



U.S. Energy Information
Administration

Petroleum Supply Monthly

with data for November 2016

January 2016



This report was prepared by the U.S. Energy Information Administration (EIA), the statistical and analytical agency within the U.S. Department of Energy. By law, EIA's data, analyses, and forecasts are independent of approval by any other officer or employee of the United States Government. The views in this report therefore should not be construed as representing those of the Department of Energy or other Federal agencies.

Preface

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

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

Scope of data

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

Sections

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

Contents

Page

Tables

U.S. supply and disposition of crude oil, petroleum products, and biofuels

1. U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products	7
2. U.S. Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products.....	8
3. U.S. Daily Average Supply and Disposition of Crude Oil and Petroleum Products.....	9
4. U.S. Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products.....	10

Regional supply and disposition of crude oil petroleum products and biofuels

5. PAD District 1	11
6. Year-to-Date PAD District 1	12
7. Daily Average PAD District 1	13
8. Year-to-Date Daily Average PAD District 1	14
9. PAD District 2	15
10. Year-to-Date PAD District 2	16
11. Daily Average PAD District 2	17
12. Year-to-Date Daily Average PAD District 2	18
13. PAD District 3	19
14. Year-to-Date PAD District 3	20
15. Daily Average PAD District 3	21
16. Year-to-Date Daily Average PAD District 3	22
17. PAD District 4	23
18. Year-to-Date PAD District 4	24
19. Daily Average PAD District 4	25
20. Year-to-Date Daily Average PAD District 4	26
21. PAD District 5	27
22. Year-to-Date PAD District 5	28
23. Daily Average PAD District 5	29
24. Year-to-Date Daily Average PAD District 5	30

Crude oil supply and disposition and production by state

25. Crude Oil Supply, Disposition, and Ending Stocks by PAD District	31
26. Production of Crude Oil by PAD District and State	32

Natural Gas Processing

27. Natural Gas Plant Net Production and Stocks of Petroleum Products by PAD and Refining Districts	33
---	----

Refinery Operations

28. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts	34
29. Refinery and Blender Net Production of Finished Petroleum Products by PAD and Refining Districts	36
30. Refinery Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts	38
31. Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts	40
32. Blender Net Inputs of Petroleum Products by PAD District	42
33. Blender Net Production of Petroleum Products by PAD District	43
34. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts	44
35. Percent Yield of Petroleum Products by PAD and Refining Districts	46

Imports of residual fuel oil by state of entry

36. Imports of Residual Fuel Oil by Sulfur Content	47
--	----

Imports by PAD District

37. Imports of Crude Oil and Petroleum Products	48
38. Year-to-Date Imports of Crude Oil and Petroleum Products	49

Imports by country of origin

39. United States	50
40. Year-to-Date United States	54
41. PAD District 1	58
42. PAD District 2	62
43. PAD District 3	66
44. PAD Districts 4 and 5	70
45. Year-to-Date PAD District 1	74
46. Year-to-Date PAD District 2	78
47. Year-to-Date PAD District 3	82

48. Year-to-Date PAD Districts 4 and 5	86
Exports of Crude Oil and Petroleum Products	
49. Exports of Crude Oil and Petroleum Products by PAD District	90
50. Year-to-Date Exports of Crude Oil and Petroleum Products by PAD District	91
51. Exports of Crude Oil and Petroleum Products by Destination.....	92
52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination	96
Net Imports	
53. Net Imports of Crude Oil and Petroleum Products into the United States by Country	100
54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country	104
Stocks	
55. Stocks of Crude Oil and Petroleum Products by PAD District	108
56. Refinery, Bulk Terminal, and Natural Gas Plant Stocks of Selected Petroleum Products by PAD District and State	111
Movements of Crude Oil, Petroleum Products, and Biofuels	
57. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge and Rail Between PAD Districts	113
58. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts.....	115
59. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts.....	117
60. Movements of Crude Oil and Selected Products by Rail Between PAD Districts	119
61. Movements of Crude Oil by Pipeline, Tanker, Barge, and Rail between PAD Districts	120
62. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail Between PAD Districts.....	121
Appendices	
A. District Descriptions and Maps	123
B. Explanatory Notes	124
D. Northeast Reserves	136
Glossary	
Definitions of Petroleum Products and Other Terms	137

Table 1. U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, November 2016
(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	267,118	--	--	241,606	-4,433	-186	486,561	17,916	0	1,183,724
Natural Gas Plant Liquids and Liquefied										
Refinery Gases	107,937	-654	10,420	5,701	--	-9,869	20,845	37,821	74,607	234,629
Pentanes Plus	13,143	-654	--	4	--	660	4,327	4,957	2,549	25,784
Liquefied Petroleum Gases	94,794	--	10,420	5,697	--	-10,529	16,518	32,864	72,058	208,845
Ethane/Ethylene	40,361	--	115	--	--	3,408	--	2,737	34,331	55,209
Propane/Propylene	35,265	--	17,692	4,811	--	-1,184	--	25,472	33,480	100,909
Normal Butane/Butylene	10,168	--	-6,904	717	--	-12,228	9,724	4,566	1,919	45,014
Isobutane/Isobutylene	9,000	--	-483	169	--	-525	6,794	88	2,329	7,713
Other Liquids	--	36,241	--	39,402	971	4,796	59,661	15,344	-3,187	315,971
Hydrogen/Oxygenates/Renewables/										
Other Hydrocarbons	--	36,245	--	3,129	1,194	-308	35,902	4,974	0	26,230
Hydrogen	--	--	--	--	6,433	--	6,433	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	2,292	--	422	-567	168	62	1,917	0	1,224
Renewable Fuels (including Fuel Ethanol) ...	--	33,953	--	2,695	-4,682	-483	29,392	3,057	0	24,983
Fuel Ethanol ⁵	--	30,565	--	--	-1,207	-869	27,323	2,904	0	19,136
Renewable Fuels Except Fuel Ethanol	--	3,388	--	2,695	-3,476	386	2,069	152	0	5,847
Other Hydrocarbons	--	--	--	12	10	7	15	--	0	23
Unfinished Oils	--	--	--	16,382	--	-2,817	14,566	7,811	-3,178	82,833
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	-4	--	19,891	-223	7,917	9,188	2,559	0	206,891
Reformulated	--	--	--	6,229	5,703	3,796	8,134	2	0	49,923
Conventional	--	-4	--	13,662	-5,926	4,121	1,054	2,557	0	156,968
Aviation Gasoline Blend. Comp.	--	--	--	--	--	4	5	--	-9	17
Finished Petroleum Products	--	102	589,944	22,662	4,881	8,693	--	90,672	518,224	319,365
Finished Motor Gasoline	--	102	299,377	1,881	1,429	633	--	24,854	277,303	26,525
Reformulated	--	--	96,438	--	-5,764	1	--	--	90,673	44
Conventional	--	102	202,939	1,881	7,193	632	--	24,854	186,630	26,481
Finished Aviation Gasoline	--	--	399	1	--	55	--	--	345	924
Kerosene-Type Jet Fuel	--	--	50,215	4,687	--	224	--	5,881	48,797	44,764
Kerosene	--	--	94	67	--	-178	--	255	84	2,271
Distillate Fuel Oil ⁵	--	--	151,952	4,336	3,452	6,289	--	34,621	118,830	160,173
15 ppm sulfur and under	--	--	142,577	2,665	3,452	5,648	--	30,070	112,975	136,751
Greater than 15 ppm to 500 ppm sulfur	--	--	2,777	341	--	100	--	2,741	277	9,285
Greater than 500 ppm sulfur	--	--	6,598	1,330	--	541	--	1,810	5,577	14,137
Residual Fuel Oil ⁶	--	--	13,504	7,749	--	1,276	--	8,730	11,247	40,563
Less than 0.31 percent sulfur	--	--	1,615	868	--	323	--	NA	NA	3,361
0.31 to 1.00 percent sulfur	--	--	2,034	493	--	232	--	NA	NA	8,940
Greater than 1.00 percent sulfur	--	--	9,855	6,388	--	721	--	NA	NA	28,256
Petrochemical Feedstocks	--	--	8,543	1,238	--	180	--	--	9,601	3,334
Naphtha for Petro. Feed. Use	--	--	5,496	1,170	--	58	--	--	6,608	2,063
Other Oils for Petro. Feed. Use	--	--	3,047	68	--	122	--	--	2,993	1,271
Special Naphthas	--	--	935	541	--	-5	--	--	1,481	1,322
Lubricants	--	--	5,069	1,046	--	380	--	2,349	3,386	12,488
Waxes	--	--	150	112	--	39	--	144	79	634
Petroleum Coke	--	--	27,713	204	--	-156	--	13,394	14,679	5,557
Marketable	--	--	20,817	204	--	-156	--	13,394	7,783	5,557
Catalyst	--	--	6,896	--	--	--	--	--	6,896	--
Asphalt and Road Oil	--	--	9,010	798	--	11	--	424	9,373	19,995
Still Gas	--	--	20,220	--	--	--	--	--	20,220	--
Miscellaneous Products	--	--	2,763	2	--	-55	--	20	2,800	815
Total	375,055	35,689	600,364	309,371	1,420	3,434	567,067	161,754	589,644	2,053,689

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

Table 2. U.S. Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-November 2016
(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	2,977,588	--	--	2,639,453	16,854	39,340	5,417,995	176,561	0	1,183,724
Natural Gas Plant Liquids and Liquefied										
Refinery Gases	1,169,197	-7,184	218,592	53,170	--	37,356	174,766	394,404	827,249	234,629
Pentanes Plus	146,023	-7,184	--	3,204	--	5,241	49,156	67,172	20,474	25,784
Liquefied Petroleum Gases	1,023,174	--	218,592	49,966	--	32,115	125,610	327,232	806,775	208,845
Ethane/Ethylene	420,679	--	1,391	43	--	21,281	--	30,424	370,408	55,209
Propane/Propylene	389,571	--	194,860	42,473	--	4,244	--	258,734	363,926	100,909
Normal Butane/Butylene	108,372	--	24,761	4,106	--	7,505	54,462	36,071	39,201	45,014
Isobutane/Isobutylene	104,552	--	-2,420	3,344	--	-915	71,148	2,003	33,240	7,713
Other Liquids	--	390,660	--	442,924	83,770	73	758,470	169,692	-10,881	315,971
Hydrogen/Oxygenates/Renewables/										
Other Hydrocarbons	--	390,704	--	23,377	35,528	-528	401,520	48,618	0	26,230
Hydrogen	--	--	--	--	72,510	--	72,510	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	24,555	--	3,690	-2,953	297	967	24,028	0	1,224
Renewable Fuels (including Fuel Ethanol) ...	--	366,149	--	19,438	-34,173	-806	327,631	24,589	0	24,983
Fuel Ethanol ⁵	--	332,512	--	862	-6,397	-2,302	306,702	22,577	0	19,136
Renewable Fuels Except Fuel Ethanol	--	33,637	--	18,576	-27,776	1,496	20,929	2,012	0	5,847
Other Hydrocarbons	--	--	--	249	144	-19	412	--	0	23
Unfinished Oils	--	--	--	197,430	--	208	131,566	76,479	-10,823	82,833
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	-44	--	222,117	48,241	384	225,335	44,595	0	206,891
Reformulated	--	--	--	63,160	59,984	-939	124,035	48	0	49,923
Conventional	--	-44	--	158,957	-11,743	1,323	101,300	44,547	0	156,968
Aviation Gasoline Blend. Comp.	--	--	--	--	--	9	49	--	-58	17
Finished Petroleum Products	--	945	6,502,754	241,600	-12,968	-5,765	--	988,794	5,749,302	319,365
Finished Motor Gasoline	--	945	3,345,414	20,748	-41,844	-1,928	--	202,292	3,124,898	26,525
Reformulated	--	--	1,087,630	--	-60,755	14	--	--	1,026,861	44
Conventional	--	945	2,257,784	20,748	18,911	-1,942	--	202,292	2,098,038	26,481
Finished Aviation Gasoline	--	--	3,721	81	--	46	--	--	3,756	924
Kerosene-Type Jet Fuel	--	--	549,977	49,746	--	4,508	--	58,388	536,827	44,764
Kerosene	--	--	4,299	631	--	-308	--	3,270	1,968	2,271
Distillate Fuel Oil ⁵	--	--	1,613,259	48,579	28,876	-568	--	398,066	1,293,216	160,173
15 ppm sulfur and under	--	--	1,508,510	32,274	28,876	-111	--	337,190	1,232,581	136,751
Greater than 15 ppm to 500 ppm sulfur	--	--	39,468	1,594	--	909	--	37,797	2,356	9,285
Greater than 500 ppm sulfur	--	--	65,281	14,711	--	-1,366	--	23,080	58,278	14,137
Residual Fuel Oil ⁶	--	--	140,774	76,101	--	-1,626	--	97,854	120,647	40,563
Less than 0.31 percent sulfur	--	--	15,823	3,769	--	-860	--	NA	NA	3,361
0.31 to 1.00 percent sulfur	--	--	16,674	9,071	--	3,062	--	NA	NA	8,940
Greater than 1.00 percent sulfur	--	--	108,277	63,261	--	-3,828	--	NA	NA	28,256
Petrochemical Feedstocks	--	--	97,009	10,604	--	74	--	--	107,539	3,334
Naphtha for Petro. Feed. Use	--	--	64,046	8,792	--	-13	--	--	72,851	2,063
Other Oils for Petro. Feed. Use	--	--	32,963	1,812	--	87	--	--	34,688	1,271
Special Naphthas	--	--	11,634	4,763	--	-14	--	--	16,411	1,322
Lubricants	--	--	55,698	13,116	--	-966	--	26,140	43,640	12,488
Waxes	--	--	1,610	1,630	--	61	--	1,180	1,999	634
Petroleum Coke	--	--	303,625	3,261	--	-496	--	194,289	113,093	5,557
Marketable	--	--	225,548	3,261	--	-496	--	194,289	35,016	5,557
Catalyst	--	--	78,077	--	--	--	--	--	78,077	--
Asphalt and Road Oil	--	--	112,777	12,327	--	-4,587	--	6,889	122,802	19,995
Still Gas	--	--	232,729	--	--	--	--	--	232,729	--
Miscellaneous Products	--	--	30,228	13	--	39	--	426	29,776	815
Total	4,146,785	384,421	6,721,346	3,377,147	87,656	71,004	6,351,231	1,729,450	6,565,670	2,053,689

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

Table 3. U.S. Daily Average Supply and Disposition of Crude Oil and Petroleum Products, November 2016
(Thousand Barrels per Day)

Commodity	Supply					Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjust-ments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³
Crude Oil ⁴	8,904	--	--	8,054	-148	-6	16,219	597	0
Natural Gas Plant Liquids and Liquefied									
Refinery Gases	3,598	-22	347	190	--	-329	695	1,261	2,487
Pentanes Plus	438	-22	--	0	--	22	144	165	85
Liquefied Petroleum Gases	3,160	--	347	190	--	-351	551	1,095	2,402
Ethane/Ethylene	1,345	--	4	--	--	114	--	91	1,144
Propane/Propylene	1,176	--	590	160	--	-39	--	849	1,116
Normal Butane/Butylene	339	--	-230	24	--	-408	324	152	64
Isobutane/Isobutylene	300	--	-16	6	--	-18	226	3	78
Other Liquids	--	1,208	--	1,313	32	160	1,989	511	-106
Hydrogen/Oxygenates/Renewables/									
Other Hydrocarbons	--	1,208	--	104	40	-10	1,197	166	0
Hydrogen	--	--	--	--	214	--	214	--	0
Oxygenates (excluding Fuel Ethanol)	--	76	--	14	-19	6	2	64	0
Renewable Fuels (including Fuel Ethanol) ...	--	1,132	--	90	-156	-16	980	102	0
Fuel Ethanol	--	1,019	--	--	-40	-29	911	97	0
Renewable Fuels Except Fuel Ethanol	--	113	--	90	-116	13	69	5	0
Other Hydrocarbons	--	--	--	0	0	0	1	--	0
Unfinished Oils	--	--	--	546	--	-94	486	260	-106
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	663	-7	264	306	85	0
Reformulated	--	--	--	208	190	127	271	0	0
Conventional	--	0	--	455	-198	137	35	85	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	3	19,665	755	163	290	--	3,022	17,274
Finished Motor Gasoline	--	3	9,979	63	48	21	--	828	9,243
Reformulated	--	--	3,215	--	-192	0	--	--	3,022
Conventional	--	3	6,765	63	240	21	--	828	6,221
Finished Aviation Gasoline	--	--	13	0	--	2	--	--	12
Kerosene-Type Jet Fuel	--	--	1,674	156	--	7	--	196	1,627
Kerosene	--	--	3	2	--	-6	--	9	3
Distillate Fuel Oil ⁵	--	--	5,065	145	115	210	--	1,154	3,961
15 ppm sulfur and under	--	--	4,753	89	115	188	--	1,002	3,766
Greater than 15 ppm to 500 ppm sulfur	--	--	93	11	--	3	--	91	9
Greater than 500 ppm sulfur	--	--	220	44	--	18	--	60	186
Residual Fuel Oil ⁶	--	--	450	258	--	43	--	291	375
Less than 0.31 percent sulfur	--	--	54	29	--	11	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	68	16	--	8	--	NA	NA
Greater than 1.00 percent sulfur	--	--	329	213	--	24	--	NA	NA
Petrochemical Feedstocks	--	--	285	41	--	6	--	--	320
Naphtha for Petro. Feed. Use	--	--	183	39	--	2	--	--	220
Other Oils for Petro. Feed. Use	--	--	102	2	--	4	--	--	100
Special Naphthas	--	--	31	18	--	0	--	--	49
Lubricants	--	--	169	35	--	13	--	78	113
Waxes	--	--	5	4	--	1	--	5	3
Petroleum Coke	--	--	924	7	--	-5	--	446	489
Marketable	--	--	694	7	--	-5	--	446	259
Catalyst	--	--	230	--	--	--	--	--	230
Asphalt and Road Oil	--	--	300	27	--	0	--	14	312
Still Gas	--	--	674	--	--	--	--	--	674
Miscellaneous Products	--	--	92	0	--	-2	--	1	93
Total	12,502	1,190	20,012	10,312	47	114	18,902	5,392	19,655

