Other Liquids	--	36,537	--	35,669	9,770	-15,370	79,812	16,457	1,077	339,210
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	36,542	--	1,245	2,988	-1,731	36,852	5,655	0	32,814
Hydrogen	--	--	--	--	6,518	--	6,518	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	2,294	--	25	-653	-413	--	2,079	0	1,989
Renewable Fuels (including Fuel Ethanol) ...	--	34,248	--	1,219	-2,911	-1,320	30,301	3,575	0	30,792
Fuel Ethanol ⁵	--	30,895	--	251	-427	-1,137	28,521	3,335	0	23,311
Renewable Fuels Except Fuel Ethanol	--	3,353	--	968	-2,484	-183	1,780	240	0	7,481
Other Hydrocarbons	--	--	--	1	34	2	33	--	0	33
Unfinished Oils	--	--	--	15,179	--	-864	8,500	6,467	1,076	91,961
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	-5	--	19,245	6,782	-12,770	34,456	4,336	0	214,400
Reformulated	--	-1	--	4,929	10,502	426	14,994	10	0	51,127
Conventional	--	-4	--	14,316	-3,720	-13,196	19,462	4,326	0	163,273
Aviation Gasoline Blend. Comp.	--	--	--	--	--	-5	4	--	1	35
Finished Petroleum Products	--	96	602,502	20,931	-4,020	-4,253	--	97,761	526,002	287,500
Finished Motor Gasoline	--	96	311,587	2,956	-6,355	-2,545	--	26,420	284,409	21,652
Reformulated	--	--	100,081	--	-11,071	251	--	--	88,759	282
Conventional	--	96	211,506	2,956	4,716	-2,796	--	26,420	195,649	21,370
Finished Aviation Gasoline	--	--	352	5	--	-25	--	--	382	1,069
Kerosene-Type Jet Fuel	--	--	53,567	4,476	--	-458	--	5,535	52,966	41,552
Kerosene	--	--	94	--	--	-97	--	65	126	1,725
Distillate Fuel Oil ⁵	--	--	154,007	5,586	2,335	-3,816	--	36,944	128,801	132,435
15 ppm sulfur and under	--	--	142,933	5,242	2,335	-2,872	--	28,844	124,538	117,664
Greater than 15 ppm to 500 ppm sulfur	--	--	4,119	51	--	-143	--	4,085	228	4,134
Greater than 500 ppm sulfur	--	--	6,955	293	--	-801	--	4,014	4,035	10,637
Residual Fuel Oil ⁶	--	--	11,075	4,074	--	902	--	7,521	6,726	28,711
Less than 0.31 percent sulfur	--	--	1,754	596	--	-42	--	NA	NA	2,164
0.31 to 1.00 percent sulfur	--	--	1,393	285	--	159	--	NA	NA	4,533
Greater than 1.00 percent sulfur	--	--	7,928	3,193	--	785	--	NA	NA	22,008
Petrochemical Feedstocks	--	--	8,756	589	--	271	--	--	9,074	3,386
Naphtha for Petro. Feed. Use	--	--	6,100	476	--	134	--	--	6,442	2,424
Other Oils for Petro. Feed. Use	--	--	2,656	113	--	137	--	--	2,632	962
Special Naphthas	--	--	895	395	--	-26	--	--	1,316	1,263
Lubricants	--	--	4,393	1,395	--	-730	--	4,426	2,092	12,231
Waxes	--	--	149	192	--	2	--	121	218	690
Petroleum Coke	--	--	25,638	71	--	-85	--	15,785	10,009	7,453
Marketable	--	--	19,027	71	--	-85	--	15,785	3,398	7,453
Catalyst	--	--	6,611	--	--	--	--	--	6,611	--
Asphalt and Road Oil	--	--	9,389	1,191	--	2,314	--	884	7,382	34,667
Still Gas	--	--	19,988	--	--	--	--	--	19,988	--
Miscellaneous Products	--	--	2,612	1	--	40	--	60	2,513	666
Total	515,622	36,038	622,009	273,960	12,064	-4,211	589,698	247,869	626,337	1,898,151

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

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

Commodity	Supply					Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³	
Crude Oil⁴	1,063,322	--	--	628,910	29,916	17,515	1,457,886	246,747	0	1,108,448
Hydrocarbon Gas Liquids	419,236	-1,800	43,084	23,587	--	-25,524	53,390	142,876	313,365	162,993
Natural Gas Liquids	419,236	-1,800	18,259	21,937	--	-26,761	53,390	142,876	288,127	153,600
Ethane	168,644	--	414	--	--	340	--	24,288	144,430	49,980
Propane	135,165	--	25,315	16,536	--	-15,900	--	84,796	108,120	47,758
Normal Butane	34,993	--	-6,695	3,948	--	-10,008	21,725	18,295	2,234	27,727
Isobutane	36,210	--	-775	1,438	--	1,524	19,347	274	15,728	10,014
Natural Gasoline	44,224	-1,800	--	15	--	-2,717	12,318	15,225	17,613	18,121
Refinery Olefins	--	--	24,825	1,650	--	1,237	--	--	25,238	9,393
Ethylene	--	--	25	--	--	0	--	--	25	0
Propylene	--	--	25,233	1,170	--	891	--	--	25,512	7,837
Normal Butylene	--	--	-419	450	--	323	--	--	-292	1,398
Isobutylene	--	--	-14	30	--	23	--	--	-7	158
Other Liquids	--	108,009	--	96,140	21,927	1,406	177,469	50,295	-3,093	339,210
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	108,024	--	2,826	9,954	1,439	104,562	14,803	0	32,814
Hydrogen	--	--	--	--	19,333	--	19,333	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	7,064	--	177	-1,502	438	--	5,301	0	1,989
Renewable Fuels (including Fuel Ethanol) ...	--	100,960	--	2,641	-7,958	989	85,152	9,502	0	30,792
Fuel Ethanol ⁵	--	91,072	--	251	-2,217	-27	80,035	9,098	0	23,311
Renewable Fuels Except Fuel Ethanol	--	9,888	--	2,390	-5,741	1,016	5,117	404	0	7,481
Other Hydrocarbons	--	--	--	8	81	12	77	--	0	33
Unfinished Oils	--	--	--	43,009	--	6,105	16,149	23,843	-3,088	91,961
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	-15	--	50,305	11,974	-6,142	56,757	11,649	0	214,400
Reformulated	--	-3	--	15,839	25,859	1,026	40,635	34	0	51,127
Conventional	--	-12	--	34,466	-13,885	-7,168	16,122	11,615	0	163,273
Aviation Gasoline Blend. Comp.	--	--	--	--	--	4	1	--	-5	35
Finished Petroleum Products	--	264	1,740,918	67,383	-4,008	-6,789	--	295,840	1,515,505	287,500
Finished Motor Gasoline	--	264	885,820	5,831	-9,757	-4,080	--	79,826	806,413	21,652
Reformulated	--	--	283,911	--	-27,558	238	--	--	256,115	282
Conventional	--	264	601,909	5,831	17,801	-4,318	--	79,826	550,297	21,370
Finished Aviation Gasoline	--	--	979	88	--	113	--	--	954	1,069
Kerosene-Type Jet Fuel	--	--	155,765	11,493	--	-34	--	18,926	148,366	41,552
Kerosene	--	--	860	--	--	-870	--	349	1,381	1,725
Distillate Fuel Oil ⁵	--	--	454,073	25,242	5,748	-7,571	--	107,579	385,055	132,435
15 ppm sulfur and under	--	--	420,896	24,372	5,748	-5,932	--	83,163	373,785	117,664
Greater than 15 ppm to 500 ppm sulfur	--	--	12,607	425	--	-977	--	12,012	1,997	4,134
Greater than 500 ppm sulfur	--	--	20,570	445	--	-662	--	12,404	9,273	10,637
Residual Fuel Oil ⁶	--	--	31,973	14,421	--	397	--	21,418	24,579	28,711
Less than 0.31 percent sulfur	--	--	5,474	1,792	--	19	--	NA	NA	2,164
0.31 to 1.00 percent sulfur	--	--	4,434	1,049	--	-184	--	NA	NA	4,533
Greater than 1.00 percent sulfur	--	--	22,065	11,580	--	562	--	NA	NA	22,008
Petrochemical Feedstocks	--	--	26,153	1,544	--	-18	--	--	27,715	3,386
Naphtha for Petro. Feed. Use	--	--	17,513	1,220	--	30	--	--	18,703	2,424
Other Oils for Petro. Feed. Use	--	--	8,640	324	--	-48	--	--	9,012	962
Special Naphthas	--	--	2,738	1,038	--	-198	--	--	3,974	1,263
Lubricants	--	--	13,735	3,757	--	-1,724	--	10,924	8,292	12,231
Waxes	--	--	401	484	--	14	--	352	519	690
Petroleum Coke	--	--	75,384	326	--	-446	--	53,753	22,403	7,453
Marketable	--	--	55,809	326	--	-446	--	53,753	2,828	7,453
Catalyst	--	--	19,575	--	--	--	--	--	19,575	--
Asphalt and Road Oil	--	--	26,205	3,156	--	7,622	--	2,573	19,166	34,667
Still Gas	--	--	58,938	--	--	--	--	--	58,938	--
Miscellaneous Products	--	--	7,894	3	--	6	--	139	7,752	666
Total	1,482,558	106,473	1,784,002	816,020	47,835	-13,392	1,688,745	735,758	1,825,777	1,898,151

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

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

Commodity	Supply					Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³
Crude Oil⁴	11,905	--	--	6,759	204	245	15,939	2,684	0
Hydrocarbon Gas Liquids	4,728	-19	629	252	--	252	509	1,628	3,202
Natural Gas Liquids	4,728	-19	372	234	--	263	509	1,628	2,915
Ethane	1,900	--	6	--	--	98	--	244	1,564
Propane	1,523	--	288	174	--	88	--	911	985
Normal Butane	400	--	89	45	--	85	156	272	21
Isobutane	406	--	-10	15	--	14	220	3	173
Natural Gasoline	500	-19	--	0	--	-22	133	197	172
Refinery Olefins	--	--	257	18	--	-11	--	--	286
Ethylene	--	--	0	--	--	0	--	--	0
Propylene	--	--	261	10	--	-8	--	--	280
Normal Butylene	--	--	-5	8	--	-4	--	--	7
Isobutylene	--	--	0	--	--	1	--	--	0
Other Liquids	--	1,179	--	1,151	315	-496	2,575	531	35
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,179	--	40	96	-56	1,189	182	0
Hydrogen	--	--	--	--	210	--	210	--	0
Oxygenates (excluding Fuel Ethanol)	--	74	--	1	-21	-13	--	67	0
Renewable Fuels (including Fuel Ethanol)	--	1,105	--	39	-94	-43	977	115	0
Fuel Ethanol ⁵	--	997	--	8	-14	-37	920	108	0
Renewable Fuels Except Fuel Ethanol	--	108	--	31	-80	-6	57	8	0
Other Hydrocarbons	--	--	--	0	1	0	1	--	0
Unfinished Oils	--	--	--	490	--	-28	274	209	35
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	0	--	621	219	-412	1,111	140	0
Reformulated	--	0	--	159	339	14	484	0	0
Conventional	--	0	--	462	-120	-426	628	140	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	3	19,436	675	-130	-137	--	3,154	16,968
Finished Motor Gasoline	--	3	10,051	95	-205	-82	--	852	9,174
Reformulated	--	--	3,228	--	-357	8	--	--	2,863
Conventional	--	3	6,823	95	152	-90	--	852	6,311
Finished Aviation Gasoline	--	--	11	0	--	-1	--	--	12
Kerosene-Type Jet Fuel	--	--	1,728	144	--	-15	--	179	1,709
Kerosene	--	--	3	--	--	-3	--	2	4
Distillate Fuel Oil ⁵	--	--	4,968	180	75	-123	--	1,192	4,155
15 ppm sulfur and under	--	--	4,611	169	75	-93	--	930	4,017
Greater than 15 ppm to 500 ppm sulfur	--	--	133	2	--	-5	--	132	7
Greater than 500 ppm sulfur	--	--	224	9	--	-26	--	129	130
Residual Fuel Oil ⁶	--	--	357	131	--	29	--	243	217
Less than 0.31 percent sulfur	--	--	57	19	--	-1	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	45	9	--	5	--	NA	NA
Greater than 1.00 percent sulfur	--	--	256	103	--	25	--	NA	NA
Petrochemical Feedstocks	--	--	282	19	--	9	--	--	293
Naphtha for Petro. Feed. Use	--	--	197	15	--	4	--	--	208
Other Oils for Petro. Feed. Use	--	--	86	4	--	4	--	--	85
Special Naphthas	--	--	29	13	--	-1	--	--	42
Lubricants	--	--	142	45	--	-24	--	143	67
Waxes	--	--	5	6	--	0	--	4	7
Petroleum Coke	--	--	827	2	--	-3	--	509	323
Marketable	--	--	614	2	--	-3	--	509	110
Catalyst	--	--	213	--	--	--	--	--	213
Asphalt and Road Oil	--	--	303	38	--	75	--	29	238
Still Gas	--	--	645	--	--	--	--	--	645
Miscellaneous Products	--	--	84	0	--	1	--	2	81
Total	16,633	1,163	20,065	8,837	389	-136	19,023	7,996	20,204

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

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

Commodity	Supply					Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³
Crude Oil⁴	11,815	--	--	6,988	332	195	16,199	2,742	0
Hydrocarbon Gas Liquids	4,658	-20	479	262	--	-284	593	1,588	3,482
Natural Gas Liquids	4,658	-20	203	244	--	-297	593	1,588	3,201
Ethane	1,874	--	--	--	--	4	--	270	1,605
Propane	1,502	--	281	184	--	-177	--	942	1,201
Normal Butane	389	--	-74	44	--	-111	241	203	25
Isobutane	402	--	12	16	--	17	215	3	175
Natural Gasoline	491	-20	--	0	--	-30	137	169	196
Refinery Olefins	--	--	276	18	--	14	--	--	280
Ethylene	--	--	0	--	--	0	--	--	0
Propylene	--	--	280	13	--	10	--	--	283
Normal Butylene	--	--	-5	5	--	4	--	--	-3
Isobutylene	--	--	65	0	--	0	--	--	0
Other Liquids	--	1,200	--	1,068	244	16	1,972	559	-34
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,200	--	31	111	16	1,162	164	0
Hydrogen	--	--	--	--	215	--	215	--	0
Oxygenates (excluding Fuel Ethanol)	--	78	--	2	-17	5	--	59	0
Renewable Fuels (including Fuel Ethanol)	--	1,122	--	29	-88	11	946	106	0
Fuel Ethanol ⁵	--	1,012	--	3	-25	0	889	101	0
Renewable Fuels Except Fuel Ethanol	--	110	--	27	-64	11	57	4	0
Other Hydrocarbons	--	--	--	0	1	0	1	--	0
Unfinished Oils	--	--	--	478	--	68	179	265	-34
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	0	--	559	133	-68	631	129	0
Reformulated	--	0	--	176	287	11	452	0	0
Conventional	--	0	--	383	-154	-80	179	129	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	3	19,344	749	-45	-75	--	3,287	16,839
Finished Motor Gasoline	--	3	9,842	65	-108	-45	--	887	8,960
Reformulated	--	--	3,155	--	-306	3	--	--	2,846
Conventional	--	3	6,688	65	198	-48	--	887	6,114
Finished Aviation Gasoline	--	--	11	1	--	1	--	--	11
Kerosene-Type Jet Fuel	--	--	1,731	128	--	0	--	210	1,649
Kerosene	--	--	10	--	--	-10	--	4	15
Distillate Fuel Oil ⁵	--	--	5,045	280	64	-84	--	1,195	4,278
15 ppm sulfur and under	--	--	4,677	271	64	-66	--	924	4,153
Greater than 15 ppm to 500 ppm sulfur	--	--	140	5	--	-11	--	133	22
Greater than 500 ppm sulfur	--	--	229	5	--	-7	--	138	103
Residual Fuel Oil ⁶	--	--	355	160	--	4	--	238	273
Less than 0.31 percent sulfur	--	--	61	20	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	49	12	--	-2	--	NA	NA
Greater than 1.00 percent sulfur	--	--	245	129	--	6	--	NA	NA
Petrochemical Feedstocks	--	--	291	17	--	0	--	--	308
Naphtha for Petro. Feed. Use	--	--	195	14	--	0	--	--	208
Other Oils for Petro. Feed. Use	--	--	96	4	--	-1	--	--	100
Special Naphthas	--	--	30	12	--	-2	--	--	44
Lubricants	--	--	153	42	--	-19	--	121	92
Waxes	--	--	4	5	--	0	--	4	6
Petroleum Coke	--	--	838	4	--	-5	--	597	249
Marketable	--	--	620	4	--	-5	--	597	31
Catalyst	--	--	218	--	--	--	--	--	218
Asphalt and Road Oil	--	--	291	35	--	85	--	29	213
Still Gas	--	--	655	--	--	--	--	--	655
Miscellaneous Products	--	--	88	0	--	0	--	2	86
Total	16,473	1,183	19,822	9,067	531	-149	18,764	8,175	20,286

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

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

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	1,813	--	--	22,610	5,263	1,069	2,451	28,301	2	0	14,155
Hydrocarbon Gas Liquids	16,601	-15	606	1,780	-2,680	--	-554	1,825	3,485	11,536	6,324
Natural Gas Liquids	16,601	-15	386	1,709	-3,061	--	-493	1,825	3,485	10,803	6,178
Ethane	6,787	--	--	--	--	--	-4	--	17	436	299
Propane	5,689	--	499	1,399	3,298	--	-649	--	2,659	8,875	3,570
Normal Butane	1,776	--	-128	48	320	--	167	1,037	705	107	1,737
Isobutane	774	--	15	262	-134	--	-13	504	1	425	242
Natural Gasoline	1,575	-15	--	--	-207	--	6	284	103	960	330
Refinery Olefins	--	--	220	71	--	--	-61	--	--	733	146
Ethylene	--	--	7	--	--	--	--	--	--	7	--
Propylene	--	--	225	71	--	--	1	--	--	676	55
Normal Butylene	--	--	-36	--	--	--	-78	--	--	42	48
Isobutylene	--	--	24	--	--	--	16	--	--	8	43
Other Liquids	--	984	--	16,915	61,900	7,001	-1,674	87,546	207	721	75,292
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	987	--	333	10,092	117	229	11,128	172	0	9,534
Hydrogen	--	--	--	--	--	48	--	48	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	1	--	--	1	0	--
Renewable Fuels (including Fuel Ethanol)	--	987	--	333	10,092	69	229	11,080	171	0	9,534
Fuel Ethanol	--	794	--	--	9,630	369	-81	10,704	169	0	7,637
Renewable Fuels Except Fuel Ethanol	--	193	--	333	462	-300	310	376	2	0	1,897
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	2,087	-17	--	268	1,052	29	721	6,527
Motor Gasoline Blend.Comp. (MGBC)	--	-3	--	14,495	51,825	6,884	-2,171	75,366	6	0	59,231
Reformulated	--	--	--	3,953	7,591	3,846	351	15,035	4	0	20,867
Conventional	--	-3	--	10,542	44,234	3,038	-2,522	60,331	2	0	38,364
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	118,331	12,223	51,576	-7,008	-3,239	--	4,540	173,821	71,978
Finished Motor Gasoline	--	--	102,021	2,570	7,009	-7,253	-1,208	--	180	105,375	3,188
Reformulated	--	--	40,030	--	--	-4,117	12	--	--	35,901	26
Conventional	--	--	61,991	2,570	7,009	-3,136	-1,220	--	180	69,474	3,162
Finished Aviation Gasoline	--	--	--	1	86	--	-7	--	--	94	137
Kerosene-Type Jet Fuel	--	--	2,452	1,911	15,963	--	-1,658	--	459	21,525	8,424
Kerosene	--	--	-18	--	--	--	-47	--	52	-23	1,346
Distillate Fuel Oil ⁶	--	--	8,568	4,933	26,918	245	-1,549	--	1,603	40,610	41,188
15 ppm sulfur and under	--	--	7,661	4,685	25,201	245	-868	--	1,173	37,487	35,275
Greater than 15 ppm to 500 ppm sulfur	--	--	265	51	--	--	-176	--	300	192	1,773
Greater than 500 ppm sulfur	--	--	642	197	1,717	--	-505	--	130	2,931	4,140
Residual Fuel Oil ⁷	--	--	1,507	1,802	--	--	72	--	1,697	1,540	6,412
Less than 0.31 percent sulfur	--	--	571	--	--	--	-87	--	NA	NA	845
0.31 to 1.00 percent sulfur	--	--	568	1	--	--	-58	--	NA	NA	983
Greater than 1.00 percent sulfur	--	--	368	1,801	--	--	217	--	NA	NA	4,584
Petrochemical Feedstocks	--	--	77	10	--	--	73	--	--	14	145
Naphtha for Petro. Feed. Use	--	--	77	3	--	--	73	--	--	7	145
Other Oils for Petro. Feed. Use	--	--	--	7	--	--	--	--	--	7	--
Special Naphthas	--	--	19	--	--	--	-2	--	--	21	40
Lubricants	--	--	452	173	351	--	52	--	179	745	1,141
Waxes	--	--	16	87	--	--	-9	--	62	50	376
Petroleum Coke	--	--	593	7	635	--	--	--	219	1,016	--
Marketable	--	--	114	7	635	--	--	--	219	537	--
Catalyst	--	--	479	--	--	--	--	--	--	479	--
Asphalt and Road Oil	--	--	1,162	729	844	--	1,044	--	73	1,618	9,552
Still Gas	--	--	1,423	--	--	--	--	--	--	1,423	--
Miscellaneous Products	--	--	59	--	-231	--	0	--	15	-187	29
Total	18,414	969	118,937	53,528	116,058	1,063	-3,016	117,672	8,235	186,078	167,749

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

biodiesel, marketable petroleum coke, and asphalt and road oil

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

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

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

D.

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

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

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

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

Table 6. PAD District 1 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-March 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	5,479	--	--	60,410	14,127	3,919	2,500	81,427	8	0	14,155
Hydrocarbon Gas Liquids	47,393	-43	1,692	6,172	-4,209	--	-2,713	5,432	9,361	38,925	6,324
Natural Gas Liquids	47,393	-43	713	5,658	-5,161	--	-2,571	5,432	9,361	36,338	6,178
Ethane	19,172	--	--	--	--	--	-544	--	1,590	972	299
Propane	16,374	--	1,470	4,875	12,043	--	-2,417	--	6,282	30,897	3,570
Normal Butane	4,983	--	-769	242	1,268	--	317	3,394	734	1,279	1,737
Isobutane	2,322	--	12	541	-573	--	48	1,327	3	924	242
Natural Gasoline	4,542	-43	--	--	-745	--	25	711	752	2,266	330
Refinery Olefins	--	--	979	514	--	--	-142	--	--	2,587	146
Ethylene	--	--	25	--	--	--	--	--	--	25	--
Propylene	--	--	943	514	--	--	-66	--	--	2,475	55
Normal Butylene	--	--	-54	--	--	--	-59	--	--	5	48
Isobutylene	--	--	65	--	--	--	-17	--	--	82	43
Other Liquids	--	2,802	--	47,027	179,126	19,106	2,957	244,484	392	228	75,292
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	2,811	--	620	28,859	618	1,418	31,196	294	0	9,534
Hydrogen	--	--	--	--	--	257	--	257	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	4	--	--	4	0	--
Renewable Fuels (including Fuel Ethanol)	--	2,811	--	620	28,859	357	1,418	30,939	290	0	9,534
Fuel Ethanol	--	2,175	--	--	27,699	1,143	1,056	29,684	277	0	7,637
Renewable Fuels Except Fuel Ethanol	--	636	--	620	1,160	-786	362	1,255	13	0	1,897
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	4,843	193	--	1,322	3,407	79	228	6,527
Motor Gasoline Blend.Comp. (MGBC)	--	-9	--	41,564	150,074	18,488	217	209,881	19	0	59,231
Reformulated	--	--	--	14,538	23,609	8,629	2,035	44,736	5	0	20,867
Conventional	--	-9	--	27,026	126,465	9,858	-1,818	165,145	13	0	38,364
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	333,314	42,247	152,258	-18,900	-1,096	--	11,196	498,819	71,978
Finished Motor Gasoline	--	--	285,195	4,317	21,659	-19,631	-692	--	1,108	291,124	3,188
Reformulated	--	--	113,570	--	--	-9,182	-4	--	--	104,392	26
Conventional	--	--	171,625	4,317	21,659	-10,449	-688	--	1,108	186,733	3,162
Finished Aviation Gasoline	--	--	--	21	239	--	7	--	--	253	137
Kerosene-Type Jet Fuel	--	--	7,990	4,887	44,573	--	548	--	1,280	55,622	8,424
Kerosene	--	--	52	--	441	--	-706	--	175	1,024	1,346
Distillate Fuel Oil ⁶	--	--	25,727	23,136	80,916	731	-3,684	--	3,104	131,090	41,188
15 ppm sulfur and under	--	--	22,526	22,482	76,819	731	-2,403	--	2,286	122,675	35,275
Greater than 15 ppm to 500 ppm sulfur	--	--	904	425	86	--	-829	--	681	1,563	1,773
Greater than 500 ppm sulfur	--	--	2,297	229	4,011	--	-452	--	137	6,852	4,140
Residual Fuel Oil ⁷	--	--	3,711	7,098	-347	--	379	--	2,917	7,166	6,412
Less than 0.31 percent sulfur	--	--	1,166	380	--	--	-56	--	NA	NA	845
0.31 to 1.00 percent sulfur	--	--	1,198	304	--	--	-446	--	NA	NA	983
Greater than 1.00 percent sulfur	--	--	1,347	6,414	-347	--	881	--	NA	NA	4,584
Petrochemical Feedstocks	--	--	153	12	-255	--	65	--	--	-155	145
Naphtha for Petro. Feed. Use	--	--	153	3	--	--	65	--	--	91	145
Other Oils for Petro. Feed. Use	--	--	--	9	-255	--	--	--	--	-246	--
Special Naphthas	--	--	53	1	--	--	-3	--	--	57	40
Lubricants	--	--	1,147	499	1,018	--	-160	--	680	2,144	1,141
Waxes	--	--	28	240	--	--	0	--	174	94	376
Petroleum Coke	--	--	2,307	17	1,453	--	--	--	1,510	2,267	--
Marketable	--	--	806	17	1,453	--	--	--	1,510	766	--
Catalyst	--	--	1,501	--	--	--	--	--	--	1,501	--
Asphalt and Road Oil	--	--	2,834	2,019	2,792	--	3,155	--	211	4,278	9,552
Still Gas	--	--	3,899	--	--	--	--	--	--	3,899	--
Miscellaneous Products	--	--	218	--	-231	--	-5	--	37	-45	29
Total	52,872	2,759	335,006	155,856	341,301	4,125	1,648	331,343	20,956	537,972	167,749

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

biodiesel, marketable petroleum coke, and asphalt and road oil

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

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

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

D.

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

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

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

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

Table 7. PAD District 1 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, March 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	58	--	--	729	170	34	79	913	0	0
Hydrocarbon Gas Liquids	536	0	20	57	-86	--	-18	59	112	372
Natural Gas Liquids	536	0	12	55	-99	--	-16	59	112	348
Ethane	219	--	--	--	--	--	0	--	1	14
Propane	184	--	16	45	106	--	-21	--	--	286
Normal Butane	57	--	-4	2	10	--	5	33	23	3
Isobutane	25	--	0	8	-4	--	0	16	0	14
Natural Gasoline	51	0	--	--	-7	--	0	9	3	31
Refinery Olefins	--	--	7	2	--	--	-2	--	--	24
Ethylene	--	--	0	--	--	--	--	--	--	0
Propylene	--	--	7	2	12	--	0	--	--	22
Normal Butylene	--	--	-1	--	--	--	-3	--	--	1
Isobutylene	--	--	1	--	--	--	1	--	--	0
Other Liquids	--	32	--	546	1,997	226	-54	2,824	7	23
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	32	--	11	326	4	7	359	6	0
Hydrogen	--	--	--	--	--	2	--	2	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	32	--	11	326	2	7	357	6	0
Fuel Ethanol ⁶	--	26	--	--	311	12	-3	345	5	0
Renewable Fuels Except Fuel Ethanol	--	6	--	11	15	-10	10	12	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	67	-1	--	9	34	1	23
Motor Gasoline Blend.Comp. (MGBC) ⁶	--	0	--	468	1,672	222	-70	2,431	0	0
Reformulated	--	--	--	128	245	124	11	485	0	0
Conventional	--	0	--	340	1,427	98	-81	1,946	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,817	394	1,664	-226	-104	--	146	5,607
Finished Motor Gasoline	--	--	3,291	83	226	-234	-39	--	6	3,399
Reformulated	--	--	1,291	--	--	-133	0	--	--	1,158
Conventional	--	--	2,000	83	226	-101	-39	--	6	2,241
Finished Aviation Gasoline	--	--	--	0	3	--	0	--	--	3
Kerosene-Type Jet Fuel	--	--	79	62	515	--	-53	--	15	694
Kerosene	--	--	-1	--	--	--	-2	--	2	-1
Distillate Fuel Oil ⁶	--	--	276	159	868	8	-50	--	52	1,310
15 ppm sulfur and under	--	--	247	151	813	8	-28	--	38	1,209
Greater than 15 ppm to 500 ppm sulfur	--	--	9	2	--	--	-6	--	10	6
Greater than 500 ppm sulfur	--	--	21	6	55	--	-16	--	4	95
Residual Fuel Oil ⁷	--	--	49	58	--	--	2	--	55	50
Less than 0.31 percent sulfur	--	--	18	--	--	--	-3	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	18	0	--	--	-2	--	NA	NA
Greater than 1.00 percent sulfur	--	--	12	58	--	--	7	--	NA	NA
Petrochemical Feedstocks	--	--	2	0	--	--	2	--	--	0
Naphtha for Petro. Feed. Use	--	--	2	0	--	--	2	--	--	0
Other Oils for Petro. Feed. Use	--	--	--	0	--	--	--	--	--	0
Special Naphthas	--	--	1	--	--	--	0	--	--	1
Lubricants	--	--	15	6	11	--	2	--	6	24
Waxes	--	--	1	3	--	--	0	--	2	2
Petroleum Coke	--	--	19	0	20	--	--	--	7	33
Marketable	--	--	4	0	20	--	--	--	7	17
Catalyst	--	--	15	--	--	--	--	--	--	15
Asphalt and Road Oil	--	--	37	24	27	--	34	--	2	52
Still Gas	--	--	46	--	--	--	--	--	--	46
Miscellaneous Products	--	--	2	--	-7	--	0	--	0	-6
Total	594	31	3,837	1,727	3,744	34	-97	3,796	266	6,003

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

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

Table 8. PAD District 1 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-March 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	61	--	--	671	157	44	28	905	0	0
Hydrocarbon Gas Liquids	527	0	19	69	-47	--	-30	60	104	433
Natural Gas Liquids	527	0	8	63	-57	--	-29	60	104	404
Ethane	213	--	--	--	--	--	-6	--	18	11
Propane	182	--	16	54	134	--	-27	--	--	343
Normal Butane	55	--	-9	3	14	--	4	38	8	14
Isobutane	26	--	0	6	-6	--	1	15	0	10
Natural Gasoline	50	0	--	--	-8	--	0	8	8	25
Refinery Olefins	--	--	11	6	--	--	-2	--	--	29
Ethylene	--	--	0	--	--	--	--	--	--	0
Propylene	--	--	10	6	11	--	-1	--	--	28
Normal Butylene	--	--	-1	--	--	--	-1	--	--	0
Isobutylene	--	--	1	--	--	--	0	--	--	1
Other Liquids	--	31	--	523	1,990	212	33	2,716	4	3
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	31	--	7	321	7	16	347	3	0
Hydrogen	--	--	--	--	--	3	--	3	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	31	--	7	321	4	16	344	3	0
Fuel Ethanol ⁶	--	24	--	--	308	13	12	330	3	0
Renewable Fuels Except Fuel Ethanol	--	7	--	7	13	-9	4	14	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	54	2	--	15	38	1	3
Motor Gasoline Blend.Comp. (MGBC) ⁶	--	0	--	462	1,667	205	2	2,332	0	0
Reformulated	--	--	--	162	262	96	23	497	0	0
Conventional	--	0	--	300	1,405	110	-20	1,835	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,703	469	1,692	-210	-12	--	124	5,542
Finished Motor Gasoline	--	--	3,169	48	241	-218	-8	--	12	3,235
Reformulated	--	--	1,262	--	--	-102	0	--	--	1,160
Conventional	--	--	1,907	48	241	-116	-8	--	12	2,075
Finished Aviation Gasoline	--	--	--	0	3	--	0	--	--	3
Kerosene-Type Jet Fuel	--	--	89	54	495	--	6	--	14	618
Kerosene	--	--	1	--	5	--	-8	--	2	11
Distillate Fuel Oil ⁶	--	--	286	257	899	8	-41	--	34	1,457
15 ppm sulfur and under	--	--	250	250	854	8	-27	--	25	1,363
Greater than 15 ppm to 500 ppm sulfur	--	--	10	5	1	--	-9	--	8	17
Greater than 500 ppm sulfur	--	--	26	3	45	--	-5	--	2	76
Residual Fuel Oil ⁷	--	--	41	79	-4	--	4	--	32	80
Less than 0.31 percent sulfur	--	--	13	4	--	--	-1	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	13	3	--	--	-5	--	NA	NA
Greater than 1.00 percent sulfur	--	--	15	71	-4	--	10	--	NA	NA
Petrochemical Feedstocks	--	--	2	0	-3	--	1	--	--	-2
Naphtha for Petro. Feed. Use	--	--	2	0	--	--	1	--	--	1
Other Oils for Petro. Feed. Use	--	--	--	0	-3	--	--	--	--	-3
Special Naphthas	--	--	1	0	--	--	0	--	--	1
Lubricants	--	--	13	6	11	--	-2	--	8	24
Waxes	--	--	0	3	--	--	0	--	2	1
Petroleum Coke	--	--	26	0	16	--	--	--	17	25
Marketable	--	--	9	0	16	--	--	--	17	9
Catalyst	--	--	17	--	--	--	--	--	--	17
Asphalt and Road Oil	--	--	31	22	31	--	35	--	2	48
Still Gas	--	--	43	--	--	--	--	--	--	43
Miscellaneous Products	--	--	2	--	-3	--	0	--	0	0
Total	587	31	3,722	1,732	3,792	46	18	3,682	233	5,977

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

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

Table 9. PAD District 2 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, March 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	66,886	--	--	85,927	-34,467	-3,635	483	109,578	4,650	0	137,869
Hydrocarbon Gas Liquids	31,109	-550	3,090	3,417	-11,654	--	-2,795	2,646	7,461	18,100	33,719
Natural Gas Liquids	31,109	-550	1,800	3,028	-10,826	--	-2,886	2,646	7,461	17,340	33,283
Ethane	11,066	--	--	--	--	--	-270	--	2,461	4,528	5,539
Propane	11,107	--	2,247	2,242	-6,981	--	-1,450	--	89	9,976	9,590
Normal Butane	3,764	--	-273	641	-2,498	--	25	513	152	944	6,398
Isobutane	1,841	--	-174	141	-4	--	-211	1,532	0	483	2,082
Natural Gasoline	3,331	-550	--	4	3,004	--	-980	601	4,758	1,410	9,674
Refinery Olefins	--	--	1,290	389	--	--	91	--	--	760	436
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	1,254	252	--	--	63	--	--	615	298
Normal Butylene	--	--	21	137	--	--	13	--	--	145	23
Isobutylene	--	--	15	--	--	--	15	--	--	0	115
Other Liquids	--	31,039	--	628	-12,317	-3,677	-4,371	19,393	2,301	-1,649	72,046
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	31,041	--	89	-19,863	-1,607	-82	9,134	609	0	10,355
Hydrogen	--	--	--	--	--	1,184	--	1,184	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	1	0	--	1	0	3
Renewable Fuels (including Fuel Ethanol)	--	31,041	--	89	-19,863	-2,827	-84	7,917	607	0	10,319
Fuel Ethanol	--	28,736	--	--	-18,888	-1,813	8	7,525	502	0	9,178
Renewable Fuels Except Fuel Ethanol	--	2,305	--	89	-976	-1,014	-92	392	105	0	1,141
Other Hydrocarbons	--	--	--	--	--	35	2	33	--	0	33
Unfinished Oils	--	--	--	207	-357	--	112	-272	1,659	-1,649	13,944
Motor Gasoline Blend.Comp. (MGBC)	--	-2	--	332	7,903	-2,070	-4,401	10,531	33	0	47,747
Reformulated	--	-1	--	--	1,164	147	-220	1,530	--	0	5,769
Conventional	--	-1	--	332	6,739	-2,217	-4,181	9,001	33	0	41,978
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	96	135,434	992	3,863	4,972	2,571	--	882	141,904	67,659
Finished Motor Gasoline	--	96	78,204	--	120	3,883	-213	--	160	82,357	6,110
Reformulated	--	--	11,185	--	--	149	--	--	--	11,334	--
Conventional	--	96	67,019	--	120	3,734	-213	--	160	71,022	6,110
Finished Aviation Gasoline	--	--	30	2	9	--	-22	--	--	63	199
Kerosene-Type Jet Fuel	--	--	7,752	--	1,300	--	-142	--	116	9,078	7,529
Kerosene	--	--	105	--	--	--	0	--	1	104	126
Distillate Fuel Oil	--	--	32,589	351	4,742	1,089	1,835	--	188	36,748	34,914
15 ppm sulfur and under	--	--	32,404	256	4,605	1,089	1,570	--	1	36,783	33,882
Greater than 15 ppm to 500 ppm sulfur	--	--	230	--	137	--	228	--	127	12	554
Greater than 500 ppm sulfur	--	--	-45	95	--	--	37	--	60	-47	478
Residual Fuel Oil ⁶	--	--	1,299	50	-679	--	2	--	108	560	1,347
Less than 0.31 percent sulfur	--	--	68	--	-67	--	33	--	NA	NA	82
0.31 to 1.00 percent sulfur	--	--	224	50	-40	--	-67	--	NA	NA	269
Greater than 1.00 percent sulfur	--	--	1,007	--	-572	--	36	--	NA	NA	996
Petrochemical Feedstocks	--	--	946	186	-46	--	28	--	--	1,058	482
Naphtha for Petro. Feed. Use	--	--	631	80	-46	--	55	--	--	610	389
Other Oils for Petro. Feed. Use	--	--	315	106	--	--	-27	--	--	448	93
Special Naphthas	--	--	-39	6	--	--	11	--	--	-44	118
Lubricants	--	--	208	121	128	--	-55	--	191	321	651
Waxes	--	--	36	2	--	--	6	--	30	2	43
Petroleum Coke	--	--	5,623	33	-979	--	336	--	56	4,285	1,957
Marketable	--	--	4,136	33	-979	--	336	--	56	2,798	1,957
Catalyst	--	--	1,487	--	--	--	--	--	--	1,487	--
Asphalt and Road Oil	--	--	4,067	241	-731	--	775	--	29	2,773	14,063
Still Gas	--	--	4,131	--	--	--	--	--	--	4,131	--
Miscellaneous Products	--	--	483	--	--	--	10	--	4	469	120
Total	97,995	30,585	138,524	90,964	-54,575	-2,340	-4,112	131,617	15,293	158,356	311,293

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

biodiesel, marketable petroleum coke, and asphalt and road oil

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

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

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

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

Table 10. PAD District 2 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-March 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	192,512	--	--	253,137	-73,783	-21,566	5,767	328,565	15,969	0	137,869
Hydrocarbon Gas Liquids	90,104	-1,664	5,076	9,646	-26,054	--	-16,312	9,035	22,010	62,375	33,719
Natural Gas Liquids	90,104	-1,664	1,315	8,746	-24,039	--	-16,319	9,035	22,010	59,736	33,283
Ethane	31,906	--	--	--	--	--	348	--	7,748	13,349	5,539
Propane	32,198	--	6,504	6,743	-19,808	--	-11,069	--	279	36,427	9,590
Normal Butane	10,889	--	-54	1,425	-6,555	--	-4,991	2,529	994	2,375	6,398
Isobutane	5,431	--	-321	563	53	--	130	4,380	3	1,213	2,082
Natural Gasoline	9,680	-1,664	--	15	12,732	--	-737	2,126	13,003	6,371	9,674
Refinery Olefins	--	--	3,761	900	--	--	7	--	--	2,639	436
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	3,652	656	--	--	-57	--	--	2,350	298
Normal Butylene	--	--	64	214	--	--	19	--	--	259	23
Isobutylene	--	--	45	--	--	--	45	--	--	30	115
Other Liquids	--	91,415	--	1,679	-43,704	-7,375	96	40,316	6,386	-4,782	72,046
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	91,421	--	265	-60,053	-3,810	734	25,625	1,465	0	10,355
Hydrogen	--	--	--	--	--	3,400	--	3,400	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	4	-1	--	5	0	3
Renewable Fuels (including Fuel Ethanol)	--	91,421	--	265	-60,053	-7,302	723	22,148	1,461	0	10,319
Fuel Ethanol	--	84,823	--	--	-57,462	-4,416	499	21,133	1,313	0	9,178
Renewable Fuels Except Fuel Ethanol	--	6,598	--	265	-2,590	-2,886	224	1,015	148	0	1,141
Other Hydrocarbons	--	--	--	--	--	89	12	77	--	0	33
Unfinished Oils	--	--	--	354	-650	--	1,200	-1,499	4,785	-4,782	13,944
Motor Gasoline Blend.Comp. (MGBC)	--	-6	--	1,060	16,999	-3,566	-1,838	16,190	135	0	47,747
Reformulated	--	-3	--	--	3,095	527	-420	4,039	--	0	5,769
Conventional	--	-3	--	1,060	13,904	-4,093	-1,418	12,151	135	0	41,978
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	264	393,206	2,676	2,481	10,953	3,608	--	2,424	403,548	67,659
Finished Motor Gasoline	--	264	221,264	--	-787	7,981	-394	--	311	228,806	6,110
Reformulated	--	--	31,571	--	--	36	--	--	--	31,607	--
Conventional	--	264	189,693	--	-787	7,945	-394	--	311	197,198	6,110
Finished Aviation Gasoline	--	--	116	6	28	--	33	--	--	117	199
Kerosene-Type Jet Fuel	--	--	22,608	--	3,034	--	-8	--	195	25,455	7,529
Kerosene	--	--	540	--	20	--	-155	--	2	713	126
Distillate Fuel Oil	--	--	100,018	899	6,788	2,971	1,261	--	364	109,052	34,914
15 ppm sulfur and under	--	--	99,802	686	6,393	2,971	948	--	2	108,903	33,882
Greater than 15 ppm to 500 ppm sulfur	--	--	419	--	395	--	172	--	203	439	554
Greater than 500 ppm sulfur	--	--	-203	213	--	--	141	--	159	-290	478
Residual Fuel Oil ⁶	--	--	3,972	243	-2,336	--	67	--	446	1,366	1,347
Less than 0.31 percent sulfur	--	--	188	--	-133	--	25	--	NA	NA	82
0.31 to 1.00 percent sulfur	--	--	666	104	-75	--	-5	--	NA	NA	269
Greater than 1.00 percent sulfur	--	--	3,118	139	-2,128	--	47	--	NA	NA	996
Petrochemical Feedstocks	--	--	2,708	491	-258	--	-83	--	--	3,024	482
Naphtha for Petro. Feed. Use	--	--	1,789	245	-188	--	-38	--	--	1,884	389
Other Oils for Petro. Feed. Use	--	--	919	246	-70	--	-45	--	--	1,140	93
Special Naphthas	--	--	36	16	58	--	-65	--	--	175	118
Lubricants	--	--	469	342	429	--	-176	--	528	888	651
Waxes	--	--	80	16	--	--	15	--	94	-13	43
Petroleum Coke	--	--	16,343	91	-2,690	--	619	--	140	12,985	1,957
Marketable	--	--	12,033	91	-2,690	--	619	--	140	8,675	1,957
Catalyst	--	--	4,310	--	--	--	--	--	--	4,310	--
Asphalt and Road Oil	--	--	11,353	572	-1,804	--	2,491	--	333	7,296	14,063
Still Gas	--	--	12,314	--	--	--	--	--	--	12,314	--
Miscellaneous Products	--	--	1,385	--	--	--	3	--	12	1,370	120
Total	282,616	90,015	398,282	267,138	-141,059	-17,988	-6,841	377,916	46,789	461,141	311,293

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

biodiesel, marketable petroleum coke, and asphalt and road oil

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

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

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change for sulfur content exclude pipeline stocks. Therefore, the sum of residual

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

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

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

Table 11. PAD District 2 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, March 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	2,158	--	--	2,772	-1,112	-117	16	3,535	150	0
Hydrocarbon Gas Liquids	1,004	-18	100	110	-376	--	-90	85	241	584
Natural Gas Liquids	1,004	-18	58	98	-349	--	-93	85	241	559
Ethane	357	--	--	--	--	--	-9	--	79	146
Propane	358	--	72	72	-225	--	-47	--	3	322
Normal Butane	121	--	2,422	21	-81	--	1	17	5	30
Isobutane	59	--	-6	5	0	--	-7	49	0	16
Natural Gasoline	107	-18	--	0	97	--	-32	19	153	45
Refinery Olefins	--	--	42	13	--	--	3	--	--	25
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	40	8	-27	--	2	--	--	20
Normal Butylene	--	--	1	4	--	--	0	--	--	5
Isobutylene	--	--	0	--	--	--	0	--	--	0
Other Liquids	--	1,001	--	20	-397	-119	-141	626	74	-53
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,001	--	3	-641	-52	-3	295	20	0
Hydrogen	--	--	--	--	--	38	--	38	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	0	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	1,001	--	3	-641	-91	-3	255	20	0
Fuel Ethanol	--	927	--	--	-609	-58	0	243	16	0
Renewable Fuels Except Fuel Ethanol	--	74	--	3	-31	-33	-3	13	3	0
Other Hydrocarbons	--	--	--	--	--	1	0	1	--	0
Unfinished Oils	--	--	--	7	-12	--	4	-9	54	-53
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	11	255	-67	-142	340	1	0
Reformulated	--	0	--	--	38	5	-7	49	--	0
Conventional	--	0	--	11	217	-72	-135	290	1	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	3	4,369	32	125	160	83	--	28	4,578
Finished Motor Gasoline	--	3	2,523	--	4	125	-7	--	5	2,657
Reformulated	--	--	361	--	--	5	--	--	--	366
Conventional	--	3	2,162	--	4	120	-7	--	5	2,291
Finished Aviation Gasoline	--	--	1	0	0	--	-1	--	--	2
Kerosene-Type Jet Fuel	--	--	250	--	42	--	-5	--	4	293
Kerosene	--	--	3	--	--	--	0	--	0	3
Distillate Fuel Oil	--	--	1,051	11	153	35	59	--	6	1,185
15 ppm sulfur and under	--	--	1,045	8	149	35	51	--	0	1,187
Greater than 15 ppm to 500 ppm sulfur	--	--	7	--	4	--	7	--	4	0
Greater than 500 ppm sulfur	--	--	-1	3	--	--	1	--	2	-2
Residual Fuel Oil ⁶	--	--	42	2	-22	--	0	--	3	18
Less than 0.31 percent sulfur	--	--	2	--	-2	--	1	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	7	2	-1	--	-2	--	NA	NA
Greater than 1.00 percent sulfur	--	--	32	--	-18	--	1	--	NA	NA
Petrochemical Feedstocks	--	--	31	6	-1	--	1	--	--	34
Naphtha for Petro. Feed. Use	--	--	20	3	-1	--	2	--	--	20
Other Oils for Petro. Feed. Use	--	--	10	3	--	--	-1	--	--	14
Special Naphthas	--	--	-1	0	--	--	0	--	--	-1
Lubricants	--	--	7	4	4	--	-2	--	6	10
Waxes	--	--	1	0	--	--	0	--	1	0
Petroleum Coke	--	--	181	1	-32	--	11	--	2	138
Marketable	--	--	133	1	-32	--	11	--	2	90
Catalyst	--	--	48	--	--	--	--	--	--	48
Asphalt and Road Oil	--	--	131	8	-24	--	25	--	1	89
Still Gas	--	--	133	--	--	--	--	--	--	133
Miscellaneous Products	--	--	16	--	--	--	0	--	0	15
Total	3,161	987	4,469	2,934	-1,760	-75	-133	4,246	493	5,108

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

Table 12. PAD District 2 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-March 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	2,139	--	--	2,813	-820	-240	64	3,651	177	0
Hydrocarbon Gas Liquids	1,001	-18	56	107	-289	--	-181	100	245	693
Natural Gas Liquids	1,001	-18	15	97	-267	--	-181	100	245	664
Ethane	355	--	--	--	--	--	4	--	86	148
Propane	358	--	72	75	-220	--	-123	--	3	405
Normal Butane	121	--	-54	16	-73	--	-55	28	11	26
Isobutane	60	--	-4	6	1	--	1	49	0	13
Natural Gasoline	108	-18	--	0	141	--	-8	24	144	71
Refinery Olefins	--	--	42	10	--	--	0	--	--	29
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	41	7	-22	--	-1	--	--	26
Normal Butylene	--	--	1	2	--	--	0	--	--	3
Isobutylene	--	--	1	--	--	--	1	--	--	0
Other Liquids	--	1,016	--	19	-486	-82	1	448	71	-53
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,016	--	3	-667	-42	8	285	16	0
Hydrogen	--	--	--	--	--	38	--	38	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	0	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	1,016	--	3	-667	-81	8	246	16	0
Fuel Ethanol	--	942	--	--	-638	-49	6	235	15	0
Renewable Fuels Except Fuel Ethanol	--	73	--	3	-29	-32	2	11	2	0
Other Hydrocarbons	--	--	--	--	--	1	0	1	--	0
Unfinished Oils	--	--	--	4	-7	--	13	-17	53	-53
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	12	189	-40	-20	180	2	0
Reformulated	--	0	--	--	34	6	-5	45	--	0
Conventional	--	0	--	12	154	-45	-16	135	2	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	3	4,369	30	28	122	40	--	27	4,484
Finished Motor Gasoline	--	3	2,458	--	-9	89	-4	--	3	2,542
Reformulated	--	--	351	--	--	0	--	--	--	351
Conventional	--	3	2,108	--	-9	88	-4	--	3	2,191
Finished Aviation Gasoline	--	--	1	0	0	--	0	--	--	1
Kerosene-Type Jet Fuel	--	--	251	--	34	--	0	--	2	283
Kerosene	--	--	6	--	0	--	-2	--	0	8
Distillate Fuel Oil	--	--	1,111	10	75	33	14	--	4	1,212
15 ppm sulfur and under	--	--	1,109	8	71	33	11	--	0	1,210
Greater than 15 ppm to 500 ppm sulfur	--	--	5	--	4	--	2	--	2	5
Greater than 500 ppm sulfur	--	--	-2	2	--	--	2	--	2	-3
Residual Fuel Oil ⁶	--	--	44	3	-26	--	1	--	5	15
Less than 0.31 percent sulfur	--	--	2	--	-1	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	7	1	-1	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	35	2	-24	--	1	--	NA	NA
Petrochemical Feedstocks	--	--	30	5	-3	--	-1	--	--	34
Naphtha for Petro. Feed. Use	--	--	20	3	-2	--	0	--	--	21
Other Oils for Petro. Feed. Use	--	--	10	3	-1	--	-1	--	--	13
Special Naphthas	--	--	0	0	1	--	-1	--	--	2
Lubricants	--	--	5	4	5	--	-2	--	6	10
Waxes	--	--	1	0	--	--	0	--	1	0
Petroleum Coke	--	--	182	1	-30	--	7	--	2	144
Marketable	--	--	134	1	-30	--	7	--	2	96
Catalyst	--	--	48	--	--	--	--	--	--	48
Asphalt and Road Oil	--	--	126	6	-20	--	28	--	4	81
Still Gas	--	--	137	--	--	--	--	--	--	137
Miscellaneous Products	--	--	15	--	--	--	0	--	0	15
Total	3,140	1,000	4,425	2,968	-1,567	-200	-76	4,199	520	5,124

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

Table 13. PAD District 3 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, March 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	243,342	--	--	54,407	40,935	8,656	4,518	264,279	78,542	0	883,940
Hydrocarbon Gas Liquids	83,055	-11	13,359	100	24,694	--	10,689	8,383	36,870	65,255	117,434
Natural Gas Liquids	83,055	-11	7,125	--	24,247	--	10,969	8,383	36,870	58,194	108,668
Ethane	36,864	--	182	--	--	--	3,298	--	5,093	43,104	43,599
Propane	25,178	--	4,861	--	6,871	--	4,733	--	24,587	7,590	32,983
Normal Butane	4,562	--	2,422	--	3,475	--	2,093	2,283	7,067	-984	17,532
Isobutane	8,662	--	-340	--	836	--	549	3,808	102	4,699	6,848
Natural Gasoline	7,789	-11	--	--	-1,384	--	296	2,292	21	3,785	7,706
Refinery Olefins	--	--	6,234	100	--	--	-280	--	--	7,061	8,766
Ethylene	--	--	--	--	--	--	0	--	--	0	0
Propylene	--	--	6,408	--	--	--	-306	--	--	7,161	7,470
Normal Butylene	--	--	-146	100	--	--	26	--	--	-72	1,296
Isobutylene	--	--	-28	--	--	--	0	--	--	-28	0
Other Liquids	--	3,422	--	13,529	-59,188	8,224	-7,194	-42,785	13,510	2,456	130,726
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	3,422	--	26	4,980	3,572	-1,377	8,696	4,681	0	8,323
Hydrogen	--	--	--	--	--	3,747	--	3,747	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	2,294	--	25	--	-655	-413	--	2,077	0	1,986
Renewable Fuels (including Fuel Ethanol)	--	1,128	--	--	4,980	482	-964	4,949	2,605	0	6,337
Fuel Ethanol	--	478	--	--	4,788	1,236	-613	4,589	2,526	0	4,123
Renewable Fuels Except Fuel Ethanol	--	650	--	--	192	-754	-351	360	79	0	2,214
Other Hydrocarbons	--	--	--	1	--	-1	--	--	--	0	--
Unfinished Oils	--	--	--	10,982	374	--	-678	5,045	4,534	2,455	48,852
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	2,521	-64,542	4,652	-5,134	-56,530	4,295	0	73,516
Reformulated	--	--	--	325	-11,106	5,945	-296	-4,545	5	0	10,898
Conventional	--	--	--	2,196	-53,436	-1,294	-4,838	-51,985	4,289	0	62,618
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	-5	4	--	1	35
Finished Petroleum Products	--	--	233,972	3,546	-56,832	-5,013	-4,163	--	80,450	99,386	102,167
Finished Motor Gasoline	--	--	73,104	--	-6,927	-5,888	-534	--	24,161	36,662	9,015
Reformulated	--	--	14,560	--	--	-6,651	238	--	--	7,671	238
Conventional	--	--	58,544	--	-6,927	763	-772	--	24,161	28,991	8,777
Finished Aviation Gasoline	--	--	314	--	-95	--	24	--	--	195	575
Kerosene-Type Jet Fuel	--	--	28,087	--	-18,299	--	1,031	--	4,111	4,646	14,873
Kerosene	--	--	-10	--	--	--	-40	--	9	21	227
Distillate Fuel Oil	--	--	87,665	38	-32,384	874	-3,984	--	30,171	30,006	38,633
15 ppm sulfur and under	--	--	78,532	38	-30,530	874	-3,496	--	23,196	29,214	31,917
Greater than 15 ppm to 500 ppm sulfur	--	--	3,238	--	-137	--	-167	--	3,158	110	1,458
Greater than 500 ppm sulfur	--	--	5,895	--	-1,717	--	-321	--	3,817	682	5,258
Residual Fuel Oil ⁷	--	--	4,555	1,597	679	--	16	--	5,127	1,688	15,499
Less than 0.31 percent sulfur	--	--	910	596	67	--	210	--	NA	NA	1,089
0.31 to 1.00 percent sulfur	--	--	389	57	40	--	168	--	NA	NA	2,760
Greater than 1.00 percent sulfur	--	--	3,256	944	572	--	-362	--	NA	NA	11,650
Petrochemical Feedstocks	--	--	7,729	371	46	--	170	--	--	7,976	2,755
Naphtha for Petro. Feed. Use	--	--	5,388	371	46	--	6	--	--	5,799	1,886
Other Oils for Petro. Feed. Use	--	--	2,341	--	--	--	164	--	--	2,177	869
Special Naphthas	--	--	916	389	--	--	-15	--	--	1,320	1,079
Lubricants	--	--	3,333	1,093	-437	--	-610	--	3,765	834	9,435
Waxes	--	--	97	58	--	--	5	--	23	127	271
Petroleum Coke	--	--	13,836	--	519	--	-531	--	12,307	2,579	3,821
Marketable	--	--	10,366	--	519	--	-531	--	12,307	-891	3,821
Catalyst	--	--	3,470	--	--	--	--	--	--	3,470	--
Asphalt and Road Oil	--	--	2,582	--	-165	--	276	--	735	1,406	5,578
Still Gas	--	--	10,208	--	--	--	--	--	--	10,208	--
Miscellaneous Products	--	--	1,556	--	231	--	29	--	39	1,719	406
Total	326,397	3,411	247,331	71,582	-50,391	11,866	3,850	229,877	209,372	167,097	1,234,267

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

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

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

Table 14. PAD District 3 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-March 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	697,440	--	--	168,998	99,705	47,353	3,450	779,277	230,769	0	883,940
Hydrocarbon Gas Liquids	236,886	-30	32,547	236	59,803	--	-4,996	29,020	106,405	199,013	117,434
Natural Gas Liquids	236,886	-30	13,318	--	58,740	--	-6,410	29,020	106,405	179,899	108,668
Ethane	105,559	--	414	--	--	--	458	--	14,949	129,443	43,599
Propane	71,748	--	13,807	--	17,188	--	-1,220	--	75,662	28,301	32,983
Normal Butane	12,654	--	-14	--	8,080	--	-4,793	11,276	15,437	-1,200	17,532
Isobutane	24,876	--	-889	--	2,527	--	1,175	11,053	265	14,021	6,848
Natural Gasoline	22,049	-30	--	--	-7,932	--	-2,030	6,691	93	9,333	7,706
Refinery Olefins	--	--	19,229	236	--	--	1,414	--	--	19,114	8,766
Ethylene	--	--	--	--	--	--	0	--	--	0	0
Propylene	--	--	19,943	--	--	--	1,013	--	--	19,993	7,470
Normal Butylene	--	--	-611	236	--	--	401	--	--	-776	1,296
Isobutylene	--	--	-103	--	--	--	0	--	--	-103	0
Other Liquids	--	10,360	--	37,888	-163,235	15,420	-1,438	-140,579	42,231	218	130,726
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	10,360	--	242	17,579	10,117	113	25,737	12,448	0	8,323
Hydrogen	--	--	--	--	--	11,664	--	11,664	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	7,064	--	177	--	-1,511	439	--	5,291	0	1,986
Renewable Fuels (including Fuel Ethanol)	--	3,296	--	57	17,579	-28	-326	14,073	7,157	0	6,337
Fuel Ethanol	--	1,300	--	--	17,363	893	-430	12,980	7,007	0	4,123
Renewable Fuels Except Fuel Ethanol	--	1,996	--	57	215	-921	104	1,093	150	0	2,214
Other Hydrocarbons	--	--	--	8	--	-8	--	--	--	0	--
Unfinished Oils	--	--	--	33,463	457	--	3,892	11,098	18,707	223	48,852
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	4,183	-181,271	5,303	-5,447	-177,415	11,077	0	73,516
Reformulated	--	--	--	325	-33,564	15,662	-1,418	-16,184	25	0	10,898
Conventional	--	--	--	3,858	-147,707	-10,360	-4,029	-161,231	11,051	0	62,618
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	4	1	--	-5	35
Finished Petroleum Products	--	--	687,197	10,360	-158,495	-4,315	-10,130	--	247,638	297,239	102,167
Finished Motor Gasoline	--	--	214,528	284	-20,365	-6,196	-2,636	--	74,030	116,857	9,015
Reformulated	--	--	41,207	--	--	-18,102	238	--	--	22,867	238
Conventional	--	--	173,321	284	-20,365	-11,906	-2,874	--	74,030	93,990	8,777
Finished Aviation Gasoline	--	--	852	59	-267	--	140	--	--	504	575
Kerosene-Type Jet Fuel	--	--	82,088	30	-50,675	--	-564	--	14,965	17,042	14,873
Kerosene	--	--	241	--	-461	--	40	--	163	-423	227
Distillate Fuel Oil	--	--	255,802	407	-89,824	1,881	-4,555	--	89,661	83,160	38,633
15 ppm sulfur and under	--	--	228,520	407	-85,332	1,881	-4,047	--	69,968	79,555	31,917
Greater than 15 ppm to 500 ppm sulfur	--	--	10,245	--	-481	--	-224	--	8,695	1,293	1,458
Greater than 500 ppm sulfur	--	--	17,037	--	-4,011	--	-284	--	10,998	2,312	5,258
Residual Fuel Oil ⁷	--	--	13,268	4,509	2,683	--	-752	--	16,186	5,026	15,499
Less than 0.31 percent sulfur	--	--	3,493	1,074	133	--	189	--	NA	NA	1,089
0.31 to 1.00 percent sulfur	--	--	1,245	57	75	--	221	--	NA	NA	2,760
Greater than 1.00 percent sulfur	--	--	8,530	3,378	2,475	--	-1,162	--	NA	NA	11,650
Petrochemical Feedstocks	--	--	23,281	943	513	--	1	--	--	24,736	2,755
Naphtha for Petro. Feed. Use	--	--	15,560	874	188	--	4	--	--	16,618	1,886
Other Oils for Petro. Feed. Use	--	--	7,721	69	325	--	-3	--	--	8,118	869
Special Naphthas	--	--	2,582	1,021	-58	--	-99	--	--	3,644	1,079
Lubricants	--	--	10,841	2,865	-1,405	--	-1,123	--	8,707	4,717	9,435
Waxes	--	--	293	92	--	--	-1	--	70	316	271
Petroleum Coke	--	--	41,107	150	1,995	--	-1,075	--	41,997	2,330	3,821
Marketable	--	--	30,889	150	1,995	--	-1,075	--	41,997	-7,888	3,821
Catalyst	--	--	10,218	--	--	--	--	--	--	10,218	--
Asphalt and Road Oil	--	--	6,987	--	-862	--	482	--	1,770	3,872	5,578
Still Gas	--	--	30,515	--	--	--	--	--	--	30,515	--
Miscellaneous Products	--	--	4,812	--	231	--	12	--	89	4,942	406
Total	934,326	10,330	719,744	217,482	-162,223	58,457	-13,114	667,718	627,043	496,470	1,234,267

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

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

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

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

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil⁶	7,850	--	--	1,755	1,320	279	146	8,525	2,534	0
Hydrocarbon Gas Liquids	2,679	0	431	3	797	--	345	270	1,189	2,105
Natural Gas Liquids	2,679	0	230	--	782	--	354	270	1,189	1,877
Ethane	1,189	--	6	--	--	--	106	--	164	1,390
Propane	812	--	157	--	222	--	153	--	793	245
Normal Butane	147	--	78	--	112	--	68	74	228	-32
Isobutane	279	--	-11	--	27	--	18	123	3	152
Natural Gasoline	251	0	--	--	-45	--	10	74	1	122
Refinery Olefins	--	--	201	3	--	--	-9	--	--	228
Ethylene	--	--	--	--	--	--	0	--	--	0
Propylene	--	--	207	--	14	--	-10	--	--	231
Normal Butylene	--	--	-5	3	--	--	1	--	--	-2
Isobutylene	--	--	-1	--	--	--	0	--	--	-1
Other Liquids	--	110	--	436	-1,909	265	-232	-1,380	436	79
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	110	--	1	161	115	-44	281	151	0
Hydrogen	--	--	--	--	--	121	--	121	--	0
Oxygenates (excluding Fuel Ethanol)	--	74	--	1	--	-21	-13	--	67	0
Renewable Fuels (including Fuel Ethanol)	--	36	--	--	161	16	-31	160	84	0
Fuel Ethanol	--	15	--	--	154	40	-20	148	81	0
Renewable Fuels Except Fuel Ethanol	--	21	--	--	6	-24	-11	12	3	0
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	354	12	--	-22	163	146	79
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	81	-2,082	150	-166	-1,824	139	0
Reformulated	--	--	--	10	-358	192	-10	-147	0	0
Conventional	--	--	--	71	-1,724	-42	-156	-1,677	138	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	--	7,547	114	-1,833	-162	-134	--	2,595	3,206
Finished Motor Gasoline	--	--	2,358	--	-223	-190	-17	--	779	1,183
Reformulated	--	--	470	--	--	-215	8	--	--	247
Conventional	--	--	1,889	--	-223	25	-25	--	779	935
Finished Aviation Gasoline	--	--	10	--	-3	--	1	--	--	6
Kerosene-Type Jet Fuel	--	--	906	--	-590	--	33	--	133	150
Kerosene	--	--	0	--	--	--	-1	--	0	1
Distillate Fuel Oil	--	--	2,828	1	-1,045	28	-129	--	973	968
15 ppm sulfur and under	--	--	2,533	1	-985	28	-113	--	748	942
Greater than 15 ppm to 500 ppm sulfur	--	--	104	--	-4	--	-5	--	102	4
Greater than 500 ppm sulfur	--	--	190	--	-55	--	-10	--	123	22
Residual Fuel Oil ⁷	--	--	147	52	22	--	1	--	165	54
Less than 0.31 percent sulfur	--	--	29	19	2	--	7	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	13	2	1	--	5	--	NA	NA
Greater than 1.00 percent sulfur	--	--	105	30	18	--	-12	--	NA	NA
Petrochemical Feedstocks	--	--	249	12	1	--	5	--	--	257
Naphtha for Petro. Feed. Use	--	--	174	12	1	--	0	--	--	187
Other Oils for Petro. Feed. Use	--	--	76	--	--	--	5	--	--	70
Special Naphthas	--	--	30	13	--	--	0	--	--	43
Lubricants	--	--	108	35	-14	--	-20	--	121	27
Waxes	--	--	3	2	--	--	0	--	1	4
Petroleum Coke	--	--	446	--	17	--	-17	--	397	83
Marketable	--	--	334	--	17	--	-17	--	397	-29
Catalyst	--	--	112	--	--	--	--	--	--	112
Asphalt and Road Oil	--	--	83	--	-5	--	9	--	24	45
Still Gas	--	--	329	--	--	--	--	--	--	329
Miscellaneous Products	--	--	50	--	7	--	1	--	1	55
Total	10,529	110	7,978	2,309	-1,626	383	124	7,415	6,754	5,390

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

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

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

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil⁶	7,749	--	--	1,878	1,108	526	38	8,659	2,564	0
Hydrocarbon Gas Liquids	2,632	0	362	3	664	--	-56	322	1,182	2,211
Natural Gas Liquids	2,632	0	148	--	653	--	-71	322	1,182	1,999
Ethane	1,173	--	5	--	--	--	5	--	166	1,438
Propane	797	--	153	--	191	--	-14	--	841	314
Normal Butane	141	--	-350	--	90	--	-53	125	172	-13
Isobutane	276	--	-10	--	28	--	13	123	3	156
Natural Gasoline	245	0	--	--	-88	--	-23	74	1	104
Refinery Olefins	--	--	214	3	--	--	16	--	--	212
Ethylene	--	--	--	--	--	--	0	--	--	0
Propylene	--	--	222	--	12	--	11	--	--	222
Normal Butylene	--	--	-7	3	--	--	4	--	--	-9
Isobutylene	--	--	-1	--	--	--	0	--	--	-1
Other Liquids	--	115	--	421	-1,814	171	-16	-1,562	469	2
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	115	--	3	195	112	1	286	138	0
Hydrogen	--	--	--	--	--	130	--	130	--	0
Oxygenates (excluding Fuel Ethanol)	--	78	--	2	--	-17	5	--	59	0
Renewable Fuels (including Fuel Ethanol)	--	37	--	1	195	0	-4	156	80	0
Fuel Ethanol	--	14	--	--	193	10	-5	144	78	0
Renewable Fuels Except Fuel Ethanol	--	22	--	1	2	-10	1	12	2	0
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	372	5	--	43	123	208	2
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	46	-2,014	59	-61	-1,971	123	0
Reformulated	--	--	--	4	-373	174	-16	-180	0	0
Conventional	--	--	--	43	-1,641	-115	-45	-1,791	123	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	--	7,636	115	-1,761	-48	-113	--	2,752	3,303
Finished Motor Gasoline	--	--	2,384	3	-226	-69	-29	--	823	1,298
Reformulated	--	--	458	--	--	-201	3	--	--	254
Conventional	--	--	1,926	3	-226	132	-32	--	823	1,044
Finished Aviation Gasoline	--	--	9	1	-3	--	2	--	--	6
Kerosene-Type Jet Fuel	--	--	912	0	-563	--	-6	--	166	189
Kerosene	--	--	3	--	-5	--	0	--	2	-5
Distillate Fuel Oil	--	--	2,842	5	-998	21	-51	--	996	924
15 ppm sulfur and under	--	--	2,539	5	-948	21	-45	--	777	884
Greater than 15 ppm to 500 ppm sulfur	--	--	114	--	-5	--	-2	--	97	14
Greater than 500 ppm sulfur	--	--	189	--	-45	--	-3	--	122	26
Residual Fuel Oil ⁷	--	--	147	50	30	--	-8	--	180	56
Less than 0.31 percent sulfur	--	--	39	12	1	--	2	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	14	1	1	--	2	--	NA	NA
Greater than 1.00 percent sulfur	--	--	95	38	28	--	-13	--	NA	NA
Petrochemical Feedstocks	--	--	259	10	6	--	0	--	--	275
Naphtha for Petro. Feed. Use	--	--	173	10	2	--	0	--	--	185
Other Oils for Petro. Feed. Use	--	--	86	1	4	--	0	--	--	90
Special Naphthas	--	--	29	11	-1	--	-1	--	--	40
Lubricants	--	--	120	32	-16	--	-12	--	97	52
Waxes	--	--	3	1	--	--	0	--	1	4
Petroleum Coke	--	--	457	2	22	--	-12	--	467	26
Marketable	--	--	343	2	22	--	-12	--	467	-88
Catalyst	--	--	114	--	--	--	--	--	--	114
Asphalt and Road Oil	--	--	78	--	-10	--	5	--	20	43
Still Gas	--	--	339	--	--	--	--	--	--	339
Miscellaneous Products	--	--	53	--	3	--	0	--	1	55
Total	10,381	115	7,997	2,416	-1,802	650	-146	7,419	6,967	5,516

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

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

Table 17. PAD District 4 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, March 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	27,786	--	--	10,726	-16,959	-697	2,033	18,823	--	0	22,717
Hydrocarbon Gas Liquids	13,829	-11	329	508	-11,004	--	134	574	1,219	1,724	3,110
Natural Gas Liquids	13,829	-11	293	508	-11,004	--	199	574	1,219	1,623	3,104
Ethane	4,178	--	--	--	--	--	7	--	--	407	543
Propane	4,927	--	236	429	-3,611	--	19	--	0	1,962	1,089
Normal Butane	1,844	--	62	67	-1,427	--	92	213	--	241	675
Isobutane	984	--	-5	12	-789	--	81	222	--	-101	426
Natural Gasoline	1,896	-11	--	--	-1,413	--	0	139	1,219	-886	371
Refinery Olefins	--	--	36	--	--	--	-65	--	--	101	6
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	6	--	--	--	0	--	--	6	1
Normal Butylene	--	--	30	--	--	--	-60	--	--	90	5
Isobutylene	--	--	--	--	--	--	-5	--	--	5	0
Other Liquids	--	400	--	96	241	-1,003	-105	-482	4	317	9,546
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	400	--	8	293	370	-47	1,118	0	0	405
Hydrogen	--	--	--	--	--	198	--	198	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0	--
Renewable Fuels (including Fuel Ethanol)	--	400	--	8	293	172	-47	920	--	0	405
Fuel Ethanol	--	400	--	--	220	222	-28	870	--	0	326
Renewable Fuels Except Fuel Ethanol	--	0	--	8	72	-49	-19	50	--	0	79
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	227	-548	4	317	3,744
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	88	-52	-1,373	-285	-1,052	--	0	5,397
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	-52	-1,373	-285	-1,052	--	0	5,397
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	19,341	136	-451	1,185	-142	--	20	20,333	8,694
Finished Motor Gasoline	--	--	9,048	--	-561	1,151	-247	--	1	9,884	1,463
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	9,048	--	-561	1,151	-247	--	1	9,884	1,463
Finished Aviation Gasoline	--	--	9	1	--	--	7	--	--	3	10
Kerosene-Type Jet Fuel	--	--	1,131	--	686	--	50	--	--	1,767	809
Kerosene	--	--	--	--	--	--	0	--	--	0	1
Distillate Fuel Oil	--	--	6,364	78	-35	33	15	--	0	6,425	3,884
15 ppm sulfur and under	--	--	6,282	78	-35	33	-6	--	0	6,364	3,631
Greater than 15 ppm to 500 ppm sulfur	--	--	75	--	--	--	13	--	--	62	172
Greater than 500 ppm sulfur	--	--	7	--	--	--	8	--	--	-1	81
Residual Fuel Oil ⁶	--	--	401	--	--	--	13	--	10	378	233
Less than 0.31 percent sulfur	--	--	200	--	--	--	3	--	NA	NA	34
0.31 to 1.00 percent sulfur	--	--	22	--	--	--	-1	--	NA	NA	3
Greater than 1.00 percent sulfur	--	--	179	--	--	--	11	--	NA	NA	196
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	1	--	--	--	--	8	-7	--
Waxes	--	--	--	--	--	--	--	--	0	0	--
Petroleum Coke	--	--	794	--	-126	--	-35	--	--	703	113
Marketable	--	--	569	--	-126	--	-35	--	--	478	113
Catalyst	--	--	225	--	--	--	--	--	--	225	--
Asphalt and Road Oil	--	--	862	55	-415	--	55	--	0	447	2,166
Still Gas	--	--	651	--	--	--	--	--	--	651	--
Miscellaneous Products	--	--	81	1	--	--	0	--	1	81	15
Total	41,615	389	19,670	11,466	-28,173	-515	1,920	18,915	1,244	22,373	44,067

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

biogas, marketable petroleum coke, and asphalt and road oil

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

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

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

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

Table 18. PAD District 4 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-March 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	82,024	--	--	32,811	-53,363	-4,918	1,177	55,377	--	0	22,717
Hydrocarbon Gas Liquids	39,294	-30	473	1,684	-32,258	--	-350	2,028	1,337	6,148	3,110
Natural Gas Liquids	39,294	-30	354	1,684	-32,258	--	-319	2,028	1,337	5,998	3,104
Ethane	12,000	--	--	--	--	--	78	--	--	660	543
Propane	13,964	--	663	1,398	-10,407	--	-307	--	1	5,924	1,089
Normal Butane	5,297	--	-350	246	-4,242	--	-268	947	4	268	675
Isobutane	2,659	--	41	40	-2,292	--	159	629	--	-340	426
Natural Gasoline	5,374	-30	--	--	-4,055	--	19	452	1,332	-514	371
Refinery Olefins	--	--	119	--	--	--	-31	--	--	150	6
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	3	--	--	--	0	--	--	3	1
Normal Butylene	--	--	137	--	--	--	-26	--	--	163	5
Isobutylene	--	--	-21	--	--	--	-5	--	--	-16	0
Other Liquids	--	1,182	--	181	288	-2,709	-92	-2,120	9	1,144	9,546
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,182	--	10	766	1,231	-62	3,251	0	0	405
Hydrogen	--	--	--	--	--	596	--	596	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0	--
Renewable Fuels (including Fuel Ethanol)	--	1,182	--	10	766	635	-62	2,655	--	0	405
Fuel Ethanol	--	1,182	--	--	621	711	-27	2,541	--	0	326
Renewable Fuels Except Fuel Ethanol	--	0	--	10	145	-76	-35	114	--	0	79
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	247	-1,400	9	1,144	3,744
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	171	-478	-3,941	-277	-3,971	0	0	5,397
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	-478	-3,941	-277	-3,971	0	0	5,397
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	57,107	401	-2,644	3,271	-282	--	50	58,367	8,694
Finished Motor Gasoline	--	--	26,748	--	-1,834	3,230	-150	--	2	28,291	1,463
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	26,748	--	-1,834	3,230	-150	--	2	28,291	1,463
Finished Aviation Gasoline	--	--	12	1	--	--	0	--	--	13	10
Kerosene-Type Jet Fuel	--	--	2,942	--	2,162	--	-5	--	--	5,109	809
Kerosene	--	--	--	--	--	--	-1	--	--	1	1
Distillate Fuel Oil	--	--	18,723	162	-630	41	-560	--	0	18,856	3,884
15 ppm sulfur and under	--	--	18,596	162	-630	41	-526	--	0	18,695	3,631
Greater than 15 ppm to 500 ppm sulfur	--	--	132	--	--	--	-29	--	--	161	172
Greater than 500 ppm sulfur	--	--	-5	--	--	--	-5	--	--	0	81
Residual Fuel Oil ⁶	--	--	1,149	97	--	--	-3	--	23	1,226	233
Less than 0.31 percent sulfur	--	--	604	--	--	--	9	--	NA	NA	34
0.31 to 1.00 percent sulfur	--	--	68	--	--	--	-5	--	NA	NA	3
Greater than 1.00 percent sulfur	--	--	477	97	--	--	-7	--	NA	NA	196
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	1	--	--	--	--	21	-20	--
Waxes	--	--	--	--	--	--	--	--	1	-1	--
Petroleum Coke	--	--	2,249	--	-835	--	-81	--	0	1,495	113
Marketable	--	--	1,613	--	-835	--	-81	--	0	859	113
Catalyst	--	--	636	--	--	--	--	--	--	636	--
Asphalt and Road Oil	--	--	3,136	137	-1,507	--	519	--	1	1,246	2,166
Still Gas	--	--	1,910	--	--	--	--	--	--	1,910	--
Miscellaneous Products	--	--	238	3	--	--	-1	--	1	241	15
Total	121,318	1,152	57,580	35,077	-87,977	-4,357	453	55,285	1,396	65,659	44,067

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

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

Table 19. PAD District 4 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, March 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	896	--	--	346	-547	-22	66	607	--	0
Hydrocarbon Gas Liquids	446	0	11	16	-355	--	4	19	39	56
Natural Gas Liquids	446	0	9	16	-355	--	6	19	39	52
Ethane	135	--	--	--	--	--	0	--	--	13
Propane	159	--	8	14	-116	--	1	--	0	63
Normal Butane	59	--	2	2	-46	--	3	7	--	8
Isobutane	32	--	0	0	-25	--	3	7	--	-3
Natural Gasoline	61	0	--	--	-46	--	0	4	39	-29
Refinery Olefins	--	--	1	--	--	--	-2	--	--	3
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	0	--	--	--	0	--	--	0
Normal Butylene	--	--	1	--	--	--	-2	--	--	3
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	13	--	3	8	-32	-3	-16	0	10
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	13	--	0	9	12	-2	36	0	0
Hydrogen	--	--	--	--	--	6	--	6	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	13	--	0	9	6	-2	30	--	0
Fuel Ethanol	--	13	--	--	7	7	-1	28	--	0
Renewable Fuels Except Fuel Ethanol	--	0	--	0	2	-2	-1	2	--	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	7	-18	0	10
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	3	-2	-44	-9	-34	--	0
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	-2	-44	-9	-34	--	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	624	4	-15	38	-5	--	1	656
Finished Motor Gasoline	--	--	292	--	-18	37	-8	--	0	319
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	292	--	-18	37	-8	--	0	319
Finished Aviation Gasoline	--	--	0	0	--	--	0	--	--	0
Kerosene-Type Jet Fuel	--	--	36	--	22	--	2	--	--	57
Kerosene	--	--	--	--	--	--	0	--	--	0
Distillate Fuel Oil	--	--	205	3	-1	1	0	--	0	207
15 ppm sulfur and under	--	--	203	3	-1	1	0	--	0	205
Greater than 15 ppm to 500 ppm sulfur	--	--	2	--	--	--	0	--	--	2
Greater than 500 ppm sulfur	--	--	0	--	--	--	0	--	--	0
Residual Fuel Oil ⁶	--	--	13	--	--	--	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	--	--	6	--	--	--	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	--	--	26	--	-4	--	-1	--	--	23
Marketable	--	--	18	--	-4	--	-1	--	--	15
Catalyst	--	--	7	--	--	--	--	--	--	7
Asphalt and Road Oil	--	--	28	2	-13	--	2	--	0	14
Still Gas	--	--	21	--	--	--	--	--	--	21
Miscellaneous Products	--	--	3	0	--	--	0	--	0	3
Total	1,342	13	635	370	-909	-17	62	610	40	722

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

Table 20. PAD District 4 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-March 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	911	--	--	365	-593	-55	13	615	--	0
Hydrocarbon Gas Liquids	437	0	5	19	-358	--	-4	23	15	68
Natural Gas Liquids	437	0	4	19	-358	--	-4	23	15	67
Ethane	133	--	--	--	--	--	1	--	--	7
Propane	155	--	7	16	-116	--	-3	--	0	66
Normal Butane	59	--	-4	3	-47	--	-3	11	0	3
Isobutane	30	--	0	0	-25	--	2	7	--	-4
Natural Gasoline	60	0	--	--	-45	--	0	5	15	-6
Refinery Olefins	--	--	1	--	--	--	0	--	--	2
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	0	--	--	--	0	--	--	0
Normal Butylene	--	--	2	--	--	--	0	--	--	2
Isobutylene	--	--	0	--	--	--	0	--	--	0
Other Liquids	--	13	--	2	3	-30	-1	-24	0	13
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	13	--	0	9	14	-1	36	0	0
Hydrogen	--	--	--	--	--	7	--	7	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	13	--	0	9	7	-1	30	--	0
Fuel Ethanol	--	13	--	--	7	8	0	28	--	0
Renewable Fuels Except Fuel Ethanol	--	0	--	0	2	-1	0	1	--	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	3	-16	0	13
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	2	-5	-44	-3	-44	0	0
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	-5	-44	-3	-44	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	635	4	-29	36	-3	--	1	649
Finished Motor Gasoline	--	--	297	--	-20	36	-2	--	0	314
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	297	--	-20	36	-2	--	0	314
Finished Aviation Gasoline	--	--	0	0	--	--	0	--	--	0
Kerosene-Type Jet Fuel	--	--	33	--	24	--	0	--	--	57
Kerosene	--	--	--	--	--	--	0	--	--	0
Distillate Fuel Oil	--	--	208	2	-7	0	-6	--	0	210
15 ppm sulfur and under	--	--	207	2	-7	0	-6	--	0	208
Greater than 15 ppm to 500 ppm sulfur	--	--	1	--	--	--	0	--	--	2
Greater than 500 ppm sulfur	--	--	0	--	--	--	0	--	--	0
Residual Fuel Oil ⁶	--	--	13	1	--	--	0	--	0	14
Less than 0.31 percent sulfur	--	--	7	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	1	--	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	5	1	--	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	0	--	--	--	--	0	0
Waxes	--	--	--	--	--	--	--	--	0	0
Petroleum Coke	--	--	25	--	-9	--	-1	--	0	17
Marketable	--	--	18	--	-9	--	-1	--	0	10
Catalyst	--	--	7	--	--	--	--	--	--	7
Asphalt and Road Oil	--	--	35	2	-17	--	6	--	0	14
Still Gas	--	--	21	--	--	--	--	--	--	21
Miscellaneous Products	--	--	3	0	--	--	0	--	0	3
Total	1,348	13	640	390	-978	-48	5	614	16	730