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

Table 4. U.S. Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-November 2016
(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	8,888	--	--	7,879	50	117	16,173	527	0
Natural Gas Plant Liquids and Liquefied									
Refinery Gases	3,490	-21	653	159	--	112	522	1,177	2,469
Pentanes Plus	436	-21	--	10	--	16	147	201	61
Liquefied Petroleum Gases	3,054	--	653	149	--	96	375	977	2,408
Ethane/Ethylene	1,256	--	4	0	--	64	--	91	1,106
Propane/Propylene	1,163	--	582	127	--	13	--	772	1,086
Normal Butane/Butylene	323	--	74	12	--	22	163	108	117
Isobutane/Isobutylene	312	--	-7	10	--	-3	212	6	99
Other Liquids	--	1,166	--	1,322	250	0	2,264	507	-32
Hydrogen/Oxygenates/Renewables/									
Other Hydrocarbons	--	1,166	--	70	106	-2	1,199	145	0
Hydrogen	--	--	--	--	216	--	216	--	0
Oxygenates (excluding Fuel Ethanol)	--	73	--	11	-9	1	3	72	0
Renewable Fuels (including Fuel Ethanol)	--	1,093	--	58	-102	-2	978	73	0
Fuel Ethanol	--	993	--	3	-19	-7	916	67	0
Renewable Fuels Except Fuel Ethanol	--	100	--	55	-83	4	62	6	0
Other Hydrocarbons	--	--	--	1	0	0	1	--	0
Unfinished Oils	--	--	--	589	--	1	393	228	-32
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	663	144	1	673	133	0
Reformulated	--	--	--	189	179	-3	370	0	0
Conventional	--	0	--	474	-35	4	302	133	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	3	19,411	721	-39	-17	--	2,952	17,162
Finished Motor Gasoline	--	3	9,986	62	-125	-6	--	604	9,328
Reformulated	--	--	3,247	--	-181	0	--	--	3,065
Conventional	--	3	6,740	62	56	-6	--	604	6,263
Finished Aviation Gasoline	--	--	11	0	--	0	--	--	11
Kerosene-Type Jet Fuel	--	--	1,642	148	--	13	--	174	1,602
Kerosene	--	--	13	2	--	-1	--	10	6
Distillate Fuel Oil ⁵	--	--	4,816	145	86	-2	--	1,188	3,860
15 ppm sulfur and under	--	--	4,503	96	86	0	--	1,007	3,679
Greater than 15 ppm to 500 ppm sulfur	--	--	118	5	--	3	--	113	7
Greater than 500 ppm sulfur	--	--	195	44	--	-4	--	69	174
Residual Fuel Oil ⁶	--	--	420	227	--	-5	--	292	360
Less than 0.31 percent sulfur	--	--	47	11	--	-3	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	50	27	--	9	--	NA	NA
Greater than 1.00 percent sulfur	--	--	323	189	--	-11	--	NA	NA
Petrochemical Feedstocks	--	--	290	32	--	0	--	--	321
Naphtha for Petro. Feed. Use	--	--	191	26	--	0	--	--	217
Other Oils for Petro. Feed. Use	--	--	98	5	--	0	--	--	104
Special Naphthas	--	--	35	14	--	0	--	--	49
Lubricants	--	--	166	39	--	-3	--	78	130
Waxes	--	--	5	5	--	0	--	4	6
Petroleum Coke	--	--	906	10	--	-1	--	580	338
Marketable	--	--	673	10	--	-1	--	580	105
Catalyst	--	--	233	--	--	--	--	--	233
Asphalt and Road Oil	--	--	337	37	--	-14	--	21	367
Still Gas	--	--	695	--	--	--	--	--	695
Miscellaneous Products	--	--	90	0	--	0	--	1	89
Total	12,378	1,148	20,064	10,081	262	212	18,959	5,163	19,599

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

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

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

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

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

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

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

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

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

Table 5. PAD District 1 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, November 2016
(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	1,303	--	--	26,954	4,344	-2,092	-3,765	33,537	738	0	14,163
Natural Gas Plant Liquids and Liquefied Refinery Gases	11,273	-16	244	1,382	-1,403	--	-107	1,879	908	8,800	9,414
Pentanes Plus	1,114	-16	--	--	-10	--	159	216	110	603	390
Liquefied Petroleum Gases	10,159	--	244	1,382	-1,393	--	-266	1,663	798	8,197	9,024
Ethane/Ethylene	4,684	--	8	--	-4,453	--	-240	--	315	164	290
Propane/Propylene	3,768	--	1,167	1,226	2,727	--	539	--	475	7,874	7,284
Normal Butane/Butylene	1,142	--	-811	97	368	--	-501	1,369	7	-79	1,261
Isobutane/Isobutylene	565	--	-120	59	-35	--	-64	294	1	238	189
Other Liquids	--	1,038	--	20,898	48,621	11,174	1,649	79,804	1,845	-1,567	71,522
Hydrogen/Oxygenates/Renewables/	--	--	--	--	--	--	--	--	--	--	--
Other Hydrocarbons	--	1,041	--	1,327	8,836	-642	-18	10,492	88	0	8,231
Hydrogen	--	--	--	--	--	115	--	115	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	1	--	--	1	0	--
Renewable Fuels (including Fuel Ethanol)	--	1,041	--	1,327	8,836	-759	-18	10,377	87	0	8,231
Fuel Ethanol	--	868	--	--	8,795	-32	-401	9,968	64	0	6,183
Renewable Fuels Except Fuel Ethanol	--	173	--	1,327	41	-726	383	409	23	0	2,048
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	1,707	-55	--	-858	2,425	1,652	-1,567	4,865
Motor Gasoline Blend. Comp. (MGBC)	--	-3	--	17,864	39,840	11,816	2,525	66,887	105	0	58,426
Reformulated	--	--	--	6,229	6,155	3,863	2,052	14,195	0	0	18,926
Conventional	--	-3	--	11,635	33,685	7,953	473	52,692	105	0	39,500
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	116,484	9,582	43,825	-11,090	990	--	3,234	154,577	103,019
Finished Motor Gasoline	--	--	96,129	1,862	7,391	-11,784	-411	--	33	93,976	4,486
Reformulated	--	--	38,886	--	--	-3,585	-1	--	--	35,302	24
Conventional	--	--	57,243	1,862	7,391	-8,199	-410	--	33	58,674	4,462
Finished Aviation Gasoline	--	--	--	1	839	--	-30	--	--	870	125
Kerosene-Type Jet Fuel	--	--	2,691	1,004	13,349	--	1,729	--	166	15,149	12,761
Kerosene	--	--	51	67	--	--	-66	--	2	182	1,833
Distillate Fuel Oil ⁶	--	--	11,538	3,400	21,365	694	213	--	859	35,925	67,516
15 ppm sulfur and under	--	--	10,579	2,423	19,216	694	209	--	859	31,844	53,382
Greater than 15 ppm to 500 ppm sulfur	--	--	-10	341	191	--	-450	--	0	972	6,900
Greater than 500 ppm sulfur	--	--	969	636	1,958	--	454	--	--	3,109	7,234
Residual Fuel Oil ⁷	--	--	1,549	2,515	--	--	-167	--	1,445	2,786	10,572
Less than 0.31 percent sulfur	--	--	268	145	--	--	-48	--	NA	NA	904
0.31 to 1.00 percent sulfur	--	--	193	--	--	--	261	--	NA	NA	2,729
Greater than 1.00 percent sulfur	--	--	1,088	2,370	--	--	-380	--	NA	NA	6,939
Petrochemical Feedstocks	--	--	145	--	--	--	46	--	--	99	217
Naphtha for Petro. Feed. Use	--	--	145	--	--	--	46	--	--	99	217
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	23	--	--	--	2	--	--	21	23
Lubricants	--	--	409	131	539	--	26	--	256	797	1,288
Waxes	--	--	9	92	--	--	31	--	81	-11	333
Petroleum Coke	--	--	1,236	1	--	--	--	--	324	913	--
Marketable	--	--	522	1	--	--	--	--	324	199	--
Catalyst	--	--	714	--	--	--	--	--	--	714	--
Asphalt and Road Oil	--	--	1,300	509	342	--	-387	--	52	2,486	3,828
Still Gas	--	--	1,299	--	--	--	--	--	--	1,299	--
Miscellaneous Products	--	--	105	--	--	--	4	--	16	85	37
Total	12,576	1,022	116,728	58,816	95,387	-2,007	-1,233	115,220	6,725	161,810	198,118

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

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

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

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

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

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

Table 6. PAD District 1 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-November 2016
(Thousand Barrels)

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	Ending Stocks
Crude Oil	15,088	--	--	290,427	71,333	44,019	-2,011	372,544	50,334	0	14,163
Natural Gas Plant Liquids and Liquefied Refinery Gases	117,318	-159	10,888	14,326	-19,283	--	1,144	11,659	22,252	88,035	9,414
Pentanes Plus	12,029	-159	--	--	-31	--	181	1,295	1,062	9,301	390
Liquefied Petroleum Gases	105,289	--	10,888	14,326	-19,252	--	963	10,364	21,190	78,734	9,024
Ethane/Ethylene	46,736	--	137	43	-42,506	--	172	--	6,485	-2,247	290
Propane/Propylene	40,226	--	11,822	12,855	23,109	--	561	--	13,150	74,301	7,284
Normal Butane/Butylene	12,352	--	-738	485	496	--	233	6,343	1,544	4,475	1,261
Isobutane/Isobutylene	5,975	--	-333	943	-351	--	-3	4,021	10	2,206	189
Other Liquids	--	10,374	--	215,096	580,737	103,454	2,939	906,088	20,498	-19,864	71,522
Hydrogen/Oxygenates/Renewables/											
Other Hydrocarbons	--	10,407	--	7,541	99,448	-112	-434	116,349	1,369	0	8,231
Hydrogen	--	--	--	--	--	1,138	--	1,138	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	18	--	--	18	0	--
Renewable Fuels (including Fuel Ethanol)	--	10,407	--	7,535	99,448	-1,262	-434	115,211	1,351	0	8,231
Fuel Ethanol	--	8,520	--	12	98,003	5,380	-1,035	111,650	1,300	0	6,183
Renewable Fuels Except Fuel Ethanol	--	1,887	--	7,523	1,445	-6,642	601	3,561	51	0	2,048
Other Hydrocarbons	--	--	--	6	--	-6	--	--	--	0	--
Unfinished Oils	--	--	--	13,182	-319	--	-612	16,125	17,214	-19,864	4,865
Motor Gasoline Blend. Comp. (MGBC)	--	-33	--	194,373	481,608	103,566	3,985	773,614	1,915	0	58,426
Reformulated	--	--	--	61,795	87,470	41,440	-831	191,531	5	0	18,926
Conventional	--	-33	--	132,578	394,138	62,126	4,816	582,083	1,910	0	39,500
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	1,294,628	117,128	489,787	-102,848	3,199	--	46,465	1,749,031	103,019
Finished Motor Gasoline	--	--	1,081,337	18,881	76,757	-108,946	-1,352	--	843	1,068,537	4,486
Reformulated	--	--	435,381	--	44	-32,200	8	--	--	403,217	24
Conventional	--	--	645,956	18,881	76,713	-76,747	-1,360	--	843	665,320	4,462
Finished Aviation Gasoline	--	--	--	10	5,740	--	-16	--	--	5,766	125
Kerosene-Type Jet Fuel	--	--	29,421	19,084	147,456	--	2,688	--	567	192,706	12,761
Kerosene	--	--	682	630	--	--	-149	--	326	1,135	1,833
Distillate Fuel Oil ⁶	--	--	115,988	39,317	250,762	6,098	3,064	--	22,965	386,136	67,516
15 ppm sulfur and under	--	--	102,546	26,940	227,763	6,098	4,035	--	18,662	340,651	53,382
Greater than 15 ppm to 500 ppm sulfur	--	--	2,594	1,227	3,128	--	1,696	--	3,536	1,717	6,900
Greater than 500 ppm sulfur	--	--	10,848	11,150	19,871	--	-2,667	--	767	43,769	7,234
Residual Fuel Oil ⁷	--	--	15,808	26,235	5	--	-878	--	11,411	31,515	10,572
Less than 0.31 percent sulfur	--	--	2,541	1,834	-194	--	-698	--	NA	NA	904
0.31 to 1.00 percent sulfur	--	--	1,794	3,378	--	--	102	--	NA	NA	2,729
Greater than 1.00 percent sulfur	--	--	11,473	21,023	199	--	-282	--	NA	NA	6,939
Petrochemical Feedstocks	--	--	1,537	36	-151	--	66	--	--	1,356	217
Naphtha for Petro. Feed. Use	--	--	1,537	23	--	--	66	--	--	1,494	217
Other Oils for Petro. Feed. Use	--	--	--	13	-151	--	--	--	--	-138	--
Special Naphthas	--	--	239	--	--	--	-7	--	--	246	23
Lubricants	--	--	4,408	2,108	5,694	--	78	--	2,258	9,874	1,288
Waxes	--	--	63	827	--	--	32	--	599	259	333
Petroleum Coke	--	--	11,856	1,704	--	--	--	--	6,464	7,096	--
Marketable	--	--	4,310	1,704	--	--	--	--	6,464	-450	--
Catalyst	--	--	7,546	--	--	--	--	--	--	7,546	--
Asphalt and Road Oil	--	--	18,299	8,296	3,524	--	-327	--	880	29,566	3,828
Still Gas	--	--	14,076	--	--	--	--	--	--	14,076	--
Miscellaneous Products	--	--	914	--	--	--	0	--	153	761	37
Total	132,406	10,215	1,305,516	636,977	1,122,574	44,625	5,271	1,290,291	139,549	1,817,202	198,118

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

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

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

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

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

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

Table 7. PAD District 1 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, November 2016
(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	43	--	--	898	145	-70	-126	1,118	25	0
Natural Gas Plant Liquids and Liquefied										
Refinery Gases	376	-1	8	46	-47	--	-4	63	30	293
Pentanes Plus	37	-1	--	--	0	--	5	7	4	20
Liquefied Petroleum Gases	339	--	8	46	-46	--	-9	55	27	273
Ethane/Ethylene	156	--	0	--	-148	--	-8	--	11	5
Propane/Propylene	126	--	39	41	91	--	18	--	16	262
Normal Butane/Butylene	38	--	-27	3	12	--	-17	46	0	-3
Isobutane/Isobutylene	19	--	-4	2	-1	--	-2	10	0	8
Other Liquids	--	35	--	697	1,621	372	55	2,660	62	-52
Hydrogen/Oxygenates/Renewables/										
Other Hydrocarbons	--	35	--	44	295	-21	-1	350	3	0
Hydrogen	--	--	--	--	--	4	--	4	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	35	--	44	295	-25	-1	346	3	0
Fuel Ethanol	--	29	--	--	293	-1	-13	332	2	0
Renewable Fuels Except Fuel Ethanol	--	6	--	44	1	-24	13	14	1	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	57	-2	--	-29	81	55	-52
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	595	1,328	394	84	2,230	4	0
Reformulated	--	--	--	208	205	129	68	473	0	0
Conventional	--	0	--	388	1,123	265	16	1,756	3	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,883	319	1,461	-370	33	--	108	5,153
Finished Motor Gasoline	--	--	3,204	62	246	-393	-14	--	1	3,133
Reformulated	--	--	1,296	--	--	-120	0	--	--	1,177
Conventional	--	--	1,908	62	246	-273	-14	--	1	1,956
Finished Aviation Gasoline	--	--	--	0	28	--	-1	--	--	29
Kerosene-Type Jet Fuel	--	--	90	33	445	--	58	--	6	505
Kerosene	--	--	2	2	--	--	-2	--	0	6
Distillate Fuel Oil ⁶	--	--	385	113	712	23	7	--	29	1,197
15 ppm sulfur and under	--	--	353	81	641	23	7	--	29	1,061
Greater than 15 ppm to 500 ppm sulfur	--	--	0	11	6	--	-15	--	0	32
Greater than 500 ppm sulfur	--	--	32	21	65	--	15	--	--	104
Residual Fuel Oil ⁷	--	--	52	84	--	--	-6	--	48	93
Less than 0.31 percent sulfur	--	--	9	5	--	--	-2	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	6	--	--	--	9	--	NA	NA
Greater than 1.00 percent sulfur	--	--	36	79	--	--	-13	--	NA	NA
Petrochemical Feedstocks	--	--	5	--	--	--	2	--	--	3
Naphtha for Petro. Feed. Use	--	--	5	--	--	--	2	--	--	3
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	1	--	--	--	0	--	--	1
Lubricants	--	--	14	4	18	--	1	--	9	27
Waxes	--	--	0	3	--	--	1	--	3	0
Petroleum Coke	--	--	41	0	--	--	--	--	11	30
Marketable	--	--	17	0	--	--	--	--	11	7
Catalyst	--	--	24	--	--	--	--	--	--	24
Asphalt and Road Oil	--	--	43	17	11	--	-13	--	2	83
Still Gas	--	--	43	--	--	--	--	--	--	43
Miscellaneous Products	--	--	4	--	--	--	0	--	1	3
Total	419	34	3,891	1,961	3,180	-67	-41	3,841	224	5,394

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

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

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

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

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

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

Table 8. PAD District 1 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-November 2016
(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	45	--	--	867	213	131	-6	1,112	150	0
Natural Gas Plant Liquids and Liquefied										
Refinery Gases	350	0	33	43	-58	--	3	35	66	263
Pentanes Plus	36	0	--	--	0	--	1	4	3	28
Liquefied Petroleum Gases	314	--	33	43	-57	--	3	31	63	235
Ethane/Ethylene	140	--	0	0	-127	--	1	--	19	-7
Propane/Propylene	120	--	35	38	69	--	2	--	39	222
Normal Butane/Butylene	37	--	-2	1	1	--	1	19	5	13
Isobutane/Isobutylene	18	--	-1	3	-1	--	0	12	0	7
Other Liquids	--	31	--	642	1,734	309	9	2,705	61	-59
Hydrogen/Oxygenates/Renewables/										
Other Hydrocarbons	--	31	--	23	297	0	-1	347	4	0
Hydrogen	--	--	--	--	--	3	--	3	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	31	--	22	297	-4	-1	344	4	0
Fuel Ethanol	--	25	--	0	293	16	-3	333	4	0
Renewable Fuels Except Fuel Ethanol	--	6	--	22	4	-20	2	11	0	0
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	39	-1	--	-2	48	51	-59
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	580	1,438	309	12	2,309	6	0
Reformulated	--	--	--	184	261	124	-2	572	0	0
Conventional	--	0	--	396	1,177	185	14	1,738	6	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,865	350	1,462	-307	10	--	139	5,221
Finished Motor Gasoline	--	--	3,228	56	229	-325	-4	--	3	3,190
Reformulated	--	--	1,300	--	0	-96	0	--	--	1,204
Conventional	--	--	1,928	56	229	-229	-4	--	3	1,986
Finished Aviation Gasoline	--	--	--	0	17	--	0	--	--	17
Kerosene-Type Jet Fuel	--	--	88	57	440	--	8	--	2	575
Kerosene	--	--	2	2	--	--	0	--	1	3
Distillate Fuel Oil ⁶	--	--	346	117	749	18	9	--	69	1,153
15 ppm sulfur and under	--	--	306	80	680	18	12	--	56	1,017
Greater than 15 ppm to 500 ppm sulfur	--	--	8	4	9	--	5	--	11	5
Greater than 500 ppm sulfur	--	--	32	33	59	--	-8	--	2	131
Residual Fuel Oil ⁷	--	--	47	78	0	--	-3	--	34	94
Less than 0.31 percent sulfur	--	--	8	5	-1	--	-2	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	5	10	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	34	63	1	--	-1	--	NA	NA
Petrochemical Feedstocks	--	--	5	0	0	--	0	--	--	4
Naphtha for Petro. Feed. Use	--	--	5	0	--	--	0	--	--	4
Other Oils for Petro. Feed. Use	--	--	--	0	0	--	--	--	--	0
Special Naphthas	--	--	1	--	--	--	0	--	--	1
Lubricants	--	--	13	6	17	--	0	--	7	29
Waxes	--	--	0	2	--	--	0	--	2	1
Petroleum Coke	--	--	35	5	--	--	--	--	19	21
Marketable	--	--	13	5	--	--	--	--	19	-1
Catalyst	--	--	23	--	--	--	--	--	--	23
Asphalt and Road Oil	--	--	55	25	11	--	-1	--	3	88
Still Gas	--	--	42	--	--	--	--	--	--	42
Miscellaneous Products	--	--	3	--	--	--	0	--	0	2
Total	395	30	3,897	1,901	3,351	133	16	3,852	417	5,424

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

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

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

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

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

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

Table 9. PAD District 2 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, November 2016
(Thousand Barrels)

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	Ending Stocks
Crude Oil	49,633	--	--	76,785	-1,589	-321	7,872	110,228	6,409	0	149,382
Natural Gas Plant Liquids and Liquefied Refinery Gases	23,866	-600	724	2,898	-8,024	--	-4,205	4,371	7,187	11,511	57,670
Pentanes Plus	2,796	-600	--	4	3,987	--	127	603	4,409	1,048	9,354
Liquefied Petroleum Gases	21,070	--	724	2,894	-12,011	--	-4,332	3,768	2,778	10,463	48,316
Ethane/Ethylene	7,432	--	--	--	-2,933	--	566	--	2,422	1,511	5,701
Propane/Propylene	9,110	--	3,348	2,374	-8,221	--	-875	--	61	7,425	26,746
Normal Butane/Butylene	2,863	--	-2,567	433	-919	--	-4,008	2,207	295	1,316	13,814
Isobutane/Isobutylene	1,665	--	-57	87	62	--	-15	1,561	--	211	2,055
Other Liquids	--	30,188	--	338	-14,289	-336	309	15,591	837	-836	63,630
Hydrogen/Oxygenates/Renewables/											
Other Hydrocarbons	--	30,189	--	73	-19,351	-1,447	-123	8,998	589	0	7,653
Hydrogen	--	--	--	--	--	1,083	--	1,083	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	1	--	--	--	-1	--	--	0	0	--
Renewable Fuels (including Fuel Ethanol)	--	30,188	--	62	-19,351	-2,540	-130	7,900	589	0	7,630
Fuel Ethanol	--	27,932	--	--	-19,183	-1,055	-277	7,468	503	0	6,707
Renewable Fuels Except Fuel Ethanol	--	2,256	--	62	-168	-1,485	147	432	85	0	923
Other Hydrocarbons	--	--	--	11	--	11	7	15	--	0	23
Unfinished Oils	--	--	--	--	-913	--	613	-837	147	-836	12,979
Motor Gasoline Blend. Comp. (MGBC)	--	-1	--	265	5,975	1,111	-181	7,430	101	0	42,998
Reformulated	--	--	--	--	1,493	-675	-423	1,241	0	0	6,160
Conventional	--	-1	--	265	4,482	1,786	242	6,189	101	0	36,838
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	102	135,994	724	2,785	1,449	-915	--	2,010	139,959	58,604
Finished Motor Gasoline	--	102	78,116	--	667	-56	785	--	572	77,472	7,001
Reformulated	--	--	10,846	--	--	640	--	--	--	11,486	--
Conventional	--	102	67,270	--	667	-697	785	--	572	65,985	7,001
Finished Aviation Gasoline	--	--	17	--	61	--	-27	--	--	105	140
Kerosene-Type Jet Fuel	--	--	7,372	--	302	--	-278	--	623	7,329	7,178
Kerosene	--	--	93	--	--	--	-3	--	1	95	126
Distillate Fuel Oil	--	--	33,755	47	2,281	1,505	-1,653	--	224	39,017	31,232
15 ppm sulfur and under	--	--	33,797	47	2,144	1,505	-1,786	--	0	39,279	30,072
Greater than 15 ppm to 500 ppm sulfur	--	--	14	--	92	--	105	--	82	-81	394
Greater than 500 ppm sulfur	--	--	-56	--	45	--	28	--	142	-181	766
Residual Fuel Oil ⁶	--	--	1,552	94	-552	--	33	--	164	897	1,328
Less than 0.31 percent sulfur	--	--	99	--	--	--	-3	--	NA	NA	25
0.31 to 1.00 percent sulfur	--	--	199	84	-40	--	59	--	NA	NA	251
Greater than 1.00 percent sulfur	--	--	1,254	10	-512	--	-23	--	NA	NA	1,052
Petrochemical Feedstocks	--	--	904	139	-167	--	-11	--	--	887	625
Naphtha for Petro. Feed. Use	--	--	634	83	-121	--	-31	--	--	627	487
Other Oils for Petro. Feed. Use	--	--	270	56	-46	--	20	--	--	260	138
Special Naphthas	--	--	46	28	34	--	2	--	--	106	156
Lubricants	--	--	257	207	245	--	85	--	172	452	740
Waxes	--	--	34	4	--	--	9	--	25	4	55
Petroleum Coke	--	--	5,527	15	--	--	-24	--	160	5,406	897
Marketable	--	--	4,212	15	--	--	-24	--	160	4,091	897
Catalyst	--	--	1,315	--	--	--	--	--	--	1,315	--
Asphalt and Road Oil	--	--	3,845	190	-96	--	159	--	68	3,712	9,016
Still Gas	--	--	4,013	--	--	--	--	--	--	4,013	--
Miscellaneous Products	--	--	463	--	10	--	8	--	0	465	110
Total	73,499	29,690	136,718	80,745	-21,116	793	3,061	130,190	16,443	150,634	329,286

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

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

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks.

Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

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

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

Table 10. PAD District 2 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-November 2016
(Thousand Barrels)

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	Ending Stocks
Crude Oil	566,513	--	--	789,425	-71,835	-42,919	4,884	1,209,996	26,303	0	149,382
Natural Gas Plant Liquids and Liquefied Refinery Gases	260,788	-6,573	41,642	26,605	-87,734	--	2,983	35,570	93,193	102,982	57,670
Pentanes Plus	31,511	-6,573	--	326	47,563	--	-643	8,123	63,927	1,420	9,354
Liquefied Petroleum Gases	229,277	--	41,642	26,279	-135,297	--	3,626	27,447	29,266	101,562	48,316
Ethane/Ethylene	78,031	--	--	--	-33,904	--	521	--	23,258	20,348	5,701
Propane/Propylene	100,334	--	38,541	21,245	-86,090	--	815	--	2,218	70,997	26,746
Normal Butane/Butylene	32,552	--	4,200	2,856	-16,471	--	2,184	9,800	3,788	7,365	13,814
Isobutane/Isobutylene	18,360	--	-1,099	2,178	1,168	--	106	17,647	2	2,852	2,055
Other Liquids	--	327,230	--	2,733	-98,126	-8,494	-3,580	220,404	9,621	-3,103	63,630
Hydrogen/Oxygenates/Renewables/											
Other Hydrocarbons	--	327,241	--	703	-201,928	-19,493	-359	100,786	6,096	0	7,653
Hydrogen	--	--	--	--	--	11,759	--	11,759	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	6	--	--	--	-2	--	--	4	0	--
Renewable Fuels (including Fuel Ethanol)	--	327,235	--	599	-201,928	-31,538	-340	88,615	6,092	0	7,630
Fuel Ethanol	--	304,373	--	--	-196,895	-19,456	-350	83,486	4,886	0	6,707
Renewable Fuels Except Fuel Ethanol	--	22,862	--	599	-5,033	-12,082	10	5,129	1,206	0	923
Other Hydrocarbons	--	--	--	104	--	289	-19	412	--	0	23
Unfinished Oils	--	--	--	--	-5,720	--	106	-4,371	1,648	-3,103	12,979
Motor Gasoline Blend. Comp. (MGBC)	--	-11	--	2,030	109,522	10,998	-3,327	123,989	1,877	0	42,998
Reformulated	--	--	--	--	27,843	-12,734	31	15,077	1	0	6,160
Conventional	--	-11	--	2,030	81,679	23,733	-3,358	108,912	1,877	0	36,838
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	945	1,498,243	9,041	67,571	20,540	-3,534	--	20,197	1,579,677	58,604
Finished Motor Gasoline	--	945	878,502	65	10,148	8,458	-324	--	3,698	894,743	7,001
Reformulated	--	--	123,976	--	--	13,801	--	--	--	137,777	--
Conventional	--	945	754,526	65	10,148	-5,344	-324	--	3,698	756,966	7,001
Finished Aviation Gasoline	--	--	611	2	291	--	-37	--	--	941	140
Kerosene-Type Jet Fuel	--	--	80,135	5	9,955	--	391	--	4,518	85,186	7,178
Kerosene	--	--	862	1	182	--	-89	--	256	878	126
Distillate Fuel Oil	--	--	343,420	721	52,906	12,082	-662	--	2,619	407,172	31,232
15 ppm sulfur and under	--	--	343,389	436	51,817	12,082	-948	--	687	407,985	30,072
Greater than 15 ppm to 500 ppm sulfur	--	--	740	--	997	--	-109	--	1,355	491	394
Greater than 500 ppm sulfur	--	--	-709	285	92	--	395	--	577	-1,304	766
Residual Fuel Oil ⁶	--	--	17,256	1,108	-8,490	--	35	--	2,734	7,105	1,328
Less than 0.31 percent sulfur	--	--	1,105	--	--	--	22	--	NA	NA	25
0.31 to 1.00 percent sulfur	--	--	2,310	673	-40	--	94	--	NA	NA	251
Greater than 1.00 percent sulfur	--	--	13,841	435	-8,399	--	-81	--	NA	NA	1,052
Petrochemical Feedstocks	--	--	9,727	1,615	-992	--	-130	--	--	10,480	625
Naphtha for Petro. Feed. Use	--	--	7,493	909	-1,007	--	-105	--	--	7,500	487
Other Oils for Petro. Feed. Use	--	--	2,234	706	15	--	-25	--	--	2,980	138
Special Naphthas	--	--	494	520	400	--	3	--	--	1,411	156
Lubricants	--	--	3,032	2,321	2,401	--	71	--	1,919	5,764	740
Waxes	--	--	391	58	--	--	13	--	327	109	55
Petroleum Coke	--	--	63,022	181	--	--	-299	--	2,752	60,750	897
Marketable	--	--	46,844	181	--	--	-299	--	2,752	44,572	897
Catalyst	--	--	16,178	--	--	--	--	--	--	16,178	--
Asphalt and Road Oil	--	--	48,109	2,444	627	--	-2,499	--	1,372	52,307	9,016
Still Gas	--	--	47,520	--	--	--	--	--	--	47,520	--
Miscellaneous Products	--	--	5,162	--	143	--	-7	--	3	5,309	110
Total	827,301	321,602	1,539,885	827,804	-190,125	-30,874	753	1,465,970	149,314	1,679,556	329,286

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

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

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks.

Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

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

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

Table 11. PAD District 2 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, November 2016
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	1,654	--	--	2,560	-53	-11	262	3,674	214	0
Natural Gas Plant Liquids and Liquefied Refinery Gases	796	-20	24	97	-267	--	-140	146	240	384
Pentanes Plus	93	-20	--	0	133	--	4	20	147	35
Liquefied Petroleum Gases	702	--	24	96	-400	--	-144	126	93	349
Ethane/Ethylene	248	--	--	--	-98	--	19	--	81	50
Propane/Propylene	304	--	112	79	-274	--	-29	--	2	248
Normal Butane/Butylene	95	--	-86	14	-31	--	-134	74	10	44
Isobutane/Isobutylene	56	--	-2	3	2	--	-1	52	--	7
Other Liquids	--	1,006	--	11	-476	-11	10	520	28	-28
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,006	--	2	-645	-48	-4	300	20	0
Hydrogen	--	--	--	--	--	36	--	36	--	0
Oxygenates (excluding Fuel Ethanol)	--	0	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	1,006	--	2	-645	-85	-4	263	20	0
Fuel Ethanol	--	931	--	--	-639	-35	-9	249	17	0
Renewable Fuels Except Fuel Ethanol	--	75	--	2	-6	-50	5	14	3	0
Other Hydrocarbons	--	--	--	0	--	0	0	1	--	0
Unfinished Oils	--	--	--	--	-30	--	20	-28	5	-28
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	9	199	37	-6	248	3	0
Reformulated	--	--	--	--	50	-22	-14	41	0	0
Conventional	--	0	--	9	149	60	8	206	3	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	3	4,533	24	93	48	-31	--	67	4,665
Finished Motor Gasoline	--	3	2,604	--	22	-2	26	--	19	2,582
Reformulated	--	--	362	--	--	21	--	--	--	383
Conventional	--	3	2,242	--	22	-23	26	--	19	2,200
Finished Aviation Gasoline	--	--	1	--	2	--	-1	--	--	4
Kerosene-Type Jet Fuel	--	--	246	--	10	--	-9	--	21	244
Kerosene	--	--	3	--	--	--	0	--	0	3
Distillate Fuel Oil	--	--	1,125	2	76	50	-55	--	7	1,301
15 ppm sulfur and under	--	--	1,127	2	71	50	-60	--	0	1,309
Greater than 15 ppm to 500 ppm sulfur	--	--	0	--	3	--	4	--	3	-3
Greater than 500 ppm sulfur	--	--	-2	--	2	--	1	--	5	-6
Residual Fuel Oil ⁶	--	--	52	3	-18	--	1	--	5	30
Less than 0.31 percent sulfur	--	--	3	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	7	3	-1	--	2	--	NA	NA
Greater than 1.00 percent sulfur	--	--	42	0	-17	--	-1	--	NA	NA
Petrochemical Feedstocks	--	--	30	5	-6	--	0	--	--	30
Naphtha for Petro. Feed. Use	--	--	21	3	-4	--	-1	--	--	21
Other Oils for Petro. Feed. Use	--	--	9	2	-2	--	1	--	--	9
Special Naphthas	--	--	2	1	1	--	0	--	--	4
Lubricants	--	--	9	7	8	--	3	--	6	15
Waxes	--	--	1	0	--	--	0	--	1	0
Petroleum Coke	--	--	184	1	--	--	-1	--	5	180
Marketable	--	--	140	1	--	--	-1	--	5	136
Catalyst	--	--	44	--	--	--	--	--	--	44
Asphalt and Road Oil	--	--	128	6	-3	--	5	--	2	124
Still Gas	--	--	134	--	--	--	--	--	--	134
Miscellaneous Products	--	--	15	--	0	--	0	--	0	15
Total	2,450	990	4,557	2,692	-704	26	102	4,340	548	5,021

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

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

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

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

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

Table 12. PAD District 2 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-November 2016
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	1,691	--	--	2,356	-214	-128	15	3,612	79	0
Natural Gas Plant Liquids and Liquefied										
Refinery Gases	778	-20	124	79	-262	--	9	106	278	307
Pentanes Plus	94	-20	--	1	142	--	-2	24	191	4
Liquefied Petroleum Gases	684	--	124	78	-404	--	11	82	87	303
Ethane/Ethylene	233	--	--	--	-101	--	2	--	69	61
Propane/Propylene	300	--	115	63	-257	--	2	--	7	212
Normal Butane/Butylene	97	--	13	9	-49	--	7	29	11	22
Isobutane/Isobutylene	55	--	-3	7	3	--	0	53	0	9
Other Liquids	--	977	--	8	-293	-25	-11	658	29	-9
Hydrogen/Oxygenates/Renewables/										
Other Hydrocarbons	--	977	--	2	-603	-58	-1	301	18	0
Hydrogen	--	--	--	--	--	35	--	35	--	0
Oxygenates (excluding Fuel Ethanol)	--	0	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	977	--	2	-603	-94	-1	265	18	0
Fuel Ethanol	--	909	--	--	-588	-58	-1	249	15	0
Renewable Fuels Except Fuel Ethanol	--	68	--	2	-15	-36	0	15	4	0
Other Hydrocarbons	--	--	--	0	--	1	0	1	--	0
Unfinished Oils	--	--	--	--	-17	--	0	-13	5	-9
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	6	327	33	-10	370	6	0
Reformulated	--	--	--	--	83	-38	0	45	0	0
Conventional	--	0	--	6	244	71	-10	325	6	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	3	4,472	27	202	61	-11	--	60	4,715
Finished Motor Gasoline	--	3	2,622	0	30	25	-1	--	11	2,671
Reformulated	--	--	370	--	--	41	--	--	--	411
Conventional	--	3	2,252	0	30	-16	-1	--	11	2,260
Finished Aviation Gasoline	--	--	2	0	1	--	0	--	--	3
Kerosene-Type Jet Fuel	--	--	239	0	30	--	1	--	13	254
Kerosene	--	--	3	0	1	--	0	--	1	3
Distillate Fuel Oil	--	--	1,025	2	158	36	-2	--	8	1,215
15 ppm sulfur and under	--	--	1,025	1	155	36	-3	--	2	1,218
Greater than 15 ppm to 500 ppm sulfur	--	--	2	--	3	--	0	--	4	1
Greater than 500 ppm sulfur	--	--	-2	1	0	--	1	--	2	-4
Residual Fuel Oil ⁶	--	--	52	3	-25	--	0	--	8	21
Less than 0.31 percent sulfur	--	--	3	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	7	2	0	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	41	1	-25	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	29	5	-3	--	0	--	--	31
Naphtha for Petro. Feed. Use	--	--	22	3	-3	--	0	--	--	22
Other Oils for Petro. Feed. Use	--	--	7	2	0	--	0	--	--	9
Special Naphthas	--	--	1	2	1	--	0	--	--	4
Lubricants	--	--	9	7	7	--	0	--	6	17
Waxes	--	--	1	0	--	--	0	--	1	0
Petroleum Coke	--	--	188	1	--	--	-1	--	8	181
Marketable	--	--	140	1	--	--	-1	--	8	133
Catalyst	--	--	48	--	--	--	--	--	--	48
Asphalt and Road Oil	--	--	144	7	2	--	-7	--	4	156
Still Gas	--	--	142	--	--	--	--	--	--	142
Miscellaneous Products	--	--	15	--	0	--	0	--	0	16
Total	2,470	960	4,597	2,471	-568	-92	2	4,376	446	5,014

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

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

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

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

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

Table 13. PAD District 3 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, November 2016
(Thousand Barrels)

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	Ending Stocks
Crude Oil⁶	165,928	--	--	96,629	4,105	-2,394	-5,439	258,994	10,713	0	944,100
Natural Gas Plant Liquids and Liquefied Refinery Gases	59,126	-18	9,168	--	18,697	--	-3,773	10,432	27,601	52,713	157,395
Pentanes Plus	6,376	-18	--	--	-2,595	--	389	2,420	40	914	15,697
Liquefied Petroleum Gases	52,750	--	9,168	--	21,292	--	-4,162	8,012	27,562	51,798	141,698
Ethane/Ethylene	25,082	--	107	--	10,080	--	3,079	--	--	32,190	48,766
Propane/Propylene	17,892	--	11,517	--	8,991	--	-615	--	23,425	15,590	63,237
Normal Butane/Butylene	4,115	--	-2,145	--	1,572	--	-6,162	4,100	4,049	1,555	24,954
Isobutane/Isobutylene	5,661	--	-311	--	649	--	-464	3,912	87	2,464	4,741
Other Liquids	--	3,725	--	14,246	-43,977	-8,556	928	-48,881	12,330	1,062	121,201
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	3,725	--	1,132	5,639	2,182	-406	8,836	4,248	0	5,920
Hydrogen	--	--	--	--	--	3,862	--	3,862	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	2,291	--	422	--	-568	168	62	1,915	0	1,224
Renewable Fuels (including Fuel Ethanol)	--	1,434	--	709	5,639	-1,112	-574	4,912	2,332	0	4,696
Fuel Ethanol	--	780	--	--	5,725	-281	-439	4,360	2,303	0	3,147
Renewable Fuels Except Fuel Ethanol	--	654	--	709	-86	-830	-135	552	30	0	1,549
Other Hydrocarbons	--	--	--	1	--	-1	--	--	--	0	--
Unfinished Oils	--	--	--	11,798	968	--	-2,455	8,254	5,896	1,071	42,632
Motor Gasoline Blend. Comp. (MGBC)	--	--	--	1,316	-50,584	-10,737	3,785	-65,976	2,186	0	72,632
Reformulated	--	--	--	--	-9,999	2,478	286	-7,808	1	0	11,175
Conventional	--	--	--	1,316	-40,585	-13,215	3,499	-58,168	2,185	0	61,457
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	4	5	--	-9	17
Finished Petroleum Products	--	--	230,148	6,331	-47,815	12,072	7,086	--	77,464	116,186	116,143
Finished Motor Gasoline	--	--	68,573	--	-7,974	11,019	-422	--	23,246	48,793	9,898
Reformulated	--	--	13,694	--	--	-2,577	--	--	--	11,117	--
Conventional	--	--	54,879	--	-7,974	13,595	-422	--	23,246	37,676	9,898
Finished Aviation Gasoline	--	--	288	--	-900	--	54	--	--	-666	365
Kerosene-Type Jet Fuel	--	--	27,197	--	-14,716	--	-986	--	3,992	9,475	15,064
Kerosene	--	--	-65	--	--	--	-111	--	249	-203	265
Distillate Fuel Oil	--	--	83,408	693	-23,874	1,053	5,886	--	31,174	24,221	44,144
15 ppm sulfur and under	--	--	75,645	--	-21,588	1,053	5,262	--	28,166	21,683	37,294
Greater than 15 ppm to 500 ppm sulfur	--	--	2,453	--	-283	--	439	--	2,165	-434	1,608
Greater than 500 ppm sulfur	--	--	5,310	693	-2,003	--	185	--	843	2,972	5,242
Residual Fuel Oil ⁷	--	--	7,613	3,189	552	--	2,044	--	6,282	3,028	24,585
Less than 0.31 percent sulfur	--	--	996	723	--	--	366	--	NA	NA	2,166
0.31 to 1.00 percent sulfur	--	--	838	409	40	--	-36	--	NA	NA	5,507
Greater than 1.00 percent sulfur	--	--	5,779	2,057	512	--	1,714	--	NA	NA	16,912
Petrochemical Feedstocks	--	--	7,491	1,099	167	--	147	--	--	8,610	2,489
Naphtha for Petro. Feed. Use	--	--	4,714	1,087	121	--	45	--	--	5,877	1,356
Other Oils for Petro. Feed. Use	--	--	2,777	12	46	--	102	--	--	2,733	1,133
Special Naphthas	--	--	830	513	-34	--	6	--	--	1,303	1,099
Lubricants	--	--	4,306	679	-780	--	403	--	1,804	1,998	9,635
Waxes	--	--	107	2	--	--	-1	--	34	76	246
Petroleum Coke	--	--	15,819	156	--	--	121	--	10,417	5,437	3,322
Marketable	--	--	12,219	156	--	--	121	--	10,417	1,837	3,322
Catalyst	--	--	3,600	--	--	--	--	--	--	3,600	--
Asphalt and Road Oil	--	--	2,072	--	-246	--	13	--	261	1,552	4,464
Still Gas	--	--	10,804	--	--	--	--	--	--	10,804	--
Miscellaneous Products	--	--	1,705	--	-10	--	-68	--	4	1,759	567
Total	225,054	3,707	239,316	117,206	-68,991	1,122	-1,198	220,545	128,107	169,961	1,338,839

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

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

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

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

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

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

Table 14. PAD District 3 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-November 2016
(Thousand Barrels)

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	Ending Stocks
Crude Oil⁶	1,832,194	--	--	1,058,186	79,090	4,499	34,218	2,845,669	94,082	0	944,100
Natural Gas Plant Liquids and Liquefied Refinery Gases	648,087	-201	140,838	3,129	207,824	--	31,634	95,770	263,313	608,960	157,395
Pentanes Plus	72,836	-201	--	2,878	-32,268	--	5,714	29,525	683	7,323	15,697
Liquefied Petroleum Gases	575,251	--	140,838	251	240,092	--	25,920	66,245	262,630	601,637	141,698
Ethane/Ethylene	265,188	--	1,254	--	104,772	--	20,568	--	681	349,965	48,766
Propane/Propylene	199,835	--	125,909	--	100,284	--	2,237	--	233,777	190,014	63,237
Normal Butane/Butylene	41,930	--	15,993	251	28,102	--	4,058	26,823	26,182	29,213	24,954
Isobutane/Isobutylene	68,298	--	-2,318	--	6,934	--	-943	39,422	1,991	32,444	4,741
Other Liquids	--	39,679	--	184,394	-593,122	-1,391	1,671	-524,679	132,502	20,066	121,201
Hydrogen/Oxygenates/Renewables/	--	--	--	--	--	--	--	--	--	--	--
Other Hydrocarbons	--	39,679	--	9,186	48,520	40,594	-382	98,661	39,701	0	5,920
Hydrogen	--	--	--	--	--	43,680	--	43,680	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	24,549	--	3,690	--	-2,984	297	967	23,991	0	1,224
Renewable Fuels (including Fuel Ethanol)	--	15,130	--	5,411	48,520	-16	-679	54,014	15,710	0	4,696
Fuel Ethanol	--	8,906	--	94	48,086	5,663	-1,199	48,652	15,296	0	3,147
Renewable Fuels Except Fuel Ethanol	--	6,224	--	5,317	434	-5,680	520	5,362	414	0	1,549
Other Hydrocarbons	--	--	--	85	--	-85	--	--	--	0	--
Unfinished Oils	--	--	--	159,709	6,039	--	2,900	86,533	56,191	20,124	42,632
Motor Gasoline Blend. Comp. (MGBC)	--	--	--	15,499	-647,681	-41,986	-856	-709,922	36,610	0	72,632
Reformulated	--	--	--	638	-142,709	33,228	-587	-108,295	39	0	11,175
Conventional	--	--	--	14,861	-504,972	-75,214	-269	-601,627	36,571	0	61,457
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	9	49	--	-58	17
Finished Petroleum Products	--	--	2,482,751	52,605	-577,210	44,181	-5,201	--	813,717	1,193,811	116,143
Finished Motor Gasoline	--	--	742,026	808	-86,487	36,322	-1,183	--	181,818	512,035	9,898
Reformulated	--	--	153,702	--	-44	-40,335	--	--	--	113,323	--
Conventional	--	--	588,324	808	-86,443	76,657	-1,183	--	181,818	398,711	9,898
Finished Aviation Gasoline	--	--	2,482	--	-6,055	--	-5	--	--	-3,568	365
Kerosene-Type Jet Fuel	--	--	285,360	--	-166,743	--	749	--	45,261	72,607	15,064
Kerosene	--	--	2,642	--	-182	--	-61	--	2,664	-143	265
Distillate Fuel Oil	--	--	902,833	3,589	-314,092	7,859	-2,093	--	341,418	260,863	44,144
15 ppm sulfur and under	--	--	820,705	216	-290,004	7,859	-2,455	--	297,614	243,617	37,294
Greater than 15 ppm to 500 ppm sulfur	--	--	32,383	313	-4,125	--	-533	--	28,600	504	1,608
Greater than 500 ppm sulfur	--	--	49,745	3,060	-19,963	--	895	--	15,205	16,742	5,242
Residual Fuel Oil ⁷	--	--	67,600	25,433	7,886	--	-463	--	72,639	28,743	24,585
Less than 0.31 percent sulfur	--	--	10,207	1,935	245	--	-159	--	NA	NA	2,166
0.31 to 1.00 percent sulfur	--	--	5,081	4,426	40	--	3,024	--	NA	NA	5,507
Greater than 1.00 percent sulfur	--	--	52,312	19,072	7,601	--	-3,328	--	NA	NA	16,912
Petrochemical Feedstocks	--	--	85,704	8,617	1,143	--	137	--	--	95,327	2,489
Naphtha for Petro. Feed. Use	--	--	54,975	7,524	1,007	--	25	--	--	63,481	1,356
Other Oils for Petro. Feed. Use	--	--	30,729	1,093	136	--	112	--	--	31,846	1,133
Special Naphthas	--	--	10,582	4,243	-400	--	8	--	--	14,417	1,099
Lubricants	--	--	43,441	8,495	-7,986	--	-930	--	19,651	25,229	9,635
Waxes	--	--	1,156	255	--	--	16	--	177	1,218	246
Petroleum Coke	--	--	170,891	1,063	--	--	-240	--	145,711	26,483	3,322
Marketable	--	--	130,328	1,063	--	--	-240	--	145,711	-14,080	3,322
Catalyst	--	--	40,563	--	--	--	--	--	--	40,563	--
Asphalt and Road Oil	--	--	26,313	102	-4,151	--	-1,164	--	4,119	19,309	4,464
Still Gas	--	--	122,885	--	--	--	--	--	--	122,885	--
Miscellaneous Products	--	--	18,836	--	-143	--	28	--	260	18,405	567
Total	2,480,281	39,478	2,623,589	1,298,314	-883,418	47,288	62,322	2,416,760	1,303,613	1,822,837	1,338,839