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

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

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	29,223	--	--	35,871	5,229	921	-1,891	73,133	1	0	49,767
Hydrocarbon Gas Liquids	1,979	-8	2,123	2,014	644	--	344	2,344	1,421	2,643	2,406
Natural Gas Liquids	1,979	-8	1,930	2,014	644	--	374	2,344	1,421	2,420	2,367
Ethane	3	--	--	--	--	--	--	--	--	3	--
Propane	313	--	1,073	1,330	423	--	85	--	911	2,143	526
Normal Butane	440	--	678	632	130	--	272	775	503	330	1,385
Isobutane	323	--	179	52	91	--	17	755	3	-130	416
Natural Gasoline	900	-8	--	--	--	--	0	814	4	74	40
Refinery Olefins	--	--	193	--	--	--	-30	--	--	223	39
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	213	--	--	--	0	--	--	213	13
Normal Butylene	--	--	-20	--	--	--	-30	--	--	10	26
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	692	--	4,501	9,364	-776	-2,026	16,140	435	-768	51,601
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	692	--	789	4,498	535	-454	6,776	193	0	4,198
Hydrogen	--	--	--	--	--	1,341	--	1,341	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	1	--	--	1	0	--
Renewable Fuels (including Fuel Ethanol)	--	692	--	789	4,498	-807	-454	5,435	192	0	4,198
Fuel Ethanol	--	487	--	251	4,250	-440	-423	4,833	138	0	2,047
Renewable Fuels Except Fuel Ethanol	--	205	--	538	249	-367	-31	602	54	0	2,151
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	1,903	--	--	-793	3,223	241	-768	18,894
Motor Gasoline Blend Comp. (MGBC)	--	--	--	1,809	4,866	-1,311	-779	6,141	2	0	28,509
Reformulated	--	--	--	651	2,351	564	591	2,974	1	0	13,593
Conventional	--	--	--	1,158	2,515	-1,875	-1,370	3,167	1	0	14,916
Aviation Gasoline Blend Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	95,424	4,034	1,844	1,844	720	--	11,868	90,558	37,002
Finished Motor Gasoline	--	--	49,210	386	359	1,750	-343	--	1,918	50,131	1,876
Reformulated	--	--	34,306	--	--	-453	1	--	--	33,852	18
Conventional	--	--	14,904	386	359	2,203	-344	--	1,918	16,278	1,858
Finished Aviation Gasoline	--	--	-1	1	--	--	-27	--	--	27	148
Kerosene-Type Jet Fuel	--	--	14,145	2,565	350	--	261	--	849	15,950	9,917
Kerosene	--	--	17	--	--	--	-10	--	2	25	25
Distillate Fuel Oil	--	--	18,821	186	759	94	-133	--	4,982	15,011	13,816
15 ppm sulfur and under	--	--	18,054	185	759	94	-72	--	4,474	14,690	12,959
Greater than 15 ppm to 500 ppm sulfur	--	--	311	--	--	--	-41	--	501	-149	177
Greater than 500 ppm sulfur	--	--	456	1	--	--	-20	--	8	469	680
Residual Fuel Oil ⁶	--	--	3,313	625	--	--	799	--	579	2,560	5,220
Less than 0.31 percent sulfur	--	--	5	--	--	--	-201	--	NA	NA	114
0.31 to 1.00 percent sulfur	--	--	190	177	--	--	117	--	NA	NA	518
Greater than 1.00 percent sulfur	--	--	3,118	448	--	--	883	--	NA	NA	4,582
Petrochemical Feedstocks	--	--	4	22	--	--	0	--	--	26	4
Naphtha for Petro. Feed. Use	--	--	4	22	--	--	0	--	--	26	4
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	-1	--	--	--	-20	--	--	19	26
Lubricants	--	--	400	7	-42	--	-117	--	283	199	1,004
Waxes	--	--	--	45	--	--	--	--	6	39	--
Petroleum Coke	--	--	4,792	31	-49	--	145	--	3,202	1,427	1,562
Marketable	--	--	3,842	31	-49	--	145	--	3,202	477	1,562
Catalyst	--	--	950	--	--	--	--	--	--	950	--
Asphalt and Road Oil	--	--	716	166	467	--	164	--	46	1,138	3,308
Still Gas	--	--	3,575	--	--	--	--	--	--	3,575	--
Miscellaneous Products	--	--	433	--	--	--	1	--	0	432	96
Total	31,202	684	97,547	46,420	17,081	1,989	-2,853	91,617	13,725	92,434	140,776

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

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

Table 22. PAD District 5 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-March 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	85,866	--	--	113,554	13,314	5,128	4,621	213,240	1	0	49,767
Hydrocarbon Gas Liquids	5,559	-33	3,296	5,849	2,718	--	-1,153	7,875	3,763	6,904	2,406
Natural Gas Liquids	5,559	-33	2,559	5,849	2,718	--	-1,142	7,875	3,763	6,156	2,367
Ethane	7	--	--	--	--	--	--	--	1	6	--
Propane	881	--	2,871	3,520	984	--	-887	--	2,572	6,571	526
Normal Butane	1,170	--	-694	2,035	1,449	--	-273	3,579	1,142	-488	1,385
Isobutane	922	--	382	294	285	--	12	1,958	3	-90	416
Natural Gasoline	2,579	-33	--	--	--	--	6	2,338	45	157	40
Refinery Olefins	--	--	737	--	--	--	-11	--	--	748	39
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	692	--	--	--	1	--	--	691	13
Normal Butylene	--	--	45	--	--	--	-12	--	--	57	26
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	2,250	--	9,365	27,526	-2,514	-117	35,368	1,277	99	51,601
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	2,250	--	1,689	12,850	1,797	-764	18,753	596	0	4,198
Hydrogen	--	--	--	--	--	3,416	--	3,416	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	2	--	--	2	0	--
Renewable Fuels (including Fuel Ethanol)	--	2,250	--	1,689	12,850	-1,621	-764	15,337	594	0	4,198
Fuel Ethanol	--	1,592	--	251	11,779	-549	-1,125	13,697	501	0	2,047
Renewable Fuels Except Fuel Ethanol	--	658	--	1,438	1,070	-1,072	361	1,640	93	0	2,151
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	4,349	--	--	-556	4,543	263	99	18,894
Motor Gasoline Blend Comp. (MGBC)	--	--	--	3,327	14,676	-4,310	1,203	12,072	418	0	28,509
Reformulated	--	--	--	976	6,860	1,040	829	8,044	3	0	13,593
Conventional	--	--	--	2,351	7,816	-5,351	374	4,028	414	0	14,916
Aviation Gasoline Blend Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	270,094	11,699	6,400	4,983	1,111	--	34,533	257,532	37,002
Finished Motor Gasoline	--	--	138,085	1,230	1,327	4,859	-208	--	4,375	141,334	1,876
Reformulated	--	--	97,563	--	--	-310	4	--	--	97,249	18
Conventional	--	--	40,522	1,230	1,327	5,169	-212	--	4,375	44,085	1,858
Finished Aviation Gasoline	--	--	-1	1	--	--	-67	--	--	67	148
Kerosene-Type Jet Fuel	--	--	40,137	6,576	906	--	-5	--	2,487	45,137	9,917
Kerosene	--	--	27	--	--	--	-48	--	9	66	25
Distillate Fuel Oil	--	--	53,803	638	2,750	124	-33	--	14,451	42,897	13,816
15 ppm sulfur and under	--	--	51,452	635	2,750	124	96	--	10,907	43,958	12,959
Greater than 15 ppm to 500 ppm sulfur	--	--	907	--	--	--	-67	--	2,434	-1,460	177
Greater than 500 ppm sulfur	--	--	1,444	3	--	--	-62	--	1,110	399	680
Residual Fuel Oil ⁶	--	--	9,873	2,474	--	--	706	--	1,846	9,795	5,220
Less than 0.31 percent sulfur	--	--	23	338	--	--	-148	--	NA	NA	114
0.31 to 1.00 percent sulfur	--	--	1,257	584	--	--	51	--	NA	NA	518
Greater than 1.00 percent sulfur	--	--	8,593	1,552	--	--	803	--	NA	NA	4,582
Petrochemical Feedstocks	--	--	11	98	--	--	-1	--	--	110	4
Naphtha for Petro. Feed. Use	--	--	11	98	--	--	-1	--	--	110	4
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	67	--	--	--	-31	--	--	98	26
Lubricants	--	--	1,278	50	-42	--	-265	--	988	563	1,004
Waxes	--	--	--	136	--	--	--	--	14	122	--
Petroleum Coke	--	--	13,378	68	77	--	91	--	10,105	3,327	1,562
Marketable	--	--	10,468	68	77	--	91	--	10,105	417	1,562
Catalyst	--	--	2,910	--	--	--	--	--	--	2,910	--
Asphalt and Road Oil	--	--	1,895	428	1,382	--	975	--	258	2,472	3,308
Still Gas	--	--	10,300	--	--	--	--	--	--	10,300	--
Miscellaneous Products	--	--	1,241	--	--	--	-3	--	1	1,243	96
Total	91,425	2,217	273,390	140,467	49,958	7,598	4,462	256,483	39,574	264,535	140,776

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

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

Table 23. PAD District 5 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, March 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	943	--	--	1,157	169	30	-61	2,359	0	0
Hydrocarbon Gas Liquids	64	0	68	65	21	--	11	76	46	85
Natural Gas Liquids	64	0	62	65	21	--	12	76	46	78
Ethane	0	--	--	--	--	--	--	--	--	0
Propane	10	--	35	43	14	--	3	--	29	69
Normal Butane	14	--	22	20	4	--	9	25	16	11
Isobutane	10	--	6	2	3	--	1	24	0	-4
Natural Gasoline	29	0	--	--	--	--	0	26	0	2
Refinery Olefins	--	--	6	--	--	--	-1	--	--	7
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	7	--	--	--	0	--	--	7
Normal Butylene	--	--	-1	--	--	--	-1	--	--	0
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	22	--	145	302	-25	-65	521	14	-25
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	22	--	25	145	17	-15	219	6	0
Hydrogen	--	--	--	--	--	43	--	43	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	22	--	25	145	-26	-15	175	6	0
Fuel Ethanol	--	16	--	8	137	-14	-14	156	4	0
Renewable Fuels Except Fuel Ethanol	--	7	--	17	8	-12	-1	19	2	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	61	--	--	-26	104	8	-25
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	58	157	-42	-25	198	0	0
Reformulated	--	--	--	21	76	18	19	96	0	0
Conventional	--	--	--	37	81	-60	-44	102	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,078	130	59	59	23	--	383	2,921
Finished Motor Gasoline	--	--	1,587	12	12	56	-11	--	62	1,617
Reformulated	--	--	1,107	--	--	-15	0	--	--	1,092
Conventional	--	--	481	12	12	71	-11	--	62	525
Finished Aviation Gasoline	--	--	0	0	--	--	-1	--	--	1
Kerosene-Type Jet Fuel	--	--	456	83	11	--	8	--	27	515
Kerosene	--	--	1	--	--	--	0	--	0	1
Distillate Fuel Oil	--	--	607	6	24	3	-4	--	161	484
15 ppm sulfur and under	--	--	582	6	24	3	-2	--	144	474
Greater than 15 ppm to 500 ppm sulfur	--	--	10	--	--	--	-1	--	16	-5
Greater than 500 ppm sulfur	--	--	15	0	--	--	-1	--	0	15
Residual Fuel Oil ⁶	--	--	107	20	--	--	26	--	19	83
Less than 0.31 percent sulfur	--	--	0	--	--	--	-6	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	6	6	--	--	4	--	NA	NA
Greater than 1.00 percent sulfur	--	--	101	14	--	--	28	--	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	--	--	0	--	--	--	-1	--	--	1
Lubricants	--	--	13	0	-1	--	-4	--	9	6
Waxes	--	--	--	1	--	--	--	--	0	1
Petroleum Coke	--	--	155	1	-2	--	5	--	103	46
Marketable	--	--	124	1	-2	--	5	--	103	15
Catalyst	--	--	31	--	--	--	--	--	--	31
Asphalt and Road Oil	--	--	23	5	15	--	5	--	1	37
Still Gas	--	--	115	--	--	--	--	--	--	115
Miscellaneous Products	--	--	14	--	--	--	0	--	0	14
Total	1,007	22	3,147	1,497	551	64	-92	2,955	443	2,982

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

Table 24. PAD District 5 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-March 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	954	--	--	1,262	148	57	51	2,369	0	0
Hydrocarbon Gas Liquids	62	0	37	65	30	--	-13	88	42	77
Natural Gas Liquids	62	0	28	65	30	--	-13	88	42	68
Ethane	0	--	--	--	--	--	--	--	0	0
Propane	10	--	32	39	11	--	-10	--	29	73
Normal Butane	13	--	-8	23	16	--	-3	40	13	-5
Isobutane	10	--	4	3	3	--	0	22	0	-1
Natural Gasoline	29	0	--	--	--	--	0	26	0	2
Refinery Olefins	--	--	8	--	--	--	0	--	--	8
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	8	--	--	--	0	--	--	8
Normal Butylene	--	--	1	--	--	--	0	--	--	1
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	25	--	104	306	-28	-1	393	14	1
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	25	--	19	143	20	-8	208	7	0
Hydrogen	--	--	--	--	--	38	--	38	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	25	--	19	143	-18	-8	170	7	0
Fuel Ethanol	--	18	--	3	131	-6	-13	152	6	0
Renewable Fuels Except Fuel Ethanol	--	7	--	16	12	-12	4	18	1	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	48	--	--	-6	50	3	1
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	37	163	-48	13	134	5	0
Reformulated	--	--	--	11	76	12	9	89	0	0
Conventional	--	--	--	26	87	-59	4	45	5	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,001	130	71	55	12	--	384	2,861
Finished Motor Gasoline	--	--	1,534	14	15	54	-2	--	49	1,570
Reformulated	--	--	1,084	--	--	-3	0	--	--	1,081
Conventional	--	--	450	14	15	57	-2	--	49	490
Finished Aviation Gasoline	--	--	0	0	--	--	-1	--	--	1
Kerosene-Type Jet Fuel	--	--	446	73	10	--	0	--	28	502
Kerosene	--	--	0	--	--	--	-1	--	0	1
Distillate Fuel Oil	--	--	598	7	31	1	0	--	161	477
15 ppm sulfur and under	--	--	572	7	31	1	1	--	121	488
Greater than 15 ppm to 500 ppm sulfur	--	--	10	--	--	--	-1	--	27	-16
Greater than 500 ppm sulfur	--	--	16	0	--	--	-1	--	12	4
Residual Fuel Oil ⁶	--	--	110	27	--	--	8	--	21	109
Less than 0.31 percent sulfur	--	--	0	4	--	--	-2	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	14	6	--	--	1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	95	17	--	--	9	--	NA	NA
Petrochemical Feedstocks	--	--	0	1	--	--	0	--	--	1
Naphtha for Petro. Feed. Use	--	--	0	1	--	--	0	--	--	1
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	1	--	--	--	0	--	--	1
Lubricants	--	--	14	1	0	--	-3	--	11	6
Waxes	--	--	--	2	--	--	--	--	0	1
Petroleum Coke	--	--	149	1	1	--	1	--	112	37
Marketable	--	--	116	1	1	--	1	--	112	5
Catalyst	--	--	32	--	--	--	--	--	--	32
Asphalt and Road Oil	--	--	21	5	15	--	11	--	3	27
Still Gas	--	--	114	--	--	--	--	--	--	114
Miscellaneous Products	--	--	14	--	--	--	0	--	0	14
Total	1,016	25	3,038	1,561	555	84	50	2,850	440	2,939

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

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

Process	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Supply							
Field Production	1,813	66,886	243,342	27,786	29,223	369,049	11,905
Alaskan	--	--	--	--	--	14,913	481
Lower 48 States	--	--	--	--	--	354,136	11,424
Imports (PAD District of Entry)	22,610	85,927	54,407	10,726	35,871	209,541	6,759
Commercial	22,610	85,927	54,407	10,726	35,871	209,541	6,759
Strategic Petroleum Reserve (SPR)	--	--	--	--	--	--	--
Net Receipts	5,263	-34,467	40,935	-16,959	5,229	--	--
Adjustments ¹	1,069	-3,635	8,656	-697	921	6,313	204
Disposition							
Stock Change ²	2,451	483	4,518	2,033	-1,891	7,594	245
Commercial	--	--	4,518	--	--	7,594	245
SPR	--	--	0	--	--	0	0
Refinery Inputs	28,301	109,578	264,279	18,823	73,133	494,114	15,939
Exports	2	4,650	78,542	--	1	83,196	2,684
Ending Stocks							
Total	14,155	137,869	883,940	22,717	49,767	1,108,448	--
Commercial	14,155	137,869	234,814	22,717	49,767	459,322	--
Refinery	10,843	13,488	46,218	2,261	21,971	94,781	--
Tank Farms and Pipelines	3,312	124,381	188,596	20,456	22,959	359,704	--
Cushing, Oklahoma	--	47,258	--	--	--	47,258	--
Lease	--	--	--	--	--	--	--
Alaskan Crude Oil In-Transit by Water	--	--	--	--	4,837	4,837	--
SPR	--	--	649,126	--	--	649,126	--
SPR Stocks							
Percent of Total Crude Oil Stocks (Percent)	--	--	--	--	--	58.6	--
Percent of Total Petroleum Stocks (Percent)	--	--	--	--	--	34.2	--
Days of Total Petroleum Net Imports (Days)	--	--	--	--	--	771	--
SPR Receipts Detail							
Receipts	--	--	--	--	--	--	--
Domestic	--	--	--	--	--	--	--
Imports	--	--	--	--	--	--	--
Imported by SPR	--	--	--	--	--	--	--
Imported for SPR by Others	--	--	--	--	--	--	--
Imports							
PAD District of Entry	22,610	85,927	54,407	10,726	35,871	209,541	6,759
PAD District of Processing	23,859	76,864	63,614	8,877	36,327	209,541	6,759

-- = Not Applicable.

-- = No Data Reported.

¹ Crude oil adjustment was previously referred to as Unaccounted-for Crude Oil.

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

Notes: Totals may not equal the sum of components due to independent rounding. Values of Domestic Crude Oil Field Production are estimates.

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

Table 26. Production of Crude Oil by PAD District and State, March 2019
(Thousand Barrels)

PAD District and State	March 2019		January-March 2019	
	Total	Daily Average	Total	Daily Average
PAD District 1	1,813	58	5,479	61
Florida	141	5	432	5
New York	16	1	45	1
Pennsylvania	502	16	1,439	16
Virginia	1	0	2	0
West Virginia	1,154	37	3,561	40
PAD District 2	66,886	2,158	192,512	2,139
Illinois	687	22	1,983	22
Indiana	134	4	393	4
Kansas	2,857	92	8,270	92
Kentucky	289	9	612	7
Michigan	410	13	1,232	14
Missouri	6	0	17	0
Nebraska	154	5	485	5
North Dakota	41,923	1,352	121,203	1,347
Ohio	2,150	69	5,933	66
Oklahoma	18,153	586	52,032	578
South Dakota	103	3	298	3
Tennessee	19	1	56	1
PAD District 3	243,342	7,850	697,440	7,749
Alabama	416	13	1,315	15
Arkansas	394	13	1,155	13
Louisiana	3,807	123	10,930	121
Mississippi	1,603	52	4,553	51
New Mexico	26,960	870	76,098	846
Texas	151,054	4,873	437,052	4,856
Federal Offshore PAD District 3	59,108	1,907	166,337	1,848
PAD District 4	27,786	896	82,024	911
Colorado	14,535	469	43,652	485
Idaho	3	0	8	0
Montana	1,910	62	5,520	61
Utah	3,198	103	9,207	102
Wyoming	8,140	263	23,637	263
PAD District 5	29,223	943	85,866	954
Alaska	14,913	481	43,949	488
South Alaska	475	15	1,365	15
North Slope	14,438	466	42,583	473
Arizona	1	0	3	0
California	14,021	452	40,961	455
Nevada	19	1	63	1
Federal Offshore PAD District 5	269	9	891	10
U.S. Total	369,049	11,905	1,063,322	11,815

- = No Data Reported.

Note: Year-to-date totals include revised monthly production estimates by state published in Petroleum Navigator. Crude oil production quantities are estimated by state and summed to the PADD and the U.S. level. State production estimates reported by EIA are normally different from data reported by state agencies. For example, production estimates for Texas reported on table 26 are different from production reported by the Railroad Commission of Texas. See EIA "Today In Energy" article released on July 10, 2015 (<http://www.eia.gov/todayinenergy/detail.cfm?id=22012>) for an explanation of differences in production data for Texas. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," state government agencies, U.S. Department of the Interior, and the Bureau of Ocean Energy Management.

Table 27. Natural Gas Plant Net Production and Stocks of Petroleum Products by PAD and Refining Districts, March 2019
(Thousand Barrels)

Commodity	Production						
	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	12	16,589	16,601	5,056	8,414	17,639	31,109
Natural Gas Liquids	12	16,589	16,601	5,056	8,414	17,639	31,109
Ethane	-	6,787	6,787	1,236	1,830	8,000	11,066
Propane	4	5,685	5,689	2,397	3,390	5,320	11,107
Normal Butane	8	1,768	1,776	478	1,474	1,812	3,764
Isobutane	-	774	774	544	415	882	1,841
Natural Gasoline	-	1,575	1,575	401	1,305	1,625	3,331

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	63,096	4,890	6,450	769	7,850	83,055	13,829	1,979	146,573
Natural Gas Liquids	63,096	4,890	6,450	769	7,850	83,055	13,829	1,979	146,573
Ethane	28,366	2,213	2,645	287	3,353	36,864	4,178	3	58,898
Propane	19,003	1,473	2,081	173	2,448	25,178	4,927	313	47,214
Normal Butane	6,224	-3,189	687	80	760	4,562	1,844	440	12,386
Isobutane	3,649	4,002	414	58	539	8,662	984	323	12,584
Natural Gasoline	5,854	391	623	171	750	7,789	1,896	900	15,491

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	307	312	665	156	419	1,240
Natural Gas Liquids	5	307	312	665	156	419	1,240
Ethane	-	-	-	44	4	98	146
Propane	3	144	147	406	64	121	591
Normal Butane	2	56	58	63	28	55	146
Isobutane	-	20	20	89	8	71	168
Natural Gasoline	-	87	87	63	52	74	189

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	172	238	1,255	25	-	1,690	454	237	3,933
Natural Gas Liquids	172	238	1,255	25	-	1,690	454	237	3,933
Ethane	50	57	-	-	-	107	27	-	280
Propane	50	126	30	17	-	223	209	54	1,224
Normal Butane	17	38	534	7	-	596	68	137	1,005
Isobutane	28	14	59	-	-	101	85	13	387
Natural Gasoline	27	3	632	1	-	663	65	33	1,037

- = No Data Reported.

Note: Refer to Appendix A for Refining District descriptions.

Sources: Energy Information Administration (EIA) Form EIA-816, "Monthly Natural Gas Liquids Report."

Table 28. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, March 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	25,295	3,006	28,301	73,290	15,988	20,300	109,578
Hydrocarbon Gas Liquids	1,825	-	1,825	1,721	140	785	2,646
Natural Gas Liquids	1,825	-	1,825	1,721	140	785	2,646
Normal Butane	1,037	-	1,037	242	61	210	513
Isobutane	504	-	504	1,135	63	334	1,532
Natural Gasoline	284	-	284	344	16	241	601
Other Liquids	81,257	6,289	87,546	12,487	1,967	4,939	19,393
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	10,320	808	11,128	5,947	1,417	1,770	9,134
Hydrogen	39	9	48	743	294	147	1,184
Oxygenates (excluding Fuel Ethanol)	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE)	-	-	-	-	-	-	-
All Other Oxygenates ¹	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	10,281	799	11,080	5,171	1,123	1,623	7,917
Fuel Ethanol	9,971	733	10,704	4,897	1,061	1,567	7,525
Renewable Diesel Fuel ²	310	66	376	274	62	56	392
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	-	33	-	-	33
Unfinished Oils (net)	1,072	-20	1,052	643	-317	-598	-272
Naphthas and Lighter	938	-19	919	31	-144	-132	-245
Kerosene and Light Gas Oils	-872	-	-872	-219	-108	-212	-539
Heavy Gas Oils	718	-3	715	775	-65	-42	668
Residuum	288	2	290	56	-	-212	-156
Motor Gasoline Blend.Comp. (MGBC)(net)	69,865	5,501	75,366	5,897	867	3,767	10,531
Reformulated - RBOB	14,963	72	15,035	-728	1,173	1,085	1,530
Conventional	54,902	5,429	60,331	6,625	-306	2,682	9,001
CBOB	42,850	5,398	48,248	7,137	-3	2,654	9,788
GTAB	4,096	-	4,096	-	-	-	-
Other	7,956	31	7,987	-512	-303	28	-787
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input	108,377	9,295	117,672	87,498	18,095	26,024	131,617

See footnotes at end of table.

Table 28. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, March 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	19,803	132,314	103,002	5,018	4,142	264,279	18,823	73,133	494,114
Hydrocarbon Gas Liquids	660	4,436	3,049	50	188	8,383	574	2,344	15,772
Natural Gas Liquids	660	4,436	3,049	50	188	8,383	574	2,344	15,772
Normal Butane	245	1,162	835	41	—	2,283	213	775	4,821
Isobutane	267	1,971	1,374	8	188	3,808	222	755	6,821
Natural Gasoline	148	1,303	840	1	—	2,292	139	814	4,130
Other Liquids	9,219	-33,646	-26,091	8,328	-595	-42,785	-482	16,140	79,812
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	2,155	2,908	2,272	1,133	228	8,696	1,118	6,776	36,852
Hydrogen	6	1,982	1,639	76	44	3,747	198	1,341	6,518
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	2,149	926	633	1,057	184	4,949	920	5,435	30,301
Fuel Ethanol	2,032	863	517	1,021	156	4,589	870	4,833	28,521
Renewable Diesel Fuel ²	117	63	116	36	28	360	50	598	1,776
Other Renewable Fuels	—	—	—	—	—	—	—	4	4
Other Hydrocarbons	—	—	—	—	—	—	—	—	33
Unfinished Oils (net)	-366	-2,372	7,978	-103	-92	5,045	-548	3,223	8,500
Naphthas and Lighter	-332	-5,672	793	48	-15	-5,178	-267	593	-4,178
Kerosene and Light Gas Oils	149	232	2,224	-22	-25	2,558	-167	21	1,001
Heavy Gas Oils	-382	3,423	4,558	-51	-52	7,496	32	2,102	11,013
Residuum	199	-355	403	-78	—	169	-146	507	664
Motor Gasoline Blend.Comp. (MGBC)(net)	7,428	-34,182	-36,343	7,298	-731	-56,530	-1,052	6,141	34,456
Reformulated - RBOB	6,291	-6,637	-3,440	—	-759	-4,545	—	2,974	14,994
Conventional	1,137	-27,545	-32,903	7,298	28	-51,985	-1,052	3,167	19,462
CBOB	1,089	-28,887	-32,599	7,305	-39	-53,131	-1,083	1,804	5,626
GTAB	—	—	—	—	—	—	—	—	4,096
Other	48	1,342	-304	-7	67	1,146	31	1,363	9,740
Aviation Gasoline Blend. Comp. (net)	2	—	2	—	—	4	—	—	4
Total Input	29,682	103,104	79,960	13,396	3,735	229,877	18,915	91,617	589,698

— = No Data Reported.

¹ Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

² Renewable diesel fuel includes biodiesel and other renewable diesel.

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

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal and Blender Report."

Table 29. Refinery and Blender Net Production of Finished Petroleum Products by PAD and Refining Districts, March 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	583	23	606	2,520	230	340	3,090
Natural Gas Liquids	363	23	386	1,561	110	129	1,800
Ethane	-	-	-	-	-	-	-
Propane	470	29	499	1,576	279	392	2,247
Normal Butane	-132	4	-128	49	-119	-203	-273
Isobutane	25	-10	15	-64	-50	-60	-174
Natural Gasoline	-	-	-	-	-	-	-
Refinery Olefins	220	-	220	959	120	211	1,290
Ethylene	7	-	7	-	-	-	-
Propylene	225	-	225	936	120	198	1,254
Normal Butylene	-36	-	-36	23	-	-2	21
Isobutylene	24	-	24	-	-	15	15
Finished Motor Gasoline	94,626	7,395	102,021	52,237	10,031	15,936	78,204
Reformulated	39,950	80	40,030	8,427	1,553	1,205	11,185
Reformulated Blended with Fuel Ethanol	39,950	80	40,030	8,427	1,553	1,205	11,185
Reformulated Other	-	-	-	-	-	-	-
Conventional	54,676	7,315	61,991	43,810	8,478	14,731	67,019
Conventional Blended with Fuel Ethanol	57,277	7,254	64,531	40,281	8,842	13,816	62,939
Ed55 and Lower	57,230	7,254	64,484	40,271	8,811	13,750	62,832
Greater than Ed55	47	-	47	10	31	66	107
Conventional Other	-2,601	61	-2,540	3,529	-364	915	4,080
Finished Aviation Gasoline	-	-	-	-	30	-	30
Kerosene-Type Jet Fuel	2,454	-2	2,452	5,980	962	810	7,752
Kerosene	-18	-	-18	105	-	-	105
Distillate Fuel Oil	7,689	879	8,568	19,839	5,145	7,605	32,589
15 ppm sulfur and under	6,881	780	7,661	19,822	5,117	7,465	32,404
Greater than 15 ppm to 500 ppm sulfur	200	65	265	-	-	230	230
Greater than 500 ppm sulfur	608	34	642	17	28	-90	-45
Residual Fuel Oil	1,502	5	1,507	1,054	175	70	1,299
Less than 0.31 percent sulfur	567	4	571	68	-	-	68
0.31 to 1.00 percent sulfur	567	1	568	138	86	-	224
Greater than 1.00 percent sulfur	368	-	368	848	89	70	1,007
Petrochemical Feedstocks	77	-	77	911	-	35	946
Naphtha for Petro. Feed. Use	77	-	77	631	-	-	631
Other Oils for Petro. Feed. Use	-	-	-	280	-	35	315
Special Naphthas	-	19	19	-52	-	13	-39
Lubricants	224	228	452	-	-	208	208
Waxes	-	16	16	-	-	36	36
Petroleum Coke	573	20	593	4,122	874	627	5,623
Marketable	114	-	114	2,972	699	465	4,136
Catalyst	459	20	479	1,150	175	162	1,487
Asphalt and Road Oil	524	638	1,162	2,717	1,173	177	4,067
Still Gas	1,361	62	1,423	2,659	651	821	4,131
Miscellaneous Products	38	21	59	327	123	33	483
Total	109,633	9,304	118,937	92,419	19,394	26,711	138,524
Processing Gain(-) or Loss(+) ¹	-1,256	-9	-1,265	-4,921	-1,299	-687	-6,907

See footnotes at end of table.

Table 29. Refinery and Blender Net Production of Finished Petroleum Products by PAD and Refining Districts, March 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	721	6,768	5,803	20	47	13,359	329	2,123	19,507
Natural Gas Liquids	400	3,448	3,217	13	47	7,125	293	1,930	11,534
Ethane	1	161	20	-	-	182	-	-	182
Propane	301	2,366	2,134	11	49	4,861	236	1,073	8,916
Normal Butane	80	1,501	845	2	-6	2,422	62	678	2,761
Isobutane	18	-580	218	-	4	-340	-5	179	-325
Natural Gasoline	-	-	-	-	-	-	-	-	-
Refinery Olefins	321	3,320	2,586	7	-	6,234	36	193	7,973
Ethylene	-	-	-	-	-	-	-	-	7
Propylene	319	3,424	2,658	7	-	6,408	6	213	8,106
Normal Butylene	2	-76	-72	-	-	-146	30	-20	-151
Isobutylene	-	-28	-	-	-	-28	-	-	11
Finished Motor Gasoline	19,947	28,011	13,933	9,460	1,753	73,104	9,048	49,210	311,587
Reformulated	7,806	6,754	-	-	-	14,560	-	34,306	100,081
Reformulated Blended with Fuel Ethanol	7,806	6,754	-	-	-	14,560	-	34,306	100,081
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	12,141	21,257	13,933	9,460	1,753	58,544	9,048	14,904	211,506
Conventional Blended with Fuel Ethanol	12,221	1,738	5,175	10,169	1,584	30,887	8,703	13,866	180,926
Ed55 and Lower	12,206	1,738	5,175	10,155	1,584	30,858	8,692	13,862	180,728
Greater than Ed55	15	-	-	14	-	29	11	4	198
Conventional Other	-80	19,519	8,758	-709	169	27,657	345	1,038	30,580
Finished Aviation Gasoline	93	144	77	-	-	314	9	-1	352
Kerosene-Type Jet Fuel	1,373	14,159	12,410	144	1	28,087	1,131	14,145	53,567
Kerosene	14	30	-71	17	-	-10	-	17	94
Distillate Fuel Oil	6,589	41,034	36,932	1,412	1,698	87,665	6,364	18,821	154,007
15 ppm sulfur and under	6,583	38,072	30,868	1,311	1,698	78,532	6,282	18,054	142,933
Greater than 15 ppm to 500 ppm sulfur	6	325	2,805	102	-	3,238	75	311	4,119
Greater than 500 ppm sulfur	-	2,637	3,259	-1	-	5,895	7	456	6,955
Residual Fuel Oil	244	1,413	2,879	-56	75	4,555	401	3,313	11,075
Less than 0.31 percent sulfur	197	-125	838	-	-	910	200	5	1,754
0.31 to 1.00 percent sulfur	-	148	297	-56	-	389	22	190	1,393
Greater than 1.00 percent sulfur	47	1,390	1,744	-	75	3,256	179	3,118	7,928
Petrochemical Feedstocks	136	5,049	2,544	-	-	7,729	-	4	8,756
Naphtha for Petro. Feed. Use	123	3,506	1,759	-	-	5,388	-	4	6,100
Other Oils for Petro. Feed. Use	13	1,543	785	-	-	2,341	-	-	2,656
Special Naphthas	36	624	-	256	-	916	-	-1	895
Lubricants	31	998	1,518	786	-	3,333	-	400	4,393
Waxes	-	29	39	29	-	97	-	-	149
Petroleum Coke	351	8,044	5,339	66	36	13,836	794	4,792	25,638
Marketable	154	6,061	4,091	60	-	10,366	569	3,842	19,027
Catalyst	197	1,983	1,248	6	36	3,470	225	950	6,611
Asphalt and Road Oil	218	513	976	797	78	2,582	862	716	9,389
Still Gas	580	5,194	4,143	188	103	10,208	651	3,575	19,988
Miscellaneous Products	103	865	538	5	45	1,556	81	433	2,612
Total	30,436	112,875	87,060	13,124	3,836	247,331	19,670	97,547	622,009
Processing Gain(-) or Loss(+) ¹	-754	-9,771	-7,100	272	-101	-17,454	-755	-5,930	-32,311

- = No Data Reported.

¹ Represents the arithmetic difference between input and production.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal and Blender Report."

Table 30. Refinery Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, March 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	25,295	3,006	28,301	73,290	15,988	20,300	109,578
Hydrocarbon Gas Liquids	761	-	761	1,537	63	496	2,096
Natural Gas Liquids	761	-	761	1,537	63	496	2,096
Normal Butane	257	-	257	68	-	-	68
Isobutane	504	-	504	1,135	63	334	1,532
Natural Gasoline	-	-	-	334	-	162	496
Other Liquids	-12,014	170	-11,844	-32,678	-6,341	-8,651	-47,670
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	99	155	254	1,096	440	276	1,812
Hydrogen	39	9	48	743	294	147	1,184
Oxygenates (excluding Fuel Ethanol)	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE)	-	-	-	-	-	-	-
All Other Oxygenates ¹	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	60	146	206	320	146	129	595
Fuel Ethanol	60	124	184	210	129	110	449
Renewable Diesel Fuel ²	-	22	22	110	17	19	146
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	-	33	-	-	33
Unfinished Oils (net)	1,077	-20	1,057	628	-317	-598	-287
Naphthas and Lighter	938	-19	919	31	-144	-132	-245
Kerosene and Light Gas Oils	-872	-	-872	-219	-108	-212	-539
Heavy Gas Oils	723	-3	720	775	-65	-42	668
Residuum	288	2	290	41	-	-212	-171
Motor Gasoline Blend.Comp. (MGBC)(net)	-13,190	35	-13,155	-34,402	-6,464	-8,329	-49,195
Reformulated - RBOB	-8,022	-	-8,022	-7,865	-224	-	-8,089
Conventional	-5,168	35	-5,133	-26,537	-6,240	-8,329	-41,106
CBOB	-5,059	4	-5,055	-26,005	-5,937	-8,357	-40,299
GTAB	-	-	-	-	-	-	-
Other	-109	31	-78	-532	-303	28	-807
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input to Refineries	14,042	3,176	17,218	42,149	9,710	12,145	64,004
Atmospheric Crude Oil Distillation							
Gross Input (daily average)	817	99	916	2,355	512	656	3,523
Operable Capacity (daily average)	1,126	98	1,224	2,678	547	917	4,141
Operable Utilization Rate (percent) ³	72.6	100.3	74.8	88.0	93.7	71.5	85.1
Downstream Processing							
Fresh Feed Input (daily average)							
Catalytic Reforming	160	17	177	411	72	116	599
Catalytic Cracking	293	16	309	763	144	169	1,076
Catalytic Hydrocracking	18	-	18	147	53	46	246
Delayed and Fluid Coking	13	-	13	311	67	62	440
Crude Oil Qualities							
Sulfur Content, Weighted Average (percent)	0.68	1.61	0.78	1.59	1.79	0.56	1.42
API Gravity, Weighted Average (degrees)	38.46	32.98	37.90	32.76	28.41	39.38	33.31
Operable Capacity (daily average)	1,126	98	1,224	2,678	547	917	4,141
Operating	1,126	98	1,224	2,650	509	846	4,005
Idle	-	-	-	28	38	70	136
Alaskan Crude Oil Receipts	-	-	-	-	-	-	-

See footnotes at end of table.

Table 30. Refinery Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, March 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	19,803	132,314	103,002	5,018	4,142	264,279	18,823	73,133	494,114
Hydrocarbon Gas Liquids	562	3,720	2,930	9	188	7,409	465	2,278	13,009
Natural Gas Liquids	562	3,720	2,930	9	188	7,409	465	2,278	13,009
Normal Butane	161	818	716	—	—	1,695	150	709	2,879
Isobutane	267	1,971	1,374	8	188	3,808	220	755	6,819
Natural Gasoline	134	931	840	1	—	1,906	95	814	3,311
Other Liquids	-8,419	-45,269	-29,124	-651	-1,720	-85,183	-4,996	-30,100	-179,793
Hydrogen/Oxygenates/Renewables/									
Other Hydrocarbons	280	2,046	1,945	124	99	4,494	496	1,710	8,766
Hydrogen	6	1,982	1,639	76	44	3,747	198	1,341	6,518
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	274	64	306	48	55	747	298	369	2,215
Fuel Ethanol	214	50	190	41	44	539	264	84	1,520
Renewable Diesel Fuel ²	60	14	116	7	11	208	34	285	695
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	—	—	—	—	—	33
Unfinished Oils (net)	-366	-2,581	8,109	-103	-92	4,967	-548	3,223	8,412
Naphthas and Lighter	-332	-5,672	793	48	-15	-5,178	-267	593	-4,178
Kerosene and Light Gas Oils	149	23	2,224	-22	-25	2,349	-167	21	792
Heavy Gas Oils	-382	3,423	4,689	-51	-52	7,627	32	2,102	11,149
Residuum	199	-355	403	-78	—	169	-146	507	649
Motor Gasoline Blend.Comp. (MGBC)(net)	-8,335	-44,734	-39,180	-672	-1,727	-94,648	-4,944	-35,033	-196,975
Reformulated - RBOB	-700	-11,942	-3,440	—	-759	-16,841	—	-27,141	-60,093
Conventional	-7,635	-32,792	-35,740	-672	-968	-77,807	-4,944	-7,892	-136,882
CBOB	-7,683	-28,270	-34,372	-658	-1,031	-72,014	-4,974	-8,967	-131,309
GTAB	—	—	—	—	—	—	—	—	—
Other	48	-4,522	-1,368	-14	63	-5,793	30	1,075	-5,573
Aviation Gasoline Blend. Comp. (net)	2	—	2	—	—	4	—	—	4
Total Input to Refineries	11,946	90,765	76,808	4,376	2,610	186,505	14,292	45,311	327,330
Atmospheric Crude Oil Distillation									
Gross Input (daily average)	635	4,304	3,391	154	138	8,622	607	2,519	16,188
Operable Capacity (daily average)	745	5,047	3,696	256	136	9,881	687	2,875	18,807
Operable Utilization Rate (percent) ³	85.2	85.3	91.8	60.1	101.2	87.3	88.5	87.6	86.1
Downstream Processing									
Fresh Feed Input (daily average)									
Catalytic Reforming	136	646	597	26	30	1,435	91	415	2,716
Catalytic Cracking	150	1,252	892	5	32	2,332	160	612	4,490
Catalytic Hydrocracking	40	486	451	5	18	999	24	483	1,771
Delayed and Fluid Coking	22	712	450	13	—	1,196	64	432	2,145
Crude Oil Qualities									
Sulfur Content, Weighted Average (percent)	0.59	1.49	1.26	1.52	0.76	1.32	1.34	1.39	1.32
API Gravity, Weighted Average (degrees)	40.22	32.81	33.25	29.57	39.37	33.60	33.69	28.70	33.04
Operable Capacity (daily average)	745	5,047	3,696	256	136	9,881	687	2,875	18,807
Operating	745	5,005	3,696	256	136	9,838	677	2,875	18,620
Idle	—	43	—	—	—	43	10	—	188
Alaskan Crude Oil Receipts	—	—	—	—	—	—	—	15,412	15,412

— = No Data Reported.