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

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

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

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

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

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

Table 15. PAD District 3 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, November 2016
(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	5,531	--	--	3,221	137	-80	-181	8,633	357	0
Natural Gas Plant Liquids and Liquefied										
Refinery Gases	1,971	-1	306	--	623	--	-126	348	920	1,757
Pentanes Plus	213	-1	--	--	-87	--	13	81	1	30
Liquefied Petroleum Gases	1,758	--	306	--	710	--	-139	267	919	1,727
Ethane/Ethylene	836	--	4	--	336	--	103	--	--	1,073
Propane/Propylene	596	--	384	--	300	--	-21	--	781	520
Normal Butane/Butylene	137	--	-72	--	52	--	-205	137	135	52
Isobutane/Isobutylene	189	--	-10	--	22	--	-15	130	3	82
Other Liquids	--	124	--	475	-1,466	-285	31	-1,629	411	35
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	124	--	38	188	73	-14	295	142	0
Hydrogen	--	--	--	--	--	129	--	129	--	0
Oxygenates (excluding Fuel Ethanol)	--	76	--	14	--	-19	6	2	64	0
Renewable Fuels (including Fuel Ethanol)	--	48	--	24	188	-37	-19	164	78	0
Fuel Ethanol	--	26	--	--	191	-9	-15	145	77	0
Renewable Fuels Except Fuel Ethanol	--	22	--	24	-3	-28	-5	18	1	0
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	393	32	--	-82	275	197	36
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	44	-1,686	-358	126	-2,199	73	0
Reformulated	--	--	--	--	-333	83	10	-260	0	0
Conventional	--	--	--	44	-1,353	-441	117	-1,939	73	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	--	7,672	211	-1,594	402	236	--	2,582	3,873
Finished Motor Gasoline	--	--	2,286	--	-266	367	-14	--	775	1,626
Reformulated	--	--	456	--	--	-86	--	--	--	371
Conventional	--	--	1,829	--	-266	453	-14	--	775	1,256
Finished Aviation Gasoline	--	--	10	--	-30	--	2	--	--	-22
Kerosene-Type Jet Fuel	--	--	907	--	-491	--	-33	--	133	316
Kerosene	--	--	-2	--	--	--	-4	--	8	-7
Distillate Fuel Oil	--	--	2,780	23	-796	35	196	--	1,039	807
15 ppm sulfur and under	--	--	2,522	--	-720	35	175	--	939	723
Greater than 15 ppm to 500 ppm sulfur	--	--	82	--	-9	--	15	--	72	-14
Greater than 500 ppm sulfur	--	--	177	23	-67	--	6	--	28	99
Residual Fuel Oil ⁷	--	--	254	106	18	--	68	--	209	101
Less than 0.31 percent sulfur	--	--	33	24	--	--	12	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	28	14	1	--	-1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	193	69	17	--	57	--	NA	NA
Petrochemical Feedstocks	--	--	250	37	6	--	5	--	--	287
Naphtha for Petro. Feed. Use	--	--	157	36	4	--	2	--	--	196
Other Oils for Petro. Feed. Use	--	--	93	0	2	--	3	--	--	91
Special Naphthas	--	--	28	17	-1	--	0	--	--	43
Lubricants	--	--	144	23	-26	--	13	--	60	67
Waxes	--	--	4	0	--	--	0	--	1	3
Petroleum Coke	--	--	527	5	--	--	4	--	347	181
Marketable	--	--	407	5	--	--	4	--	347	61
Catalyst	--	--	120	--	--	--	--	--	--	120
Asphalt and Road Oil	--	--	69	--	-8	--	0	--	9	52
Still Gas	--	--	360	--	--	--	--	--	--	360
Miscellaneous Products	--	--	57	--	0	--	-2	--	0	59
Total	7,502	124	7,977	3,907	-2,300	37	-40	7,352	4,270	5,665

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

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

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

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

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

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

Table 16. PAD District 3 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-November 2016
(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	5,469	--	--	3,159	236	13	102	8,495	281	0
Natural Gas Plant Liquids and Liquefied Refinery Gases	1,935	-1	420	9	620	--	94	286	786	1,818
Pentanes Plus	217	-1	--	9	-96	--	17	88	2	22
Liquefied Petroleum Gases	1,717	--	420	1	717	--	77	198	784	1,796
Ethane/Ethylene	792	--	4	--	313	--	61	--	2	1,045
Propane/Propylene	597	--	376	--	299	--	7	--	698	567
Normal Butane/Butylene	125	--	48	1	84	--	12	80	78	87
Isobutane/Isobutylene	204	--	-7	--	21	--	-3	118	6	97
Other Liquids	--	118	--	550	-1,771	-4	5	-1,566	396	60
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	118	--	27	145	121	-1	295	119	0
Hydrogen	--	--	--	--	--	130	--	130	--	0
Oxygenates (excluding Fuel Ethanol)	--	73	--	11	--	-9	1	3	72	0
Renewable Fuels (including Fuel Ethanol)	--	45	--	16	145	0	-2	161	47	0
Fuel Ethanol	--	27	--	0	144	17	-4	145	46	0
Renewable Fuels Except Fuel Ethanol	--	19	--	16	1	-17	2	16	1	0
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	477	18	--	9	258	168	60
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	46	-1,933	-125	-3	-2,119	109	0
Reformulated	--	--	--	2	-426	99	-2	-323	0	0
Conventional	--	--	--	44	-1,507	-225	-1	-1,796	109	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	--	7,411	157	-1,723	132	-16	--	2,429	3,564
Finished Motor Gasoline	--	--	2,215	2	-258	108	-4	--	543	1,528
Reformulated	--	--	459	--	0	-120	--	--	--	338
Conventional	--	--	1,756	2	-258	229	-4	--	543	1,190
Finished Aviation Gasoline	--	--	7	--	-18	--	0	--	--	-11
Kerosene-Type Jet Fuel	--	--	852	--	-498	--	2	--	135	217
Kerosene	--	--	8	--	-1	--	0	--	8	0
Distillate Fuel Oil	--	--	2,695	11	-938	23	-6	--	1,019	779
15 ppm sulfur and under	--	--	2,450	1	-866	23	-7	--	888	727
Greater than 15 ppm to 500 ppm sulfur	--	--	97	1	-12	--	-2	--	85	2
Greater than 500 ppm sulfur	--	--	148	9	-60	--	3	--	45	50
Residual Fuel Oil ⁷	--	--	202	76	24	--	-1	--	217	86
Less than 0.31 percent sulfur	--	--	30	6	1	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	15	13	0	--	9	--	NA	NA
Greater than 1.00 percent sulfur	--	--	156	57	23	--	-10	--	NA	NA
Petrochemical Feedstocks	--	--	256	26	3	--	0	--	--	285
Naphtha for Petro. Feed. Use	--	--	164	22	3	--	0	--	--	189
Other Oils for Petro. Feed. Use	--	--	92	3	0	--	0	--	--	95
Special Naphthas	--	--	32	13	-1	--	0	--	--	43
Lubricants	--	--	130	25	-24	--	-3	--	59	75
Waxes	--	--	3	1	--	--	0	--	1	4
Petroleum Coke	--	--	510	3	--	--	-1	--	435	79
Marketable	--	--	389	3	--	--	-1	--	435	-42
Catalyst	--	--	121	--	--	--	--	--	--	121
Asphalt and Road Oil	--	--	79	0	-12	--	-3	--	12	58
Still Gas	--	--	367	--	--	--	--	--	--	367
Miscellaneous Products	--	--	56	--	0	--	0	--	1	55
Total	7,404	118	7,832	3,876	-2,637	141	186	7,214	3,891	5,441

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

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

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

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

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

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

Table 17. PAD District 4 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, November 2016
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	19,278	--	--	12,030	-10,805	-1,860	-196	18,783	57	0	23,958
Natural Gas Plant Liquids and Liquefied Refinery Gases	11,647	-9	267	297	-10,116	--	-370	767	372	1,317	3,982
Pentanes Plus	1,837	-9	--	--	-1,382	--	6	189	370	-119	307
Liquefied Petroleum Gases	9,810	--	267	297	-8,734	--	-376	578	2	1,436	3,675
Ethane/Ethylene	3,162	--	--	--	-2,694	--	3	--	--	465	452
Propane/Propylene	4,231	--	295	296	-3,791	--	-42	--	2	1,071	1,505
Normal Butane/Butylene	1,665	--	-54	--	-1,448	--	-357	367	--	153	1,450
Isobutane/Isobutylene	752	--	26	1	-801	--	20	211	--	-253	268
Other Liquids	--	418	--	26	218	-669	143	-223	29	44	8,685
Hydrogen/Oxygenates/Renewables/	--	--	--	--	--	--	--	--	--	--	--
Other Hydrocarbons	--	418	--	6	418	293	-12	1,142	5	0	369
Hydrogen	--	--	--	--	--	215	--	215	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	418	--	6	418	78	-12	927	5	0	369
Fuel Ethanol	--	418	--	--	402	58	-12	885	5	0	357
Renewable Fuels Except Fuel Ethanol	--	--	--	6	16	20	0	42	0	0	12
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	-265	198	23	44	2,670
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	20	-200	-962	420	-1,563	1	0	5,646
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	-200	-962	420	-1,563	1	0	5,646
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	20,016	54	273	884	1,238	--	32	19,957	8,997
Finished Motor Gasoline	--	--	9,333	--	-415	904	381	--	1	9,440	2,450
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	9,333	--	-415	904	381	--	1	9,440	2,450
Finished Aviation Gasoline	--	--	5	--	--	--	0	--	--	5	8
Kerosene-Type Jet Fuel	--	--	898	--	830	--	111	--	--	1,617	762
Kerosene	--	--	--	--	--	--	0	--	--	0	1
Distillate Fuel Oil	--	--	6,686	8	-142	-20	574	--	--	5,958	4,250
15 ppm sulfur and under	--	--	6,607	8	-142	-20	539	--	--	5,914	4,012
Greater than 15 ppm to 500 ppm sulfur	--	--	81	--	--	--	37	--	--	44	196
Greater than 500 ppm sulfur	--	--	-2	--	--	--	-2	--	--	0	42
Residual Fuel Oil ⁶	--	--	381	--	--	--	28	--	12	341	227
Less than 0.31 percent sulfur	--	--	252	--	--	--	18	--	NA	NA	35
0.31 to 1.00 percent sulfur	--	--	11	--	--	--	-3	--	NA	NA	4
Greater than 1.00 percent sulfur	--	--	118	--	--	--	13	--	NA	NA	188
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	14	-14	--
Waxes	--	--	--	--	--	--	--	--	0	0	--
Petroleum Coke	--	--	836	--	--	--	72	--	0	764	181
Marketable	--	--	588	--	--	--	72	--	0	516	181
Catalyst	--	--	248	--	--	--	--	--	--	248	--
Asphalt and Road Oil	--	--	1,047	44	--	--	75	--	6	1,010	1,099
Still Gas	--	--	732	--	--	--	--	--	--	732	--
Miscellaneous Products	--	--	98	2	--	--	-3	--	--	103	19
Total	30,925	409	20,283	12,407	-20,430	-1,645	815	19,327	490	21,317	45,622

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

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

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

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

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

Table 18. PAD District 4 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-November 2016
(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	221,937	--	--	109,503	-121,900	-2,522	4,272	200,215	2,531	0	23,958
Natural Gas Plant Liquids and Liquefied Refinery Gases	121,942	-106	4,691	3,365	-109,154	--	360	6,475	1,774	12,129	3,982
Pentanes Plus	19,774	-106	--	--	-15,264	--	-3	1,957	1,331	1,119	307
Liquefied Petroleum Gases	102,168	--	4,691	3,365	-93,890	--	363	4,518	443	11,010	3,675
Ethane/Ethylene	30,705	--	--	--	-28,362	--	20	--	--	2,323	452
Propane/Propylene	45,475	--	3,091	3,179	-41,085	--	-14	--	24	10,650	1,505
Normal Butane/Butylene	17,872	--	1,405	6	-15,623	--	424	2,235	419	582	1,450
Isobutane/Isobutylene	8,116	--	195	180	-8,820	--	-67	2,283	--	-2,545	268
Other Liquids	--	4,594	--	832	5,183	-6,914	-604	2,558	497	1,243	8,685
Hydrogen/Oxygenates/Renewables/	--	--	--	--	--	--	--	--	--	--	--
Other Hydrocarbons	--	4,594	--	192	4,263	3,997	18	12,927	100	0	369
Hydrogen	--	--	--	--	--	2,269	--	2,269	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0	--
Renewable Fuels (including Fuel Ethanol)	--	4,594	--	138	4,263	1,781	18	10,658	100	0	369
Fuel Ethanol	--	4,594	--	--	3,861	1,657	19	10,074	19	0	357
Renewable Fuels Except Fuel Ethanol	--	--	--	138	402	124	-1	584	81	0	12
Other Hydrocarbons	--	--	--	54	--	-54	--	--	--	0	--
Unfinished Oils	--	--	--	--	--	--	-844	-788	389	1,243	2,670
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	640	920	-10,911	222	-9,581	8	0	5,646
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	920	-10,911	222	-9,581	8	0	5,646
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	214,619	532	593	9,129	-94	--	702	224,265	8,997
Finished Motor Gasoline	--	--	105,241	--	-4,533	9,254	158	--	11	109,793	2,450
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	105,241	--	-4,533	9,254	158	--	11	109,793	2,450
Finished Aviation Gasoline	--	--	51	8	--	--	2	--	--	57	8
Kerosene-Type Jet Fuel	--	--	11,512	14	6,782	--	167	--	0	18,141	762
Kerosene	--	--	1	--	--	--	-1	--	--	2	1
Distillate Fuel Oil	--	--	65,634	49	-1,656	-124	-66	--	35	63,934	4,250
15 ppm sulfur and under	--	--	65,309	49	-1,656	-124	-31	--	0	63,609	4,012
Greater than 15 ppm to 500 ppm sulfur	--	--	368	--	--	--	9	--	35	324	196
Greater than 500 ppm sulfur	--	--	-43	--	--	--	-44	--	--	1	42
Residual Fuel Oil ⁶	--	--	3,400	--	--	--	-11	--	460	2,951	227
Less than 0.31 percent sulfur	--	--	1,890	--	--	--	28	--	NA	NA	35
0.31 to 1.00 percent sulfur	--	--	232	--	--	--	-3	--	NA	NA	4
Greater than 1.00 percent sulfur	--	--	1,278	--	--	--	-36	--	NA	NA	188
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	119	-119	--
Waxes	--	--	--	--	--	--	--	--	2	-2	--
Petroleum Coke	--	--	8,393	--	--	--	88	--	2	8,303	181
Marketable	--	--	5,790	--	--	--	88	--	2	5,700	181
Catalyst	--	--	2,603	--	--	--	--	--	--	2,603	--
Asphalt and Road Oil	--	--	11,602	448	--	--	-432	--	72	12,410	1,099
Still Gas	--	--	7,730	--	--	--	--	--	--	7,730	--
Miscellaneous Products	--	--	1,055	13	--	--	1	--	0	1,067	19
Total	343,879	4,488	219,310	114,232	-225,278	-306	3,934	209,248	5,505	237,637	45,622

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

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

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

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

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

Table 19. PAD District 4 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, November 2016
(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	643	--	--	401	-360	-62	-7	626	2	0
Natural Gas Plant Liquids and Liquefied										
Refinery Gases	388	0	9	10	-337	--	-12	26	12	44
Pentanes Plus	61	0	--	--	-46	--	0	6	12	-4
Liquefied Petroleum Gases	327	--	9	10	-291	--	-13	19	0	48
Ethane/Ethylene	105	--	--	--	-90	--	0	--	--	16
Propane/Propylene	141	--	10	10	-126	--	-1	--	0	36
Normal Butane/Butylene	56	--	-2	--	-48	--	-12	12	--	5
Isobutane/Isobutylene	25	--	1	0	-27	--	1	7	--	-8
Other Liquids	--	14	--	1	7	-22	5	-7	1	1
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	14	--	0	14	10	0	38	0	0
Hydrogen	--	--	--	--	--	7	--	7	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	14	--	0	14	3	0	31	0	0
Fuel Ethanol	--	14	--	--	13	2	0	30	0	0
Renewable Fuels Except Fuel Ethanol	--	--	--	0	1	1	0	1	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	-9	7	1	1
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	1	-7	-32	14	-52	0	0
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	-7	-32	14	-52	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	667	2	9	29	41	--	1	665
Finished Motor Gasoline	--	--	311	--	-14	30	13	--	0	315
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	311	--	-14	30	13	--	0	315
Finished Aviation Gasoline	--	--	0	--	--	--	0	--	--	0
Kerosene-Type Jet Fuel	--	--	30	--	28	--	4	--	--	54
Kerosene	--	--	--	--	--	--	0	--	--	0
Distillate Fuel Oil	--	--	223	0	-5	-1	19	--	--	199
15 ppm sulfur and under	--	--	220	0	-5	-1	18	--	--	197
Greater than 15 ppm to 500 ppm sulfur	--	--	3	--	--	--	1	--	--	1
Greater than 500 ppm sulfur	--	--	0	--	--	--	0	--	--	0
Residual Fuel Oil ⁶	--	--	13	--	--	--	1	--	0	11
Less than 0.31 percent sulfur	--	--	8	--	--	--	1	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	0	--	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	4	--	--	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	0	0
Waxes	--	--	--	--	--	--	--	--	0	0
Petroleum Coke	--	--	28	--	--	--	2	--	0	25
Marketable	--	--	20	--	--	--	2	--	0	17
Catalyst	--	--	8	--	--	--	--	--	--	8
Asphalt and Road Oil	--	--	35	1	--	--	3	--	0	34
Still Gas	--	--	24	--	--	--	--	--	--	24
Miscellaneous Products	--	--	3	0	--	--	0	--	--	3
Total	1,031	14	676	414	-681	-55	27	644	16	711

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

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

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

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

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

Table 20. PAD District 4 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-November 2016
(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	662	--	--	327	-364	-8	13	598	8	0
Natural Gas Plant Liquids and Liquefied										
Refinery Gases	364	0	14	10	-326	--	1	19	5	36
Pentanes Plus	59	0	--	--	-46	--	0	6	4	3
Liquefied Petroleum Gases	305	--	14	10	-280	--	1	13	1	33
Ethane/Ethylene	92	--	--	--	-85	--	0	--	--	7
Propane/Propylene	136	--	9	9	-123	--	0	--	0	32
Normal Butane/Butylene	53	--	4	0	-47	--	1	7	1	2
Isobutane/Isobutylene	24	--	1	1	-26	--	0	7	--	-8
Other Liquids	--	14	--	2	15	-21	-2	8	1	4
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	14	--	1	13	12	0	39	0	0
Hydrogen	--	--	--	--	--	7	--	7	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	14	--	0	13	5	0	32	0	0
Fuel Ethanol	--	14	--	--	12	5	0	30	0	0
Renewable Fuels Except Fuel Ethanol	--	--	--	0	1	0	0	2	0	0
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	--	--	--	-3	-2	1	4
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	2	3	-33	1	-29	0	0
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	3	-33	1	-29	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	641	2	2	27	0	--	2	669
Finished Motor Gasoline	--	--	314	--	-14	28	0	--	0	328
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	314	--	-14	28	0	--	0	328
Finished Aviation Gasoline	--	--	0	0	--	--	0	--	--	0
Kerosene-Type Jet Fuel	--	--	34	0	20	--	0	--	0	54
Kerosene	--	--	0	--	--	--	0	--	--	0
Distillate Fuel Oil	--	--	196	0	-5	0	0	--	0	191
15 ppm sulfur and under	--	--	195	0	-5	0	0	--	0	190
Greater than 15 ppm to 500 ppm sulfur	--	--	1	--	--	--	0	--	0	1
Greater than 500 ppm sulfur	--	--	0	--	--	--	0	--	--	0
Residual Fuel Oil ⁶	--	--	10	--	--	--	0	--	1	9
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	--	--	4	--	--	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	0	0
Waxes	--	--	--	--	--	--	--	--	0	0
Petroleum Coke	--	--	25	--	--	--	0	--	0	25
Marketable	--	--	17	--	--	--	0	--	0	17
Catalyst	--	--	8	--	--	--	--	--	--	8
Asphalt and Road Oil	--	--	35	1	--	--	-1	--	0	37
Still Gas	--	--	23	--	--	--	--	--	--	23
Miscellaneous Products	--	--	3	0	--	--	0	--	0	3
Total	1,027	13	655	341	-672	-1	12	625	16	709

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

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

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

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

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

Table 21. PAD District 5 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, November 2016
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	30,976	--	--	29,208	3,944	2,233	1,342	65,019	--	0	52,121
Natural Gas Plant Liquids and Liquefied Refinery Gases	2,025	-11	17	1,124	846	--	-1,414	3,396	1,752	267	6,168
Pentanes Plus	1,020	-11	--	--	--	--	-21	899	28	103	36
Liquefied Petroleum Gases	1,005	--	17	1,124	846	--	-1,393	2,497	1,724	164	6,132
Ethane/Ethylene	1	--	--	--	--	--	--	--	--	1	--
Propane/Propylene	264	--	1,365	915	294	--	-191	--	1,510	1,519	2,137
Normal Butane/Butylene	383	--	-1,327	187	427	--	-1,200	1,681	214	-1,025	3,535
Isobutane/Isobutylene	357	--	-21	22	125	--	-2	816	0	-331	460
Other Liquids	--	872	--	3,894	9,428	-642	1,768	13,370	303	-1,889	50,933
Hydrogen/Oxygenates/Renewables/	--	--	--	--	--	--	--	--	--	--	--
Other Hydrocarbons	--	872	--	591	4,459	808	252	6,434	44	0	4,057
Hydrogen	--	--	--	--	--	1,158	--	1,158	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	1	--	--	1	0	--
Renewable Fuels (including Fuel Ethanol)	--	872	--	591	4,459	-350	252	5,276	44	0	4,057
Fuel Ethanol	--	567	--	--	4,261	103	260	4,642	30	0	2,742
Renewable Fuels Except Fuel Ethanol	--	305	--	591	198	-454	-8	634	14	0	1,315
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	2,877	--	--	148	4,526	92	-1,889	19,687
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	426	4,969	-1,450	1,368	2,410	167	0	27,189
Reformulated	--	--	--	--	2,351	37	1,881	506	1	0	13,662
Conventional	--	--	--	426	2,618	-1,488	-513	1,904	165	0	13,527
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	87,302	5,971	932	1,566	294	--	7,933	87,544	32,602
Finished Motor Gasoline	--	--	47,226	19	331	1,347	300	--	1,001	47,622	2,690
Reformulated	--	--	33,012	--	--	-243	2	--	--	32,767	20
Conventional	--	--	14,214	19	331	1,590	298	--	1,001	14,855	2,670
Finished Aviation Gasoline	--	--	89	--	--	--	58	--	--	31	286
Kerosene-Type Jet Fuel	--	--	12,057	3,683	235	--	-352	--	1,100	15,227	8,999
Kerosene	--	--	15	--	--	--	2	--	3	10	46
Distillate Fuel Oil	--	--	16,565	188	370	219	1,269	--	2,363	13,709	13,031
15 ppm sulfur and under	--	--	15,949	187	370	219	1,424	--	1,045	14,255	11,991
Greater than 15 ppm to 500 ppm sulfur	--	--	239	--	--	--	-31	--	494	-224	187
Greater than 500 ppm sulfur	--	--	377	1	--	--	-124	--	825	-323	853
Residual Fuel Oil ⁶	--	--	2,409	1,951	--	--	-662	--	828	4,194	3,851
Less than 0.31 percent sulfur	--	--	--	--	--	--	-10	--	NA	NA	231
0.31 to 1.00 percent sulfur	--	--	793	--	--	--	-49	--	NA	NA	449
Greater than 1.00 percent sulfur	--	--	1,616	1,951	--	--	-603	--	NA	NA	3,165
Petrochemical Feedstocks	--	--	3	--	--	--	-2	--	--	5	3
Naphtha for Petro. Feed. Use	--	--	3	--	--	--	-2	--	--	5	3
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	36	--	--	--	-15	--	--	51	44
Lubricants	--	--	97	29	-4	--	-134	--	103	153	825
Waxes	--	--	--	14	--	--	--	--	4	10	--
Petroleum Coke	--	--	4,295	32	--	--	-325	--	2,492	2,160	1,157
Marketable	--	--	3,276	32	--	--	-325	--	2,492	1,141	1,157
Catalyst	--	--	1,019	--	--	--	--	--	--	1,019	--
Asphalt and Road Oil	--	--	746	55	--	--	151	--	38	612	1,588
Still Gas	--	--	3,372	--	--	--	--	--	--	3,372	--
Miscellaneous Products	--	--	392	--	--	--	4	--	0	388	82
Total	33,001	861	87,319	40,197	15,150	3,157	1,990	81,785	9,988	85,922	141,824

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

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

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

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

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

Table 22. PAD District 5 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-November 2016
(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	341,855	--	--	391,912	43,313	13,778	-2,023	789,571	3,311	0	52,121
Natural Gas Plant Liquids and Liquefied Refinery Gases	21,062	-145	20,533	5,745	8,347	--	1,235	25,292	13,871	15,144	6,168
Pentanes Plus	9,873	-145	--	--	--	--	-8	8,256	168	1,312	36
Liquefied Petroleum Gases	11,189	--	20,533	5,745	8,347	--	1,243	17,036	13,703	13,832	6,132
Ethane/Ethylene	19	--	--	--	--	--	--	--	--	19	--
Propane/Propylene	3,701	--	15,497	5,194	3,782	--	645	--	9,565	17,964	2,137
Normal Butane/Butylene	3,666	--	3,901	508	3,496	--	606	9,261	4,138	-2,434	3,535
Isobutane/Isobutylene	3,803	--	1,135	43	1,069	--	-8	7,775	0	-1,717	460
Other Liquids	--	8,784	--	39,869	105,328	-2,885	-353	154,099	6,574	-9,224	50,933
Hydrogen/Oxygenates/Renewables/	--	--	--	--	--	--	--	--	--	--	--
Other Hydrocarbons	--	8,784	--	5,755	49,697	10,542	629	72,797	1,352	0	4,057
Hydrogen	--	--	--	--	--	13,664	--	13,664	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	16	--	--	16	0	--
Renewable Fuels (including Fuel Ethanol)	--	8,784	--	5,755	49,697	-3,138	629	59,133	1,336	0	4,057
Fuel Ethanol	--	6,119	--	756	46,946	358	263	52,840	1,077	0	2,742
Renewable Fuels Except Fuel Ethanol	--	2,665	--	4,999	2,751	-3,496	366	6,293	260	0	1,315
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	24,539	--	--	-1,342	34,067	1,038	-9,224	19,687
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	9,575	55,631	-13,427	360	47,235	4,184	0	27,189
Reformulated	--	--	--	727	27,396	-1,949	448	25,722	4	0	13,662
Conventional	--	--	--	8,848	28,235	-11,477	-88	21,513	4,181	0	13,527
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	1,012,513	62,294	19,259	16,029	-135	--	107,713	1,002,518	32,602
Finished Motor Gasoline	--	--	538,308	994	4,115	13,069	773	--	15,922	539,791	2,690
Reformulated	--	--	374,571	--	--	-2,022	6	--	--	372,543	20
Conventional	--	--	163,737	994	4,115	15,090	767	--	15,922	167,247	2,670
Finished Aviation Gasoline	--	--	577	61	24	--	102	--	--	560	286
Kerosene-Type Jet Fuel	--	--	143,549	30,643	2,550	--	513	--	8,043	168,186	8,999
Kerosene	--	--	112	--	--	--	-8	--	25	95	46
Distillate Fuel Oil	--	--	185,384	4,903	12,080	2,961	-811	--	31,029	175,110	13,031
15 ppm sulfur and under	--	--	176,561	4,633	12,080	2,961	-712	--	20,227	176,720	11,991
Greater than 15 ppm to 500 ppm sulfur	--	--	3,383	54	--	--	-154	--	4,271	-680	187
Greater than 500 ppm sulfur	--	--	5,440	216	--	--	55	--	6,531	-930	853
Residual Fuel Oil ⁶	--	--	36,710	23,325	599	--	-309	--	10,609	50,334	3,851
Less than 0.31 percent sulfur	--	--	80	--	--	--	-53	--	NA	NA	231
0.31 to 1.00 percent sulfur	--	--	7,257	594	--	--	-155	--	NA	NA	449
Greater than 1.00 percent sulfur	--	--	29,373	22,731	--	--	-101	--	NA	NA	3,165
Petrochemical Feedstocks	--	--	41	336	--	--	1	--	--	376	3
Naphtha for Petro. Feed. Use	--	--	41	336	--	--	1	--	--	376	3
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	319	--	--	--	-18	--	--	337	44
Lubricants	--	--	4,817	192	-109	--	-185	--	2,193	2,892	825
Waxes	--	--	--	490	--	--	--	--	75	415	--
Petroleum Coke	--	--	49,463	313	--	--	-45	--	39,360	10,461	1,157
Marketable	--	--	38,276	313	--	--	-45	--	39,360	-726	1,157
Catalyst	--	--	11,187	--	--	--	--	--	--	11,187	--
Asphalt and Road Oil	--	--	8,454	1,037	--	--	-165	--	446	9,210	1,588
Still Gas	--	--	40,518	--	--	--	--	--	--	40,518	--
Miscellaneous Products	--	--	4,261	--	--	--	17	--	10	4,234	82
Total	362,917	8,639	1,033,046	499,820	176,247	26,923	-1,276	968,962	131,469	1,008,438	141,824

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

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

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks.

Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

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

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

Table 23. PAD District 5 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, November 2016
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	1,033	--	--	974	131	74	45	2,167	--	0
Natural Gas Plant Liquids and Liquefied										
Refinery Gases	68	0	1	37	28	--	-47	113	58	9
Pentanes Plus	34	0	--	--	--	--	-1	30	1	3
Liquefied Petroleum Gases	34	--	1	37	28	--	-46	83	57	5
Ethane/Ethylene	0	--	--	--	--	--	--	--	--	0
Propane/Propylene	9	--	46	31	10	--	-6	--	50	51
Normal Butane/Butylene	13	--	-44	6	14	--	-40	56	7	-34
Isobutane/Isobutylene	12	--	-1	1	4	--	0	27	0	-11
Other Liquids	--	29	--	130	314	-21	59	446	10	-63
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	29	--	20	149	27	8	214	1	0
Hydrogen	--	--	--	--	--	39	--	39	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	29	--	20	149	-12	8	176	1	0
Fuel Ethanol	--	19	--	--	142	3	9	155	1	0
Renewable Fuels Except Fuel Ethanol	--	10	--	20	7	-15	0	21	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	96	--	--	5	151	3	-63
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	14	166	-48	46	80	6	0
Reformulated	--	--	--	--	78	1	63	17	0	0
Conventional	--	--	--	14	87	-50	-17	63	6	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	2,910	199	31	52	10	--	264	2,918
Finished Motor Gasoline	--	--	1,574	1	11	45	10	--	33	1,587
Reformulated	--	--	1,100	--	--	-8	0	--	--	1,092
Conventional	--	--	474	1	11	53	10	--	33	495
Finished Aviation Gasoline	--	--	3	--	--	--	2	--	--	1
Kerosene-Type Jet Fuel	--	--	402	123	8	--	-12	--	37	508
Kerosene	--	--	1	--	--	--	0	--	0	0
Distillate Fuel Oil	--	--	552	6	12	7	42	--	79	457
15 ppm sulfur and under	--	--	532	6	12	7	47	--	35	475
Greater than 15 ppm to 500 ppm sulfur	--	--	8	--	--	--	-1	--	16	-7
Greater than 500 ppm sulfur	--	--	13	0	--	--	-4	--	27	-11
Residual Fuel Oil ⁶	--	--	80	65	--	--	-22	--	28	140
Less than 0.31 percent sulfur	--	--	--	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	26	--	--	--	-2	--	NA	NA
Greater than 1.00 percent sulfur	--	--	54	65	--	--	-20	--	NA	NA
Petrochemical Feedstocks	--	--	0	--	--	--	0	--	--	0
Naphtha for Petro. Feed. Use	--	--	0	--	--	--	0	--	--	0
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	1	--	--	--	-1	--	--	2
Lubricants	--	--	3	1	0	--	-4	--	3	5
Waxes	--	--	--	0	--	--	--	--	0	0
Petroleum Coke	--	--	143	1	--	--	-11	--	83	72
Marketable	--	--	109	1	--	--	-11	--	83	38
Catalyst	--	--	34	--	--	--	--	--	--	34
Asphalt and Road Oil	--	--	25	2	--	--	5	--	1	20
Still Gas	--	--	112	--	--	--	--	--	--	112
Miscellaneous Products	--	--	13	--	--	--	0	--	0	13
Total	1,100	29	2,911	1,340	505	105	66	2,726	333	2,864

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

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

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

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

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

Table 24. PAD District 5 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-November 2016
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	1,020	--	--	1,170	129	41	-6	2,357	10	0
Natural Gas Plant Liquids and Liquefied										
Refinery Gases	63	0	61	17	25	--	4	75	41	45
Pentanes Plus	29	0	--	--	--	--	0	25	1	4
Liquefied Petroleum Gases	33	--	61	17	25	--	4	51	41	41
Ethane/Ethylene	0	--	--	--	--	--	--	--	--	0
Propane/Propylene	11	--	46	16	11	--	2	--	29	54
Normal Butane/Butylene	11	--	12	2	10	--	2	28	12	-7
Isobutane/Isobutylene	11	--	3	0	3	--	0	23	0	-5
Other Liquids	--	26	--	119	314	-9	-1	460	20	-28
Hydrogen/Oxygenates/Renewables/										
Other Hydrocarbons	--	26	--	17	148	31	2	217	4	0
Hydrogen	--	--	--	--	--	41	--	41	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol) ...	--	26	--	17	148	-9	2	177	4	0
Fuel Ethanol	--	18	--	2	140	1	1	158	3	0
Renewable Fuels Except Fuel Ethanol	--	8	--	15	8	-10	1	19	1	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	73	--	--	-4	102	3	-28
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	29	166	-40	1	141	12	0
Reformulated	--	--	--	2	82	-6	1	77	0	0
Conventional	--	--	--	26	84	-34	0	64	12	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,022	186	57	48	0	--	322	2,993
Finished Motor Gasoline	--	--	1,607	3	12	39	2	--	48	1,611
Reformulated	--	--	1,118	--	--	-6	0	--	--	1,112
Conventional	--	--	489	3	12	45	2	--	48	499
Finished Aviation Gasoline	--	--	2	0	0	--	0	--	--	2
Kerosene-Type Jet Fuel	--	--	429	91	8	--	2	--	24	502
Kerosene	--	--	0	--	--	--	0	--	0	0
Distillate Fuel Oil	--	--	553	15	36	9	-2	--	93	523
15 ppm sulfur and under	--	--	527	14	36	9	-2	--	60	528
Greater than 15 ppm to 500 ppm sulfur	--	--	10	0	--	--	0	--	13	-2
Greater than 500 ppm sulfur	--	--	16	1	--	--	0	--	19	-3
Residual Fuel Oil ⁶	--	--	110	70	2	--	-1	--	32	150
Less than 0.31 percent sulfur	--	--	0	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	22	2	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	88	68	--	--	0	--	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	--	-1	--	7	9
Waxes	--	--	--	1	--	--	--	--	0	1
Petroleum Coke	--	--	148	1	--	--	0	--	117	31
Marketable	--	--	114	1	--	--	0	--	117	-2
Catalyst	--	--	33	--	--	--	--	--	--	33
Asphalt and Road Oil	--	--	25	3	--	--	0	--	1	27
Still Gas	--	--	121	--	--	--	--	--	--	121
Miscellaneous Products	--	--	13	--	--	--	0	--	0	13
Total	1,083	26	3,084	1,492	526	80	-4	2,892	392	3,010

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

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

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

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

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

Table 25. Crude Oil Supply, Disposition, and Ending Stocks by PAD District, November 2016
(Thousand Barrels, Except Where Noted)

Process	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Supply							
Field Production	1,303	49,633	165,928	19,278	30,976	267,118	8,904
Alaskan	--	--	--	--	--	15,388	513
Lower 48 States	--	--	--	--	--	251,730	8,391
Imports (PAD District of Entry)	26,954	76,785	96,629	12,030	29,208	241,606	8,054
Commercial	26,954	76,785	96,629	12,030	29,208	241,606	8,054
Strategic Petroleum Reserve (SPR)	--	--	--	--	--	--	--
Net Receipts	4,344	-1,589	4,105	-10,805	3,944	--	--
Adjustments ¹	-2,092	-321	-2,394	-1,860	2,233	-4,433	-148
Disposition							
Stock Change ²	-3,765	7,872	-5,439	-196	1,342	-186	-6
Commercial	--	--	-5,436	--	--	-183	-6
SPR	--	--	-3	--	--	-3	0
Refinery Inputs	33,537	110,228	258,994	18,783	65,019	486,561	16,219
Exports	738	6,409	10,713	57	--	17,916	597
Ending Stocks							
Total	14,163	149,382	944,100	23,958	52,121	1,183,724	--
Commercial	14,163	149,382	249,016	23,958	52,121	488,640	--
Refinery	10,494	15,102	48,309	2,770	25,027	101,702	--
Tank Farms and Pipelines	3,669	134,280	200,707	21,188	24,981	384,825	--
Cushing, Oklahoma	--	64,564	--	--	--	64,564	--
Lease	--	--	--	--	--	--	--
Alaskan Crude Oil In-Transit by Water	--	--	--	--	2,113	2,113	--
SPR	--	--	695,084	--	--	695,084	--
SPR Stocks							
Percent of Total Crude Oil Stocks (Percent)	--	--	--	--	--	58.7	--
Percent of Total Petroleum Stocks (Percent)	--	--	--	--	--	33.8	--
Days of Total Petroleum Net Imports (Days)	--	--	--	--	--	141	--
SPR Receipts Detail							
Receipts	--	--	--	--	--	--	--
Domestic	--	--	--	--	--	--	--
Imports	--	--	--	--	--	--	--
Imported by SPR	--	--	--	--	--	--	--
Imported for SPR by Others	--	--	--	--	--	--	--
Imports							
PAD District of Entry	26,954	76,785	96,629	12,030	29,208	241,606	8,054
PAD District of Processing	27,529	70,249	105,103	9,649	29,076	241,606	8,054

-- = Not Applicable.

-- = No Data Reported.

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

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

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

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

Table 26. Production of Crude Oil by PAD District and State, November 2016
(Thousand Barrels)

PAD District and State	November 2016		January-November 2016	
	Total	Daily Average	Total	Daily Average
PAD District 1	1,303	43	15,088	45
Florida	159	5	1,780	5
New York	23	1	256	1
Pennsylvania	476	16	5,701	17
Virginia	1	0	10	0
West Virginia	644	21	7,341	22
PAD District 2	49,633	1,654	566,513	1,691
Illinois	687	23	7,901	24
Indiana	150	5	1,659	5
Kansas	2,854	95	34,080	102
Kentucky	188	6	2,182	7
Michigan	457	15	5,212	16
Missouri	11	0	116	0
Nebraska	174	6	2,059	6
North Dakota	30,865	1,029	349,229	1,042
Ohio	1,453	48	20,702	62
Oklahoma	12,660	422	141,842	423
South Dakota	113	4	1,298	4
Tennessee	20	1	233	1
PAD District 3	165,928	5,531	1,832,194	5,469
Alabama	693	23	7,583	23
Arkansas	426	14	4,947	15
Louisiana	4,359	145	52,414	156
Mississippi	1,651	55	19,504	58
New Mexico	12,516	417	134,304	401
Texas	95,855	3,195	1,079,098	3,221
Federal Offshore PAD District 3	50,429	1,681	534,343	1,595
PAD District 4	19,278	643	221,937	662
Colorado	9,200	307	106,270	317
Montana	1,822	61	21,420	64
Utah	2,500	83	27,794	83
Wyoming	5,755	192	66,453	198
PAD District 5	30,976	1,033	341,855	1,020
Alaska	15,388	513	163,075	487
South Alaska	435	15	5,191	15
North Slope	14,953	498	157,884	471
Arizona	1	0	6	0
California	15,141	505	172,561	515
Nevada	25	1	257	1
Federal Offshore PAD District 5	420	14	5,956	18
U.S. Total	267,118	8,904	2,977,588	8,888

– = 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, Lease Condensate, and Natural Gas Production Report," state government agencies, U.S. Department of the Interior, and the Bureau of Ocean Energy Management.

Table 27. Natural Gas Plant Net Production and Stocks of Petroleum Products by PAD and Refining Districts, November 2016
(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
Natural Gas Plant Liquids	13	11,260	11,273	5,918	6,332	11,616	23,866
Pentanes Plus	—	1,114	1,114	445	791	1,560	2,796
Liquefied Petroleum Gases	13	10,146	10,159	5,473	5,541	10,056	21,070
Ethane	—	4,684	4,684	1,986	1,754	3,692	7,432
Propane	4	3,764	3,768	2,443	2,458	4,209	9,110
Normal Butane	9	1,133	1,142	620	1,038	1,205	2,863
Isobutane	—	565	565	424	291	950	1,665

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			
Natural Gas Plant Liquids	40,759	6,359	5,615	943	5,450	59,126	11,647	2,025	107,937
Pentanes Plus	4,359	554	644	219	600	6,376	1,837	1,020	13,143
Liquefied Petroleum Gases	36,400	5,805	4,971	724	4,850	52,750	9,810	1,005	94,794
Ethane	17,434	3,161	2,122	229	2,136	25,082	3,162	1	40,361
Propane	12,323	1,672	1,820	280	1,797	17,892	4,231	264	35,265
Normal Butane	4,112	-1,282	628	129	528	4,115	1,665	383	10,168
Isobutane	2,531	2,254	401	86	389	5,661	752	357	9,000

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
Natural Gas Plant Liquids	5	257	262	1,011	133	418	1,562
Pentanes Plus	—	66	66	67	43	4	114
Liquefied Petroleum Gases	5	191	196	944	90	414	1,448
Ethane	—	—	—	72	2	201	275
Propane	2	128	130	648	54	149	851
Normal Butane	3	46	49	112	27	22	161
Isobutane	—	17	17	112	7	42	161

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			
Natural Gas Plant Liquids	192	3,615	574	25	—	4,406	115	407	6,752
Pentanes Plus	24	32	252	5	—	313	31	31	555
Liquefied Petroleum Gases	168	3,583	322	20	—	4,093	84	376	6,197
Ethane	1	929	—	—	—	930	—	—	1,205
Propane	107	1,848	21	15	—	1,991	43	54	3,069
Normal Butane	53	456	231	5	—	745	32	288	1,275
Isobutane	7	350	70	—	—	427	9	34	648

— = No Data Reported.

Note: Refer to Appendix A for Refining District descriptions.

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

Table 28. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, November 2016
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	30,971	2,566	33,537	69,138	15,223	25,867	110,228
Natural Gas Plant Liquids and Liquefied							
Refinery Gases	1,871	8	1,879	2,790	228	1,353	4,371
Pentanes Plus	216	—	216	153	19	431	603
Liquefied Petroleum Gases	1,655	8	1,663	2,637	209	922	3,768
Normal Butane	1,361	8	1,369	1,581	173	453	2,207
Isobutane	294	—	294	1,056	36	469	1,561
Other Liquids	73,390	6,414	79,804	10,573	3,195	1,823	15,591
Hydrogen/Oxygenates/Renewables/							
Other Hydrocarbons	9,695	797	10,492	5,692	1,480	1,826	8,998
Hydrogen	113	2	115	611	273	199	1,083
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	9,582	795	10,377	5,066	1,207	1,627	7,900
Fuel Ethanol	9,255	713	9,968	4,783	1,139	1,546	7,468
Renewable Diesel Fuel	327	82	409	283	68	81	432
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	15	—	—	15
Unfinished Oils (net)	2,307	118	2,425	-789	80	-128	-837
Naphthas and Lighter	978	147	1,125	373	-81	96	388
Kerosene and Light Gas Oils	48	-1	47	-616	164	103	-349
Heavy Gas Oils	909	-30	879	-547	-3	19	-531
Residuum	372	2	374	1	—	-346	-345
Motor Gasoline Blend.Comp. (MGBC)(net)	61,388	5,499	66,887	5,670	1,635	125	7,430
Reformulated - RBOB	14,195	—	14,195	-463	970	734	1,241
Conventional	47,193	5,499	52,692	6,133	665	-609	6,189
CBOB	38,633	5,501	44,134	4,824	723	-396	5,151
GTAB	2,165	—	2,165	—	—	—	—
Other	6,395	-2	6,393	1,309	-58	-213	1,038
Aviation Gasoline Blend. Comp. (net)	—	—	—	—	—	—	—
Total Input	106,232	8,988	115,220	82,501	18,646	29,043	130,190

See footnotes at end of table.

Table 28. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, November 2016
(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	19,614	128,431	101,117	6,561	3,271	258,994	18,783	65,019	486,561
Natural Gas Plant Liquids and Liquefied Refinery Gases	665	5,581	3,880	108	198	10,432	767	3,396	20,845
Pentanes Plus	221	1,547	642	10	—	2,420	189	899	4,327
Liquefied Petroleum Gases	444	4,034	3,238	98	198	8,012	578	2,497	16,518
Normal Butane	270	2,066	1,710	42	12	4,100	367	1,681	9,724
Isobutane	174	1,968	1,528	56	186	3,912	211	816	6,794
Other Liquids	8,646	-35,619	-29,074	7,329	-163	-48,881	-223	13,370	59,661
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	2,020	2,938	2,479	1,158	241	8,836	1,142	6,434	35,902
Hydrogen	16	1,920	1,790	85	51	3,862	215	1,158	6,433
Oxygenates (excluding Fuel Ethanol)	—	62	—	—	—	62	—	—	62
Methyl Tertiary Butyl Ether (MTBE)	—	62	—	—	—	62	—	—	62
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	2,004	956	689	1,073	190	4,912	927	5,276	29,392
Fuel Ethanol	1,919	819	457	1,007	158	4,360	885	4,642	27,323
Renewable Diesel Fuel	85	136	232	66	32	551	42	630	2,064
Other Renewable Fuels	—	1	—	—	—	1	—	4	5
Other Hydrocarbons	—	—	—	—	—	—	—	—	15
Unfinished Oils (net)	502	716	7,157	27	-148	8,254	198	4,526	14,566
Naphthas and Lighter	285	-4,515	761	27	-164	-3,606	-21	-143	-2,257
Kerosene and Light Gas Oils	133	-2,049	1,509	19	4	-384	-13	345	-354
Heavy Gas Oils	-26	6,391	3,332	12	12	9,721	213	4,085	14,367
Residuum	110	889	1,555	-31	—	2,523	19	239	2,810
Motor Gasoline Blend.Comp. (MGBC)(net)	6,121	-39,273	-38,712	6,144	-256	-65,976	-1,563	2,410	9,188
Reformulated - RBOB	5,144	-9,680	-2,958	—	-314	-7,808	—	506	8,134
Conventional	977	-29,593	-35,754	6,144	58	-58,168	-1,563	1,904	1,054
CBOB	1,440	-30,988	-33,813	6,166	118	-57,077	-1,194	1,141	-7,845
GTAB	—	—	—	—	—	—	—	—	2,165
Other	-463	1,395	-1,941	-22	-60	-1,091	-369	763	6,734
Aviation Gasoline Blend. Comp. (net)	3	—	2	—	—	5	—	—	5
Total Input	28,925	98,393	75,923	13,998	3,306	220,545	19,327	81,785	567,067

— = 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).

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

Note: Refer to Appendix A for Refining District descriptions.