NA = Not Available.

¹ Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

² Renewable diesel fuel includes biodiesel and other renewable diesel.

³ Represents gross input divided by operable calendar day capacity.

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

Note: Refer to Appendix A for Refining District descriptions.

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

Table 31. Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts, March 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	583	23	606	2,520	230	340	3,090
Natural Gas Liquids	363	23	386	1,561	110	129	1,800
Ethane	-	-	-	-	-	-	-
Propane	470	29	499	1,576	279	392	2,247
Normal Butane	-132	4	-128	49	-119	-203	-273
Isobutane	25	-10	15	-64	-50	-60	-174
Natural Gasoline	-	-	-	-	-	-	-
Refinery Olefins	220	-	220	959	120	211	1,290
Ethylene	7	-	7	-	-	-	-
Propylene	225	-	225	936	120	198	1,254
Normal Butylene	-36	-	-36	23	-	-2	21
Isobutylene	24	-	24	-	-	15	15
Finished Motor Gasoline	599	1,320	1,919	7,068	1,696	2,097	10,861
Reformulated	599	-	599	-	-	-	-
Reformulated Blended with Fuel Ethanol	599	-	599	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-
Conventional	-	1,320	1,320	7,068	1,696	2,097	10,861
Conventional Blended with Fuel Ethanol	-	1,245	1,245	2,128	1,299	875	4,302
Ed55 and Lower	-	1,245	1,245	2,128	1,299	875	4,302
Greater than Ed55	-	-	-	-	-	-	-
Conventional Other	-	75	75	4,940	397	1,222	6,559
Finished Aviation Gasoline	-	-	-	-	30	-	30
Kerosene-Type Jet Fuel	2,454	-	2,454	6,032	962	810	7,804
Kerosene	-18	-	-18	106	-	-	106
Distillate Fuel Oil	7,331	834	8,165	19,623	5,097	7,568	32,288
15 ppm sulfur and under	6,580	735	7,315	19,606	5,069	7,428	32,103
Greater than 15 ppm to 500 ppm sulfur	37	65	102	-	-	122	122
Greater than 500 ppm sulfur	714	34	748	17	28	18	63
Residual Fuel Oil	1,556	5	1,561	1,054	175	70	1,299
Less than 0.31 percent sulfur	622	4	626	68	-	-	68
0.31 to 1.00 percent sulfur	565	1	566	138	86	-	224
Greater than 1.00 percent sulfur	369	-	369	848	89	70	1,007
Petrochemical Feedstocks	77	-	77	911	-	35	946
Naphtha for Petro. Feed. Use	77	-	77	631	-	-	631
Other Oils for Petro. Feed. Use	-	-	-	280	-	35	315
Special Naphthas	-	19	19	-52	-	13	-39
Lubricants	224	228	452	-	-	208	208
Waxes	-	16	16	-	-	36	36
Petroleum Coke	573	20	593	4,122	874	627	5,623
Marketable	114	-	114	2,972	699	465	4,136
Catalyst	459	20	479	1,150	175	162	1,487
Asphalt and Road Oil	524	638	1,162	2,702	1,173	177	4,052
Still Gas	1,361	62	1,423	2,659	651	821	4,131
Miscellaneous Products	38	21	59	327	123	33	483
Total	15,302	3,186	18,488	47,072	11,011	12,835	70,918
Processing Gain(-) or Loss(+) ¹	-1,260	-10	-1,270	-4,923	-1,301	-690	-6,914

See footnotes at end of table.

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

Commodity	PAD District 3 - Gulf Coast						Total	PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico					
Hydrocarbon Gas Liquids	721	6,768	5,803	20	47	13,359	329	2,123	19,507	
Natural Gas Liquids	400	3,448	3,217	13	47	7,125	293	1,930	11,534	
Ethane	1	161	20	-	-	182	-	-	182	
Propane	301	2,366	2,134	11	49	4,861	236	1,073	8,916	
Normal Butane	80	1,501	845	2	-6	2,422	62	678	2,761	
Isobutane	18	-580	218	-	4	-340	-5	179	-325	
Natural Gasoline	-	-	-	-	-	-	-	-	-	
Refinery Olefins	321	3,320	2,586	7	-	6,234	36	193	7,973	
Ethylene	-	-	-	-	-	-	-	-	7	
Propylene	319	3,424	2,658	7	-	6,408	6	213	8,106	
Normal Butylene	2	-76	-72	-	-	-146	30	-20	-151	
Isobutylene	-	-28	-	-	-	-28	-	-	11	
Finished Motor Gasoline	2,271	15,927	10,650	474	646	29,968	4,436	3,219	50,403	
Reformulated	-	-	-	-	-	-	-	504	1,103	
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	504	1,103	
Reformulated Other	-	-	-	-	-	-	-	-	-	
Conventional	2,271	15,927	10,650	474	646	29,968	4,436	2,715	49,300	
Conventional Blended with Fuel Ethanol	2,141	502	1,913	401	443	5,400	2,675	323	13,945	
Ed55 and Lower	2,139	502	1,913	401	443	5,398	2,675	323	13,943	
Greater than Ed55	2	-	-	-	-	2	-	-	2	
Conventional Other	130	15,425	8,737	73	203	24,568	1,761	2,392	35,355	
Finished Aviation Gasoline	93	144	77	-	-	314	9	-1	352	
Kerosene-Type Jet Fuel	1,373	14,133	12,399	145	-	28,050	1,077	14,167	53,552	
Kerosene	14	57	-73	17	-	15	-	1	104	
Distillate Fuel Oil	6,530	41,035	36,992	1,383	1,681	87,621	6,408	18,509	152,991	
15 ppm sulfur and under	6,524	38,223	30,881	1,282	1,681	78,591	6,326	17,758	142,093	
Greater than 15 ppm to 500 ppm sulfur	6	325	2,839	102	-	3,272	75	311	3,882	
Greater than 500 ppm sulfur	-	2,487	3,272	-1	-	5,758	7	440	7,016	
Residual Fuel Oil	244	1,154	2,963	-56	75	4,380	401	3,308	10,949	
Less than 0.31 percent sulfur	197	24	934	-	-	1,155	200	-	2,049	
0.31 to 1.00 percent sulfur	-	75	297	-56	-	316	22	190	1,318	
Greater than 1.00 percent sulfur	47	1,055	1,732	-	75	2,909	179	3,118	7,582	
Petrochemical Feedstocks	136	5,049	2,544	-	-	7,729	-	4	8,756	
Naphtha for Petro. Feed. Use	123	3,506	1,759	-	-	5,388	-	4	6,100	
Other Oils for Petro. Feed. Use	13	1,543	785	-	-	2,341	-	-	2,656	
Special Naphthas	36	624	-	256	-	916	-	-1	895	
Lubricants	31	998	1,518	786	-	3,333	-	400	4,393	
Waxes	-	29	39	29	-	97	-	-	149	
Petroleum Coke	351	8,044	5,339	66	36	13,836	794	4,792	25,638	
Marketable	154	6,061	4,091	60	-	10,366	569	3,842	19,027	
Catalyst	197	1,983	1,248	6	36	3,470	225	950	6,611	
Asphalt and Road Oil	218	513	976	797	78	2,582	862	716	9,374	
Still Gas	580	5,194	4,143	188	103	10,208	651	3,575	19,988	
Miscellaneous Products	103	865	538	5	45	1,556	81	433	2,612	
Total	12,701	100,534	83,908	4,110	2,711	203,964	15,048	51,245	359,663	
Processing Gain(-) or Loss(+) ¹	-755	-9,769	-7,100	266	-101	-17,459	-756	-5,934	-32,333	

- = No Data Reported.

¹ Represents the arithmetic difference between input and production.

Note: Refer to Appendix A for Refining District descriptions.

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

Table 32. Blender Net Inputs of Petroleum Products by PAD District, March 2019
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	1,064	-	1,064	184	77	289	550
Natural Gas Liquids	1,064	-	1,064	184	77	289	550
Normal Butane	780	-	780	174	61	210	445
Isobutane	-	-	-	-	-	-	-
Natural Gasoline	284	-	284	10	16	79	105
Other Liquids	93,271	6,119	99,390	45,165	8,308	13,590	67,063
Oxygenates/Renewables	10,221	653	10,874	4,851	977	1,494	7,322
Oxygenates (excluding Fuel Ethanol)	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE)	-	-	-	-	-	-	-
All Other Oxygenates ¹	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	10,221	653	10,874	4,851	977	1,494	7,322
Fuel Ethanol	9,911	609	10,520	4,687	932	1,457	7,076
Renewable Diesel Fuel ²	310	44	354	164	45	37	246
Other Renewable Fuels	-	-	-	-	-	-	-
Unfinished Oils (net)	-5	-	-5	15	-	-	15
Naphthas and Lighter	-	-	-	-	-	-	-
Kerosene and Light Gas Oils	-	-	-	-	-	-	-
Heavy Gas Oils	-5	-	-5	-	-	-	-
Residuum	-	-	-	15	-	-	15
Motor Gasoline Blend.Comp. (MGBC)(net)	83,055	5,466	88,521	40,299	7,331	12,096	59,726
Reformulated - RBOB	22,985	72	23,057	7,137	1,397	1,085	9,619
Conventional	60,070	5,394	65,464	33,162	5,934	11,011	50,107
CBOB	47,909	5,394	53,303	33,142	5,934	11,011	50,087
GTAB	4,096	-	4,096	-	-	-	-
Other	8,065	-	8,065	20	-	-	20
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input	94,335	6,119	100,454	45,349	8,385	13,879	67,613

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	98	716	119	41	-	974	109	66	2,763
Natural Gas Liquids	98	716	119	41	-	974	109	66	2,763
Normal Butane	84	344	119	41	-	588	63	66	1,942
Isobutane	-	-	-	-	-	-	2	-	2
Natural Gasoline	14	372	-	-	-	386	44	-	819
Other Liquids	17,638	11,623	3,033	8,979	1,125	42,398	4,514	46,240	259,605
Oxygenates/Renewables	1,875	862	327	1,009	129	4,202	622	5,066	28,086
Oxygenates (excluding Fuel Ethanol)	-	-	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE)	-	-	-	-	-	-	-	-	-
All Other Oxygenates ¹	-	-	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	1,875	862	327	1,009	129	4,202	622	5,066	28,086
Fuel Ethanol	1,818	813	327	980	112	4,050	606	4,749	27,001
Renewable Diesel Fuel ²	57	49	-	29	17	152	16	313	1,081
Other Renewable Fuels	-	-	-	-	-	-	-	4	4
Unfinished Oils (net)	-	209	-131	-	-	78	-	-	88
Naphthas and Lighter	-	-	-	-	-	-	-	-	-
Kerosene and Light Gas Oils	-	209	-	-	-	209	-	-	209
Heavy Gas Oils	-	-	-131	-	-	-131	-	-	-136
Residuum	-	-	-	-	-	-	-	-	15
Motor Gasoline Blend.Comp. (MGBC)(net)	15,763	10,552	2,837	7,970	996	38,118	3,892	41,174	231,431
Reformulated - RBOB	6,991	5,305	-	-	-	12,296	-	30,115	75,087
Conventional	8,772	5,247	2,837	7,970	996	25,822	3,892	11,059	156,344
CBOB	8,772	-617	1,773	7,963	992	18,883	3,891	10,771	136,935
GTAB	-	-	-	-	-	-	-	-	4,096
Other	-	5,864	1,064	7	4	6,939	1	288	15,313
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-	-	-
Total Input	17,736	12,339	3,152	9,020	1,125	43,372	4,623	46,306	262,368

- = No Data Reported.

¹ Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

² Renewable diesel fuel includes biodiesel and other renewable diesel.

Note: Refer to Appendix A for Refining District descriptions.

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

Table 33. Blender Net Production of Petroleum Products by PAD District, March 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	94,027	6,075	100,102	45,169	8,335	13,839	67,343
Reformulated	39,351	80	39,431	8,427	1,553	1,205	11,185
Reformulated Blended with Fuel Ethanol	39,351	80	39,431	8,427	1,553	1,205	11,185
Reformulated Other	-	-	-	-	-	-	-
Conventional	54,676	5,995	60,671	36,742	6,782	12,634	56,158
Conventional Blended with Fuel Ethanol	57,277	6,009	63,286	38,153	7,543	12,941	58,637
Ed55 and Lower	57,230	6,009	63,239	38,143	7,512	12,875	58,530
Greater than Ed55	47	-	47	10	31	66	107
Conventional Other	-2,601	-14	-2,615	-1,411	-761	-307	-2,479
Finished Aviation Gasoline	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	0	-2	-2	-52	-	0	-52
Kerosene	-	-	-	-1	-	-	-1
Distillate Fuel Oil	358	45	403	216	48	37	301
15 ppm sulfur and under	301	45	346	216	48	37	301
Greater than 15 ppm to 500 ppm sulfur	163	-	163	-	-	108	108
Greater than 500 ppm sulfur	-106	-	-106	-	-	-108	-108
Residual Fuel Oil	-54	-	-54	-	-	-	-
Less than 0.31 percent sulfur	-55	-	-55	-	-	-	-
0.31 to 1.00 percent sulfur	2	-	2	-	-	-	-
Greater than 1.00 percent sulfur	-1	-	-1	-	-	-	-
Special Naphthas	-	-	-	-	-	-	-
Lubricants	-	-	-	-	-	-	-
Asphalt and Road Oil	-	-	-	15	-	-	15
Miscellaneous Products	-	-	-	-	-	-	-
Total Production	94,331	6,118	100,449	45,347	8,383	13,876	67,606
Processing Gain(-) or Loss(+) ¹	4	1	5	2	2	3	7

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Finished Motor Gasoline	17,676	12,084	3,283	8,986	1,107	43,136	4,612	45,991	261,184
Reformulated	7,806	6,754	-	-	-	14,560	-	33,802	98,978
Reformulated Blended with Fuel Ethanol	7,806	6,754	-	-	-	14,560	-	33,802	98,978
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	9,870	5,330	3,283	8,986	1,107	28,576	4,612	12,189	162,206
Conventional Blended with Fuel Ethanol	10,080	1,236	3,262	9,768	1,141	25,487	6,028	13,543	166,981
Ed55 and Lower	10,067	1,236	3,262	9,754	1,141	25,460	6,017	13,539	166,785
Greater than Ed55	13	-	-	14	-	27	11	4	196
Conventional Other	-210	4,094	21	-782	-34	3,089	-1,416	-1,354	-4,775
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	0	26	11	-1	1	37	54	-22	15
Kerosene	-	-27	2	-	-	-25	-	16	-10
Distillate Fuel Oil	59	-1	-60	29	17	44	-44	312	1,016
15 ppm sulfur and under	59	-151	-13	29	17	-59	-44	296	840
Greater than 15 ppm to 500 ppm sulfur	-	-	-34	-	-	-34	-	-	237
Greater than 500 ppm sulfur	-	150	-13	-	-	137	-	16	-61
Residual Fuel Oil	-	259	-84	-	-	175	-	5	126
Less than 0.31 percent sulfur	-	-149	-96	-	-	-245	-	5	-295
0.31 to 1.00 percent sulfur	-	73	-	-	-	73	-	-	75
Greater than 1.00 percent sulfur	-	335	12	-	-	347	-	-	346
Special Naphthas	-	-	-	-	-	-	-	-	-
Lubricants	-	-	-	-	-	-	-	-	-
Asphalt and Road Oil	-	-	-	-	-	-	-	-	15
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total Production	17,735	12,341	3,152	9,014	1,125	43,367	4,622	46,302	262,346
Processing Gain(-) or Loss(+) ¹	1	-2	0	6	0	5	1	4	22

- = No Data Reported.

¹ Represents the arithmetic difference between input and production.

Note: Refer to Appendix A for Refining District descriptions.

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

Table 34. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, March 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	10,091	752	10,843	9,453	2,004	2,031	13,488
Petroleum Products	14,566	2,357	16,923	28,446	9,780	12,323	50,549
Hydrocarbon Gas Liquids	667	23	690	1,618	147	926	2,691
Natural Gas Liquids	521	23	544	1,352	128	783	2,263
Ethane	—	—	—	—	—	—	—
Propane	67	3	70	337	41	83	461
Normal Butane	280	4	284	778	54	145	977
Isobutane	174	16	190	178	33	95	306
Natural Gasoline	—	—	—	59	—	460	519
Refinery Olefins	146	0	146	266	19	143	428
Ethylene	—	—	—	—	—	—	—
Propylene	55	0	55	245	19	26	290
Normal Butylene	48	0	48	21	0	2	23
Isobutylene	43	0	43	0	0	115	115
Oxygenates/Renewable Fuels/Other Hydrocarbons	157	98	255	73	62	23	158
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	157	98	255	40	62	23	125
Fuel Ethanol	157	93	250	31	57	20	108
Renewable Diesel Fuel ²	—	5	5	9	5	3	17
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	33	—	—	33
Unfinished Oils	4,864	371	5,235	8,120	1,154	4,385	13,659
Naphthas and Lighter	1,018	250	1,268	2,559	211	1,166	3,936
Kerosene and Light Gas Oils	1,145	—	1,145	1,682	407	673	2,762
Heavy Gas Oils	1,829	117	1,946	2,591	532	1,548	4,671
Residuum	872	4	876	1,288	4	998	2,290
Motor Gasoline Blending Components (MGBC)	5,096	284	5,380	8,696	2,818	3,782	15,296
Reformulated - RBOB	1,346	—	1,346	945	113	—	1,058
Conventional	3,750	284	4,034	7,751	2,705	3,782	14,238
CBOB	706	251	957	2,998	1,197	2,432	6,627
GTAB	—	—	—	—	—	—	—
Other	3,044	33	3,077	4,753	1,508	1,350	7,611
Aviation Gasoline Blending Components	—	—	—	—	—	—	—
Finished Motor Gasoline	—	44	44	1,049	99	293	1,441
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	—	44	44	1,049	99	293	1,441
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	—	44	44	1,049	99	293	1,441
Finished Aviation Gasoline	—	—	—	—	91	—	91
Kerosene-Type Jet Fuel	522	—	522	1,227	292	269	1,788
Kerosene	83	2	85	84	—	8	92
Distillate Fuel Oil	1,931	268	2,199	3,584	1,271	1,967	6,822
15 ppm sulfur and under	1,446	123	1,569	3,428	1,091	1,730	6,249
Greater than 15 ppm to 500 ppm sulfur	114	118	232	—	9	156	165
Greater than 500 ppm sulfur	371	27	398	156	171	81	408
Residual Fuel Oil	449	16	465	750	263	40	1,053
Less than 0.31 percent sulfur	58	14	72	75	—	—	75
0.31 to 1.00 percent sulfur	83	2	85	68	72	—	140
Greater than 1.00 percent sulfur	308	—	308	607	191	40	838
Petrochemical Feedstocks	145	—	145	482	—	—	482
Naphtha for Petro. Feed. Use	145	—	145	389	—	—	389
Other Oils for Petro. Feed. Use	—	—	—	93	—	—	93
Special Naphthas	—	21	21	39	—	20	59
Lubricants	477	237	714	—	—	247	247
Waxes	—	376	376	—	—	43	43
Petroleum Coke	—	—	—	382	1,496	79	1,957
Marketable	—	—	—	382	1,496	79	1,957
Catalyst	—	—	—	—	—	—	—
Asphalt and Road Oil	166	597	763	2,256	2,058	236	4,550
Miscellaneous Products	9	20	29	86	29	5	120
Total Stocks, All Oils	24,657	3,109	27,766	37,899	11,784	14,354	64,037

See footnotes at end of table.

Table 34. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, March 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	1,373	26,038	17,100	1,360	347	46,218	2,261	21,971	94,781
Petroleum Products	9,378	60,362	48,144	3,999	1,251	123,134	11,237	49,792	251,635
Hydrocarbon Gas Liquids	1,889	1,763	4,430	9	38	8,129	456	1,222	13,188
Natural Gas Liquids	1,283	1,462	2,703	9	38	5,495	450	1,183	9,935
Ethane	227	1	—	—	—	228	—	—	228
Propane	231	170	463	1	6	871	51	139	1,592
Normal Butane	418	1,081	760	4	10	2,273	208	639	4,381
Isobutane	330	191	1,184	4	11	1,720	171	403	2,790
Natural Gasoline	77	19	296	—	11	403	20	2	944
Refinery Olefins	606	301	1,727	0	0	2,634	6	39	3,253
Ethylene	0	0	—	—	—	0	—	—	0
Propylene	601	58	679	0	0	1,338	1	13	1,697
Normal Butylene	5	243	1,048	0	0	1,296	5	26	1,398
Isobutylene	0	0	0	0	0	0	0	0	158
Oxygenates/Renewable Fuels/Other Hydrocarbons	38	32	193	40	11	314	174	434	1,335
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	38	32	193	40	11	314	174	434	1,302
Fuel Ethanol	32	20	57	20	9	138	98	29	623
Renewable Diesel Fuel ²	6	12	136	20	2	176	76	405	679
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	—	—	—	—	—	33
Unfinished Oils	2,941	22,668	13,915	976	572	41,072	3,744	18,223	81,933
Naphthas and Lighter	1,112	6,101	2,164	205	174	9,756	983	3,654	19,597
Kerosene and Light Gas Oils	307	3,875	2,219	209	159	6,769	496	3,151	14,323
Heavy Gas Oils	1,147	10,476	7,431	508	239	19,801	1,781	8,644	36,843
Residuum	375	2,216	2,101	54	—	4,746	484	2,774	11,170
Motor Gasoline Blending Components (MGBC)	2,422	12,735	12,229	236	318	27,940	2,954	13,528	65,098
Reformulated - RBOB	129	1,048	698	—	—	1,875	—	5,399	9,678
Conventional	2,293	11,687	11,531	236	318	26,065	2,954	8,129	55,420
CBOB	1,217	3,430	5,429	163	80	10,319	1,612	1,887	21,402
GTAB	—	—	1	—	—	1	—	—	1
Other	1,076	8,257	6,101	73	238	15,745	1,342	6,242	34,017
Aviation Gasoline Blending Components	30	—	5	—	—	35	—	—	35
Finished Motor Gasoline	80	1,947	1,394	12	—	3,433	645	582	6,145
Reformulated	—	—	—	—	—	—	—	18	18
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	18	18
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	80	1,947	1,394	12	—	3,433	645	564	6,127
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	48	—	48
Ed55 and Lower	—	—	—	—	—	—	48	—	48
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	80	1,947	1,394	12	—	3,433	597	564	6,079
Finished Aviation Gasoline	36	220	146	—	—	402	10	76	579
Kerosene-Type Jet Fuel	309	3,599	2,137	47	—	6,092	352	3,744	12,498
Kerosene	31	6	51	8	—	96	1	1	275
Distillate Fuel Oil	842	7,082	7,017	329	128	15,398	1,785	5,732	31,936
15 ppm sulfur and under	823	5,814	5,349	214	128	12,328	1,582	5,164	26,892
Greater than 15 ppm to 500 ppm sulfur	19	191	556	11	—	777	122	177	1,473
Greater than 500 ppm sulfur	—	1,077	1,112	104	—	2,293	81	391	3,571
Residual Fuel Oil	90	1,983	1,391	20	55	3,539	233	2,847	8,137
Less than 0.31 percent sulfur	4	—	196	—	—	200	34	—	381
0.31 to 1.00 percent sulfur	—	156	52	20	—	228	3	211	667
Greater than 1.00 percent sulfur	86	1,827	1,143	—	55	3,111	196	2,636	7,089
Petrochemical Feedstocks	111	1,910	712	22	—	2,755	—	4	3,386
Naphtha for Petro. Feed. Use	34	1,165	665	22	—	1,886	—	4	2,424
Other Oils for Petro. Feed. Use	77	745	47	—	—	869	—	—	962
Special Naphthas	109	839	—	122	—	1,070	—	26	1,176
Lubricants	46	2,450	2,421	970	—	5,887	—	740	7,588
Waxes	—	78	126	67	—	271	—	—	690
Petroleum Coke	12	2,669	1,140	—	—	3,821	113	1,562	7,453
Marketable	12	2,669	1,140	—	—	3,821	113	1,562	7,453
Catalyst	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	377	152	707	1,141	97	2,474	755	975	9,517
Miscellaneous Products	15	229	130	—	32	406	15	96	666
Total Stocks, All Oils	10,751	86,400	65,244	5,359	1,598	169,352	13,498	71,763	346,416

— = No Data Reported.

¹ Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

² Renewable diesel fuel includes biodiesel and other renewable diesel.

Note: Refer to Appendix A for Refining District descriptions.

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

Table 35. Percent Yield of Petroleum Products by PAD and Refining Districts, March 2019

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	2.2	0.8	2.1	3.4	1.4	1.7	2.8
Finished Motor Gasoline ¹	49.1	38.8	48.1	53.2	49.9	49.5	52.0
Finished Aviation Gasoline ²	-	-	-	-	0.2	-	0.0
Kerosene-Type Jet Fuel	9.3	-	8.4	8.1	6.0	4.1	7.1
Kerosene	-0.1	-	-0.1	0.1	-	-	0.1
Distillate Fuel Oil ³	27.8	27.1	27.7	26.1	31.8	38.0	29.1
Residual Fuel Oil	5.9	0.2	5.3	1.4	1.1	0.4	1.2
Naphtha for Petro. Feed. Use	0.3	-	0.3	0.8	-	-	0.6
Other Oils for Petro. Feed. Use	-	-	-	0.4	-	0.2	0.3
Special Naphthas	-	0.6	0.1	-0.1	-	0.1	0.0
Lubricants	0.9	7.6	1.5	-	-	1.1	0.2
Waxes	-	0.5	0.1	-	-	0.2	0.0
Petroleum Coke	2.2	0.7	2.0	5.5	5.5	3.2	5.1
Asphalt and Road Oil	2.0	21.3	4.0	3.6	7.4	0.9	3.7
Still Gas	5.2	2.1	4.8	3.6	4.1	4.1	3.7
Miscellaneous Products	0.1	0.7	0.2	0.4	0.8	0.2	0.4
Processing Gain(-) or Loss(+) ⁴	-4.8	-0.3	-4.3	-6.6	-8.1	-3.5	-6.3

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	3.7	5.1	5.2	0.4	1.2	4.9	1.8	2.7	3.8
Finished Motor Gasoline ¹	50.6	43.2	41.4	22.0	52.3	42.7	46.8	46.2	45.7
Finished Aviation Gasoline ²	0.5	0.1	0.1	-	-	0.1	0.1	0.0	0.1
Kerosene-Type Jet Fuel	7.1	10.7	11.0	2.9	-	10.3	5.8	18.2	10.5
Kerosene	0.1	0.0	-0.1	0.3	-	0.0	-	0.0	0.0
Distillate Fuel Oil ³	33.3	31.1	32.7	27.6	40.8	32.0	34.5	23.5	29.9
Residual Fuel Oil	1.3	0.9	2.6	-1.1	1.8	1.6	2.2	4.3	2.2
Naphtha for Petro. Feed. Use	0.6	2.7	1.6	-	-	2.0	-	0.0	1.2
Other Oils for Petro. Feed. Use	0.1	1.2	0.7	-	-	0.9	-	-	0.5
Special Naphthas	0.2	0.5	-	5.1	-	0.3	-	0.0	0.2
Lubricants	0.2	0.8	1.4	15.8	-	1.2	-	0.5	0.9
Waxes	-	0.0	0.0	0.6	-	0.0	-	-	0.0
Petroleum Coke	1.8	6.1	4.7	1.3	0.9	5.1	4.3	6.2	5.0
Asphalt and Road Oil	1.1	0.4	0.9	16.0	1.9	1.0	4.7	0.9	1.8
Still Gas	3.0	3.9	3.7	3.8	2.5	3.7	3.5	4.6	3.9
Miscellaneous Products	0.5	0.7	0.5	0.0	1.0	0.6	0.4	0.6	0.5
Processing Gain(-) or Loss(+) ⁴	-3.9	-7.4	-6.3	5.5	-2.5	-6.4	-4.1	-7.6	-6.4

- = No Data Reported.

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

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

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

⁴ Represents the arithmetic difference between input and production.

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

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

Note: Refer to Appendix A for Refining District descriptions.

Source: Calculated from data on Tables 30 and 31.

Table 36. Imports of Residual Fuel Oil by Sulfur Content and by PAD District and State of Entry, March 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	-	1	1,801	1,802
Connecticut	-	-	-	-
Delaware	-	-	-	-
Florida	-	-	241	241
Georgia	-	-	-	-
Maine	-	-	-	-
Maryland	-	-	-	-
Massachusetts	-	-	-	-
New Hampshire	-	-	-	-
New Jersey	-	-	1,205	1,205
New York	-	-	-	-
North Carolina	-	-	-	-
Pennsylvania	-	-	286	286
Rhode Island	-	-	-	-
South Carolina	-	-	69	69
Vermont	-	1	-	1
Virginia	-	-	-	-
West Virginia	-	-	-	-
PAD District 2	-	50	-	50
Illinois	-	-	-	-
Indiana	-	-	-	-
Michigan	-	1	-	1
Minnesota	-	43	-	43
North Dakota	-	6	-	6
Ohio	-	-	-	-
Wisconsin	-	-	-	-
PAD District 3	596	57	944	1,597
Alabama	-	-	-	-
Louisiana	-	57	-	57
Mississippi	-	-	-	-
New Mexico	-	-	-	-
Texas	596	-	944	1,540
PAD District 4	-	-	-	-
Idaho	-	-	-	-
Montana	-	-	-	-
PAD District 5	-	177	448	625
Alaska	-	-	-	-
California	-	-	399	399
Hawaii	-	-	-	-
Oregon	-	-	49	49
Washington	-	177	-	177
U.S. Total	596	285	3,193	4,074

- = No Data Reported.

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

Table 37. Imports of Crude Oil and Petroleum Products by PAD District, March 2019
(Thousand Barrels, Except Where Noted)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil^{1,2}	23,859	76,864	63,614	8,877	36,327	209,541	6,759
Hydrocarbon Gas Liquids	1,780	3,417	100	508	2,014	7,819	252
Natural Gas Liquids	1,709	3,028	—	508	2,014	7,259	234
Ethane	—	—	—	—	—	—	—
Propane	1,399	2,242	—	429	1,330	5,400	174
Normal Butane	48	641	—	67	632	1,388	45
Isobutane	262	141	—	12	52	467	15
Natural Gasoline	—	4	—	—	—	4	0
Refinery Olefins	71	389	100	—	—	560	18
Ethylene	—	—	—	—	—	—	—
Propylene	71	252	—	—	—	323	10
Normal Butylene	—	137	100	—	—	237	8
Isobutylene	—	—	—	—	—	—	—
Other Liquids	16,915	528	13,629	96	4,501	35,669	1,151
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	333	89	26	8	789	1,245	40
Hydrogen	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol)	—	—	25	—	—	25	1
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—
Other Oxygenates ³	—	—	25	—	—	25	1
Renewable Fuels (including Fuel Ethanol)	333	89	—	8	789	1,219	39
Fuel Ethanol	—	—	—	—	251	251	8
Biodiesel	333	89	—	8	79	509	16
Other Renewable Diesel Fuel	—	—	—	—	459	459	15
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	1	—	—	1	0
Unfinished Oils ¹	2,087	107	11,082	—	1,903	15,179	490
Naphthas and Lighter	485	28	—	—	189	702	23
Kerosene and Lighter Gas Oils	—	—	20	—	—	20	1
Heavy Gas Oils	1,602	79	9,215	—	1,714	12,610	407
Residuum	—	—	1,847	—	—	1,847	60
Motor Gasoline Blend.Comp. (MGBC)	14,495	332	2,521	88	1,809	19,245	621
Reformulated - RBOB	3,953	—	325	—	651	4,929	159
Conventional	10,542	332	2,196	88	1,158	14,316	462
CBOB	959	63	—	—	307	1,329	43
GTAB	2,477	—	299	—	—	2,776	90
Other	7,106	269	1,897	88	851	10,211	329
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	12,223	992	3,546	136	4,034	20,931	675
Finished Motor Gasoline	2,570	—	—	—	386	2,956	95
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	2,570	—	—	—	386	2,956	95
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	2,570	—	—	—	386	2,956	95
Finished Aviation Gasoline	1	2	—	1	1	5	0
Kerosene-Type Jet Fuel	1,911	—	—	—	2,565	4,476	144
Bonded Aircraft Fuel	282	—	—	—	1,337	1,619	52
Other	1,629	—	—	—	1,228	2,857	92
Kerosene	—	—	—	—	—	—	—
Distillate Fuel Oil	4,933	351	38	78	186	5,586	180
15 ppm sulfur and under	4,685	256	38	78	185	5,242	169
Bonded	—	—	—	—	—	—	—
Other	4,685	256	38	78	185	5,242	169
Greater than 15 ppm to 500 ppm sulfur	51	—	—	—	—	51	2
Bonded	—	—	—	—	—	—	—
Other	51	—	—	—	—	51	2
Greater than 500 ppm to 2000 ppm sulfur	197	76	—	—	1	274	9
Bonded	—	—	—	—	—	—	—
Other	197	76	—	—	1	274	9
Greater than 2000 ppm	—	19	—	—	—	19	1
Bonded	—	—	—	—	—	—	—
Other	—	19	—	—	—	19	1
Residual Fuel Oil	1,802	50	1,597	—	625	4,074	131
Less than 0.31 percent sulfur	—	—	596	—	—	596	19
0.31 to 1.00 percent sulfur	1	50	57	—	177	285	9
Greater than 1.00 percent sulfur	1,801	—	944	—	448	3,193	103
Petrochemical Feedstocks	10	186	371	—	22	589	19
Naphtha for Petro. Feed. Use	3	80	371	—	22	476	15
Other Oils for Petro. Feed. Use	7	106	—	—	—	113	4
Special Naphthas	—	6	389	—	—	395	13
Lubricants	173	121	1,093	1	7	1,395	45
Waxes	87	2	58	—	45	192	6
Petroleum Coke (Marketable)	7	33	—	—	31	71	2
Asphalt and Road Oil	729	241	—	55	166	1,191	38
Miscellaneous Products	—	—	—	1	—	1	0
Total	54,777	81,801	80,889	9,617	46,876	273,960	8,837

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

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

³ Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

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

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

Table 38. Year-to-Date Imports of Crude Oil and Petroleum Products by PAD District, January-March 2019
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil^{1,2}	64,612	230,777	192,507	26,918	114,096	628,910	6,988
Hydrocarbon Gas Liquids	6,172	9,646	236	1,684	5,849	23,587	262
Natural Gas Liquids	5,658	8,746	-	1,684	5,849	21,937	244
Ethane	-	-	-	-	-	-	-
Propane	4,875	6,743	-	1,398	3,520	16,536	184
Normal Butane	242	1,425	-	246	2,035	3,948	44
Isobutane	541	563	-	40	294	1,438	16
Natural Gasoline	-	15	-	-	-	15	0
Refinery Olefins	514	900	236	-	-	1,650	18
Ethylene	-	-	-	-	-	-	-
Propylene	514	656	-	-	-	1,170	13
Normal Butylene	-	214	236	-	-	450	5
Isobutylene	-	-	-	-	-	30	0
Other Liquids	47,027	1,579	37,988	181	9,365	96,140	1,068
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	620	265	242	10	1,689	2,826	31
Hydrogen	-	-	-	-	-	-	-
Oxygenates (excluding Fuel Ethanol)	-	-	177	-	-	177	2
Methyl Tertiary Butyl Ether (MTBE)	-	-	81	-	-	81	1
Other Oxygenates ³	-	-	96	-	-	96	1
Renewable Fuels (including Fuel Ethanol)	620	265	57	10	1,689	2,641	29
Fuel Ethanol	-	-	-	-	251	251	3
Biodiesel	620	265	57	10	132	1,084	12
Other Renewable Diesel Fuel	-	-	-	-	1,306	1,306	15
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	8	-	-	8	0
Unfinished Oils ¹	4,843	254	33,563	-	4,349	43,009	478
Naphthas and Lighter	1,290	28	-	-	189	1,507	17
Kerosene and Lighter Gas Oils	-	-	20	-	-	20	0
Heavy Gas Oils	3,553	226	27,959	-	4,115	35,853	398
Residuum	-	-	5,584	-	45	5,629	63
Motor Gasoline Blend.Comp. (MGBC)	41,564	1,060	4,183	171	3,327	50,305	559
Reformulated - RBOB	14,538	-	325	-	976	15,839	176
Conventional	27,026	1,060	3,858	171	2,351	34,466	383
CBOB	1,996	279	-	-	357	2,632	29
GTAB	5,606	-	299	-	305	6,210	69
Other	19,424	781	3,559	171	1,689	25,624	285
Aviation Gasoline Blend. Comp.	-	-	-	-	-	-	-
Finished Petroleum Products	42,247	2,676	10,360	401	11,699	67,383	749
Finished Motor Gasoline	4,317	-	284	-	1,230	5,831	65
Reformulated	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-
Conventional	4,317	-	284	-	1,230	5,831	65
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-
Conventional Other	4,317	-	284	-	1,230	5,831	65
Finished Aviation Gasoline	21	6	59	1	1	88	1
Kerosene-Type Jet Fuel	4,887	-	30	-	6,576	11,493	128
Bonded Aircraft Fuel	1,000	-	-	-	2,951	3,951	44
Other	3,887	-	30	-	3,625	7,542	84
Kerosene	-	-	-	-	-	-	-
Distillate Fuel Oil	23,136	899	407	162	638	25,242	280
15 ppm sulfur and under	22,482	686	407	162	635	24,372	271
Bonded	-	-	-	-	-	-	-
Other	22,482	686	407	162	635	24,372	271
Greater than 15 ppm to 500 ppm sulfur	425	-	-	-	-	425	5
Bonded	-	-	-	-	-	-	-
Other	425	-	-	-	-	425	5
Greater than 500 ppm to 2000 ppm sulfur	229	178	-	-	3	410	5
Bonded	-	-	-	-	-	-	-
Other	229	178	-	-	3	410	5
Greater than 2000 ppm	-	35	-	-	-	35	0
Bonded	-	-	-	-	-	-	-
Other	-	35	-	-	-	35	0
Residual Fuel Oil	7,098	243	4,509	97	2,474	14,421	160
Less than 0.31 percent sulfur	380	-	1,074	-	338	1,792	20
0.31 to 1.00 percent sulfur	304	104	57	-	584	1,049	12
Greater than 1.00 percent sulfur	6,414	139	3,378	97	1,552	11,580	129
Petrochemical Feedstocks	12	491	943	-	98	1,544	17
Naphtha for Petro. Feed. Use	3	245	874	-	98	1,220	14
Other Oils for Petro. Feed. Use	9	246	69	-	-	324	4
Special Naphthas	1	16	1,021	-	-	1,038	12
Lubricants	499	342	2,865	1	50	3,757	42
Waxes	240	16	92	-	136	484	5
Petroleum Coke (Marketable)	17	91	150	-	68	326	4
Asphalt and Road Oil	2,019	572	-	137	428	3,156	35
Miscellaneous Products	-	-	-	3	-	3	0
Total	160,058	244,678	241,091	29,184	141,009	816,020	9,067

- = No Data Reported.

¹ Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

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

³ Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

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

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

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, March 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	45,972	-	-	3,721	-	-	-	-	42	42
Algeria	1,041	-	-	3,186	-	-	-	-	-	-
Angola	324	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	1,934	-	-	-	-	-	-	-	-	-
Ecuador	3,853	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	8,538	-	-	-	-	-	-	-	-	-
Kuwait	4,012	-	-	-	-	-	-	-	-	-
Libya	785	-	-	-	-	-	-	-	-	-
Nigeria	4,194	-	-	194	-	-	-	-	-	-
Saudi Arabia	19,837	-	-	253	-	-	-	-	-	-
United Arab Emirates	-	-	-	88	-	-	-	-	-	-
Venezuela	1,454	-	-	-	-	-	-	-	42	42
Non-OPEC	163,569	7,259	560	11,458	-	2,956	2,956	4,929	14,274	19,203
Argentina	747	79	-	-	-	-	-	-	71	71
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	202	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	1,659	-	70	70	-	260	260
Brazil	2,716	-	-	-	-	-	-	-	1,958	1,958
Brunei	1,022	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	114,998	7,180	460	637	-	537	537	2,283	2,567	4,850
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	12,116	-	-	-	-	-	-	-	501	501
Denmark	723	-	-	-	-	-	-	-	-	-
Egypt	699	-	-	611	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	495	495
France	-	-	-	101	-	1,101	1,101	-	22	22
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	271	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	1,893	1,893
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	150	150	-	724	724
Korea, South	-	-	-	-	-	287	287	-	299	299
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	20,390	-	34	-	-	-	-	-	25	25
Netherlands	-	-	-	52	-	169	169	1,415	233	1,648
Norway	1,669	-	-	-	-	98	98	-	478	478
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	785	785
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	2,917	-	-	6,168	-	252	252	-	1,540	1,540
Spain	-	-	-	1,194	-	-	-	-	684	684
Sweden	-	-	-	94	-	158	158	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	1,895	-	-	-	-	-	-	-	-	-
United Kingdom	1,530	-	-	-	-	134	134	1,231	666	1,897
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	1,876	0	66	740	-	0	0	0	1,073	1,073
Total	209,541	7,259	560	15,179	-	2,956	2,956	4,929	14,316	19,245
Persian Gulf³	32,387	-	-	341	-	-	-	-	-	-

See footnotes at end of table.

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

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	25	251	509	459	-	5,242	51	274	19	5,586
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	143	-	-	-	-	-	-	-
Brazil	-	25	251	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	139	-	-	4,244	51	274	19	4,588
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	143	-	-	-	143
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	13	-	-	-	-	-	-	-
Germany	-	-	-	142	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	562	-	-	-	562
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	72	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	293	-	-	-	293
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	0	0	0	459	-	0	0	0	0	0
Total	-	25	251	509	459	-	5,242	51	274	19	5,586
Persian Gulf³	-	-	-	-	-	-	293	-	-	-	293

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, March 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	—	—	—	555	—	—	—	647	647
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	555	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	647	647
Non-OPEC	—	5	—	3,921	395	596	285	2,546	3,427
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	241	241
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	84	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	5	—	756	6	—	228	628	856
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	9	9
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	—	88	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	2,396	85	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	271	—	1,138	1,409
Netherlands	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	244	244
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	325	—	—	325
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	286	286
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	0	—	769	132	0	57	0	57
Total	—	5	—	4,476	395	596	285	3,193	4,074
Persian Gulf³	—	—	—	555	—	—	—	—	—

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, March 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	—	—	—	—	—	—	—	4,965	50,937	1,483	160	1,643
Algeria	—	—	—	—	—	—	—	3,186	4,227	34	103	136
Angola	—	—	—	—	—	—	—	—	324	10	—	10
Congo (Brazzaville)	—	—	—	—	—	—	—	—	1,934	62	—	62
Ecuador	—	—	—	—	—	—	—	—	3,853	124	—	124
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	8,538	275	—	275
Kuwait	—	—	—	—	—	—	—	—	4,012	129	—	129
Libya	—	—	—	—	—	—	—	—	785	25	—	25
Nigeria	—	—	—	—	—	—	—	194	4,388	135	6	142
Saudi Arabia	—	—	—	—	—	—	—	808	20,645	640	26	666
United Arab Emirates	—	—	—	—	—	—	—	88	88	—	3	3
Venezuela	—	—	—	—	—	—	—	689	2,143	47	22	69
Non-OPEC	476	113	192	71	1,191	1,395	1	59,454	223,023	5,276	1,918	7,194
Argentina	—	—	—	—	—	2	—	152	899	24	5	29
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	202	202	—	7	7
Bahamas	—	—	—	—	—	—	—	241	241	—	8	8
Bahrain	—	—	—	—	—	4	—	4	4	—	0	0
Belgium	—	—	—	—	—	9	—	2,141	2,141	—	69	69
Brazil	—	—	—	—	—	—	—	2,318	5,034	88	75	162
Brunei	—	—	—	—	—	—	—	—	1,022	33	—	33
Cameroon	—	—	—	—	—	—	—	—	—	—	—	—
Canada	80	113	36	65	986	228	1	21,523	136,521	3,710	694	4,404
Chad	—	—	—	—	—	—	—	—	—	—	—	—
China	—	—	87	—	—	—	—	87	87	—	3	3
Colombia	—	—	—	—	—	—	—	653	12,769	391	21	412
Denmark	—	—	—	—	—	—	—	—	723	23	—	23
Egypt	—	—	—	—	—	—	—	611	1,310	23	20	42
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	15	—	510	510	—	16	16
France	—	—	—	—	—	9	—	1,246	1,246	—	40	40
Germany	—	—	—	—	—	26	—	168	168	—	5	5
Guatemala	—	—	—	—	—	—	—	—	271	9	—	9
India	—	—	—	—	—	—	—	2,543	2,543	—	82	82
Indonesia	—	—	—	—	—	108	—	108	108	—	3	3
Italy	—	—	—	—	—	12	—	887	887	—	29	29
Korea, South	—	—	—	—	—	582	—	3,721	3,721	—	120	120
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	9	—	65	—	—	74	74	—	2	2
Mexico	225	—	—	—	—	—	—	1,693	22,083	658	55	712
Netherlands	—	—	—	—	—	—	—	1,869	1,869	—	60	60
Norway	—	—	—	—	—	—	—	820	2,489	54	26	80
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	785	785	—	25	25
Qatar	—	—	—	—	—	381	—	674	674	—	22	22
Russia	—	—	—	—	—	—	—	8,285	11,202	94	267	361
Spain	—	—	—	—	140	—	—	2,018	2,018	—	65	65
Sweden	—	—	—	—	—	1	—	539	539	—	17	17
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	1,895	61	—	61
United Kingdom	63	—	—	3	—	17	—	2,114	3,644	49	68	118
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	108	0	60	3	0	1	0	3,468	5,344	59	114	175
Total	476	113	192	71	1,191	1,395	1	64,419	273,960	6,759	2,078	8,837
Persian Gulf³	—	—	—	—	—	385	—	1,574	33,961	1,045	51	1,096

— = No Data Reported.

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

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

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

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

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

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-March 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	161,381	-	-	9,020	-	81	81	-	3,562	3,562
Algeria	2,718	-	-	5,976	-	-	-	-	-	-
Angola	572	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	3,735	-	-	173	-	-	-	-	-	-
Ecuador	15,535	-	-	-	-	-	-	-	-	-
Equatorial Guinea	959	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	33,640	-	-	-	-	-	-	-	-	-
Kuwait	7,534	-	-	-	-	-	-	-	-	-
Libya	3,430	-	-	205	-	-	-	-	-	-
Nigeria	9,599	-	-	360	-	-	-	-	646	646
Saudi Arabia	58,030	-	-	884	-	81	81	-	1,610	1,610
United Arab Emirates	-	-	-	1,377	-	-	-	-	-	-
Venezuela	25,629	-	-	45	-	-	-	-	1,306	1,306
Non-OPEC	467,529	21,937	1,650	33,989	-	5,750	5,750	15,839	30,904	46,743
Argentina	3,303	128	-	-	-	-	-	-	399	399
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	202	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	4,769	-	70	70	-	260	260
Brazil	6,213	-	-	483	-	-	-	-	4,754	4,754
Brunei	1,439	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	204	-	-	-	-	-	-
Canada	339,983	21,117	1,414	1,728	-	1,633	1,633	8,192	5,375	13,567
Chad	949	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	32,739	-	-	222	-	-	-	-	1,002	1,002
Denmark	723	-	-	-	-	-	-	-	70	70
Egypt	1,147	-	-	611	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	1,161	1,161
France	-	-	-	207	-	1,701	1,701	-	729	729
Germany	-	-	-	602	-	-	-	-	50	50
Guatemala	543	-	-	-	-	-	-	-	-	-
India	-	-	-	456	-	-	-	-	3,142	3,142
Indonesia	-	-	-	-	-	-	-	-	513	513
Italy	-	-	-	680	-	150	150	-	1,036	1,036
Korea, South	-	-	-	-	-	918	918	-	457	457
Latvia	-	-	-	-	-	-	-	-	69	69
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	289	-	-	-	-	-	-
Mexico	55,993	-	67	-	-	-	-	-	335	335
Netherlands	-	-	-	1,433	-	169	169	4,221	919	5,140
Norway	3,957	309	-	2,072	-	98	98	-	478	478
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	2,499	2,499
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	8,597	-	-	14,374	-	252	252	-	2,208	2,208
Spain	-	-	-	1,404	-	-	-	-	1,376	1,376
Sweden	-	191	-	414	-	158	158	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	3,869	-	-	-	-	-	-	-	-	-
United Kingdom	2,560	192	-	627	-	601	601	3,426	1,142	4,568
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	5,514	0	169	3,212	-	0	0	0	2,930	2,930
Total	628,910	21,937	1,650	43,009	-	5,831	5,831	15,839	34,466	50,305
Persian Gulf³	99,204	-	-	2,261	-	81	81	-	1,610	1,610

See footnotes at end of table.

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

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-	-	-	-	-	-	1,999	-	-	-	1,999
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	312	-	-	-	312
Saudi Arabia	-	-	-	-	-	-	1,193	-	-	-	1,193
United Arab Emirates	-	-	-	-	-	-	200	-	-	-	200
Venezuela	-	-	-	-	-	-	294	-	-	-	294
Non-OPEC	81	96	251	1,084	1,306	-	22,373	425	410	35	23,243
Argentina	81	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	501	-	-	-	501
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	143	-	-	-	-	-	-	-
Brazil	-	96	251	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	381	-	-	11,021	149	410	35	11,615
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	279	-	-	-	279
Colombia	-	-	-	-	-	-	1,569	-	-	-	1,569
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	121	-	-	-	-	-	-	-
Germany	-	-	-	210	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	6,477	-	-	-	6,477
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	115	-	-	89	-	-	-	89
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	2,071	-	-	-	2,071
Russia	-	-	-	-	-	-	366	276	-	-	642
Spain	-	-	-	114	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	0	1,306	-	0	0	0	0	0
Total	81	96	251	1,084	1,306	-	24,372	425	410	35	25,242
Persian Gulf³	-	-	-	-	-	-	3,464	-	-	-	3,464

See footnotes at end of table.

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

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
OPEC	-	-	-	851	-	-	-	3,092	3,092
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	18	-	-	-	-	-
Kuwait	-	-	-	101	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	20	-	-	-	-	-
Saudi Arabia	-	-	-	618	-	-	-	679	679
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	94	-	-	-	2,413	2,413
Non-OPEC	-	88	-	10,642	1,038	1,792	1,049	8,488	11,329
Argentina	-	-	-	-	-	380	297	-	677
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	362	362
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	9	189	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	11	-	1,630	202	-	695	2,136	2,831
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	275	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	777	777
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	163	175	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	6,230	217	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	6	37	749	-	2,156	2,905
Netherlands	-	77	-	-	-	-	-	845	845
Norway	-	-	-	-	-	-	-	244	244
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	484	-	-	-	-	-
Russia	-	-	-	-	-	325	-	922	1,247
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	286	286
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	0	-	1,845	218	338	57	760	1,155
Total	-	88	-	11,493	1,038	1,792	1,049	11,580	14,421
Persian Gulf³	-	-	-	1,221	-	-	-	679	679

See footnotes at end of table.

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-March 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	225	—	18,861	180,242	1,793	210	2,003
Algeria	—	—	—	—	—	—	—	5,976	8,694	30	66	97
Angola	—	—	—	—	—	—	—	—	572	6	—	6
Congo (Brazzaville)	—	—	—	—	—	—	—	173	3,908	42	2	43
Ecuador	—	—	—	—	—	—	—	—	15,535	173	—	173
Equatorial Guinea	—	—	—	—	—	—	—	—	959	11	—	11
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	18	33,658	374	0	374
Kuwait	—	—	—	—	—	—	—	101	7,635	84	1	85
Libya	—	—	—	—	—	—	—	205	3,635	38	2	40
Nigeria	—	—	—	—	—	—	—	1,338	10,937	107	15	122
Saudi Arabia	—	—	—	—	—	—	—	5,065	63,095	645	56	701
United Arab Emirates	—	—	—	—	—	225	—	1,802	1,802	—	20	20
Venezuela	—	—	—	—	31	—	—	4,183	29,812	285	46	331
Non-OPEC	1,220	324	484	326	3,125	3,532	3	168,249	635,778	5,195	1,869	7,064
Argentina	—	—	—	134	—	7	—	1,426	4,729	37	16	53
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	202	202	—	2	2
Bahamas	—	—	—	—	—	—	—	863	863	—	10	10
Bahrain	—	—	—	—	—	147	—	147	147	—	2	2
Belgium	—	—	—	—	—	22	—	5,264	5,264	—	58	58
Brazil	—	9	—	—	—	—	—	5,791	12,004	69	64	133
Brunei	—	—	—	—	—	—	—	—	1,439	16	—	16
Cameroon	—	—	—	—	—	—	—	204	204	—	2	2
Canada	245	255	145	158	2,744	680	3	60,359	400,342	3,778	671	4,448
Chad	—	—	—	—	—	—	—	—	949	11	—	11
China	—	—	203	—	—	—	—	757	757	—	8	8
Colombia	—	—	—	—	—	—	—	3,570	36,309	364	40	403
Denmark	—	—	—	—	—	—	—	70	793	8	1	9
Egypt	—	—	—	—	—	—	—	611	1,758	13	7	20
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	15	—	1,176	1,176	—	13	13
France	—	57	—	—	—	27	—	2,842	2,842	—	32	32
Germany	—	—	18	—	—	49	—	929	929	—	10	10
Guatemala	—	—	—	—	—	—	—	—	543	6	—	6
India	—	—	—	—	—	—	—	10,413	10,413	—	116	116
Indonesia	—	—	1	—	—	231	—	745	745	—	8	8
Italy	—	—	—	—	—	89	—	1,956	1,956	—	22	22
Korea, South	—	—	1	—	65	1,244	—	9,336	9,336	—	104	104
Latvia	—	—	—	—	—	—	—	69	69	—	1	1
Lithuania	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	30	—	65	—	—	384	384	—	4	4
Mexico	535	—	—	—	—	—	—	3,885	59,878	622	43	665
Netherlands	—	—	—	—	—	27	—	7,691	7,691	—	85	85
Norway	—	—	—	—	—	—	—	3,201	7,158	44	36	80
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	2,499	2,499	—	28	28
Qatar	—	—	—	—	—	914	—	3,469	3,469	—	39	39
Russia	—	—	—	—	—	18	—	18,741	27,338	96	208	304
Spain	—	—	3	—	251	—	—	3,148	3,148	—	35	35
Sweden	—	—	—	4	—	2	—	1,055	1,055	—	12	12
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	3,869	43	—	43
United Kingdom	127	—	—	24	—	56	—	6,195	8,755	28	69	97
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	313	3	83	6	0	4	0	11,251	16,765	60	123	185
Total	1,220	324	484	326	3,156	3,757	3	187,110	816,020	6,988	2,079	9,067
Persian Gulf³	—	—	—	—	—	1,286	—	10,602	109,806	1,102	118	1,220

— = No Data Reported.
¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.
² Includes crude oil imported for storage in the Strategic Petroleum Reserve.
³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.
 Note: Totals may not equal sum of components due to independent rounding.
 Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

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

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	10,329	-	-	587	-	-	-	-	42	42
Algeria	1,041	-	-	393	-	-	-	-	-	-
Angola	324	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	1,934	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	126	-	-	-	-	-	-	-	-	-
Nigeria	3,245	-	-	194	-	-	-	-	-	-
Saudi Arabia	3,659	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	42	42
Non-OPEC	13,530	1,709	71	1,500	-	2,570	2,570	3,953	10,500	14,453
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	70	70	-	260	260
Brazil	546	-	-	-	-	-	-	-	1,445	1,445
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	6,361	1,709	71	91	-	438	438	2,283	2,147	4,430
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	847	-	-	-	-	-	-	-	209	209
Denmark	723	-	-	-	-	-	-	-	-	-
Egypt	198	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	495	495
France	-	-	-	-	-	1,101	1,101	-	22	22
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	1,434	1,434
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	150	150	-	724	724
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	169	169	764	233	997
Norway	1,669	-	-	-	-	98	98	-	156	156
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	567	567
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	1,027	-	-	640	-	252	252	-	1,540	1,540
Spain	-	-	-	769	-	-	-	-	684	684
Sweden	-	-	-	-	-	158	158	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	661	-	-	-	-	134	134	906	359	1,265
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	1,498	0	0	0	-	0	0	0	225	225
Total	23,859	1,709	71	2,087	-	2,570	2,570	3,953	10,542	14,495
Persian Gulf³	3,659	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

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

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	333	-	-	4,685	51	197	-	4,933
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	143	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	35	-	-	3,687	51	197	-	3,935
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	143	-	-	-	143
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	13	-	-	-	-	-	-	-
Germany	-	-	-	142	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	562	-	-	-	562
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	293	-	-	-	293
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	0	0	0	-	0
Total	-	-	-	333	-	-	4,685	51	197	-	4,933
Persian Gulf³	-	-	-	-	-	-	293	-	-	-	293

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, March 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	-	-	-	555	-	-	-	647	647
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	555	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	647	647
Non-OPEC	-	1	-	1,356	-	-	1	1,154	1,155
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	241	241
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	1	-	756	-	-	1	579	580
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	9	9
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	600	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	39	39
Netherlands	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	286	286
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	0	-	0	-	-	0	0	0
Total	-	1	-	1,911	-	-	1	1,801	1,802
Persian Gulf³	-	-	-	555	-	-	-	-	-

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, March 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	-	-	-	-	-	-	-	1,831	12,160	333	59	392
Algeria	-	-	-	-	-	-	-	393	1,434	34	13	46
Angola	-	-	-	-	-	-	-	-	324	10	-	10
Congo (Brazzaville)	-	-	-	-	-	-	-	-	1,934	62	-	62
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	126	4	-	4
Nigeria	-	-	-	-	-	-	-	194	3,439	105	6	111
Saudi Arabia	-	-	-	-	-	-	-	555	4,214	118	18	136
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	689	689	-	22	22
Non-OPEC	3	7	87	7	729	173	-	29,087	42,617	436	938	1,375
Argentina	-	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	241	241	-	8	8
Bahrain	-	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	9	-	482	482	-	16	16
Brazil	-	-	-	-	-	-	-	1,445	1,991	18	47	64
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-	-
Canada	-	7	34	1	589	100	-	12,777	19,138	205	412	617
Chad	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	23	-	-	-	-	23	23	-	1	1
Colombia	-	-	-	-	-	-	-	361	1,208	27	12	39
Denmark	-	-	-	-	-	-	-	-	723	23	-	23
Egypt	-	-	-	-	-	-	-	-	198	6	-	6
Estonia	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	495	495	-	16	16
France	-	-	-	-	-	5	-	1,141	1,141	-	37	37
Germany	-	-	-	-	-	21	-	163	163	-	5	5
Guatemala	-	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	1,996	1,996	-	64	64
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	2	-	876	876	-	28	28
Korea, South	-	-	-	-	-	35	-	635	635	-	20	20
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	39	39	-	1	1
Netherlands	-	-	-	-	-	-	-	1,166	1,166	-	38	38
Norway	-	-	-	-	-	-	-	254	1,923	54	8	62
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	567	567	-	18	18
Qatar	-	-	-	-	-	-	-	293	293	-	9	9
Russia	-	-	-	-	-	-	-	2,432	3,459	33	78	112
Spain	-	-	-	-	140	-	-	1,593	1,593	-	51	51
Sweden	-	-	-	-	-	1	-	445	445	-	14	14
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	3	-	-	3	-	-	-	1,405	2,066	21	45	67
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	30	3	0	0	-	258	1,756	49	10	59
Total	3	7	87	7	729	173	-	30,918	54,777	770	997	1,767
Persian Gulf³	-	-	-	-	-	-	-	848	4,507	118	27	145

- = No Data Reported.

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

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

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

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

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

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, March 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	76,864	3,028	389	107	-	-	-	-	332	332
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	76,864	3,028	389	107	-	-	-	-	332	332
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	0	-	-	-	-	0	0
Total	76,864	3,028	389	107	-	-	-	-	332	332
Persian Gulf³	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

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

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	89	-	-	256	-	76	19	351
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	89	-	-	256	-	76	19	351
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	-	-	-	89	-	-	256	-	76	19	351
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

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

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	2	-	-	6	-	50	-	50
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	2	-	-	6	-	50	-	50
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	0	-	-	0	-	0	-	0
Total	-	2	-	-	6	-	50	-	50
Persian Gulf³	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, March 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	80	106	2	33	241	121	-	4,937	81,801	2,479	159	2,639
Argentina	-	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-	-
Canada	80	106	2	33	241	120	-	4,936	81,800	2,479	159	2,639
Chad	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	1	-	1	1	-	0	0
Russia	-	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	0	0	0	-	0	0	0	0	0
Total	80	106	2	33	241	121	-	4,937	81,801	2,479	159	2,639
Persian Gulf³	-	-	-	-	-	1	-	1	1	-	0	0

- = No Data Reported.

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

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

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

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

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

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

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	15,912	-	-	2,668	-	-	-	-	-	-
Algeria	-	-	-	2,415	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	4,681	-	-	-	-	-	-	-	-	-
Kuwait	1,641	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	949	-	-	-	-	-	-	-	-	-
Saudi Arabia	7,187	-	-	253	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	1,454	-	-	-	-	-	-	-	-	-
Non-OPEC	47,702	-	100	8,414	-	-	-	325	2,196	2,521
Argentina	-	-	-	-	-	-	-	-	71	71
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	1,659	-	-	-	-	-	-
Brazil	2,170	-	-	-	-	-	-	-	513	513
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	15,498	-	-	238	-	-	-	-	-	-
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	7,639	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Egypt	501	-	-	611	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	101	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	271	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	459	459
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	299	299
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	18,701	-	34	-	-	-	-	-	25	25
Netherlands	-	-	-	52	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	322	322
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	218	218
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	495	-	-	4,950	-	-	-	-	-	-
Spain	-	-	-	425	-	-	-	-	-	-
Sweden	-	-	-	94	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	1,558	-	-	-	-	-	-	-	-	-
United Kingdom	869	-	-	-	-	-	-	325	-	325
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	-	66	284	-	-	-	0	289	289
Total	63,614	-	100	11,082	-	-	-	325	2,196	2,521
Persian Gulf³	13,509	-	-	253	-	-	-	-	-	-

See footnotes at end of table.

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

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	25	-	-	-	-	38	-	-	-	38
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	25	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	38	-	-	-	38
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
Total	-	25	-	-	-	-	38	-	-	-	38
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, March 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	-	-	-	-	389	596	57	944	1,597
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	84	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	88	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	85	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	271	-	700	971
Netherlands	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	244	244
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	325	-	-	325
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	132	0	57	0	57
Total	-	-	-	-	389	596	57	944	1,597
Persian Gulf³	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

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

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	-	-	-	-	-	-	-	2,668	18,580	513	86	599
Algeria	-	-	-	-	-	-	-	2,415	2,415	-	78	78
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	4,681	4,681	151	-	151
Kuwait	-	-	-	-	-	-	-	1,641	1,641	53	-	53
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	949	949	31	-	31
Saudi Arabia	-	-	-	-	-	-	-	253	7,440	232	8	240
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	1,454	47	-	47
Non-OPEC	371	-	58	-	-	1,093	-	14,607	62,309	1,539	471	2,010
Argentina	-	-	-	-	-	2	-	73	73	-	2	2
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	4	-	4	4	-	0	0
Belgium	-	-	-	-	-	-	-	1,659	1,659	-	54	54
Brazil	-	-	-	-	-	-	-	622	2,792	70	20	90
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	276	15,774	500	9	509
Chad	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	20	-	-	-	-	20	20	-	1	1
Colombia	-	-	-	-	-	-	-	-	7,639	246	-	246
Denmark	-	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	611	1,112	16	20	36
Estonia	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	15	-	15	15	-	0	0
France	-	-	-	-	-	4	-	105	105	-	3	3
Germany	-	-	-	-	-	5	-	5	5	-	0	0
Guatemala	-	-	-	-	-	-	-	-	271	9	-	9
India	-	-	-	-	-	-	-	547	547	-	18	18
Indonesia	-	-	-	-	-	108	-	108	108	-	3	3
Italy	-	-	-	-	-	10	-	11	11	-	0	0
Korea, South	-	-	-	-	-	547	-	931	931	-	30	30
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	8	-	-	-	-	8	8	-	0	0
Mexico	225	-	-	-	-	-	-	1,255	19,956	603	40	644
Netherlands	-	-	-	-	-	-	-	52	52	-	2	2
Norway	-	-	-	-	-	-	-	566	566	-	18	18
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	218	218	-	7	7
Qatar	-	-	-	-	-	380	-	380	380	-	12	12
Russia	-	-	-	-	-	-	-	5,275	5,770	16	170	186
Spain	-	-	-	-	-	-	-	425	425	-	14	14
Sweden	-	-	-	-	-	-	-	94	94	-	3	3
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	1,558	50	-	50
United Kingdom	60	-	-	-	-	17	-	402	1,271	28	13	41
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	86	-	30	-	-	1	-	945	945	1	32	32
Total	371	-	58	-	-	1,093	-	17,275	80,889	2,052	557	2,609
Persian Gulf ³	-	-	-	-	-	384	-	637	14,146	436	21	456

- = No Data Reported.

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

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

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

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

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

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

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
PAD District 4										
OPEC	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	8,877	508	-	-	-	-	-	-	88	88
Canada	8,877	508	-	-	-	-	-	-	88	88
Qatar	-	-	-	-	-	-	-	-	-	-
Other	0	0	-	-	-	-	-	-	0	0
Total	8,877	508	-	-	-	-	-	-	88	88
PAD District 5										
OPEC	19,731	-	-	466	-	-	-	-	-	-
Algeria	-	-	-	378	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	3,853	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	3,857	-	-	-	-	-	-	-	-	-
Kuwait	2,371	-	-	-	-	-	-	-	-	-
Libya	659	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	8,991	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	88	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	16,596	2,014	-	1,437	-	386	386	651	1,158	1,809
Argentina	747	79	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	202	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-
Brunei	1,022	-	-	-	-	-	-	-	-	-
Canada	7,398	1,935	-	201	-	99	99	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	3,630	-	-	-	-	-	-	-	292	292
Finland	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	559	559
Korea, South	-	-	-	-	-	287	287	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	1,689	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	651	-	651
Oman	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	189	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	307	307
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Other	2,110	0	-	845	-	0	0	0	0	0
Total	36,327	2,014	-	1,903	-	386	386	651	1,158	1,809
Persian Gulf³	15,219	-	-	88	-	-	-	-	-	-

See footnotes at end of table.

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

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
PAD District 4											
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	8	-	-	78	-	-	-	78
Canada	-	-	-	8	-	-	78	-	-	-	78
Qatar	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	0	-	-	-	0
Total	-	-	-	8	-	-	78	-	-	-	78
PAD District 5											
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	251	79	459	-	185	-	1	-	186
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	251	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	7	-	-	185	-	1	-	186
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	72	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	0	0	459	-	0	-	0	-	0
Total	-	-	251	79	459	-	185	-	1	-	186
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

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

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
PAD District 4									
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	1	-	-	-	-	-	-	-
Canada	-	1	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Other	-	0	-	-	-	-	-	-	-
Total	-	1	-	-	-	-	-	-	-
PAD District 5									
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	1	-	2,565	-	-	177	448	625
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Canada	-	1	-	-	-	-	177	49	226
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	1,796	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	399	399
Netherlands	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Other	-	0	-	769	-	-	0	0	0
Total	-	1	-	2,565	-	-	177	448	625
Persian Gulf³	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

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

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
PAD District 4												
OPEC	-	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	-	55	1	1	740	9,617	286	24	310
Canada	-	-	-	-	55	1	1	740	9,617	286	24	310
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	0	0	0	0	0	0	0	0
Total	-	-	-	-	55	1	1	740	9,617	286	24	310
PAD District 5												
OPEC	-	-	-	-	-	-	-	466	20,197	636	15	652
Algeria	-	-	-	-	-	-	-	378	378	-	12	12
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	3,853	124	-	124
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	3,857	124	-	124
Kuwait	-	-	-	-	-	-	-	-	2,371	76	-	76
Libya	-	-	-	-	-	-	-	-	659	21	-	21
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	8,991	290	-	290
United Arab Emirates	-	-	-	-	-	-	-	88	88	-	3	3
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	22	-	45	31	166	7	-	10,083	26,679	535	325	861
Argentina	-	-	-	-	-	-	-	79	826	24	3	27
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	202	202	-	7	7
Brazil	-	-	-	-	-	-	-	251	251	-	8	8
Brunei	-	-	-	-	-	-	-	-	1,022	33	-	33
Canada	-	-	-	31	101	7	-	2,794	10,192	239	90	329
China	-	-	44	-	-	-	-	44	44	-	1	1
Colombia	-	-	-	-	-	-	-	292	3,922	117	9	127
Finland	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	559	559	-	18	18
Korea, South	-	-	-	-	-	-	-	2,155	2,155	-	70	70
Malaysia	-	-	1	-	65	-	-	66	66	-	2	2
Mexico	-	-	-	-	-	-	-	399	2,088	54	13	67
Netherlands	-	-	-	-	-	-	-	651	651	-	21	21
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	189	189	-	6	6
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	459	459	-	15	15
Sweden	-	-	-	-	-	-	-	-	-	-	-	-
Taiwan	22	-	-	-	-	-	-	22	22	-	1	1
United Kingdom	-	-	-	-	-	-	-	307	307	-	10	10
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Other	0	-	0	0	0	0	-	1,614	3,724	68	51	119
Total	22	-	45	31	166	7	-	10,549	46,876	1,172	340	1,512
Persian Gulf³	-	-	-	-	-	-	-	88	15,307	491	3	494

- = No Data Reported.

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

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

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

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

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

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-March 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	25,965	-	-	1,207	-	81	81	-	3,562	3,562
Algeria	2,718	-	-	802	-	-	-	-	-	-
Angola	572	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	3,735	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	723	-	-	-	-	-	-	-	-	-
Nigeria	8,650	-	-	360	-	-	-	-	646	646
Saudi Arabia	9,567	-	-	-	-	81	81	-	1,610	1,610
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	45	-	-	-	-	1,306	1,306
Non-OPEC	38,647	5,658	514	3,636	-	4,236	4,236	14,538	23,464	38,002
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	70	70	-	260	260
Brazil	546	-	-	-	-	-	-	-	4,150	4,150
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	204	-	-	-	-	-	-
Canada	19,664	5,083	514	324	-	1,321	1,321	8,192	3,849	12,041
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	3,835	-	-	-	-	-	-	-	710	710
Denmark	723	-	-	-	-	-	-	-	-	-
Egypt	646	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	1,161	1,161
France	-	-	-	-	-	1,701	1,701	-	313	313
Germany	-	-	-	163	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	2,678	2,678
Indonesia	-	-	-	-	-	-	-	-	513	513
Italy	-	-	-	-	-	150	150	-	1,036	1,036
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	69	69
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	169	169	3,245	850	4,095
Norway	3,957	192	-	-	-	98	98	-	156	156
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	2,250	2,250
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	5,288	-	-	1,402	-	252	252	-	2,208	2,208
Spain	-	-	-	979	-	-	-	-	1,376	1,376
Sweden	-	191	-	-	-	158	158	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	1,184	-	-	-	-	317	317	3,101	786	3,887
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	2,804	192	0	564	-	0	0	0	1,099	1,099
Total	64,612	5,658	514	4,843	-	4,317	4,317	14,538	27,026	41,564
Persian Gulf³	9,567	-	-	-	-	81	81	-	1,610	1,610

See footnotes at end of table.

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

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-	-	-	-	-	-	1,706	-	-	-	1,706
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	312	-	-	-	312
Saudi Arabia	-	-	-	-	-	-	1,193	-	-	-	1,193
United Arab Emirates	-	-	-	-	-	-	200	-	-	-	200
Venezuela	-	-	-	-	-	-	1	-	-	-	1
Non-OPEC	-	-	-	620	-	-	20,776	425	229	-	21,430
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	501	-	-	-	501
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	143	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	89	-	-	9,513	149	229	-	9,891
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	279	-	-	-	279
Colombia	-	-	-	-	-	-	1,569	-	-	-	1,569
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	121	-	-	-	-	-	-	-
Germany	-	-	-	210	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	6,477	-	-	-	6,477
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	2,071	-	-	-	2,071
Russia	-	-	-	-	-	-	366	276	-	-	642
Spain	-	-	-	57	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	0	0	0	-	0
Total	-	-	-	620	-	-	22,482	425	229	-	23,136
Persian Gulf³	-	-	-	-	-	-	3,464	-	-	-	3,464

See footnotes at end of table.

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

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
OPEC	-	-	-	833	-	-	-	1,892	1,892
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	101	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	20	-	-	-	-	-
Saudi Arabia	-	-	-	618	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	94	-	-	-	1,892	1,892
Non-OPEC	-	21	-	4,054	1	380	304	4,522	5,206
Argentina	-	-	-	-	-	380	297	-	677
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	362	362
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	9	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	3	-	1,624	1	-	7	1,655	1,662
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	275	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	777	777
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	163	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	1,499	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	126	126
Netherlands	-	18	-	-	-	-	-	610	610
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	484	-	-	-	-	-
Russia	-	-	-	-	-	-	-	644	644
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	286	286
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	0	-	0	0	0	0	62	62
Total	-	21	-	4,887	1	380	304	6,414	7,098
Persian Gulf³	-	-	-	1,203	-	-	-	-	-

See footnotes at end of table.

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-March 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	35	—	9,347	35,312	289	104	392
Algeria	—	—	—	—	—	—	—	802	3,520	30	9	39
Angola	—	—	—	—	—	—	—	—	572	6	—	6
Congo (Brazzaville)	—	—	—	—	—	—	—	—	3,735	42	—	42
Ecuador	—	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	101	101	—	1	1
Libya	—	—	—	—	—	—	—	—	723	8	—	8
Nigeria	—	—	—	—	—	—	—	1,338	9,988	96	15	111
Saudi Arabia	—	—	—	—	—	—	—	3,502	13,069	106	39	145
United Arab Emirates	—	—	—	—	—	35	—	235	235	—	3	3
Venezuela	—	—	—	—	31	—	—	3,369	3,369	—	37	37
Non-OPEC	3	9	240	17	1,988	464	—	86,099	124,746	429	957	1,386
Argentina	—	—	—	—	—	—	—	677	677	—	8	8
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	863	863	—	10	10
Bahrain	—	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	18	—	491	491	—	5	5
Brazil	—	—	—	—	—	—	—	4,159	4,705	6	46	52
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	204	204	—	2	2
Canada	—	9	129	3	1,737	314	—	34,745	54,409	218	386	605
Chad	—	—	—	—	—	—	—	—	—	—	—	—
China	—	—	58	—	—	—	—	612	612	—	7	7
Colombia	—	—	—	—	—	—	—	3,056	6,891	43	34	77
Denmark	—	—	—	—	—	—	—	—	723	8	—	8
Egypt	—	—	—	—	—	—	—	—	646	7	—	7
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	1,161	1,161	—	13	13
France	—	—	—	—	—	16	—	2,151	2,151	—	24	24
Germany	—	—	18	—	—	32	—	423	423	—	5	5
Guatemala	—	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	9,318	9,318	—	104	104
Indonesia	—	—	1	—	—	—	—	514	514	—	6	6
Italy	—	—	—	—	—	4	—	1,190	1,190	—	13	13
Korea, South	—	—	1	—	—	58	—	1,558	1,558	—	17	17
Latvia	—	—	—	—	—	—	—	69	69	—	1	1
Lithuania	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	126	126	—	1	1
Netherlands	—	—	—	—	—	1	—	4,893	4,893	—	54	54
Norway	—	—	—	—	—	—	—	446	4,403	44	5	49
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	2,250	2,250	—	25	25
Qatar	—	—	—	—	—	—	—	2,555	2,555	—	28	28
Russia	—	—	—	—	—	18	—	5,166	10,454	59	57	116
Spain	—	—	2	—	251	—	—	2,665	2,665	—	30	30
Sweden	—	—	—	—	—	2	—	637	637	—	7	7
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	3	—	—	8	—	—	—	4,407	5,591	13	49	62
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	31	6	0	1	—	1,763	4,567	31	20	50
Total	3	9	240	17	2,019	499	—	95,446	160,058	718	1,061	1,778
Persian Gulf³	—	—	—	—	—	35	—	6,393	15,960	106	71	177

— = No Data Reported.

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

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

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

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

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

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-March 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	230,777	8,746	900	254	-	-	-	-	1,060	1,060
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	475	-	-	-	-	-	-	-	-	-
Brunei	417	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	228,924	8,746	900	254	-	-	-	-	1,060	1,060
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	961	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	0	-	-	-	-	0	0
Total	230,777	8,746	900	254	-	-	-	-	1,060	1,060
Persian Gulf³	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-March 2019
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	265	-	-	686	-	178	35	899
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	265	-	-	686	-	178	35	899
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	-	-	-	265	-	-	686	-	178	35	899
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-March 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	-	6	-	-	16	-	104	139	243
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	6	-	-	16	-	104	139	243
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	-	6	-	-	16	-	104	139	243
Persian Gulf³	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-March 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	245	246	16	91	572	342	-	13,901	244,678	2,564	154	2,719
Argentina	-	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	475	5	-	5
Brunei	-	-	-	-	-	-	-	-	417	5	-	5
Cameroon	-	-	-	-	-	-	-	-	-	-	-	-
Canada	245	246	16	87	572	339	-	13,894	242,818	2,544	154	2,698
Chad	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	961	11	-	11
Netherlands	-	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	3	-	3	3	-	0	0
Russia	-	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	4	-	-	-	4	4	-	0	0
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	0	0	0	-	0	0	-1	0	0
Total	245	246	16	91	572	342	-	13,901	244,678	2,564	154	2,719
Persian Gulf³	-	-	-	-	-	3	-	3	3	-	0	0

- = No Data Reported.

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

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

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

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

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

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-March 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	70,921	-	-	6,979	-	-	-	-	-	-
Algeria	-	-	-	4,428	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	173	-	-	-	-	-	-
Ecuador	1,063	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	25,343	-	-	-	-	-	-	-	-	-
Kuwait	3,914	-	-	-	-	-	-	-	-	-
Libya	-	-	-	205	-	-	-	-	-	-
Nigeria	949	-	-	-	-	-	-	-	-	-
Saudi Arabia	14,520	-	-	884	-	-	-	-	-	-
United Arab Emirates	-	-	-	1,289	-	-	-	-	-	-
Venezuela	25,132	-	-	-	-	-	-	-	-	-
Non-OPEC	121,586	-	236	26,584	-	284	284	325	3,858	4,183
Argentina	242	-	-	-	-	-	-	-	399	399
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	4,769	-	-	-	-	-	-
Brazil	3,632	-	-	483	-	-	-	-	604	604
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	42,195	-	-	489	-	-	-	-	-	-
Chad	949	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	17,343	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	70	70
Egypt	501	-	-	611	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	207	-	-	-	-	111	111
Germany	-	-	-	439	-	-	-	-	50	50
Guatemala	543	-	-	-	-	-	-	-	-	-
India	-	-	-	167	-	-	-	-	464	464
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	680	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	299	299
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	51,606	-	67	-	-	-	-	-	335	335
Netherlands	-	-	-	1,433	-	-	-	-	69	69
Norway	-	-	-	2,072	-	-	-	-	322	322
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	249	249
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	1,213	-	-	12,215	-	-	-	-	-	-
Spain	-	-	-	425	-	-	-	-	-	-
Sweden	-	-	-	414	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	1,918	-	-	-	-	-	-	-	-	-
United Kingdom	1,376	-	-	278	-	284	284	325	49	374
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	68	-	169	1,902	-	0	0	0	837	837
Total	192,507	-	236	33,563	-	284	284	325	3,858	4,183
Persian Gulf³	43,777	-	-	2,173	-	-	-	-	-	-

See footnotes at end of table.

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

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-	-	-	-	-	-	293	-	-	-	293
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	293	-	-	-	293
Non-OPEC	81	96	-	57	-	-	114	-	-	-	114
Argentina	81	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	96	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	114	-	-	-	114
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	57	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	-	-	0	-	-	-	0
Total	81	96	-	57	-	-	407	-	-	-	407
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

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

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
OPEC	-	-	-	18	-	-	-	1,200	1,200
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	18	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	679	679
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	521	521
Non-OPEC	-	59	-	12	1,021	1,074	57	2,178	3,309
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	189	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	-	-	6	185	-	-	-	-
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	175	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	217	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	6	37	749	-	1,421	2,170
Netherlands	-	59	-	-	-	-	-	235	235
Norway	-	-	-	-	-	-	-	244	244
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	325	-	278	603
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	0	-	0	218	0	57	0	57
Total	-	59	-	30	1,021	1,074	57	3,378	4,509
Persian Gulf³	-	-	-	18	-	-	-	679	679

See footnotes at end of table.

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-March 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	-	-	-	-	-	190	-	8,680	79,601	788	96	884
Algeria	-	-	-	-	-	-	-	4,428	4,428	-	49	49
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	173	173	-	2	2
Ecuador	-	-	-	-	-	-	-	-	1,063	12	-	12
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	18	25,361	282	0	282
Kuwait	-	-	-	-	-	-	-	-	3,914	43	-	43
Libya	-	-	-	-	-	-	-	205	205	-	2	2
Nigeria	-	-	-	-	-	-	-	-	949	11	-	11
Saudi Arabia	-	-	-	-	-	-	-	1,563	16,083	161	17	179
United Arab Emirates	-	-	-	-	-	190	-	1,479	1,479	-	16	16
Venezuela	-	-	-	-	-	-	-	814	25,946	279	9	288
Non-OPEC	874	69	92	150	-	2,675	-	39,904	161,490	1,351	443	1,794
Argentina	-	-	-	134	-	7	-	621	863	3	7	10
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	147	-	147	147	-	2	2
Belgium	-	-	-	-	-	4	-	4,773	4,773	-	53	53
Brazil	-	9	-	-	-	-	-	1,381	5,013	40	15	56
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	794	42,989	469	9	478
Chad	-	-	-	-	-	-	-	-	949	11	-	11
China	-	-	32	-	-	-	-	32	32	-	0	0
Colombia	-	-	-	-	-	-	-	-	17,343	193	-	193
Denmark	-	-	-	-	-	-	-	70	70	-	1	1
Egypt	-	-	-	-	-	-	-	611	1,112	6	7	12
Estonia	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	15	-	15	15	-	0	0
France	-	57	-	-	-	11	-	386	386	-	4	4
Germany	-	-	-	-	-	17	-	506	506	-	6	6
Guatemala	-	-	-	-	-	-	-	-	543	6	-	6
India	-	-	-	-	-	-	-	806	806	-	9	9
Indonesia	-	-	-	-	-	231	-	231	231	-	3	3
Italy	-	-	-	-	-	85	-	766	766	-	9	9
Korea, South	-	-	-	-	-	1,162	-	1,678	1,678	-	19	19
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	29	-	-	-	-	29	29	-	0	0
Mexico	535	-	-	-	-	-	-	3,150	54,756	573	35	608
Netherlands	-	-	-	-	-	26	-	1,822	1,822	-	20	20
Norway	-	-	-	-	-	-	-	2,638	2,638	-	29	29
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	249	249	-	3	3
Qatar	-	-	-	-	-	911	-	911	911	-	10	10
Russia	-	-	-	-	-	-	-	12,818	14,031	13	142	156
Spain	-	-	1	-	-	-	-	483	483	-	5	5
Sweden	-	-	-	-	-	-	-	414	414	-	5	5
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	1,918	21	-	21
United Kingdom	124	-	-	16	-	56	-	1,132	2,508	15	13	28
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	215	3	30	0	-	3	-	3,441	3,509	1	37	37
Total	874	69	92	150	-	2,865	-	48,584	241,091	2,139	540	2,679
Persian Gulf³	-	-	-	-	-	1,248	-	4,118	47,895	486	46	532

- = No Data Reported.

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

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

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

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

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

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

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
PAD District 4										
OPEC	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	26,918	1,684	-	-	-	-	-	-	171	171
Canada	26,918	1,684	-	-	-	-	-	-	171	171
Qatar	-	-	-	-	-	-	-	-	-	-
Other	0	0	-	-	-	-	-	-	0	0
Total	26,918	1,684	-	-	-	-	-	-	171	171
PAD District 5										
OPEC	64,495	-	-	834	-	-	-	-	-	-
Algeria	-	-	-	746	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	14,472	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	8,297	-	-	-	-	-	-	-	-	-
Kuwait	3,620	-	-	-	-	-	-	-	-	-
Libya	2,707	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	33,943	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	88	-	-	-	-	-	-
Venezuela	497	-	-	-	-	-	-	-	-	-
Non-OPEC	49,601	5,849	-	3,515	-	1,230	1,230	976	2,351	3,327
Argentina	3,061	128	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	202	-	-	-	-	-	-
Brazil	1,560	-	-	-	-	-	-	-	-	-
Brunei	1,022	-	-	-	-	-	-	-	-	-
Canada	22,282	5,604	-	661	-	312	312	-	295	295
China	-	-	-	-	-	-	-	-	-	-
Colombia	11,561	-	-	222	-	-	-	-	292	292
Finland	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	290	-	-	-	-	994	994
Korea, South	-	-	-	-	-	918	918	-	158	158
Malaysia	-	-	-	289	-	-	-	-	-	-
Mexico	3,426	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	976	-	976
Oman	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	189	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	349	-	-	-	-	307	307
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Other	6,689	117	-	1,313	-	0	0	0	305	305
Total	114,096	5,849	-	4,349	-	1,230	1,230	976	2,351	3,327
Persian Gulf³	45,860	-	-	88	-	-	-	-	-	-

See footnotes at end of table.

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

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total
PAD District 4											
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	10	-	-	162	-	-	-	162
Canada	-	-	-	10	-	-	162	-	-	-	162
Qatar	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	0	-	-	-	0
Total	-	-	-	10	-	-	162	-	-	-	162
PAD District 5											
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	251	132	1,306	-	635	-	3	-	638
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	251	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	17	-	-	546	-	3	-	549
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	115	-	-	89	-	-	-	89
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	0	0	1,306	-	0	-	0	-	0
Total	-	-	251	132	1,306	-	635	-	3	-	638
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

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

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
PAD District 4									
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	1	-	-	-	-	-	97	97
Canada	-	1	-	-	-	-	-	97	97
Qatar	-	-	-	-	-	-	-	-	-
Other	-	0	-	-	-	-	-	0	0
Total	-	1	-	-	-	-	-	97	97
PAD District 5									
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	1	-	6,576	-	338	584	1,552	2,474
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Canada	-	1	-	-	-	-	584	245	829
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Japan	-	-	-	326	-	-	-	-	-
Korea, South	-	-	-	4,731	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	609	609
Netherlands	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	505	505
Qatar	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	275	-	338	-	-	338
Sweden	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	190	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Other	-	0	-	1,054	-	0	0	193	193
Total	-	1	-	6,576	-	338	584	1,552	2,474
Persian Gulf³	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

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

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
PAD District 4												
OPEC	-	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	-	137	1	3	2,266	29,184	299	25	324
Canada	-	-	-	-	137	1	3	2,266	29,184	299	25	324
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	0	0	0	0	0	0	0	0
Total	-	-	-	-	137	1	3	2,266	29,184	299	25	324
PAD District 5												
OPEC	-	-	-	-	-	-	-	834	65,329	717	9	726
Algeria	-	-	-	-	-	-	-	746	746	-	8	8
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	14,472	161	-	161
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	8,297	92	-	92
Kuwait	-	-	-	-	-	-	-	-	3,620	40	-	40
Libya	-	-	-	-	-	-	-	-	2,707	30	-	30
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	33,943	377	-	377
United Arab Emirates	-	-	-	-	-	-	-	88	88	-	1	1
Venezuela	-	-	-	-	-	-	-	-	497	6	-	6
Non-OPEC	98	-	136	68	428	50	-	26,079	75,680	551	290	841
Argentina	-	-	-	-	-	-	-	128	3,189	34	1	35
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	202	202	-	2	2
Brazil	-	-	-	-	-	-	-	251	1,811	17	3	20
Brunei	-	-	-	-	-	-	-	-	1,022	11	-	11
Canada	-	-	-	68	298	26	-	8,660	30,942	248	96	344
China	-	-	113	-	-	-	-	113	113	-	1	1
Colombia	-	-	-	-	-	-	-	514	12,075	128	6	134
Finland	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	22	-	-	-	-	1,632	1,632	-	18	18
Korea, South	-	-	-	-	65	24	-	6,100	6,100	-	68	68
Malaysia	-	-	1	-	65	-	-	355	355	-	4	4
Mexico	-	-	-	-	-	-	-	609	4,035	38	7	45
Netherlands	-	-	-	-	-	-	-	976	976	-	11	11
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	694	694	-	8	8
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	1,919	1,919	-	21	21
Sweden	-	-	-	-	-	-	-	-	-	-	-	-
Taiwan	98	-	-	-	-	-	-	288	288	-	3	3
United Kingdom	-	-	-	-	-	-	-	656	656	-	7	7
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Other	0	-	0	0	0	0	-	2,982	9,671	75	34	109
Total	98	-	136	68	428	50	-	26,913	141,009	1,268	299	1,567
Persian Gulf³	-	-	-	-	-	-	-	88	45,948	510	1	511

- = No Data Reported.

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

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

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

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

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

Table 49. Exports of Crude Oil and Petroleum Products by PAD District, March 2019
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil¹	2	4,650	78,542	-	1	83,196	2,684
Hydrocarbon Gas Liquids	3,485	7,461	36,870	1,219	1,421	50,456	1,628
Natural Gas Liquids	3,485	7,461	36,870	1,219	1,421	50,456	1,628
Ethane	17	2,461	5,093	-	-	7,571	244
Propane	2,659	89	24,587	0	911	28,247	911
Normal Butane	705	152	7,067	-	503	8,427	272
Isobutane	1	0	102	-	3	106	3
Natural Gasoline	103	4,758	21	1,219	4	6,105	197
Refinery Olefins	-	-	-	-	-	-	-
Ethylene	-	-	-	-	-	-	-
Propylene	-	-	-	-	-	-	-
Normal Butylene	-	-	-	-	-	-	-
Isobutylene	-	-	-	-	-	-	-
Other Liquids	207	2,301	13,510	4	435	16,457	531
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	172	609	4,681	0	193	5,655	182
Hydrogen	-	-	-	-	-	-	-
Oxygenates (excluding Fuel Ethanol)	1	1	2,077	0	1	2,079	67
Methyl Tertiary Butyl Ether (MTBE)	0	-	1,420	-	-	1,420	46
Other Oxygenates	1	1	657	0	1	660	21
Renewable Fuels (including Fuel Ethanol) ...	171	607	2,605	-	192	3,575	115
Fuel Ethanol	169	502	2,526	-	138	3,335	108
Biodiesel	2	105	79	-	54	240	8
Other Renewable Diesel	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	-	-	-	-	-
Unfinished Oils	29	1,659	4,534	4	241	6,467	209
Naphthas and Lighter	14	1,649	4,364	0	231	6,258	202
Kerosene and Light Gas Oils	15	10	170	4	9	208	7
Heavy Gas Oils	-	-	-	-	-	-	-
Residuum	-	-	-	-	-	-	-
Motor Gasoline Blend.Comp. (MGBC)	6	33	4,295	-	2	4,336	140
Reformulated	4	-	5	-	1	10	0
Conventional	2	33	4,289	-	1	4,326	140
Aviation Gasoline Blend. Comp.	-	-	-	-	-	-	-
Finished Petroleum Products	4,540	882	80,450	20	11,868	97,761	3,154
Finished Motor Gasoline	180	160	24,161	1	1,918	26,420	852
Reformulated	-	-	-	-	-	-	-
Conventional	180	160	24,161	1	1,918	26,420	852
Finished Aviation Gasoline	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	459	116	4,111	-	849	5,535	179
Kerosene	52	1	9	-	2	65	2
Distillate Fuel Oil	1,603	188	30,171	0	4,982	36,944	1,192
15 ppm sulfur and under	1,173	1	23,196	0	4,474	28,844	930
Greater than 15 ppm to 500 ppm sulfur	300	127	3,158	-	501	4,085	132
Greater than 500 ppm sulfur	130	60	3,817	-	8	4,014	129
Residual Fuel Oil	1,697	108	5,127	10	579	7,521	243
Naphtha for Petro. Feed. Use	-	-	-	-	-	-	-
Other Oils for Petro. Feed. Use	-	-	-	-	-	-	-
Special Naphthas	-	-	-	-	-	-	-
Lubricants	179	191	3,765	8	283	4,426	143
Waxes	62	30	23	0	6	121	4
Petroleum Coke	219	56	12,307	-	3,202	15,785	509
Asphalt and Road Oil	73	29	735	0	46	884	29
Miscellaneous Products	15	4	39	1	0	60	2
Total	8,235	15,293	209,372	1,244	13,725	247,869	7,996

- = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

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

Sources: U.S. Census Bureau and EIA estimates.

Table 50. Year-to-Date Exports of Crude Oil and Petroleum Products by PAD District, January-March 2019
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil¹	8	15,969	230,769	-	1	246,747	2,742
Hydrocarbon Gas Liquids	9,361	22,010	106,405	1,337	3,763	142,876	1,588
Natural Gas Liquids	9,361	22,010	106,405	1,337	3,763	142,876	1,588
Ethane	1,590	7,748	14,949	-	1	24,288	270
Propane	6,282	282	76,503	1	2,601	84,796	942
Normal Butane	742	989	15,609	4	1,155	18,295	203
Isobutane	3	3	268	-	3	274	3
Natural Gasoline	752	13,003	93	1,332	45	15,225	169
Refinery Olefins	-	-	-	-	-	-	-
Ethylene	-	-	-	-	-	-	-
Propylene	-	-	-	-	-	-	-
Normal Butylene	-	-	-	-	-	-	-
Isobutylene	-	-	-	-	-	-	-
Other Liquids	392	6,386	42,231	9	1,277	50,295	559
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	294	1,465	12,448	0	596	14,803	164
Hydrogen	-	-	-	-	-	-	-
Oxygenates (excluding Fuel Ethanol)	4	5	5,291	0	2	5,301	59
Methyl Tertiary Butyl Ether (MTBE)	0	0	2,993	-	0	2,993	33
Other Oxygenates	4	4	2,297	0	2	2,308	26
Renewable Fuels (including Fuel Ethanol) ...	290	1,461	7,157	-	594	9,502	106
Fuel Ethanol	277	1,313	7,007	-	501	9,098	101
Biodiesel	13	148	150	-	93	404	4
Other Renewable Diesel	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	-	-	-	-	-
Unfinished Oils	79	4,785	18,707	9	263	23,843	265
Naphthas and Lighter	40	4,754	18,280	1	248	23,323	259
Kerosene and Light Gas Oils	39	32	427	8	15	520	6
Heavy Gas Oils	-	-	-	-	-	-	-
Residuum	-	-	-	-	-	-	-
Motor Gasoline Blend.Comp. (MGBC)	19	135	11,077	0	418	11,649	129
Reformulated	5	-	25	-	3	34	0
Conventional	13	135	11,051	0	414	11,615	129
Aviation Gasoline Blend. Comp.	-	-	-	-	-	-	-
Finished Petroleum Products	11,196	2,424	247,638	50	34,533	295,840	3,287
Finished Motor Gasoline	1,108	311	74,030	2	4,375	79,826	887
Reformulated	-	-	-	-	-	-	-
Conventional	1,108	311	74,030	2	4,375	79,826	887
Finished Aviation Gasoline	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	1,280	195	14,965	-	2,487	18,926	210
Kerosene	175	2	163	-	9	349	4
Distillate Fuel Oil	3,104	364	89,661	0	14,451	107,579	1,195
15 ppm sulfur and under	2,286	2	69,968	0	10,907	83,163	924
Greater than 15 ppm to 500 ppm sulfur	681	203	8,695	-	2,434	12,012	133
Greater than 500 ppm sulfur	137	159	10,998	-	1,110	12,404	138
Residual Fuel Oil	2,917	446	16,186	23	1,846	21,418	238
Naphtha for Petro. Feed. Use	-	-	-	-	-	-	-
Other Oils for Petro. Feed. Use	-	-	-	-	-	-	-
Special Naphthas	-	-	-	-	-	-	-
Lubricants	680	528	8,707	21	988	10,924	121
Waxes	174	94	70	1	14	352	4
Petroleum Coke	1,510	140	41,997	0	10,105	53,753	597
Asphalt and Road Oil	211	333	1,770	1	258	2,573	29
Miscellaneous Products	37	12	89	1	1	139	2
Total	20,956	46,789	627,043	1,396	39,574	735,758	8,175

- = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

Note: Totals may not equal sum of components due to independent rounding.
Sources: U.S. Census Bureau and EIA estimates.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, March 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	—	0	—	175	—	—	—	—	—	—
Australia	—	552	—	—	—	0	0	0	—	0
Bahamas	—	23	—	—	—	43	43	0	—	0
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	56	0	—	7	—	—	—	—	—	—
Belize	—	—	—	—	—	15	15	—	40	40
Brazil	1,358	1,240	—	507	—	1,846	1,846	—	370	370
Canada	13,366	8,845	—	1,676	—	405	405	—	951	951
Cayman Islands	—	—	—	—	—	81	81	—	—	—
Chile	1,547	550	—	1	—	99	99	—	—	—
China	3,183	1	—	5	—	1	1	—	—	—
Colombia	498	15	—	1,094	—	1,307	1,307	—	—	—
Costa Rica	—	199	—	9	—	597	597	—	—	—
Denmark	320	—	—	—	—	—	—	0	—	0
Dominican Republic	480	1,361	—	563	—	201	201	0	—	0
Ecuador	—	1,093	—	7	—	790	790	—	261	261
Egypt	—	538	—	—	—	—	—	—	—	—
El Salvador	—	237	—	0	—	599	599	—	—	—
Finland	—	—	—	0	—	1	1	—	—	—
France	1,194	288	—	41	—	1	1	—	0	0
Germany	—	—	—	11	—	—	—	—	0	0
Ghana	—	—	—	—	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	—	—	—	—	—
Greece	—	—	—	—	—	—	—	—	—	—
Guatemala	—	26	—	2	—	1,534	1,534	—	524	524
Honduras	—	646	—	1	—	386	386	—	75	75
Hong Kong	—	—	—	0	—	—	—	—	—	—
India	12,759	4,023	—	0	—	0	0	1	—	1
Indonesia	—	2,723	—	16	—	—	—	—	—	—
Ireland	1,822	—	—	—	—	—	—	—	—	—
Israel	—	0	—	0	—	—	—	—	—	—
Italy	2,834	—	—	0	—	—	—	—	—	—
Jamaica	—	—	—	0	—	141	141	—	2	2
Japan	2,590	10,762	—	788	—	0	0	0	0	1
Korea, South	11,351	3,998	—	405	—	140	140	0	0	1
Lebanon	—	—	—	—	—	—	—	—	—	—
Mexico	—	4,964	—	82	—	15,832	15,832	5	2,101	2,106
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	1,629	—	—	—	—	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—	—	—
Netherlands	5,444	1,157	—	815	—	262	262	—	—	—
New Zealand	—	1	—	—	—	—	—	—	—	—
Nicaragua	399	—	—	—	—	80	80	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—
Norway	597	789	—	0	—	—	—	—	—	—
Pakistan	—	—	—	—	—	—	—	—	—	—
Panama	1,945	0	—	1	—	410	410	—	—	—
Peru	399	—	—	4	—	683	683	—	—	—
Philippines	—	486	—	0	—	—	—	—	—	—
Portugal	—	275	—	—	—	—	—	—	—	—
Puerto Rico	—	18	—	2	—	3	3	—	0	0
Romania	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	4	—	—	—	—	—	—	—	—
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	3,036	272	—	21	—	0	0	—	—	—
South Africa	—	0	—	—	—	—	—	—	—	—
Spain	610	1,025	—	—	—	—	—	—	—	—
Switzerland	—	—	—	0	—	—	—	—	—	—
Taiwan	3,785	0	—	1	—	—	—	—	—	—
Thailand	4,639	0	—	1	—	—	—	—	—	—
Trinidad and Tobago	—	1	—	0	—	—	—	—	0	0
Turkey	—	499	—	—	—	—	—	1	—	1
United Arab Emirates	781	—	—	0	—	—	—	0	—	0
United Kingdom	5,812	1,133	—	0	—	1	1	—	—	—
Venezuela	—	0	—	0	—	4	4	2	0	2
Other	2,391	1,083	—	232	—	958	958	1	2	1
Total	83,196	50,456	—	6,467	—	26,420	26,420	10	4,326	4,336

See footnotes at end of table.

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

Destination	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
Argentina	–	–	–	0	–	–	769	–	130	–	899
Australia	–	0	0	–	–	–	–	–	–	–	–
Bahamas	–	0	0	–	–	–	407	–	204	–	611
Bahrain	–	–	0	–	–	–	–	–	–	–	–
Belgium	7	0	–	–	–	–	–	–	–	–	–
Belize	–	–	–	–	–	–	0	39	41	–	80
Brazil	–	0	1,563	–	–	–	6,657	533	485	–	7,675
Canada	–	0	540	160	–	–	1	180	68	–	249
Cayman Islands	–	–	–	–	–	–	90	–	–	–	90
Chile	213	–	1	–	–	–	1,801	–	–	–	1,801
China	–	0	0	–	–	–	2	299	–	–	301
Colombia	–	–	84	–	–	–	301	–	–	–	301
Costa Rica	–	0	0	–	–	–	680	–	–	–	680
Denmark	–	–	–	–	–	–	–	–	–	–	–
Dominican Republic	–	–	0	–	–	–	198	582	573	–	1,353
Ecuador	–	–	–	–	–	–	786	–	–	–	786
Egypt	–	–	0	–	–	–	–	–	–	–	–
El Salvador	–	–	–	–	–	–	1	286	–	–	287
Finland	–	–	–	–	–	–	–	–	–	–	–
France	–	0	–	–	–	–	1	–	–	–	1
Germany	–	0	0	0	–	–	–	–	–	–	–
Ghana	–	–	–	–	–	–	2	–	–	–	2
Gibraltar	–	–	–	–	–	–	–	–	638	–	638
Greece	–	–	–	–	–	–	–	–	–	–	–
Guatemala	–	–	–	–	–	–	395	891	90	–	1,377
Honduras	–	–	–	–	–	–	467	154	154	–	775
Hong Kong	–	–	0	–	–	–	–	–	–	–	–
India	–	0	251	1	–	–	–	–	–	–	–
Indonesia	–	–	–	–	–	–	–	–	–	–	–
Ireland	–	0	0	–	–	–	–	–	–	–	–
Israel	–	0	0	–	–	–	0	–	–	–	0
Italy	–	–	–	–	–	–	32	–	–	–	32
Jamaica	–	–	75	–	–	–	152	71	119	–	342
Japan	–	657	11	–	–	–	1	–	–	–	1
Korea, South	–	0	69	–	–	–	4	–	–	–	4
Lebanon	–	–	0	–	–	–	0	–	–	–	0
Mexico	1,200	1	51	2	–	–	8,295	185	6	–	8,487
Montenegro	–	–	–	–	–	–	–	–	–	–	–
Morocco	–	–	–	3	–	–	627	–	–	–	627
Mozambique	–	–	–	–	–	–	–	–	–	–	–
Netherlands	–	–	50	45	–	–	1,166	–	621	–	1,787
New Zealand	–	–	–	–	–	–	–	–	–	–	–
Nicaragua	–	–	–	–	–	–	116	98	–	–	214
Nigeria	–	–	–	–	–	–	–	–	–	–	–
Norway	0	–	–	–	–	–	80	–	–	–	80
Pakistan	–	–	–	–	–	–	–	–	–	–	–
Panama	–	–	–	–	–	–	663	140	179	–	982
Peru	–	–	131	29	–	–	2,297	–	–	–	2,297
Philippines	–	0	116	–	–	–	–	–	–	–	–
Portugal	–	–	–	–	–	–	–	–	–	–	–
Puerto Rico	–	0	1	–	–	–	1	1	–	–	2
Romania	–	–	–	–	–	–	–	–	–	–	–
Saudi Arabia	–	–	55	–	–	–	–	–	–	–	–
Serbia	–	–	–	–	–	–	–	–	–	–	–
Singapore	–	0	1	1	–	–	138	–	–	–	138
South Africa	–	–	–	–	–	–	–	–	–	–	–
Spain	–	–	–	–	–	–	333	–	–	–	333
Switzerland	–	–	217	–	–	–	–	–	4	–	4
Taiwan	–	0	–	–	–	–	0	–	–	–	0
Thailand	–	0	0	–	–	–	–	–	–	–	–
Trinidad and Tobago	–	–	0	–	–	–	20	279	240	–	539
Turkey	–	–	–	–	–	–	0	–	–	–	0
United Arab Emirates	–	–	73	–	–	–	0	–	–	–	0
United Kingdom	–	–	1	–	–	–	1,284	–	–	–	1,284
Venezuela	–	–	–	–	–	–	0	–	–	–	0
Other	–	2	45	0	–	–	1,077	347	462	–	1,885
Total	1,420	660	3,335	240	–	–	28,844	4,085	4,014	–	36,944

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, March 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	—	—	—	34	—	—	—	—
Australia	—	—	—	—	—	—	—	—
Bahamas	—	—	—	60	—	281	—	—
Bahrain	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—
Belize	—	—	—	9	—	—	—	—
Brazil	—	—	—	74	—	88	—	—
Canada	54	—	—	1,122	—	690	—	—
Cayman Islands	—	—	—	60	—	—	—	—
Chile	0	—	—	140	—	—	—	—
China	0	—	—	—	—	1	—	—
Colombia	0	—	—	—	—	0	—	—
Costa Rica	8	—	—	213	—	0	—	—
Denmark	—	—	—	—	—	—	—	—
Dominican Republic	0	—	—	230	—	—	—	—
Ecuador	—	—	—	—	—	214	—	—
Egypt	—	—	—	—	—	—	—	—
El Salvador	—	—	—	20	—	—	—	—
Finland	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—
Ghana	—	—	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	370	—	—
Greece	—	—	—	—	—	—	—	—
Guatemala	—	—	—	183	—	117	—	—
Honduras	0	—	—	32	—	358	—	—
Hong Kong	0	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—
Ireland	—	—	—	—	—	—	—	—
Israel	0	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—
Jamaica	—	—	—	135	—	901	—	—
Japan	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	—	—
Lebanon	—	—	—	0	—	—	—	—
Mexico	0	—	—	1,928	—	1,884	—	—
Montenegro	—	—	—	—	—	—	—	—
Morocco	—	—	—	—	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	733	—	—
New Zealand	—	—	—	—	—	—	—	—
Nicaragua	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—
Pakistan	0	—	—	—	—	—	—	—
Panama	0	—	—	424	—	680	—	—
Peru	—	—	—	230	—	—	—	—
Philippines	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—
Puerto Rico	0	—	—	0	—	0	—	—
Romania	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—
Serbia	—	—	—	—	—	—	—	—
Singapore	0	—	—	—	—	833	—	—
South Africa	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—
Switzerland	—	—	—	—	—	—	—	—
Taiwan	—	—	—	—	—	0	—	—
Thailand	—	—	—	—	—	—	—	—
Trinidad and Tobago	0	—	—	50	—	—	—	—
Turkey	0	—	—	0	—	—	—	—
United Arab Emirates	0	—	—	—	—	0	—	—
United Kingdom	0	—	—	—	—	370	—	—
Venezuela	—	—	—	2	—	0	—	—
Other	3	—	—	589	—	1	—	—
Total	65	—	—	5,535	—	7,521	—	—

See footnotes at end of table.

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

Destination	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
Argentina	0	0	0	70	—	1,179	1,179	—	38	38
Australia	0	182	—	7	1	743	743	—	24	24
Bahamas	0	—	3	3	—	1,024	1,024	—	33	33
Bahrain	—	—	—	0	—	0	0	—	0	0
Belgium	—	139	0	363	1	518	573	2	17	18
Belize	—	—	—	2	—	146	146	—	5	5
Brazil	1	1,703	—	1,140	0	16,207	17,565	44	523	567
Canada	85	141	101	266	10	15,294	28,660	431	493	925
Cayman Islands	—	—	1	1	—	234	234	—	8	8
Chile	0	—	0	103	0	2,910	4,456	50	94	144
China	2	1,138	1	26	1	1,477	4,660	103	48	150
Colombia	0	—	1	149	0	2,952	3,450	16	95	111
Costa Rica	0	—	69	14	—	1,789	1,789	—	58	58
Denmark	—	—	—	—	—	0	320	10	0	10
Dominican Republic	0	—	185	19	0	3,914	4,394	15	126	142
Ecuador	0	168	0	221	0	3,541	3,541	—	114	114
Egypt	—	—	—	22	—	559	559	—	18	18
El Salvador	—	—	—	26	—	1,170	1,170	—	38	38
Finland	—	—	0	2	—	3	3	—	0	0
France	0	429	—	25	—	785	1,979	39	25	64
Germany	2	—	0	3	0	17	17	—	1	1
Ghana	—	—	—	0	—	2	2	—	0	0
Gibraltar	—	—	—	—	—	1,008	1,008	—	33	33
Greece	—	63	—	0	—	63	63	—	2	2
Guatemala	0	—	—	23	—	3,786	3,786	—	122	122
Honduras	0	—	43	15	—	2,332	2,332	—	75	75
Hong Kong	0	—	0	5	0	6	6	—	0	0
India	1	4,243	1	222	0	8,743	21,502	412	282	694
Indonesia	0	0	1	1	0	2,741	2,741	—	88	88
Ireland	—	—	—	0	—	0	1,822	59	0	59
Israel	—	322	—	32	—	355	355	—	11	11
Italy	0	—	0	28	—	60	2,894	91	2	93
Jamaica	0	—	—	6	—	1,603	1,603	—	52	52
Japan	1	1,383	0	7	3	13,614	16,204	84	439	523
Korea, South	0	1	1	2	0	4,620	15,971	366	149	515
Lebanon	—	—	—	1	—	1	1	—	0	0
Mexico	23	1,957	376	1,182	39	40,115	40,115	—	1,294	1,294
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	583	—	—	—	2,842	2,842	—	92	92
Mozambique	—	—	—	—	—	—	—	—	—	—
Netherlands	2	451	1	63	0	5,365	10,809	176	173	349
New Zealand	0	44	—	0	—	45	45	—	1	1
Nicaragua	—	—	—	6	—	301	700	13	10	23
Nigeria	—	—	33	0	—	33	33	—	1	1
Norway	—	135	—	0	—	1,004	1,601	19	32	52
Pakistan	—	—	—	0	—	0	0	—	0	0
Panama	—	271	—	27	—	2,795	4,740	63	90	153
Peru	0	0	0	82	0	3,456	3,855	13	111	124
Philippines	0	—	—	2	0	605	605	—	20	20
Portugal	0	—	—	0	—	275	275	—	9	9
Puerto Rico	0	—	23	12	—	61	61	—	2	2
Romania	—	357	—	0	—	357	357	—	12	12
Saudi Arabia	—	4	—	4	0	68	68	—	2	2
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	0	—	1	30	0	1,297	4,333	98	42	140
South Africa	—	42	0	47	—	89	89	—	3	3
Spain	0	351	—	2	0	1,710	2,320	20	55	75
Switzerland	—	—	—	0	—	221	221	—	7	7
Taiwan	0	0	0	6	—	8	3,793	122	0	122
Thailand	0	0	0	2	0	3	4,642	150	0	150
Trinidad and Tobago	0	—	—	3	0	594	594	—	19	19
Turkey	0	812	—	11	—	1,323	1,323	—	43	43
United Arab Emirates	0	281	—	59	0	415	1,196	25	13	39
United Kingdom	0	204	0	2	0	2,995	8,807	187	97	284
Venezuela	—	3	—	6	—	18	18	—	1	1
Other	4	378	43	76	5	5,283	7,675	76	170	244
Total	121	15,785	884	4,426	60	164,674	247,869	2,684	5,312	7,996

— = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

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

Sources: U.S. Census Bureau and EIA estimates.

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

Destination	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
Argentina	-	1	-	773	-	598	598	-	-	-
Australia	-	560	-	0	-	457	457	1	-	1
Bahamas	-	154	-	0	-	194	194	0	0	0
Bahrain	-	-	-	0	-	-	-	-	-	-
Belgium	127	677	-	348	-	-	-	-	0	0
Belize	-	-	-	-	-	27	27	-	78	78
Brazil	2,551	3,032	-	2,183	-	5,065	5,065	-	1,380	1,380
Canada	41,777	24,249	-	4,835	-	2,256	2,256	-	2,961	2,961
Cayman Islands	-	0	-	-	-	189	189	-	0	0
Chile	2,370	1,651	-	23	-	872	872	-	-	-
China	7,232	1,339	-	1,461	-	1	1	-	-	-
Colombia	1,522	105	-	3,160	-	1,964	1,964	-	319	319
Costa Rica	-	361	-	11	-	1,797	1,797	-	-	-
Denmark	940	0	-	-	-	-	-	0	0	0
Dominican Republic	999	5,012	-	1,251	-	1,267	1,267	0	60	60
Ecuador	-	3,153	-	26	-	2,939	2,939	-	533	533
Egypt	-	1,978	-	-	-	-	-	-	1	1
El Salvador	-	689	-	1	-	1,007	1,007	0	0	1
Finland	-	-	-	0	-	1	1	-	-	-
France	4,983	1,894	-	53	-	1	1	-	0	0
Germany	2,994	1	-	22	-	-	-	-	0	0
Ghana	-	-	-	0	-	-	-	-	-	-
Gibraltar	-	-	-	-	-	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-	-	-
Guatemala	-	1,359	-	7	-	3,234	3,234	-	524	524
Honduras	-	1,256	-	3	-	2,304	2,304	-	542	542
Hong Kong	-	0	-	0	-	-	-	-	-	-
India	24,004	10,304	-	10	-	0	0	1	-	1
Indonesia	-	4,887	-	17	-	-	-	-	-	-
Ireland	3,705	-	-	0	-	-	-	-	-	-
Israel	-	0	-	7	-	-	-	-	-	-
Italy	10,353	234	-	0	-	-	-	-	-	-
Jamaica	-	102	-	0	-	761	761	-	2	2
Japan	6,582	30,219	-	1,877	-	1	1	2	0	2
Korea, South	31,747	8,450	-	855	-	142	142	1	0	1
Lebanon	-	-	-	-	-	-	-	-	-	-
Mexico	-	13,716	-	1,074	-	45,551	45,551	24	4,759	4,783
Montenegro	-	-	-	-	-	-	-	-	-	-
Morocco	-	2,558	-	-	-	-	-	-	-	-
Mozambique	-	-	-	-	-	-	-	-	-	-
Netherlands	27,540	3,410	-	2,071	-	462	462	-	-	-
New Zealand	-	2	-	0	-	0	0	-	-	-
Nicaragua	798	-	-	-	-	385	385	-	-	-
Nigeria	-	-	-	0	-	-	-	-	-	-
Norway	3,237	2,924	-	60	-	-	-	-	-	-
Pakistan	-	-	-	-	-	-	-	-	-	-
Panama	2,535	1	-	2	-	2,193	2,193	-	61	61
Peru	793	224	-	8	-	1,966	1,966	-	102	102
Philippines	-	486	-	1	-	-	-	-	-	-
Portugal	-	275	-	-	-	-	-	-	-	-
Puerto Rico	-	35	-	4	-	6	6	-	0	0
Romania	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	4	-	3	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-	-	-
Singapore	6,829	1,965	-	304	-	320	320	-	50	50
South Africa	325	0	-	0	-	-	-	0	-	0
Spain	1,868	3,897	-	0	-	480	480	-	-	-
Switzerland	-	289	-	0	-	-	-	-	-	-
Taiwan	15,816	2,777	-	630	-	0	0	-	0	0
Thailand	15,644	0	-	1	-	-	-	-	-	-
Trinidad and Tobago	-	1	-	0	-	258	258	-	240	240
Turkey	-	1,366	-	0	-	-	-	1	-	1
United Arab Emirates	2,461	1	-	1	-	2	2	0	-	0
United Kingdom	22,208	3,737	-	1	-	4	4	-	-	-
Venezuela	-	267	-	2,039	-	1,463	1,463	3	0	3
Other	4,807	3,274	-	721	-	1,659	1,659	1	3	3
Total	246,747	142,876	-	23,843	-	79,826	79,826	34	11,615	11,649

See footnotes at end of table.

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

Destination	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
Argentina	—	—	0	0	—	—	1,853	—	139	—	1,992
Australia	—	0	0	—	—	—	0	—	—	—	0
Bahamas	—	1	0	—	—	—	989	—	751	—	1,740
Bahrain	—	—	0	—	—	—	—	—	—	—	—
Belgium	20	0	0	—	—	—	—	—	—	—	—
Belize	—	—	—	—	—	—	0	113	41	—	155
Brazil	—	0	3,342	0	—	—	14,939	853	1,665	—	17,457
Canada	—	1	1,423	241	—	—	1	1,069	173	—	1,243
Cayman Islands	—	—	—	—	—	—	252	—	—	—	252
Chile	625	—	3	—	—	—	8,561	—	—	—	8,561
China	0	1	0	—	—	—	3	299	—	—	302
Colombia	—	—	390	—	—	—	3,610	—	—	—	3,610
Costa Rica	—	0	1	—	—	—	2,066	—	—	—	2,066
Denmark	—	—	—	—	—	—	—	—	—	—	—
Dominican Republic	—	—	0	—	—	—	550	1,138	800	—	2,488
Ecuador	—	0	0	—	—	—	1,053	1,102	—	—	2,155
Egypt	—	—	0	—	—	—	—	—	—	—	—
El Salvador	—	—	—	—	—	—	5	904	—	—	909
Finland	—	—	0	—	—	—	—	—	—	—	—
France	—	1	31	—	—	—	3,151	294	—	—	3,445
Germany	0	0	0	5	—	—	1	—	—	—	1
Ghana	—	—	—	—	—	—	2	—	—	—	2
Gibraltar	—	—	—	—	—	—	—	—	2,531	—	2,531
Greece	—	—	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	768	2,377	246	—	3,391
Honduras	—	0	—	—	—	—	1,099	726	508	—	2,333
Hong Kong	—	0	0	0	—	—	—	—	—	—	—
India	0	0	1,084	1	—	—	26	—	—	—	26
Indonesia	—	—	—	—	—	—	—	—	—	—	—
Ireland	—	0	0	—	—	—	—	—	—	—	—
Israel	—	0	0	—	—	—	0	—	—	—	0
Italy	—	—	0	—	—	—	66	—	—	—	66
Jamaica	—	0	166	—	—	—	395	71	278	—	744
Japan	—	2,298	55	—	—	—	1	24	—	—	25
Korea, South	—	0	590	—	—	—	12	—	—	—	12
Lebanon	—	—	0	—	—	—	0	—	—	—	0
Mexico	2,088	2	207	6	—	—	24,353	495	297	—	25,145
Montenegro	—	—	—	—	—	—	—	—	—	—	—
Morocco	—	—	—	3	—	—	627	—	—	—	627
Mozambique	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	0	104	111	—	—	3,386	—	1,635	—	5,021
New Zealand	—	—	—	—	—	—	—	—	—	—	—
Nicaragua	—	—	—	—	—	—	168	270	210	—	648
Nigeria	—	—	84	—	—	—	—	—	—	—	—
Norway	0	—	50	—	—	—	247	—	—	—	247
Pakistan	—	—	—	—	—	—	—	—	—	—	—
Panama	—	—	0	—	—	—	2,232	539	1,112	—	3,883
Peru	—	0	345	30	—	—	6,017	—	—	—	6,017
Philippines	—	0	452	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Puerto Rico	—	1	3	—	—	—	1	1	—	—	2
Romania	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	1	71	—	—	—	—	—	—	—	—
Serbia	—	—	—	—	—	—	—	—	—	—	—
Singapore	0	1	2	1	—	—	138	50	747	—	935
South Africa	—	—	0	—	—	—	0	—	—	—	0
Spain	—	—	133	—	—	—	607	—	—	—	607
Switzerland	—	—	220	6	—	—	0	—	4	—	4
Taiwan	0	0	1	—	—	—	0	—	—	—	0
Thailand	—	0	0	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	0	—	—	—	289	550	240	—	1,079
Turkey	—	—	—	—	—	—	1	—	—	—	1
United Arab Emirates	—	—	74	—	—	—	0	—	—	—	0
United Kingdom	—	0	1	—	—	—	2,550	—	—	—	2,550
Venezuela	259	—	—	—	—	—	275	—	—	—	275
Other	1	1	266	—	—	—	2,869	1,137	1,027	—	5,032
Total	2,993	2,308	9,098	404	—	—	83,163	12,012	12,404	—	107,579

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-March 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	—	—	—	178	—	—	—	—
Australia	—	—	—	—	—	1	—	—
Bahamas	—	—	—	178	—	1,902	—	—
Bahrain	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—
Belize	—	—	—	33	—	—	—	—
Brazil	0	—	—	429	—	208	—	—
Canada	182	—	—	3,523	—	2,671	—	—
Cayman Islands	—	—	—	92	—	—	—	—
Chile	1	—	—	982	—	0	—	—
China	0	—	—	0	—	1	—	—
Colombia	0	—	—	177	—	0	—	—
Costa Rica	9	—	—	663	—	0	—	—
Denmark	—	—	—	—	—	—	—	—
Dominican Republic	0	—	—	1,021	—	247	—	—
Ecuador	0	—	—	8	—	1,069	—	—
Egypt	—	—	—	—	—	—	—	—
El Salvador	0	—	—	118	—	—	—	—
Finland	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—
Ghana	—	—	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	621	—	—
Greece	—	—	—	—	—	—	—	—
Guatemala	1	—	—	526	—	199	—	—
Honduras	0	—	—	212	—	641	—	—
Hong Kong	0	—	—	—	—	—	—	—
India	—	—	—	0	—	66	—	—
Indonesia	—	—	—	—	—	—	—	—
Ireland	—	—	—	—	—	—	—	—
Israel	1	—	—	333	—	—	—	—
Italy	—	—	—	—	—	—	—	—
Jamaica	0	—	—	467	—	1,596	—	—
Japan	0	—	—	0	—	64	—	—
Korea, South	—	—	—	0	—	0	—	—
Lebanon	—	—	—	0	—	982	—	—
Mexico	144	—	—	4,824	—	4,364	—	—
Montenegro	—	—	—	—	—	—	—	—
Morocco	—	—	—	—	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	2,664	—	—
New Zealand	0	—	—	—	—	—	—	—
Nicaragua	0	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—
Pakistan	0	—	—	—	—	—	—	—
Panama	0	—	—	1,633	—	2,348	—	—
Peru	0	—	—	631	—	0	—	—
Philippines	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—
Puerto Rico	0	—	—	0	—	1	—	—
Romania	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	3	—	—	—	—
Serbia	—	—	—	—	—	—	—	—
Singapore	0	—	—	—	—	1,023	—	—
South Africa	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—
Switzerland	—	—	—	—	—	—	—	—
Taiwan	0	—	—	—	—	1	—	—
Thailand	—	—	—	—	—	0	—	—
Trinidad and Tobago	0	—	—	759	—	—	—	—
Turkey	1	—	—	0	—	—	—	—
United Arab Emirates	0	—	—	—	—	0	—	—
United Kingdom	0	—	—	325	—	370	—	—
Venezuela	—	—	—	16	—	0	—	—
Other	10	—	—	1,795	—	379	—	—
Total	349	—	—	18,926	—	21,418	—	—

See footnotes at end of table.

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

Destination	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
Argentina	0	83	0	139	0	3,765	3,765	—	42	42
Australia	2	478	0	45	2	1,546	1,546	—	17	17
Bahamas	0	—	8	8	—	4,187	4,187	—	47	47
Bahrain	0	—	—	1	—	1	1	—	0	0
Belgium	0	906	0	1,270	3	3,224	3,351	1	36	37
Belize	—	—	—	4	—	297	297	—	3	3
Brazil	2	4,160	—	1,648	1	38,909	41,461	28	432	461
Canada	246	919	378	721	26	45,872	87,649	464	510	974
Cayman Islands	—	—	2	4	—	539	539	—	6	6
Chile	1	1	96	265	0	13,082	15,451	26	145	172
China	6	3,588	3	66	2	6,771	14,004	80	75	156
Colombia	0	238	1	320	1	10,286	11,807	17	114	131
Costa Rica	0	—	128	36	—	5,071	5,071	—	56	56
Denmark	—	345	—	0	—	345	1,285	10	4	14
Dominican Republic	1	354	323	55	0	12,079	13,079	11	134	145
Ecuador	0	738	0	302	0	10,925	10,925	—	121	121
Egypt	—	851	—	76	—	2,906	2,906	—	32	32
El Salvador	—	180	—	65	—	2,970	2,970	—	33	33
Finland	—	293	0	3	—	297	297	—	3	3
France	1	459	—	72	—	5,957	10,940	55	66	122
Germany	4	275	2	10	0	320	3,314	33	4	37
Ghana	—	—	0	1	—	3	3	—	0	0
Gibraltar	—	—	—	—	—	3,152	3,152	—	35	35
Greece	—	275	—	1	—	275	275	—	3	3
Guatemala	0	1,265	—	61	—	10,569	10,569	—	117	117
Honduras	0	274	85	46	—	7,698	7,698	—	86	86
Hong Kong	0	—	0	7	0	9	9	—	0	0
India	3	12,242	4	404	0	24,144	48,147	267	268	535
Indonesia	0	0	3	108	0	5,016	5,016	—	56	56
Ireland	—	176	—	0	—	176	3,881	41	2	43
Israel	0	625	0	62	0	1,030	1,030	—	11	11
Italy	0	1,200	0	28	—	1,529	11,882	115	17	132
Jamaica	0	—	0	23	0	3,861	3,861	—	43	43
Japan	14	4,369	2	20	10	38,957	45,540	73	433	506
Korea, South	0	650	1	8	0	10,710	42,457	353	119	472
Lebanon	—	390	—	1	—	1,373	1,373	—	15	15
Mexico	56	5,358	1,170	3,344	88	111,922	111,922	—	1,244	1,244
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	1,307	1	0	—	4,495	4,495	—	50	50
Mozambique	—	123	—	—	—	123	123	—	1	1
Netherlands	5	1,118	5	230	0	15,202	42,743	306	169	475
New Zealand	0	121	—	3	—	126	126	—	1	1
Nicaragua	—	—	—	14	—	1,047	1,846	9	12	21
Nigeria	—	—	33	310	—	427	427	—	5	5
Norway	—	343	—	1	—	3,625	6,862	36	40	76
Pakistan	0	0	—	0	0	1	1	—	0	0
Panama	0	271	71	59	0	10,522	13,056	28	117	145
Peru	0	368	0	190	0	9,880	10,673	9	110	119
Philippines	0	0	0	5	0	945	945	—	10	10
Portugal	0	212	—	0	—	487	487	—	5	5
Puerto Rico	0	0	23	39	—	116	116	—	1	1
Romania	0	654	—	0	—	654	654	—	7	7
Saudi Arabia	0	96	0	18	0	197	197	—	2	2
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	0	0	147	69	0	4,817	11,646	76	54	129
South Africa	0	151	0	183	—	336	661	4	4	7
Spain	1	941	0	6	0	6,065	7,933	21	67	88
Switzerland	0	—	—	0	—	521	521	—	6	6
Taiwan	0	0	1	17	0	3,426	19,242	176	38	214
Thailand	0	122	1	14	1	138	15,782	174	2	175
Trinidad and Tobago	0	0	0	27	0	2,363	2,363	—	26	26
Turkey	0	3,502	—	39	—	4,909	4,909	—	55	55
United Arab Emirates	0	662	0	260	0	1,001	3,462	27	11	38
United Kingdom	1	601	0	4	0	7,594	29,802	247	84	331
Venezuela	—	14	—	13	—	4,351	4,351	—	48	48
Other	9	2,455	85	199	5	15,870	20,675	55	179	233
Total	352	53,753	2,573	10,924	139	489,011	735,758	2,742	5,433	8,175

— = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

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

Sources: U.S. Census Bureau and EIA estimates.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, March 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	1,458	-35	-	120	-	-26	-26	0	-7	-7
Algeria	34	-	-	103	-	-	-	-	-	-
Angola	10	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	62	-	-	-	-	-	-	-	-	-
Ecuador	124	-35	-	0	-	-25	-25	-	-8	-8
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	275	-	-	-	-	-	-	-	-	-
Kuwait	129	-	-	-	-	0	0	-	-	-
Libya	25	-	-	-	-	-	-	-	-	-
Nigeria	135	-	-	6	-	-	-	-	-	-
Saudi Arabia	640	0	-	8	-	-	-	-	-	-
United Arab Emirates	-25	-	-	3	-	-	-	0	-	0
Venezuela	47	0	-	0	-	0	0	0	1	1
Non-OPEC	2,618	-1,358	18	161	-	-731	-731	159	329	488
Argentina	24	3	-	-6	-	-	-	-	2	2
Aruba	-	-	-	-	-	-3	-3	-	-	-
Australia	-	-18	-	7	-	0	0	0	-	0
Bahamas	-	-1	-	-	-	-1	-1	0	-	0
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-2	0	-	53	-	2	2	-	8	8
Brazil	44	-40	-	-16	-	-60	-60	-	51	51
Brunei	33	-	-	-5	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	3,278	-54	15	-34	-	4	4	74	52	126
Chad	-	-	-	-	-	-	-	-	-	-
China	-103	0	-	0	-	0	0	-	-	-
Colombia	375	0	-	-35	-	-42	-42	-	16	16
Denmark	13	-	-	-	-	-	-	0	-	0
Dominican Republic	-15	-44	-	-18	-	-6	-6	0	-	0
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	0	-	0	0	-	16	16
France	-39	-9	-	2	-	35	35	-	1	1
Germany	-	-	-	0	-	-	-	-	0	0
Guatemala	9	-1	-	0	-	-49	-49	-	-17	-17
Honduras	-	-21	-	0	-	-12	-12	-	-2	-2
India	-412	-130	-	0	-	0	0	0	61	61
Indonesia	-	-88	-	-1	-	-	-	-	-	-
Italy	-91	-	-	0	-	5	5	-	23	23
Japan	-84	-347	-	-25	-	0	0	0	18	18
Korea, South	-366	-129	-	-13	-	5	5	0	10	10
Latvia	-	-	-	-	-	0	0	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	0	-	-	-	-	-	-
Mexico	658	-160	1	-3	-	-511	-511	0	-67	-67
Netherlands	-176	-37	-	-25	-	-3	-3	46	8	53
Norway	35	-25	-	0	-	3	3	-	15	15
Oman	-	-	-	0	-	-	-	-	-	-
Panama	-63	0	-	0	-	-13	-13	-	-	-
Portugal	-	-9	-	-	-	-	-	-	25	25
Puerto Rico	-	-1	-	0	-	0	0	-	0	0
Qatar	-	-	-	0	-	-	-	-	-	-
Russia	94	-	-	199	-	8	8	-	50	50
Spain	-20	-33	-	39	-	-	-	-	22	22
Sweden	-	-11	-	1	-	5	5	-	-	-
Trinidad and Tobago	61	0	-	0	-	-	-	-	0	0
United Kingdom	-138	-37	-	0	-	4	4	40	21	61
Vietnam	-47	-	-	0	-	0	0	-	-	-
Virgin Islands, U.S.	-	-4	-	-	-	-10	-10	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	-450	-162	2	41	-	-92	-92	-1	16	16
Total	4,076	-1,393	18	281	-	-757	-757	159	322	481
Persian Gulf²	1,020	0	-	11	-	0	0	0	-	0

See footnotes at end of table.

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

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-	-	-4	-	-	-	-25	-	-	-	-25
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-25	-	-	-	-25
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-2	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-2	-	-	-	0	-	-	-	0
Venezuela	-	-	-	-	-	-	0	-	-	-	0
Non-OPEC	-46	-20	-95	9	15	-	-736	-130	-121	1	-986
Argentina	-	-	-	0	-	-	-25	-	-4	-	-29
Aruba	-	-	-	-	-	-	-1	-	-	-	-1
Australia	-	0	0	-	-	-	-	-	-	-	-
Bahamas	-	0	0	-	-	-	-13	-	-7	-	-20
Bahrain	-	-	0	-	-	-	-	-	-	-	-
Belgium	0	0	-	5	-	-	-	-	-	-	-
Brazil	-	1	-42	-	-	-	-215	-17	-16	-	-248
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	0	-	-	-	0
Canada	-	0	-17	-1	-	-	137	-4	7	1	140
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	0	0	-	-	-	0	-10	-	-	-10
Colombia	-	-	-3	-	-	-	-5	-	-	-	-5
Denmark	-	-	-	-	-	-	-	-	-	-	-
Dominican Republic	-	-	0	-	-	-	-6	-19	-18	-	-44
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	0	-	0	-	-	0	-	-	-	0
Germany	-	0	0	5	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-13	-29	-3	-	-44
Honduras	-	-	-	-	-	-	-15	-5	-5	-	-25
India	-	0	-8	0	-	-	18	-	-	-	18
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-1	-	-	-	-1
Japan	-	-21	0	-	-	-	0	-	-	-	0
Korea, South	-	0	-2	2	-	-	0	-	-	-	0
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	0	0	-	-	-	0	-	-	-	0
Mexico	-39	0	-2	0	-	-	-268	-6	0	-	-274
Netherlands	-	-	-2	-1	-	-	-38	-	-20	-	-58
Norway	0	-	-	-	-	-	-3	-	-	-	-3
Oman	-	-	-	-	-	-	-	-	-	-	-
Panama	-	-	-	-	-	-	-21	-5	-6	-	-32
Portugal	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	-	0	0	-	-	-	0	0	-	-	0
Qatar	-	-	-	-	-	-	9	-	-	-	9
Russia	-	-	0	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-11	-	-	-	-11
Sweden	-	-	-1	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	0	-	-	-	-1	-9	-8	-	-17
United Kingdom	-	-	0	-	-	-	-41	-	-	-	-41
Vietnam	-	0	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-2	-	-14	-	-16
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-7	0	-18	-1	15	-	-221	-26	-27	0	-274
Total	-46	-20	-99	9	15	-	-761	-130	-121	1	-1,012
Persian Gulf²	-	-	-4	-	-	-	9	-	-	-	9

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, March 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	-	-	18	-	14	-	-
Algeria	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-7	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	18	-	-	-	-
United Arab Emirates	0	-	-	-	-	0	-	-
Venezuela	-	-	-	0	-	21	-	-
Non-OPEC	-2	0	-	-52	13	-125	15	4
Argentina	-	-	-	-1	-	-	-	-
Aruba	0	-	-	-4	-	-	-4	-
Australia	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-2	-	-1	-	-
Bahrain	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Brazil	-	-	-	-2	3	-3	-	-
Brunei	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-
Canada	-2	0	-	-12	0	5	3	4
Chad	-	-	-	-	-	-	-	-
China	0	-	-	-	-	0	-	-
Colombia	0	-	-	-	-	0	-	-
Denmark	-	-	-	-	-	-	-	-
Dominican Republic	0	-	-	-7	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-6	-	-4	-	-
Honduras	0	-	-	-1	-	-12	-	-
India	-	-	-	-	3	-	-	-
Indonesia	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Japan	-	-	-	-	4	-	3	-
Korea, South	-	-	-	77	3	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	0	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-
Mexico	0	-	-	-62	-	-15	7	-
Netherlands	-	-	-	-	-	-24	-	-
Norway	-	-	-	-	-	8	-	-
Oman	-	-	-	-	-	-	-	-
Panama	0	-	-	-4	-	-22	-	-
Portugal	-	-	-	-	-	-	-	-
Puerto Rico	0	-	-	0	-	0	-	-
Qatar	0	-	-	-	-	-	-	-
Russia	-	-	-	-	-	10	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	9	-	-
Trinidad and Tobago	0	-	-	-2	-	-	-	-
United Kingdom	0	-	-	-	-	-12	2	-
Vietnam	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-10	-	-	-	-
Yemen	-	-	-	-	-	-	-	-
Other	0	0	-	-16	0	-64	0	0
Total	-2	0	-	-34	13	-111	15	4
Persian Gulf²	0	-	-	18	-	0	-	-

See footnotes at end of table.

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

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products
OPEC	0	-15	-1	-10	0	29	1,486
Algeria	-	-	-	0	-	103	136
Angola	-	-	-	-	-	-	10
Congo (Brazzaville)	-	-	-	-	-	-	62
Ecuador	0	-5	0	-7	0	-114	10
Equatorial Guinea	-	-	-	0	-	0	0
Gabon	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-
Iraq	-	-	0	0	-	0	275
Kuwait	-	0	0	0	-	0	129
Libya	-	-	-	0	-	0	25
Nigeria	-	-	-1	0	-	5	140
Saudi Arabia	-	0	-	0	0	24	664
United Arab Emirates	0	-9	-	-2	0	-11	-36
Venezuela	-	0	-	0	-	22	69
Non-OPEC	2	-492	11	-88	-2	-3,263	-645
Argentina	0	0	0	-2	-	-33	-9
Aruba	-	-	-	0	-	-8	-8
Australia	0	-6	-	0	0	-17	-17
Bahamas	0	-	0	0	-	-25	-25
Bahrain	-	-	-	0	-	0	0
Belgium	-	-4	0	-11	0	52	51
Brazil	0	-55	-	-37	0	-448	-404
Brunei	-	-	-	0	-	-5	28
Cameroon	-	-	-	-	-	0	0
Canada	-2	-2	29	-1	0	201	3,479
Chad	-	-	-	-	-	-	-
China	3	-37	0	-1	0	-45	-148
Colombia	0	-	0	-5	0	-74	301
Denmark	-	-	-	-	-	0	13
Dominican Republic	0	-	-6	-1	0	-126	-142
Estonia	-	-	-	-	-	-	-
Finland	-	-	0	0	-	16	16
France	0	-14	-	-1	-	15	-24
Germany	0	-	0	1	0	5	5
Guatemala	0	-	-	-1	-	-122	-113
Honduras	0	-	-1	0	-	-75	-75
India	0	-137	0	-7	0	-200	-612
Indonesia	0	0	0	3	0	-85	-85
Italy	0	-	0	-1	-	27	-65
Japan	0	-45	0	0	0	-414	-497
Korea, South	0	0	0	19	0	-29	-395
Latvia	-	-	-	0	-	0	0
Lithuania	-	-	-	0	-	0	0
Malaysia	0	-	2	0	-	2	2
Mexico	-1	-63	-12	-38	-1	-1,239	-582
Netherlands	0	-15	0	-2	0	-113	-288
Norway	-	-4	-	0	-	-6	29
Oman	-	-	0	-1	-	-1	-1
Panama	-	-9	-	-1	-	-80	-143
Portugal	0	-	-	0	-	16	16
Puerto Rico	0	-	-1	0	-	-2	-2
Qatar	0	0	-	12	-	22	22
Russia	-	-	-	0	-	267	361
Spain	0	-11	5	0	0	10	-10
Sweden	0	-1	-	0	-	2	2
Trinidad and Tobago	0	-	-	0	0	-19	42
United Kingdom	0	-6	0	0	0	-28	-167
Vietnam	0	-	-	0	-	0	-47
Virgin Islands, U.S.	-	-	0	0	-	-40	-40
Yemen	-	-	-	0	-	0	0
Other	2	-83	-5	-13	-1	-664	-1,113
Total	2	-507	10	-98	-2	-3,234	842
Persian Gulf²	0	-9	0	10	0	35	1,055

- = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

² Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

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

Sources: U.S. Census Bureau and EIA estimates.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-March 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	1,766	-38	-	77	-	-48	-48	0	34	34
Algeria	30	-	-	66	-	-	-	-	-	-
Angola	6	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	42	-	-	-	-	-	-	-	-	-
Ecuador	173	-35	-	0	-	-33	-33	-	-6	-6
Equatorial Guinea	11	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	374	-	-	0	-	-	-	-	-	-
Kuwait	84	-	-	-	-	0	0	-	-	-
Libya	38	-	-	2	-	-	-	-	-	-
Nigeria	107	-	-	4	-	-	-	-	7	7
Saudi Arabia	645	0	-	10	-	1	1	-	18	18
United Arab Emirates	-27	0	-	15	-	0	0	0	-	0
Venezuela	285	-3	-	-22	-	-16	-16	0	15	14
Non-OPEC	2,480	-1,306	18	136	-	-774	-774	176	220	396
Argentina	37	1	-	-9	-	-7	-7	-	4	4
Aruba	-	-1	-	0	-	-2	-2	-	-	-
Australia	-	-6	-	2	-	-5	-5	0	-	0
Bahamas	-	-2	-	0	-	-2	-2	0	0	0
Bahrain	-	-	-	0	-	-	-	-	-	-
Belgium	-1	-8	-	49	-	1	1	-	3	3
Brazil	41	-34	-	-19	-	-56	-56	-	37	37
Brunei	16	-	-	-2	-	-	-	-	-	-
Cameroon	-	-	-	2	-	-	-	-	-	-
Canada	3,313	-35	16	-35	-	-7	-7	91	27	118
Chad	11	-	-	-	-	-	-	-	-	-
China	-80	-15	-	-16	-	0	0	-	-	-
Colombia	347	-1	-	-33	-	-22	-22	-	8	8
Denmark	-2	0	-	-	-	-	-	0	1	1
Dominican Republic	-11	-56	-	-14	-	-14	-14	0	-1	-1
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	0	-	0	0	-	13	13
France	-55	-21	-	2	-	19	19	-	8	8
Germany	-33	0	-	6	-	-	-	-	1	1
Guatemala	6	-15	-	0	-	-36	-36	-	-6	-6
Honduras	-	-14	-	0	-	-26	-26	-	-6	-6
India	-267	-114	-	5	-	0	0	0	35	35
Indonesia	-	-54	-	0	-	-	-	-	6	6
Italy	-115	-3	-	8	-	2	2	-	12	12
Japan	-73	-336	-	-18	-	0	0	0	11	11
Korea, South	-353	-94	-	-10	-	9	9	0	5	5
Latvia	-	-	-	0	-	0	0	-	1	1
Lithuania	-7	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	3	-	-	-	-	-	-
Mexico	622	-152	1	-12	-	-506	-506	0	-49	-49
Netherlands	-306	-38	-	-7	-	-3	-3	47	10	57
Norway	8	-29	-	22	-	1	1	-	5	5
Oman	-	-	-	-3	-	-	-	-	-	-
Panama	-28	0	-	0	-	-24	-24	-	-1	-1
Portugal	-	-3	-	-	-	-	-	-	28	28
Puerto Rico	-	0	-	0	-	0	0	-	0	0
Qatar	-	-	-	0	-	0	0	-	-	-
Russia	96	-	-	160	-	3	3	-	25	25
Spain	-21	-43	-	16	-	-5	-5	-	15	15
Sweden	-	-5	-	4	-	2	2	-	-	-
Trinidad and Tobago	43	0	-	0	-	-3	-3	-	-3	-3
United Kingdom	-218	-39	-	7	-	7	7	38	13	51
Vietnam	-16	-	-	0	-	0	0	-	-	-
Virgin Islands, U.S.	-	-9	-	-	-	-3	-3	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	-474	-180	1	28	-	-97	-97	0	18	18
Total	4,246	-1,344	18	213	-	-822	-822	176	254	430
Persian Gulf²	1,075	0	-	25	-	1	1	0	18	18

See footnotes at end of table.

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

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-3	0	-3	-	-	-	7	-15	-	-	-7
Algeria	-	-	-	-	-	-	-	-2	-	-	-2
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	0	0	-	-	-	-12	-12	-	-	-24
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	0	-	-	-	0
Nigeria	-	-	-1	-	-	-	3	-	-	-	3
Saudi Arabia	-	0	-1	-	-	-	13	-	-	-	13
United Arab Emirates	-	-	-1	-	-	-	2	-	-	-	2
Venezuela	-3	-	-	-	-	-	0	-	-	-	0
Non-OPEC	-29	-25	-96	8	15	-	-661	-114	-133	0	-908
Argentina	1	-	0	0	-	-	-21	-	-2	-	-22
Aruba	-	-	-	-	-	-	-1	-	-	-	-1
Australia	-	0	0	-	-	-	0	-	-	-	0
Bahamas	-	0	0	-	-	-	-5	-	-8	-	-14
Bahrain	-	-	0	-	-	-	-	-	-	-	-
Belgium	0	0	0	2	-	-	-	-	-	-	-
Brazil	-	1	-34	0	-	-	-166	-9	-19	-	-194
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	0	-	-	-	0
Canada	-	0	-16	2	-	-	122	-10	3	0	115
Chad	-	-	-	-	-	-	-	-	-	-	-
China	0	0	0	-	-	-	3	-3	-	-	0
Colombia	-	-	-4	-	-	-	-23	-	-	-	-23
Denmark	-	-	-	-	-	-	-	-	-	-	-
Dominican Republic	-	-	0	-	-	-	-6	-13	-9	-	-28
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	0	-	-	-	-	-	-	-	-
France	-	0	0	1	-	-	-35	-3	-	-	-38
Germany	0	0	0	2	-	-	0	-	-	-	0
Guatemala	-	-	-	-	-	-	-9	-26	-3	-	-38
Honduras	-	0	-	-	-	-	-12	-8	-6	-	-26
India	0	0	-12	0	-	-	72	-	-	-	72
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	0	-	-	-	-1	-	-	-	-1
Japan	-	-26	-1	-	-	-	0	0	-	-	0
Korea, South	-	0	-7	1	-	-	1	-	-	-	1
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	0	0	-	-	-	0	-	0	-	0
Mexico	-23	0	-2	0	-	-	-271	-6	-3	-	-279
Netherlands	-	0	-1	-1	-	-	-38	-	-18	-	-56
Norway	0	-	-1	-	-	-	-3	-	-	-	-3
Oman	-	-	-2	-	-	-	0	-	-	-	0
Panama	-	-	0	-	-	-	-25	-6	-12	-	-43
Portugal	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	-	0	0	-	-	-	0	0	-	-	0
Qatar	-	-	-	-	-	-	23	-	-	-	23
Russia	-	0	0	-	-	-	4	3	-	-	7
Spain	-	-	-1	1	-	-	-7	-	-	-	-7
Sweden	-	-	0	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	0	-	-	-	-3	-6	-3	-	-12
United Kingdom	-	0	0	-	-	-	-28	-	-	-	-28
Vietnam	-	0	-	-	-	-	0	-	-	-	0
Virgin Islands, U.S.	-	-	-	-	-	-	-5	-	-5	-	-10
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-7	0	-15	0	15	-	-227	-27	-48	0	-303
Total	-32	-25	-98	8	15	-	-653	-129	-133	0	-915
Persian Gulf²	-	0	-2	-	-	-	38	-	-	-	38

See footnotes at end of table.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-March 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	-	-	9	-	22	-	-
Algeria	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-
Ecuador	0	-	-	0	-	-12	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-
Iraq	0	-	-	0	-	-	-	-
Kuwait	-	-	-	1	-	-	-	-
Libya	-	-	-	0	-	-	-	-
Nigeria	-	-	-	0	-	-	-	-
Saudi Arabia	-	-	-	7	-	8	-	-
United Arab Emirates	0	-	-	-	-	0	-	-
Venezuela	-	-	-	1	-	27	-	-
Non-OPEC	-4	1	-	-92	12	-100	14	4
Argentina	-	-	-	-2	-	8	-	-
Aruba	0	-	-	-2	-	-	-	-
Australia	-	-	-	-	-	0	-	-
Bahamas	-	-	-	-2	-	-17	-	-
Bahrain	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Brazil	0	-	-	-5	2	-2	-	0
Brunei	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-
Canada	-2	0	-	-21	2	2	3	3
Chad	-	-	-	-	-	-	-	-
China	0	-	-	3	-	0	-	-
Colombia	0	-	-	-2	-	9	-	-
Denmark	-	-	-	-	-	-	-	-
Dominican Republic	0	-	-	-11	-	-3	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	1
Germany	-	-	-	-	-	-	-	-
Guatemala	0	-	-	-6	-	-2	-	-
Honduras	0	-	-	-2	-	-7	-	-
India	-	-	-	2	2	-1	-	-
Indonesia	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Japan	0	-	-	4	2	-1	2	0
Korea, South	-	-	-	69	2	0	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	0	-	-	-	-	-	-	-
Malaysia	0	-	-	-	-	-	-	-
Mexico	-2	-	-	-54	0	-16	6	-
Netherlands	-	1	-	-	-	-20	-	-
Norway	-	-	-	-	-	3	-	-
Oman	-	-	-	-	-	-	-	-
Panama	0	-	-	-12	-	-26	-	-
Portugal	-	-	-	-	-	-	-	-
Puerto Rico	0	-	-	0	-	0	-	-
Qatar	0	-	-	5	-	-	-	-
Russia	-	-	-	-	-	14	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	3	-	-
Trinidad and Tobago	0	-	-	-8	-	-	-	-
United Kingdom	0	-	-	-4	-	-4	1	-
Vietnam	-	-	-	0	-	0	-	-
Virgin Islands, U.S.	-	-	-	-10	-	-1	-	-
Yemen	-	-	-	-	-	-	-	-
Other	0	0	-	-34	2	-39	2	0
Total	-4	1	-	-83	12	-78	14	4
Persian Gulf²	0	-	-	14	-	8	-	-

See footnotes at end of table.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-March 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	-17	0	-8	0	19	1,785
Algeria	-	-	0	0	-	64	94
Angola	-	-	0	0	-	0	6
Congo (Brazzaville)	-	-	-	-	-	-	43
Ecuador	0	-8	0	-3	0	-121	51
Equatorial Guinea	-	-	-	0	-	0	11
Gabon	-	-	0	0	-	0	0
Iran	-	-	-	-	-	-	-
Iraq	-	-	0	0	-	0	374
Kuwait	-	0	0	0	-	1	85
Libya	-	-	-	0	-	2	40
Nigeria	-	-	0	-3	-	10	117
Saudi Arabia	0	-1	0	0	0	54	699
United Arab Emirates	0	-7	0	0	0	9	-18
Venezuela	-	0	0	0	-	-2	283
Non-OPEC	1	-577	7	-72	-2	-3,374	-893
Argentina	0	1	0	-1	0	-26	11
Aruba	-	-	-	0	-	-5	-5
Australia	0	-5	0	-1	0	-15	-15
Bahamas	0	-	0	0	-	-37	-37
Bahrain	0	-	-	2	-	2	2
Belgium	0	-10	0	-14	0	23	21
Brazil	0	-46	-	-18	0	-368	-327
Brunei	-	-	-	0	-	-2	14
Cameroon	-	-	-	0	-	2	2
Canada	-1	-8	26	0	0	161	3,474
Chad	-	-	-	-	-	-	11
China	2	-40	0	-1	0	-67	-147
Colombia	0	-3	0	-4	0	-75	272
Denmark	-	-4	-	0	-	-3	-5
Dominican Republic	0	-4	-4	-1	0	-134	-145
Estonia	-	-	-	0	-	0	0
Finland	-	-3	0	0	-	10	10
France	0	-5	-	0	-	-35	-90
Germany	0	-3	0	0	0	7	-26
Guatemala	0	-14	-	-1	-	-117	-111
Honduras	0	-3	-1	-1	-	-86	-86
India	0	-136	0	-4	0	-153	-419
Indonesia	0	0	0	1	0	-47	-47
Italy	0	-13	0	1	-	5	-110
Japan	0	-49	0	0	0	-410	-483
Korea, South	0	-7	1	14	0	-15	-368
Latvia	-	-	-	0	-	1	1
Lithuania	-	-	-	0	-	0	-7
Malaysia	0	-6	1	0	0	-2	-2
Mexico	-1	-60	-13	-37	-1	-1,200	-578
Netherlands	0	-12	0	-2	0	-83	-389
Norway	-	-4	-	0	-	-5	3
Oman	-	-1	0	0	-	-7	-7
Panama	0	-3	-1	-1	0	-111	-139
Portugal	0	-2	-	0	-	22	22
Puerto Rico	0	0	0	0	-	-1	-1
Qatar	0	-1	0	10	-	38	38
Russia	0	-	0	0	-	208	304
Spain	0	-10	3	0	0	-32	-53
Sweden	0	-1	-	0	-	2	2
Trinidad and Tobago	0	0	0	0	0	-26	17
United Kingdom	0	-6	0	1	0	-16	-234
Vietnam	0	0	0	0	-	0	-16
Virgin Islands, U.S.	-	-	0	0	-	-34	-34
Yemen	-	-	-	0	-	0	0
Other	1	-119	-5	-15	-1	-743	-1,216
Total	1	-594	6	-80	-2	-3,354	892
Persian Gulf²	0	-9	0	11	0	104	1,179

- = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

² Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

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

Sources: U.S. Census Bureau and EIA estimates.

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

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Crude Oil	14,155	137,869	883,940	22,717	49,767	1,108,448
Refinery	10,843	13,488	46,218	2,261	21,971	94,781
Tank Farms and Pipelines (Includes Cushing, OK)	3,312	124,381	188,596	20,456	22,959	359,704
Cushing, Oklahoma	-	47,258	-	-	-	47,258
Leases	-	-	-	-	-	-
Strategic Petroleum Reserve ¹	-	-	649,126	-	-	649,126
Alaskan In Transit	-	-	-	-	4,837	4,837
Total Stocks, All Oils (excluding Crude Oil)²	153,594	173,424	350,327	21,350	91,009	789,703
Refinery	16,923	50,549	123,134	11,237	49,792	251,635
Bulk Terminal	109,556	85,798	176,195	5,570	35,938	413,056
Pipeline	26,803	35,837	49,308	4,089	5,042	121,079
Natural Gas Processing Plant	312	1,240	1,690	454	237	3,933
Natural Gas Liquids	6,178	33,283	108,668	3,104	2,367	153,600
Refinery	544	2,263	5,495	450	1,183	9,935
Bulk Terminal	3,717	15,352	85,945	104	947	106,065
Pipeline	1,605	14,428	15,538	2,096	-	33,667
Natural Gas Processing Plant	312	1,240	1,690	454	237	3,933
Ethane	299	5,539	43,599	543	-	49,980
Refinery	-	-	228	-	-	228
Bulk Terminal	81	2,194	37,680	-	-	39,955
Pipeline	218	3,199	5,584	516	-	9,517
Natural Gas Processing Plant	-	146	107	27	-	280
Propane	3,570	9,590	32,983	1,089	526	47,758
Refinery	70	461	871	51	139	1,592
Bulk Terminal	2,318	5,309	26,613	13	333	34,586
Pipeline	1,035	3,229	5,276	816	-	10,356
Natural Gas Processing Plant	147	591	223	209	54	1,224
Normal Butane	1,737	6,398	17,532	675	1,385	27,727
Refinery	284	977	2,273	208	639	4,381
Bulk Terminal	1,106	4,564	13,112	88	609	19,479
Pipeline	289	711	1,551	311	-	2,862
Natural Gas Processing Plant	58	146	596	68	137	1,005
Isobutane	242	2,082	6,848	426	416	10,014
Refinery	190	306	1,720	171	403	2,790
Bulk Terminal	-	1,073	4,293	-	-	5,366
Pipeline	32	535	734	170	-	1,471
Natural Gas Processing Plant	20	168	101	85	13	387
Natural Gasoline	330	9,674	7,706	371	40	18,121
Refinery	-	519	403	20	2	944
Bulk Terminal	212	2,212	4,247	3	5	6,679
Pipeline	31	6,754	2,393	283	-	9,461
Natural Gas Processing Plant	87	189	663	65	33	1,037
Refinery Olefins	146	436	8,766	6	39	9,393
Refinery	146	428	2,634	6	39	3,253
Bulk Terminal	-	8	6,132	-	-	6,140
Pipeline	-	-	-	-	-	-
Natural Gas Processing Plant	-	-	-	-	-	-
Ethylene	-	-	0	-	-	0
Refinery	-	-	0	-	-	0
Bulk Terminal	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-
Natural Gas Processing Plant	-	-	-	-	-	-
Propylene	55	298	7,470	1	13	7,837
Refinery	55	290	1,338	1	13	1,697
Bulk Terminal	-	8	6,132	-	-	6,140
Pipeline	-	-	-	-	-	-
Natural Gas Processing Plant	-	-	-	-	-	-
Normal Butylene	48	23	1,296	5	26	1,398
Refinery	48	23	1,296	5	26	1,398
Bulk Terminal	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-
Natural Gas Processing Plant	-	-	-	-	-	-
Isobutylene	43	115	0	0	0	158
Refinery	43	115	0	0	0	158
Bulk Terminal	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-
Natural Gas Processing Plant	-	-	-	-	-	-
Other Hydrocarbons	-	33	-	-	-	33
Refinery	-	33	-	-	-	33
Oxygenates (excluding Fuel Ethanol)	-	3	1,986	-	-	1,989
Refinery	-	-	-	-	-	-
Bulk Terminal	-	3	1,986	-	-	1,989
Pipeline	-	-	-	-	-	-

See footnotes at end of table.

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

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
MTBE	—	—	1,671	—	—	1,671
Refinery	—	—	—	—	—	—
Bulk Terminal ³	—	—	1,671	—	—	1,671
Pipeline	—	—	—	—	—	—
Other Oxygenates⁴	—	3	315	—	—	318
Refinery	—	—	—	—	—	—
Bulk Terminal	—	3	315	—	—	318
Pipeline	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	9,534	10,319	6,337	405	4,198	30,792
Refinery	255	125	314	174	434	1,302
Bulk Terminal	9,279	10,194	6,023	228	3,764	29,487
Pipeline	—	—	—	3	—	3
Fuel Ethanol²	7,637	9,178	4,123	326	2,047	23,311
Refinery	250	108	138	98	29	623
Bulk Terminal	7,387	9,070	3,985	225	2,018	22,685
Pipeline	—	—	—	3	—	3
Renewable Diesel Fuel⁵	1,897	1,141	2,206	79	2,098	7,420
Refinery	5	17	176	76	405	679
Bulk Terminal	1,892	1,124	2,030	3	1,693	6,741
Pipeline	—	—	—	—	—	—
Other Renewable Fuels	—	—	8	—	53	61
Refinery	—	—	—	—	—	—
Bulk Terminal	—	—	8	—	53	61
Pipeline	—	—	—	—	—	—
Unfinished Oils	6,527	13,944	48,852	3,744	18,894	91,961
Naphthas and Lighter	1,268	3,947	11,550	983	3,969	21,717
Refinery	1,268	3,936	9,756	983	3,654	19,597
Bulk Terminal	—	11	1,794	—	315	2,120
Kerosene and Light Gas Oils	1,145	2,762	8,830	496	3,346	16,579
Refinery	1,145	2,762	6,769	496	3,151	14,323
Bulk Terminal	—	—	2,061	—	195	2,256
Heavy Gas Oils	3,238	4,698	23,589	1,781	8,776	42,082
Refinery	1,946	4,671	19,801	1,781	8,644	36,843
Bulk Terminal	1,292	27	3,788	—	132	5,239
Residuum	876	2,537	4,883	484	2,803	11,583
Refinery	876	2,290	4,746	484	2,774	11,170
Bulk Terminal	—	247	137	—	29	413
Motor Gasoline Blending Components²	59,231	47,747	73,516	5,397	28,509	214,400
Refinery	5,380	15,296	27,940	2,954	13,528	65,098
Bulk Terminal	43,717	23,525	29,023	1,630	12,366	110,261
Pipeline	10,134	8,926	16,553	813	2,615	39,041
Reformulated - RBOB	20,867	5,769	10,898	—	13,593	51,127
Refinery	1,346	1,058	1,875	—	5,399	9,678
Bulk Terminal	16,002	3,487	4,830	—	6,699	31,018
Pipeline	3,519	1,224	4,193	—	1,495	10,431
Conventional	38,364	41,978	62,618	5,397	14,916	163,273
Refinery	4,034	14,238	26,065	2,954	8,129	55,420
Bulk Terminal	27,715	20,038	24,193	1,630	5,667	79,243
Pipeline	6,615	7,702	12,360	813	1,120	28,610
CBOB	24,053	32,565	30,944	4,052	7,187	98,801
Refinery	957	6,627	10,319	1,612	1,887	21,402
Bulk Terminal	16,481	18,463	8,666	1,627	4,183	49,420
Pipeline	6,615	7,475	11,959	813	1,117	27,979
GTAB	2,177	—	1	—	—	2,178
Refinery	—	—	1	—	—	1
Bulk Terminal	2,177	—	—	—	—	2,177
Pipeline	—	—	—	—	—	—
Other	12,134	9,413	31,673	1,345	7,729	62,294
Refinery	3,077	7,611	15,745	1,342	6,242	34,017
Bulk Terminal	9,057	1,575	15,527	3	1,484	27,646
Pipeline	—	227	401	—	3	631
Aviation Gasoline Blending Components	—	—	35	—	—	35
Refinery	—	—	35	—	—	35
Bulk Terminal	—	—	—	—	—	—
Finished Motor Gasoline	3,188	6,110	9,015	1,463	1,876	21,652
Refinery	44	1,441	3,433	645	582	6,145
Bulk Terminal	1,460	2,399	3,812	589	1,120	9,380
Pipeline	1,684	2,270	1,770	229	174	6,127
Reformulated	26	—	238	—	18	282
Refinery	—	—	—	—	18	18
Bulk Terminal	26	—	238	—	—	264
Pipeline	—	—	—	—	—	—
Reformulated (Blended with Fuel Ethanol)	26	—	238	—	18	282
Refinery	—	—	—	—	18	18
Bulk Terminal	26	—	238	—	—	264
Pipeline	—	—	—	—	—	—

See footnotes at end of table.

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

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Reformulated (Other)	—	—	—	—	—	—
Refinery	—	—	—	—	—	—
Bulk Terminal	—	—	—	—	—	—
Pipeline	—	—	—	—	—	—
Conventional	3,162	6,110	8,777	1,463	1,858	21,370
Refinery	44	1,441	3,433	645	564	6,127
Bulk Terminal	1,434	2,399	3,574	589	1,120	9,116
Pipeline	1,684	2,270	1,770	229	174	6,127
Conventional (Blended with Fuel Ethanol)	15	116	—	49	—	180
Refinery	—	—	—	48	—	48
Bulk Terminal	15	116	—	1	—	132
Pipeline	—	—	—	—	—	—
Ed55 and Lower	15	116	—	49	—	180
Refinery	—	—	—	48	—	48
Bulk Terminal	15	116	—	1	—	132
Pipeline	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—
Refinery	—	—	—	—	—	—
Bulk Terminal	—	—	—	—	—	—
Pipeline	—	—	—	—	—	—
Conventional (Other)	3,147	5,994	8,777	1,414	1,858	21,190
Refinery	44	1,441	3,433	597	564	6,079
Bulk Terminal	1,419	2,283	3,574	588	1,120	8,984
Pipeline	1,684	2,270	1,770	229	174	6,127
Finished Aviation Gasoline	137	199	575	10	148	1,069
Refinery	—	91	402	10	76	579
Bulk Terminal	137	108	173	—	72	490
Pipeline	—	—	—	—	—	—
Kerosene-Type Jet Fuel	8,424	7,529	14,873	809	9,917	41,552
Refinery	522	1,788	6,092	352	3,744	12,498
Bulk Terminal	4,386	3,515	3,042	321	5,278	16,542
Pipeline	3,516	2,226	5,739	136	895	12,512
Kerosene	1,346	126	227	1	25	1,725
Refinery	85	92	96	1	1	275
Bulk Terminal	1,154	34	131	—	24	1,343
Pipeline	107	—	—	—	—	107
Distillate Fuel Oil²	41,188	34,914	38,633	3,884	13,816	132,435
Refinery	2,199	6,822	15,398	1,785	5,732	31,936
Bulk Terminal	29,232	20,105	13,527	1,287	6,732	70,883
Pipeline	9,757	7,987	9,708	812	1,352	29,616
15 ppm sulfur and Under	35,275	33,882	31,917	3,631	12,959	117,664
Refinery	1,569	6,249	12,328	1,582	5,164	26,892
Bulk Terminal	24,833	19,892	10,769	1,239	6,530	63,263
Pipeline	8,873	7,741	8,820	810	1,265	27,509
Greater than 15 ppm to 500 ppm sulfur	1,773	554	1,458	172	177	4,134
Refinery	232	165	777	122	177	1,473
Bulk Terminal	1,536	156	541	48	—	2,281
Pipeline	5	233	140	2	—	380
Greater than 500 ppm sulfur	4,140	478	5,258	81	680	10,637
Refinery	398	408	2,293	81	391	3,571
Bulk Terminal	2,863	57	2,217	—	202	5,339
Pipeline	879	13	748	—	87	1,727
Residual Fuel Oil⁶	6,412	1,347	15,499	233	5,220	28,711
Refinery	465	1,053	3,539	233	2,847	8,137
Bulk Terminal	5,947	294	11,960	—	2,367	20,568
Pipeline	—	—	—	—	6	6
Less than 0.31% Sulfur	845	82	1,089	34	114	2,164
Refinery	72	75	200	34	—	381
Bulk Terminal	773	7	889	—	114	1,783
0.31% to 1.00% Sulfur	983	269	2,760	3	518	4,533
Refinery	85	140	228	3	211	667
Bulk Terminal	898	129	2,532	—	307	3,866
Greater than 1.00% Percent Sulfur	4,584	996	11,650	196	4,582	22,008
Refinery	308	838	3,111	196	2,636	7,089
Bulk Terminal	4,276	158	8,539	—	1,946	14,919
Petrochemical Feedstocks	145	482	2,755	—	4	3,386
Refinery	145	482	2,755	—	4	3,386
Naphtha for Petrochemical Feedstock Use	—	389	1,886	—	4	2,424
Other Oils for Petrochemical Feedstock Use	—	93	869	—	—	962
Special Naphthas	40	118	1,079	—	26	1,263
Refinery	21	59	1,070	—	26	1,176
Bulk Terminal	19	59	9	—	—	87
Lubricants	1,141	651	9,435	—	1,004	12,231
Refinery	714	247	5,887	—	740	7,588
Bulk Terminal	427	404	3,548	—	264	4,643
Waxes	376	43	271	—	—	690
Refinery	376	43	271	—	—	690
Petroleum Coke	—	1,957	3,821	113	1,562	7,453
Refinery	—	1,957	3,821	113	1,562	7,453
Asphalt and Road Oil	9,552	14,063	5,578	2,166	3,308	34,667
Refinery	763	4,550	2,474	755	975	9,517
Bulk Terminal	8,789	9,513	3,104	1,411	2,333	25,150

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

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Miscellaneous Products	29	120	406	15	96	666
Refinery	29	120	406	15	96	666
Bulk Terminal	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-
Total Stocks, All Oils	167,749	311,293	1,234,267	44,067	140,776	1,898,151

- = No Data Reported.

Lease stocks were excluded from crude oil stocks beginning with data for July 2016 (see explanatory notes).

¹ Crude oil stocks in the Strategic Petroleum Reserve include non-U.S. stocks held under foreign or commercial storage agreements.

² Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

Includes stocks held at fuel ethanol production facilities.

³ Includes stocks held by merchant producers.

⁴ Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

⁵ Renewable diesel fuel includes biodiesel and other renewable diesel.

⁶ Sulfur content not available for stocks held by pipelines.

Note: Stocks are reported as of the last day of the month.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report."

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

Commodity	Motor Gasoline			Motor Gasoline Blending Components ¹			Kerosene
	Reformulated	Conventional	Total	Reformulated	Conventional	Total	
PAD District 1	26	1,478	1,504	17,348	31,749	49,097	1,239
Connecticut	—	—	—	963	44	1,007	16
Delaware	—	—	—	1,041	776	1,817	74
District of Columbia	—	—	—	—	—	—	—
Florida	—	530	530	—	5,022	5,022	—
Georgia	—	227	227	—	2,349	2,349	—
Maine	—	—	—	367	257	624	58
Maryland	—	—	—	2,154	62	2,216	64
Massachusetts	4	—	4	1,864	—	1,864	22
New Hampshire	—	—	—	—	—	—	—
New Jersey	—	304	304	6,570	12,438	19,008	328
New York	22	—	22	1,315	2,152	3,467	376
North Carolina	—	181	181	—	1,968	1,968	138
Pennsylvania	—	17	17	931	4,650	5,581	91
Rhode Island	—	—	—	498	—	498	—
South Carolina	—	114	114	—	1,089	1,089	23
Vermont	—	15	15	—	—	—	4
Virginia	—	55	55	1,645	902	2,547	45
West Virginia	—	35	35	—	40	40	—
PAD District 2	—	3,840	3,840	4,545	34,276	38,821	126
Illinois	—	366	366	2,293	4,932	7,225	106
Indiana	—	258	258	907	4,181	5,088	—
Iowa	—	255	255	—	1,712	1,712	—
Kansas	—	352	352	—	3,549	3,549	8
Kentucky	—	172	172	319	1,296	1,615	4
Michigan	—	175	175	36	3,138	3,174	—
Minnesota	—	421	421	113	3,248	3,361	—
Missouri	—	155	155	102	610	712	—
Nebraska	—	59	59	—	742	742	—
North Dakota	—	83	83	—	888	888	—
Ohio	—	868	868	3	3,808	3,811	8
Oklahoma	—	409	409	—	2,660	2,660	—
South Dakota	—	54	54	—	464	464	—
Tennessee	—	102	102	—	1,660	1,660	—
Wisconsin	—	111	111	772	1,388	2,160	—
PAD District 3	238	7,007	7,245	6,705	50,258	56,963	227
Alabama	—	94	94	—	1,105	1,105	8
Arkansas	—	115	115	38	822	860	—
Louisiana	—	1,239	1,239	698	11,318	12,016	51
Mississippi	—	1,342	1,342	—	2,101	2,101	—
New Mexico	—	17	17	—	534	534	—
Texas	238	4,200	4,438	5,969	34,378	40,347	168
PAD District 4	—	1,234	1,234	—	4,584	4,584	1
Colorado	—	194	194	—	1,272	1,272	—
Idaho	—	242	242	—	176	176	—
Montana	—	281	281	—	1,077	1,077	—
Utah	—	84	84	—	1,120	1,120	1
Wyoming	—	433	433	—	939	939	—
PAD District 5	18	1,684	1,702	12,098	13,796	25,894	25
Alaska	—	946	946	—	—	—	24
Arizona	—	49	49	518	233	751	—
California	18	123	141	11,304	7,440	18,744	1
Hawaii	—	1	1	—	890	890	—
Nevada	—	133	133	5	285	290	—
Oregon	—	34	34	—	1,631	1,631	—
Washington	—	398	398	271	3,317	3,588	—
U.S. Total	282	15,243	15,525	40,696	134,663	175,359	1,618

See footnotes at end of table.

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

Commodity	Distillate Fuel Oil ¹				Residual Fuel Oil	Propane
	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	Greater than 500 ppm	Total		
PAD District 1	26,402	1,768	3,261	31,431	6,412	2,535
Connecticut	2,010	72	104	2,186	15	—
Delaware	348	58	49	455	684	14
District of Columbia	—	—	—	—	—	—
Florida	2,309	88	—	2,397	743	52
Georgia	1,030	—	—	1,030	204	15
Maine	1,260	3	229	1,492	69	—
Maryland	747	93	—	840	153	—
Massachusetts	1,049	351	173	1,573	46	—
New Hampshire	230	—	150	380	1	148
New Jersey	6,212	361	1,385	7,958	3,650	30
New York	3,787	90	333	4,210	276	116
North Carolina	1,243	—	4	1,247	—	17
Pennsylvania	3,227	204	523	3,954	410	2,024
Rhode Island	846	87	—	933	—	—
South Carolina	696	—	—	696	74	11
Vermont	26	—	10	36	—	—
Virginia	1,198	345	301	1,844	87	6
West Virginia	184	16	—	200	—	102
PAD District 2	26,141	321	465	26,927	1,347	6,361
Illinois	3,568	—	—	3,568	317	484
Indiana	4,131	—	166	4,297	83	206
Iowa	2,501	1	—	2,502	3	351
Kansas	2,526	—	—	2,526	28	3,556
Kentucky	799	14	—	813	163	44
Michigan	1,673	76	—	1,749	308	764
Minnesota	1,875	—	54	1,929	214	87
Missouri	630	65	4	699	—	102
Nebraska	1,025	—	—	1,025	—	170
North Dakota	1,004	1	—	1,005	26	58
Ohio	1,845	—	36	1,881	103	398
Oklahoma	1,689	156	88	1,933	19	72
South Dakota	685	—	—	685	—	28
Tennessee	996	—	—	996	60	4
Wisconsin	1,194	8	117	1,319	23	37
PAD District 3	23,097	1,318	4,510	28,925	15,499	27,707
Alabama	924	7	23	954	382	37
Arkansas	959	—	34	993	—	17
Louisiana	5,257	553	1,594	7,404	7,097	1,770
Mississippi	977	379	130	1,486	86	437
New Mexico	325	—	—	325	55	6
Texas	14,655	379	2,729	17,763	7,879	25,440
PAD District 4	2,821	170	81	3,072	233	273
Colorado	552	—	—	552	3	27
Idaho	226	—	—	226	—	—
Montana	837	75	—	912	71	19
Utah	602	27	81	710	60	23
Wyoming	604	68	—	672	99	204
PAD District 5	11,694	177	593	12,464	5,214	526
Alaska	1,048	—	58	1,106	352	5
Arizona	461	—	—	461	—	27
California	5,882	177	239	6,298	2,901	193
Hawaii	192	—	290	482	877	79
Nevada	324	—	6	330	—	—
Oregon	1,039	—	—	1,039	48	—
Washington	2,748	—	—	2,748	1,036	222
U.S. Total	90,155	3,754	8,910	102,819	28,705	37,402

— = No Data Reported.

¹ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

Note: Stocks are reported as of the last day of the month.

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

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report."

Table 57. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, March 2019
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	333	64	0	3,414	70,290	6,495	5,049	2,246	27,650
Petroleum Products	18,370	231	0	17,265	39,809	7,573	4,723	112,132	17,821
Natural Gas Liquids	7,923	0	0	3,452	28,633	4,543	602	1,410	6,440
Ethane	6,338	0	-	0	14,038	855	-	0	928
Propane	872	0	0	2,760	8,208	2,084	423	1,410	926
Normal Butane	219	0	0	539	3,435	873	108	0	285
Isobutane	287	0	0	153	1,163	319	71	0	598
Natural Gasoline	207	0	-	0	1,789	412	-	0	3,703
Refinery Olefins	0	0	-	381	447	-	-	0	0
Ethylene	-	-	-	-	-	-	-	-	-
Propylene	0	0	-	381	447	-	-	0	0
Normal Butylene	-	-	-	-	-	-	-	-	-
Isobutylene	-	-	-	-	-	-	-	-	-
Unfinished Oils	17	0	-	0	746	-	-	0	372
Motor Gasoline Blending Components	7,143	0	0	1,162	1,278	1,195	0	57,806	4,243
Reformulated - RBOB	0	0	0	0	0	-	0	7,591	1,164
Conventional	7,143	0	0	1,162	1,278	1,195	0	50,215	3,079
CBOB	7,143	0	0	1,162	1,143	1,195	0	49,983	2,286
GTAB	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	135	-	-	232	793
Renewable Fuels	0	0	0	9,706	5,896	293	3,969	386	0
Fuel Ethanol	0	0	0	9,313	5,456	220	3,898	317	0
Renewable Diesel Fuel ²	0	0	0	393	439	72	71	69	0
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	81	0	0	340	264	140	0	6,750	441
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	81	0	0	340	264	140	0	6,750	441
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	81	0	0	340	264	140	0	6,750	441
Finished Aviation Gasoline	0	0	-	0	0	-	-	86	9
Kerosene-Type Jet Fuel	262	0	0	93	92	755	0	16,132	1,954
Kerosene	-	-	-	-	-	-	-	-	-
Distillate Fuel Oil	2,944	0	0	1,101	859	629	0	28,761	4,055
15 ppm sulfur and under	2,944	0	0	1,101	859	629	0	27,044	3,918
Greater than 15 ppm to 500 ppm sulfur	0	0	-	-	0	-	-	-	137
Greater than 500 ppm sulfur	-	0	-	0	0	-	-	1,717	-
Residual Fuel Oil	0	0	-	-	679	-	-	-	0
Petrochemical Feedstocks	0	0	-	-	46	-	-	-	0
Naphtha for Petrochemical Feedstock Use	0	0	-	-	46	-	-	-	0
Other Oils for Petrochemical Feedstock Use	-	-	-	-	-	-	-	-	-
Special Naphthas	-	-	-	-	-	-	-	-	-
Lubricants	0	0	0	0	0	-	0	351	128
Waxes	-	-	-	-	-	-	-	-	-
Marketable Petroleum Coke	0	0	0	552	523	0	0	83	26
Asphalt and Road Oil	0	0	0	478	346	18	152	367	153
Miscellaneous Products	-	231	-	0	0	-	-	0	-
Total	18,703	295	0	20,679	110,099	14,068	9,772	114,378	45,471

See footnotes at end of table.

Table 57. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, March 2019
(Thousand Barrels) — Continued

Commodity	From 3 to		From 4 to				From 5 to		
	4	5	1	2	3	5	1	3	4
Crude Oil	0	179	0	22,798	656	0	0	0	0
Petroleum Products	0	5,215	0	13,001	3,761	2,050	0	42	25
Natural Gas Liquids	0	42	0	12,041	3,506	0	0	0	0
Ethane	0	—	0	3,280	1,339	—	—	0	0
Propane	0	0	0	4,696	999	0	0	0	0
Normal Butane	0	22	0	1,953	347	0	0	0	0
Isobutane	0	20	0	817	291	0	0	0	0
Natural Gasoline	0	—	0	1,295	530	—	0	0	0
Refinery Olefins	—	—	0	0	0	—	0	0	—
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	—	—	0	0	0	—	0	0	—
Normal Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	—	—	0	0	0	—	0	0	—
Motor Gasoline Blending Components	0	3,771	0	152	0	1,095	0	0	0
Reformulated - RBOB	—	2,351	0	0	0	0	0	0	—
Conventional	0	1,420	0	152	0	1,095	0	0	0
CBOB	0	1,420	0	152	0	1,095	0	0	0
GTAB	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	0	—	0	0	—
Renewable Fuels	0	529	0	0	0	0	0	0	0
Fuel Ethanol	0	351	0	0	0	0	0	0	0
Renewable Diesel Fuel ²	0	178	0	0	0	0	0	0	0
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	342	0	359	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	342	0	359	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	342	0	359	0	0	0
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	—
Kerosene-Type Jet Fuel	0	305	0	24	0	45	0	0	0
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	0	427	0	332	0	332	0	0	0
15 ppm sulfur and under	0	427	0	332	0	332	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	—	0	0	—	—	0	—
Greater than 500 ppm sulfur	—	—	0	—	0	—	0	—	—
Residual Fuel Oil	—	—	—	0	0	—	—	0	—
Petrochemical Feedstocks	—	—	—	0	0	—	—	0	—
Naphtha for Petrochemical Feedstock Use	—	—	—	0	0	—	—	0	—
Other Oils for Petrochemical Feedstock Use	—	—	—	—	—	—	—	—	—
Special Naphthas	—	—	—	—	—	—	—	—	—
Lubricants	—	0	0	0	0	0	0	42	—
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	0	0	0	105	46	0	0	25
Asphalt and Road Oil	0	141	0	110	150	174	0	0	0
Miscellaneous Products	—	—	0	—	0	—	0	0	—
Total	0	5,394	0	35,799	4,417	2,050	0	42	25

— = No Data Reported.

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

² Renewable diesel fuel includes biodiesel and other renewable diesel.

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

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

Commodity	From 1 to		From 2 to			From 3 to			
	2	3	1	3	4	1	2	4	5
Crude Oil	122	64	251	66,993	6,495	150	27,650	0	-
Petroleum Products	18,022	0	2,981	29,933	7,262	87,442	15,584	0	4,503
Natural Gas Liquids	7,632	0	941	27,739	4,543	1,380	6,253	0	-
Ethane	6,338	0	0	14,038	855	0	928	0	-
Propane	752	0	941	7,606	2,084	1,380	865	0	-
Normal Butane	102	0	0	3,299	873	0	262	0	-
Isobutane	233	0	0	1,007	319	0	495	0	-
Natural Gasoline	207	0	0	1,789	412	0	3,703	0	-
Motor Gasoline Blending Components	7,122	0	853	1,143	1,195	45,179	3,723	0	3,771
Reformulated - RBOB	0	0	0	0	-	7,591	1,164	-	2,351
Conventional	7,122	0	853	1,143	1,195	37,588	2,559	0	1,420
CBOB	7,122	0	853	1,143	1,195	37,588	2,286	0	1,420
GTAB	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	-	-	273	-	-
Renewable Fuels	-	-	-	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-	-	-	-
Renewable Diesel Fuel ¹	-	-	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	81	0	331	100	140	2,255	210	0	0
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	81	0	331	100	140	2,255	210	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	81	0	331	100	140	2,255	210	0	0
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	243	0	93	92	755	13,742	1,787	0	305
Kerosene	-	-	-	-	-	-	-	-	-
Distillate Fuel Oil	2,944	0	763	859	629	24,886	3,611	0	427
15 ppm sulfur and under	2,944	0	763	859	629	23,169	3,474	0	427
Greater than 15 ppm to 500 ppm sulfur	0	0	-	0	-	-	137	-	-
Greater than 500 ppm sulfur	-	0	0	0	-	1,717	-	-	-
Residual Fuel Oil	-	-	-	-	-	-	-	-	-
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total	18,144	64	3,232	96,926	13,757	87,592	43,234	0	4,503

See footnotes at end of table.

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

Commodity	From 4 to				From 5 to	
	1	2	3	5	3	4
Crude Oil	0	22,798	325	-	0	0
Petroleum Products	0	12,891	3,506	1,831	0	0
Natural Gas Liquids	0	12,041	3,506	-	0	0
Ethane	0	3,280	1,339	-	0	0
Propane	0	4,696	999	-	0	0
Normal Butane	0	1,953	347	-	0	0
Isobutane	0	817	291	-	0	0
Natural Gasoline	0	1,295	530	-	0	0
Motor Gasoline Blending Components	0	152	0	1,095	0	0
Reformulated - RBOB	0	0	0	0	0	-
Conventional	0	152	0	1,095	0	0
CBOB	0	152	0	1,095	0	0
GTAB	-	-	-	-	-	-
Other	-	0	0	-	0	-
Renewable Fuels	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-
Renewable Diesel Fuel ¹	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-
Finished Motor Gasoline	0	342	0	359	0	0
Reformulated	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-
Conventional	0	342	0	359	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-
Conventional Other	0	342	0	359	0	0
Finished Aviation Gasoline	-	-	-	-	-	-
Kerosene-Type Jet Fuel	0	24	0	45	0	0
Kerosene	-	-	-	-	-	-
Distillate Fuel Oil	0	332	0	332	0	0
15 ppm sulfur and under	0	332	0	332	0	0
Greater than 15 ppm to 500 ppm sulfur	-	0	0	-	0	-
Greater than 500 ppm sulfur	0	-	0	-	0	-
Residual Fuel Oil	-	-	-	-	-	-
Miscellaneous Products	-	-	-	-	-	-
Total	0	35,689	3,831	1,831	0	0

- = No Data Reported.

¹ Renewable diesel fuel includes biodiesel and other renewable diesel.

Sources: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report."

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

Commodity	From 1 to			From 2 to		
	2	3	5	1	3	5
Crude Oil	211	0	-	366	2,654	-
Petroleum Products	57	231	0	877	2,359	0
Natural Gas Liquids	-	0	-	0	0	-
Ethane	-	-	-	-	-	-
Propane	-	0	-	0	0	-
Normal Butane	-	-	-	-	-	-
Isobutane	-	-	-	-	-	-
Natural Gasoline	-	-	-	-	-	-
Unfinished Oils	17	0	-	0	746	-
Motor Gasoline Blending Components	21	0	-	309	135	-
Reformulated - RBOB	-	-	-	-	-	-
Conventional	21	0	-	309	135	-
CBOB	21	0	-	309	0	-
GTAB	-	-	-	-	-	-
Other	0	0	-	0	135	-
Renewable Fuels	0	0	0	153	553	0
Fuel Ethanol	0	0	-	153	438	-
Renewable Diesel Fuel ¹	0	0	0	0	115	0
Other Renewable Fuels	-	-	-	-	-	-
Finished Motor Gasoline	0	0	-	9	164	-
Reformulated	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-
Conventional	0	0	-	9	164	-
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-
Conventional Other	0	0	-	9	164	-
Finished Aviation Gasoline	0	0	-	0	0	-
Kerosene-Type Jet Fuel	19	0	-	0	0	-
Kerosene	-	-	-	-	-	-
Distillate Fuel Oil	0	0	-	338	0	-
15 ppm sulfur and under	0	0	-	338	0	-
Greater than 15 ppm to 500 ppm sulfur	-	-	-	-	-	-
Greater than 500 ppm sulfur	-	-	-	-	-	-
Residual Fuel Oil	0	0	-	-	679	-
Less than 0.31 percent sulfur	0	0	-	-	67	-
0.31 to 1.00 percent sulfur	0	0	-	-	40	-
Greater than 1.00 percent sulfur	0	0	-	-	572	-
Petrochemical Feedstocks	0	0	-	-	46	-
Naphtha for Petrochemical Feedstock Use	0	0	-	-	46	-
Other Oils for Petrochemical Feedstock Use	-	-	-	-	-	-
Special Naphthas	-	-	-	-	-	-
Lubricants	0	0	0	0	0	0
Waxes	-	-	-	-	-	-
Marketable Petroleum Coke	-	-	-	-	-	-
Asphalt and Road Oil	0	0	-	68	36	-
Miscellaneous Products	-	231	-	0	0	-
Total	268	231	0	1,243	5,013	0

See footnotes at end of table.

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

Commodity	From 3 to						From 5 to		
	1	New England	Central Atlantic	Lower Atlantic	2	5	1	2	3
Crude Oil	2,096	—	2,096	—	0	—	0	0	0
Petroleum Products	24,499	—	279	24,220	1,980	178	0	0	42
Natural Gas Liquids	30	—	—	30	—	—	0	—	0
Ethane	—	—	—	—	—	—	—	—	—
Propane	30	—	—	30	—	—	0	—	0
Normal Butane	—	—	—	—	—	—	—	—	—
Isobutane	—	—	—	—	—	—	—	—	—
Natural Gasoline	—	—	—	—	—	—	—	—	—
Unfinished Oils	0	—	—	—	372	—	0	0	0
Motor Gasoline Blending Components	12,627	—	80	12,547	520	—	0	0	0
Reformulated - RBOB	—	—	—	—	—	—	—	—	—
Conventional	12,627	—	80	12,547	520	—	0	0	0
CBOB	12,395	—	—	12,395	0	—	0	0	0
GTAB	—	—	—	—	—	—	—	—	—
Other	232	—	80	152	520	—	0	0	0
Renewable Fuels	367	—	—	367	0	178	0	0	0
Fuel Ethanol	317	—	—	317	0	—	0	0	0
Renewable Diesel Fuel ¹	50	—	—	50	0	178	0	0	0
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	4,495	—	—	4,495	231	—	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	4,495	—	—	4,495	231	—	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	4,495	—	—	4,495	231	—	0	0	0
Finished Aviation Gasoline	86	—	—	86	9	—	0	0	0
Kerosene-Type Jet Fuel	2,390	—	—	2,390	167	—	0	0	0
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	3,875	—	—	3,875	444	—	0	0	0
15 ppm sulfur and under	3,875	—	—	3,875	444	—	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	—	—	—	—	—	—	—
Greater than 500 ppm sulfur	—	—	—	—	—	—	—	—	—
Residual Fuel Oil	—	—	—	—	0	—	—	0	0
Less than 0.31 percent sulfur	—	—	—	—	0	—	—	0	0
0.31 to 1.00 percent sulfur	—	—	—	—	0	—	—	0	0
Greater than 1.00 percent sulfur	—	—	—	—	0	—	—	0	0
Petrochemical Feedstocks	—	—	—	—	0	—	—	0	0
Naphtha for Petrochemical Feedstock Use	—	—	—	—	0	—	—	0	0
Other Oils for Petrochemical Feedstock Use	—	—	—	—	—	—	—	—	—
Special Naphthas	—	—	—	—	—	—	—	—	—
Lubricants	351	—	199	152	128	0	0	0	42
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	278	—	—	278	109	—	0	0	0
Miscellaneous Products	0	—	—	—	—	—	0	—	0
Total	26,595	—	2,375	24,220	1,980	178	0	0	42

— = No Data Reported.

¹ Renewable diesel fuel includes biodiesel and other renewable diesel.

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

Table 60. Movements of Crude Oil and Selected Products by Rail Between PAD Districts, March 2019
(Thousand Barrels)

Commodity	From 1 to				From 2 to			
	2	3	4	5	1	3	4	5
Crude Oil	0	0	0	0	2,797	643	0	5,049
Propane	120	0	0	0	1,819	602	0	423
Propylene	0	0	-	-	381	447	-	-
Normal Butane	117	0	0	0	539	136	0	108
Isobutane	54	0	0	0	153	156	0	71
Fuel Ethanol	0	0	0	0	9,160	5,018	220	3,898
Biodiesel	0	0	0	0	393	324	72	71
Marketable Petroleum Coke	0	0	0	0	552	523	0	0
Asphalt and Road Oil	0	0	0	0	410	310	18	152

Commodity	From 3 to				From 4 to			
	1	2	4	5	1	2	3	5
Crude Oil	0	0	0	179	0	0	331	0
Propane	0	61	0	0	0	0	0	0
Propylene	0	0	-	-	0	0	0	-
Normal Butane	0	23	0	22	0	0	0	0
Isobutane	0	103	0	20	0	0	0	0
Fuel Ethanol	0	0	0	351	0	0	0	0
Biodiesel	19	0	0	0	0	0	0	0
Marketable Petroleum Coke	83	26	0	0	0	0	105	46
Asphalt and Road Oil	89	44	0	141	0	110	150	174

Commodity	From 5 to			
	1	2	3	4
Crude Oil	0	0	0	0
Propane	0	0	0	0
Propylene	0	0	0	-
Normal Butane	0	0	0	0
Isobutane	0	0	0	0
Fuel Ethanol	0	0	0	0
Biodiesel	0	0	0	0
Marketable Petroleum Coke	0	70	0	25
Asphalt and Road Oil	0	0	0	0

- = No Data Reported.

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

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

PADD	Pipeline	Tanker and Barge	Rail	Total
From 1 to				
2	122	211	0	333
3	64	0	0	64
4	0	-	0	0
5	-	-	0	0
From 2 to				
1	251	366	2,797	3,414
3	66,993	2,654	643	70,290
4	6,495	-	0	6,495
5	-	-	5,049	5,049
From 3 to				
1	150	2,096	0	2,246
2	27,650	0	0	27,650
4	0	-	0	0
5	-	-	179	179
From 4 to				
1	0	0	0	0
2	22,798	0	0	22,798
3	325	0	331	656
5	-	-	0	0
From 5 to				
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	-	0	0

- = No Data Reported.

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

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

Commodity	PAD District 1			PAD District 2			PAD District 3		
	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts
Crude Oil	5,660	397	5,263	50,781	85,248	-34,467	71,010	30,075	40,935
Petroleum Products	129,397	18,601	110,796	49,262	69,370	-20,108	43,843	135,168	-91,325
Natural Gas Liquids	4,862	7,923	-3,061	26,404	37,230	-10,826	32,139	7,892	24,247
Ethane	0	6,338	-6,338	10,546	14,893	-4,347	15,377	928	14,449
Propane	4,170	872	3,298	6,494	13,475	-6,981	9,207	2,336	6,871
Normal Butane	539	219	320	2,457	4,955	-2,498	3,782	307	3,475
Isobutane	153	287	-134	1,702	1,706	-4	1,454	618	836
Natural Gasoline	0	207	-207	5,205	2,201	3,004	2,319	3,703	-1,384
Refinery Olefins	381	0	381	0	828	-828	447	0	447
Ethylene	0	0	-	-	-	-	0	0	-
Propylene	381	0	381	0	828	-828	447	0	447
Normal Butylene	0	0	-	0	0	-	0	0	-
Isobutylene	0	0	-	0	0	-	0	0	-
Unfinished Oils	0	17	-17	389	746	-357	746	372	374
Motor Gasoline Blending Components	58,968	7,143	51,825	11,538	3,635	7,903	1,278	65,820	-64,542
Reformulated - RBOB	7,591	0	7,591	1,164	0	1,164	0	11,106	-11,106
Conventional	51,377	7,143	44,234	10,374	3,635	6,739	1,278	54,714	-53,436
CBOB	51,145	7,143	44,002	9,581	3,500	6,081	1,143	53,689	-52,546
GTAB	0	0	-	-	-	-	0	0	-
Other	232	0	232	793	135	658	135	1,025	-890
Renewable Fuels	10,092	0	10,092	0	19,863	-19,863	5,896	915	4,980
Fuel Ethanol	9,630	0	9,630	0	18,888	-18,888	5,456	668	4,788
Renewable Diesel Fuel ²	462	0	462	0	976	-976	439	247	192
Other Renewable Fuels	-	-	-	-	-	-	0	0	-
Finished Motor Gasoline	7,090	81	7,009	864	744	120	264	7,191	-6,927
Reformulated	0	0	-	0	0	-	0	0	-
Reformulated Blended with Fuel Ethanol	0	0	-	0	0	-	0	0	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	7,090	81	7,009	864	744	120	264	7,191	-6,927
Conventional Blended with Fuel Ethanol	0	0	-	0	0	-	0	0	-
Ed55 and Lower	0	0	-	0	0	-	0	0	-
Greater than Ed55	0	0	-	0	0	-	0	0	-
Conventional Other	7,090	81	7,009	864	744	120	264	7,191	-6,927
Finished Aviation Gasoline	86	0	86	9	0	9	0	95	-95
Kerosene-Type Jet Fuel	16,225	262	15,963	2,240	940	1,300	92	18,391	-18,299
Kerosene	0	0	-	0	0	-	0	0	-
Distillate Fuel Oil	29,862	2,944	26,918	7,331	2,589	4,742	859	33,243	-32,384
15 ppm sulfur and under	28,145	2,944	25,201	7,194	2,589	4,605	859	31,389	-30,530
Greater than 15 ppm to 500 ppm sulfur	0	0	-	137	0	137	0	137	-137
Greater than 500 ppm sulfur	1,717	0	1,717	0	0	-	0	1,717	-1,717
Residual Fuel Oil	0	0	-	0	679	-679	679	0	679
Petrochemical Feedstocks	0	0	-	0	46	-46	46	0	46
Naphtha for Petrochemical Feedstock Use	0	0	-	0	46	-46	46	0	46
Other Oils for Petrochemical Feedstock Use	0	0	-	0	0	-	0	0	-
Special Naphthas	0	0	-	0	0	-	0	0	-
Lubricants	351	0	351	128	0	128	42	479	-437
Waxes	0	0	-	0	0	-	0	0	-
Marketable Petroleum Coke	635	0	635	96	1,075	-979	628	109	519
Asphalt and Road Oil	844	0	844	263	994	-731	496	661	-165
Miscellaneous Products	0	231	-231	0	0	-	231	0	231
Total	135,056	18,998	116,058	100,043	154,618	-54,575	114,853	165,243	-50,391

See footnotes at end of table.

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

Commodity	PAD District 4			PAD District 5		
	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts
Crude Oil	6,495	23,454	-16,959	5,229	0	5,229
Petroleum Products	7,598	18,812	-11,214	11,989	137	11,852
Natural Gas Liquids	4,543	15,547	-11,004	644	0	644
Ethane	855	4,619	-3,764	0	0	-
Propane	2,084	5,695	-3,611	423	0	423
Normal Butane	873	2,300	-1,427	130	0	130
Isobutane	319	1,108	-789	91	0	91
Natural Gasoline	412	1,825	-1,413	0	0	-
Refinery Olefins	0	0	-	0	0	-
Ethylene	-	-	-	-	-	-
Propylene	0	0	-	0	0	-
Normal Butylene	0	0	-	0	0	-
Isobutylene	0	0	-	0	0	-
Unfinished Oils	0	0	-	0	0	-
Motor Gasoline Blending Components	1,195	1,247	-52	4,866	0	4,866
Reformulated - RBOB	-	-	-	2,351	0	2,351
Conventional	1,195	1,247	-52	2,515	0	2,515
CBOB	1,195	1,247	-52	2,515	0	2,515
GTAB	-	-	-	-	-	-
Other	0	0	-	0	0	-
Renewable Fuels	293	0	293	4,498	0	4,498
Fuel Ethanol	220	0	220	4,250	0	4,250
Renewable Diesel Fuel ²	72	0	72	249	0	249
Other Renewable Fuels	-	-	-	0	0	-
Finished Motor Gasoline	140	701	-561	359	0	359
Reformulated	-	-	-	0	0	-
Reformulated Blended with Fuel Ethanol	-	-	-	0	0	-
Reformulated Other	-	-	-	-	-	-
Conventional	140	701	-561	359	0	359
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	140	701	-561	359	0	359
Finished Aviation Gasoline	0	0	-	0	0	-
Kerosene-Type Jet Fuel	755	69	686	350	0	350
Kerosene	0	0	-	0	0	-
Distillate Fuel Oil	629	664	-35	759	0	759
15 ppm sulfur and under	629	664	-35	759	0	759
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	42	-42
Waxes	0	0	-	0	0	-
Marketable Petroleum Coke	25	151	-126	46	95	-49
Asphalt and Road Oil	18	433	-415	467	0	467
Miscellaneous Products	0	0	-	0	0	-
Total	14,093	42,266	-28,173	17,217	137	17,081

- = No Data Reported.

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

² Renewable diesel fuel includes biodiesel and other renewable diesel.

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

Appendix A

District Descriptions and Maps

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

PAD District I

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

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

Sub-PAD District I

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

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

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

PAD District II

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

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

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

PAD District III

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

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

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

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

New Mexico: The State of New Mexico.

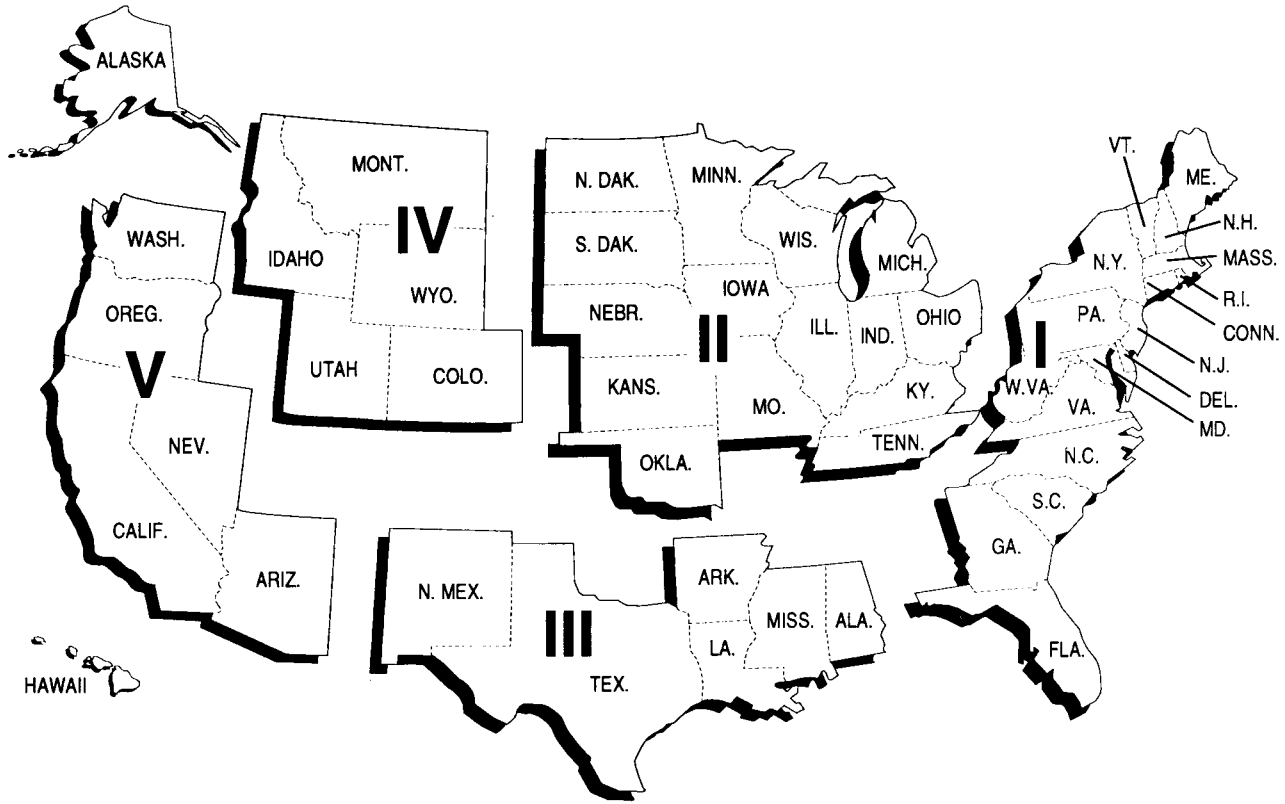
PAD District IV

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

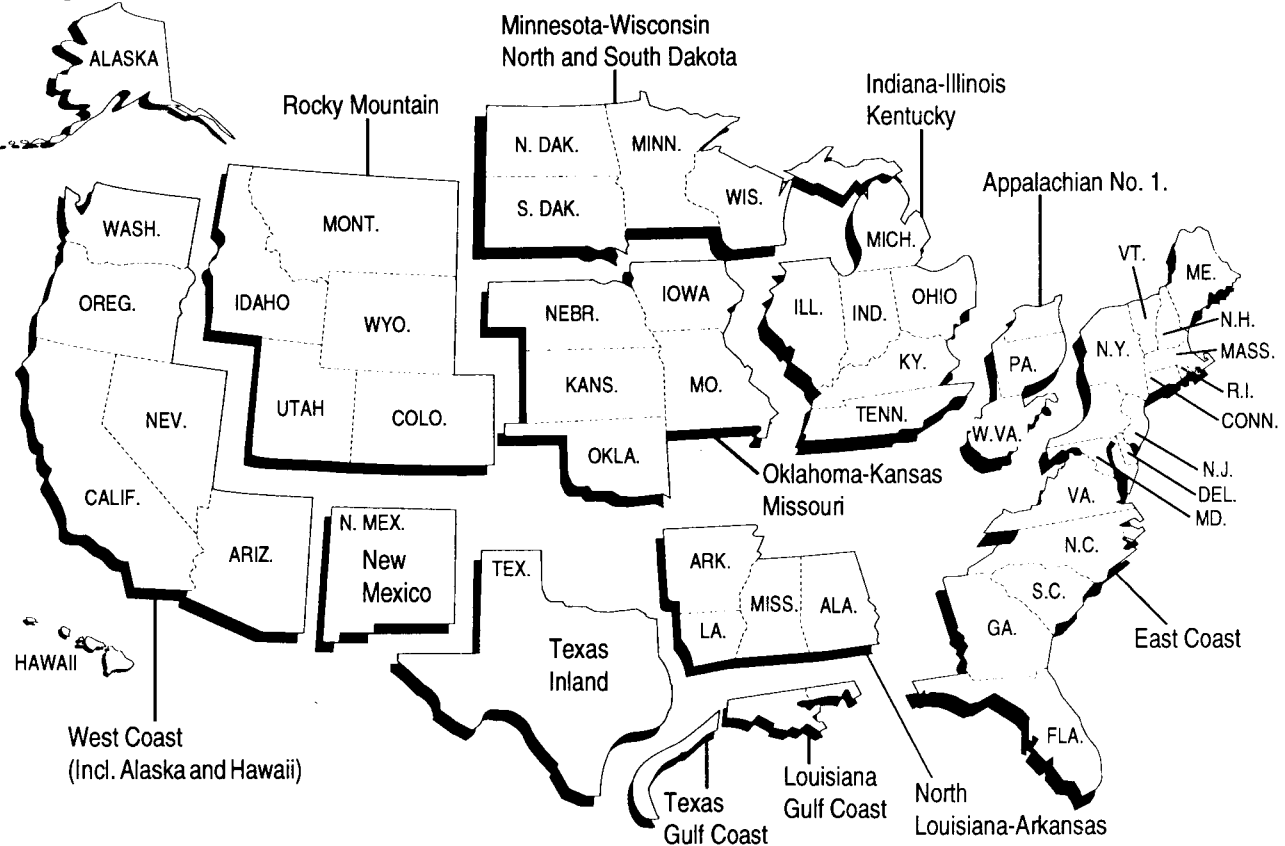
PAD District V

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

Petroleum Administration for Defense (PAD) Districts



Refining Districts



PSM Explanatory Notes

Preface

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

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

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

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

Appendix B. Explanatory Notes

1. Overview

A. The Energy Information Administration's Quality Guidelines

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

B. Concepts of Product Supply and Demand

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

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

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

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

C. Components of Supply and Disposition

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

(1.) Supply

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

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

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

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

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

same month.

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

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

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

(2.) Disposition

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

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

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

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

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

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

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

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

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

(3.) Ending Stocks

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

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

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

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

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

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

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

2. Components - Forms Discussions

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

A. Petroleum Supply Reporting System

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

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

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

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

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

B. Monthly Supply Survey Description and Methodology

(1.) Description of Surveys Forms

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

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

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

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

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

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

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

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

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

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

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

(2.) Frame

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(3.) Collection

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

(4.) Processing and Micro Editing

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

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

(5.) Estimation and Imputation

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

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

(6.) Macro Editing

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

(7.) Dissemination

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

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

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

C. Derived Data

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

(1.) Domestic Crude Oil Production

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

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

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

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

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

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

(2.) Exports

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

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

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

(3.) Movements of crude oil by railroad

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

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

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

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

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

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

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

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

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

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

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

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

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

(6.) Finished Motor Gasoline Adjustment

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

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

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

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

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

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

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

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

(7.) Motor Gasoline Blending Components Adjustment

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

(8.) Renewable Fuels including Fuel Ethanol Adjustment

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

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

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

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

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

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

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

(9.) Distillate Fuel Oil Adjustment

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

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

(10.) Crude Oil Adjustment

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

(11.) Other Hydrocarbon Adjustment

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

(12.) Hydrogen Adjustment

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

(13.) Oxygenates (excluding fuel ethanol) Adjustment

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

3. Quality

A. General Discussion

(1.) Response Rates

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

(2.) Non-sampling Errors

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

(3.) Resubmissions

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

(4.) Revision Policy

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

B. Data Assessment

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

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

4. Provisions Regarding Disclosure of Information

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

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

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

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

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

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

Appendix D

Northeast Reserves

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

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

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

Source: U. S. Energy Information Administration

Northeast Regional Refined Petroleum Product Reserve motor gasoline products

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

Source: U. S. Energy Information Administration

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

State of New York's Strategic Fuels Reserve Program

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

Product	Location	Thousand Barrels
Motor Gasoline Blending Components	NY	87
Fuel Ethanol	NY	10
Distillate Fuel Oil, 15 ppm Sulfur and Under	NY	34

Source: New York State Energy Research & Development Authority

Definitions of Petroleum Products and Other Terms

(Revised May 2010)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

the types and grades of inputs to be processed;

the types and grades of products expected to be manufactured;

the environmental constraints associated with refinery operations;

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

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

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

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

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

feedstocks.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Flexicoking. A thermal cracking process which converts heavy

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

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

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

Examples:

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

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

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

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

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

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

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

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

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

Heavy Gas Oil. Petroleum distillates with an approximate boiling

range from 651 degrees Fahrenheit to 1000 degrees Fahrenheit.

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

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

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

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

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

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

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

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

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

Isopentane. See *Natural Gasoline and Isopentane.*

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Reformulated Blendstock for Oxygenate Blending (RBOB).

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

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

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

All Other Motor Gasoline Blending Components.

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

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

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

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

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

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

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

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

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

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

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

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

Normal Butane. See *Butane*.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Refinery-Grade Butane. See *Butane*.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

to a PAD District.

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

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

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

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

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

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

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

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

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

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

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

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

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

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