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

Table 29. Refinery and Blender Net Production of Finished Petroleum Products by PAD and Refining Districts, November 2016
(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
Liquefied Refinery Gases	311	-67	244	986	-164	-98	724
Ethane/Ethylene	8	—	8	—	—	—	—
Ethane	—	—	—	—	—	—	—
Ethylene	8	—	8	—	—	—	—
Propane/Propylene	1,151	16	1,167	2,281	416	651	3,348
Propane	711	16	727	1,486	237	458	2,181
Propylene	440	—	440	795	179	193	1,167
Normal Butane/Butylene	-748	-63	-811	-1,307	-533	-727	-2,567
Normal Butane	-675	-63	-738	-1,246	-533	-724	-2,503
Butylene	-73	—	-73	-61	—	-3	-64
Isobutane/Isobutylene	-100	-20	-120	12	-47	-22	-57
Isobutane	-100	-20	-120	12	-47	-22	-57
Isobutylene	—	—	—	—	—	—	—
Finished Motor Gasoline	88,764	7,365	96,129	50,669	10,920	16,527	78,116
Reformulated	38,886	—	38,886	8,289	1,507	1,050	10,846
Reformulated Blended with Fuel Ethanol	38,886	—	38,886	8,289	1,507	1,050	10,846
Reformulated Other	—	—	—	—	—	—	—
Conventional	49,878	7,365	57,243	42,380	9,413	15,477	67,270
Conventional Blended with Fuel Ethanol	52,981	7,113	60,094	39,141	9,805	14,142	63,088
Ed55 and Lower	52,944	7,113	60,057	39,133	9,785	14,097	63,015
Greater than Ed55	37	—	37	8	20	45	73
Conventional Other	-3,103	252	-2,851	3,239	-392	1,335	4,182
Finished Aviation Gasoline	—	—	—	—	17	—	17
Kerosene-Type Jet Fuel	2,691	—	2,691	5,434	834	1,104	7,372
Kerosene	45	6	51	93	—	—	93
Distillate Fuel Oil	10,704	834	11,538	18,296	5,602	9,857	33,755
15 ppm sulfur and under	9,855	724	10,579	18,393	5,429	9,975	33,797
Greater than 15 ppm to 500 ppm sulfur	-102	92	-10	-150	72	92	14
Greater than 500 ppm sulfur	951	18	969	53	101	-210	-56
Residual Fuel Oil	1,543	6	1,549	1,081	370	101	1,552
Less than 0.31 percent sulfur	262	6	268	—	99	—	99
0.31 to 1.00 percent sulfur	193	—	193	130	69	—	199
Greater than 1.00 percent sulfur	1,088	—	1,088	951	202	101	1,254
Petrochemical Feedstocks	145	—	145	826	38	40	904
Naphtha for Petro. Feed. Use	145	—	145	596	38	—	634
Other Oils for Petro. Feed. Use	—	—	—	230	—	40	270
Special Naphthas	—	23	23	33	—	13	46
Lubricants	215	194	409	—	—	257	257
Waxes	—	9	9	—	—	34	34
Petroleum Coke	1,220	16	1,236	3,772	835	920	5,527
Marketable	522	—	522	2,805	670	737	4,212
Catalyst	698	16	714	967	165	183	1,315
Asphalt and Road Oil	806	494	1,300	2,675	680	490	3,845
Still Gas	1,237	62	1,299	2,469	578	966	4,013
Miscellaneous Products	77	28	105	288	109	66	463
Total	107,758	8,970	116,728	86,622	19,819	30,277	136,718
Processing Gain(-) or Loss(+) ¹	-1,526	18	-1,508	-4,121	-1,173	-1,234	-6,528

See footnotes at end of table.

Table 29. Refinery and Blender Net Production of Finished Petroleum Products by PAD and Refining Districts, November 2016
(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			
Liquefied Refinery Gases	364	4,597	4,247	-49	9	9,168	267	17	10,420
Ethane/Ethylene	1	105	1	—	—	107	—	—	115
Ethane	1	94	1	—	—	96	—	—	96
Ethylene	—	11	—	—	—	11	—	—	19
Propane/Propylene	768	5,985	4,696	27	41	11,517	295	1,365	17,692
Propane	374	2,462	2,115	26	41	5,018	284	1,063	9,273
Propylene	394	3,523	2,581	1	—	6,499	11	302	8,419
Normal Butane/Butylene	-382	-1,091	-562	-76	-34	-2,145	-54	-1,327	-6,904
Normal Butane	-382	-960	-732	-76	-36	-2,186	-53	-1,297	-6,777
Butylene	—	-131	170	—	2	41	-1	-30	-127
Isobutane/Isobutylene	-23	-402	112	—	2	-311	26	-21	-483
Isobutane	-23	-386	112	—	2	-295	26	-21	-467
Isobutylene	—	-16	—	—	—	-16	—	—	-16
Finished Motor Gasoline	19,995	25,758	11,678	9,411	1,731	68,573	9,333	47,226	299,377
Reformulated	7,306	6,388	—	—	—	13,694	—	33,012	96,438
Reformulated Blended with Fuel Ethanol	7,306	6,388	—	—	—	13,694	—	33,012	96,438
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	12,689	19,370	11,678	9,411	1,731	54,879	9,333	14,214	202,939
Conventional Blended with Fuel Ethanol	11,685	1,693	4,555	10,121	1,536	29,590	8,822	13,125	174,719
Ed55 and Lower	11,677	1,693	4,555	10,111	1,536	29,572	8,813	13,122	174,579
Greater than Ed55	8	—	—	10	—	18	9	3	140
Conventional Other	1,004	17,677	7,123	-710	195	25,289	511	1,089	28,220
Finished Aviation Gasoline	85	61	142	—	—	288	5	89	399
Kerosene-Type Jet Fuel	1,300	13,185	12,547	165	—	27,197	898	12,057	50,215
Kerosene	-5	-36	-45	21	—	-65	—	15	94
Distillate Fuel Oil	6,150	38,816	34,764	2,344	1,334	83,408	6,686	16,565	151,952
15 ppm sulfur and under	6,186	36,596	29,302	2,227	1,334	75,645	6,607	15,949	142,577
Greater than 15 ppm to 500 ppm sulfur	9	452	1,947	45	—	2,453	81	239	2,777
Greater than 500 ppm sulfur	-45	1,768	3,515	72	—	5,310	-2	377	6,598
Residual Fuel Oil	241	3,029	4,244	-43	142	7,613	381	2,409	13,504
Less than 0.31 percent sulfur	181	20	795	—	—	996	252	—	1,615
0.31 to 1.00 percent sulfur	—	159	701	-43	21	838	11	793	2,034
Greater than 1.00 percent sulfur	60	2,850	2,748	—	121	5,779	118	1,616	9,855
Petrochemical Feedstocks	118	5,172	2,185	16	—	7,491	—	3	8,543
Naphtha for Petro. Feed. Use	126	3,602	970	16	—	4,714	—	3	5,496
Other Oils for Petro. Feed. Use	-8	1,570	1,215	—	—	2,777	—	—	3,047
Special Naphthas	77	573	—	180	—	830	—	36	935
Lubricants	29	1,819	1,595	863	—	4,306	—	97	5,069
Waxes	—	35	39	33	—	107	—	—	150
Petroleum Coke	397	8,997	6,219	137	69	15,819	836	4,295	27,713
Marketable	158	6,956	4,981	124	—	12,219	588	3,276	20,817
Catalyst	239	2,041	1,238	13	69	3,600	248	1,019	6,896
Asphalt and Road Oil	204	287	722	868	-9	2,072	1,047	746	9,010
Still Gas	766	5,625	4,171	173	69	10,804	732	3,372	20,220
Miscellaneous Products	64	975	621	17	28	1,705	98	392	2,763
Total	29,785	108,893	83,129	14,136	3,373	239,316	20,283	87,319	600,364
Processing Gain(-) or Loss(+) ¹	-860	-10,500	-7,206	-138	-67	-18,771	-956	-5,534	-33,297

— = No Data Reported.

¹ Represents the arithmetic difference between refinery input and production divided by input of crude oil, hydrogen, "other" hydrocarbons, and net input of unfinished oils.

Note: Refer to Appendix A for Refining District descriptions.

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

Table 30. Refinery Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, November 2016
(Thousand Barrels, Except Where Noted)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	30,971	2,566	33,537	69,138	15,223	25,867	110,228
Natural Gas Plant Liquids	682	—	682	2,618	110	832	3,560
Pentanes Plus	—	—	—	153	—	340	493
Liquefied Petroleum Gases	682	—	682	2,465	110	492	3,067
Normal Butane	388	—	388	1,409	74	23	1,506
Isobutane	294	—	294	1,056	36	469	1,561
Other Liquids	-13,779	155	-13,624	-33,890	-5,684	-11,543	-51,117
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	186	114	300	876	442	303	1,621
Hydrogen	113	2	115	611	273	199	1,083
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	73	112	185	250	169	104	523
Fuel Ethanol	73	89	162	156	149	99	404
Renewable Diesel Fuel	—	23	23	94	20	5	119
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	15	—	—	15
Unfinished Oils (net)	2,306	119	2,425	-811	80	-128	-859
Naphthas and Lighter	978	147	1,125	373	-81	96	388
Kerosene and Light Gas Oils	48	—	48	-557	164	103	-290
Heavy Gas Oils	908	-30	878	-547	-3	19	-531
Residuum	372	2	374	-80	—	-346	-426
Motor Gasoline Blend.Comp. (MGBC)(net)	-16,271	-78	-16,349	-33,955	-6,206	-11,718	-51,879
Reformulated - RBOB	-11,266	—	-11,266	-7,727	-384	-201	-8,312
Conventional	-5,005	-78	-5,083	-26,228	-5,822	-11,517	-43,567
CBOB	-4,418	-76	-4,494	-26,369	-5,715	-11,304	-43,388
GTAB	—	—	—	—	—	—	—
Other	-587	-2	-589	141	-107	-213	-179
Aviation Gasoline Blend. Comp. (net)	—	—	—	—	—	—	—
Total Input to Refineries	17,874	2,721	20,595	37,866	9,649	15,156	62,671
Atmospheric Crude Oil Distillation							
Gross Input (daily average)	1,033	86	1,119	2,299	508	863	3,669
Operable Capacity (daily average)	1,179	98	1,278	2,575	510	872	3,957
Operable Utilization Rate (percent) ²	87.6	87.7	87.6	89.3	99.5	99.0	92.7
Downstream Processing							
Fresh Feed Input (daily average)							
Catalytic Reforming	175	15	191	419	60	149	628
Catalytic Cracking	394	13	407	704	147	215	1,066
Catalytic Hydrocracking	37	—	37	178	51	48	276
Delayed and Fluid Coking	65	—	65	319	64	82	464
Crude Oil Qualities							
Sulfur Content, Weighted Average (percent)	0.90	1.48	0.95	1.64	1.92	0.72	1.46
API Gravity, Weighted Average (degrees)	33.42	33.27	33.41	32.11	29.68	37.08	32.90
Operable Capacity (daily average)	1,179	98	1,278	2,575	510	872	3,957
Operating	1,147	98	1,246	2,553	510	872	3,935
Idle	32	—	32	22	—	—	22
Alaskan Crude Oil Receipts	—	—	—	—	—	—	—

See footnotes at end of table.

Table 30. Refinery Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, November 2016
(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	19,614	128,431	101,117	6,561	3,271	258,994	18,783	65,019	486,561
Natural Gas Plant Liquids	575	4,917	3,689	74	198	9,453	628	3,380	17,703
Pentanes Plus	205	1,357	642	10	—	2,214	134	899	3,740
Liquefied Petroleum Gases	370	3,560	3,047	64	198	7,239	494	2,481	13,963
Normal Butane	196	1,592	1,519	8	12	3,327	283	1,665	7,169
Isobutane	174	1,968	1,528	56	186	3,912	211	816	6,794
Other Liquids	-8,109	-47,167	-31,821	-1,472	-1,214	-89,783	-4,488	-30,691	-189,703
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	254	2,097	2,105	156	109	4,721	541	1,467	8,650
Hydrogen	16	1,920	1,790	85	51	3,862	215	1,158	6,433
Oxygenates (excluding Fuel Ethanol)	—	62	—	—	—	62	—	—	62
Methyl Tertiary Butyl Ether (MTBE)	—	62	—	—	—	62	—	—	62
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	238	115	315	71	58	797	326	309	2,140
Fuel Ethanol	197	43	170	38	52	500	297	90	1,453
Renewable Diesel Fuel	41	71	145	33	6	296	29	215	682
Other Renewable Fuels	—	1	—	—	—	1	—	4	5
Other Hydrocarbons	—	—	—	—	—	—	—	—	15
Unfinished Oils (net)	502	716	7,153	27	-148	8,250	198	4,526	14,540
Naphthas and Lighter	285	-4,515	761	27	-164	-3,606	-21	-143	-2,257
Kerosene and Light Gas Oils	133	-2,049	1,509	19	4	-384	-13	345	-294
Heavy Gas Oils	-26	6,391	3,328	12	12	9,717	213	4,085	14,362
Residuum	110	889	1,555	-31	—	2,523	19	239	2,729
Motor Gasoline Blend Comp. (MGBBC)(net)	-8,868	-49,980	-41,081	-1,655	-1,175	-102,759	-5,227	-36,684	-212,898
Reformulated - RBOB	-1,360	-13,915	-2,958	—	-314	-18,547	—	-28,528	-66,653
Conventional	-7,508	-36,065	-38,123	-1,655	-861	-84,212	-5,227	-8,156	-146,245
CBOB	-7,045	-30,192	-35,647	-1,607	-801	-75,292	-4,853	-8,853	-136,880
GTAB	—	—	—	—	—	—	—	—	—
Other	-463	-5,873	-2,476	-48	-60	-8,920	-374	697	-9,365
Aviation Gasoline Blend. Comp. (net)	3	—	2	—	—	5	—	—	5
Total Input to Refineries	12,080	86,181	72,985	5,163	2,255	178,664	14,923	37,708	314,561
Atmospheric Crude Oil Distillation									
Gross Input (daily average)	647	4,334	3,494	198	109	8,782	624	2,351	16,545
Operable Capacity (daily average)	704	4,838	3,707	243	128	9,620	696	2,924	18,474
Operable Utilization Rate (percent) ²	91.9	89.6	94.3	81.5	85.5	91.3	89.7	80.4	89.6
Downstream Processing									
Fresh Feed Input (daily average)									
Catalytic Reforming	152	627	576	33	19	1,407	100	351	2,677
Catalytic Cracking	179	1,413	963	18	35	2,607	168	685	4,933
Catalytic Hydrocracking	45	409	414	21	—	888	26	427	1,655
Delayed and Fluid Coking	23	765	563	22	—	1,373	72	436	2,410
Crude Oil Qualities									
Sulfur Content, Weighted Average (percent)	0.53	1.62	1.45	1.53	0.67	1.45	1.43	1.35	1.41
API Gravity, Weighted Average (degrees)	40.02	30.98	30.53	31.03	38.82	31.60	33.72	27.73	31.52
Operable Capacity (daily average)	704	4,838	3,707	243	128	9,620	696	2,924	18,474
Operating	704	4,838	3,707	243	128	9,620	683	2,455	17,938
Idle	—	—	—	—	—	—	13	469	536
Alaskan Crude Oil Receipts	—	—	—	—	—	—	—	15,855	15,855

— = 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 Represents gross input divided by operable calendar day capacity.

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

Note: Refer to Appendix A for Refining District descriptions.

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

Table 31. Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts, November 2016
(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
Liquefied Refinery Gases	311	-67	244	986	-164	-98	724
Ethane/Ethylene	8	-	8	-	-	-	-
Ethane	-	-	-	-	-	-	-
Ethylene	8	-	8	-	-	-	-
Propane/Propylene	1,151	16	1,167	2,281	416	651	3,348
Propane	711	16	727	1,486	237	458	2,181
Propylene	440	-	440	795	179	193	1,167
Normal Butane/Butylene	-748	-63	-811	-1,307	-533	-727	-2,567
Normal Butane	-675	-63	-738	-1,246	-533	-724	-2,503
Butylene	-73	-	-73	-61	-	-3	-64
Isobutane/Isobutylene	-100	-20	-120	12	-47	-22	-57
Isobutane	-100	-20	-120	12	-47	-22	-57
Isobutylene	-	-	-	-	-	-	-
Finished Motor Gasoline	729	1,156	1,885	6,271	1,968	2,715	10,954
Reformulated	729	-	729	-	-	-	-
Reformulated Blended with Fuel Ethanol	729	-	729	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-
Conventional	-	1,156	1,156	6,271	1,968	2,715	10,954
Conventional Blended with Fuel Ethanol	-	893	893	1,584	1,500	1,030	4,114
Ed55 and Lower	-	893	893	1,584	1,500	1,030	4,114
Greater than Ed55	-	-	-	-	-	-	-
Conventional Other	-	263	263	4,687	468	1,685	6,840
Finished Aviation Gasoline	-	-	-	-	17	-	17
Kerosene-Type Jet Fuel	2,932	-	2,932	5,696	834	1,104	7,634
Commercial	2,932	-	2,932	5,696	793	1,011	7,500
Military	-	-	-	-	41	93	134
Kerosene	43	6	49	93	-	-	93
Distillate Fuel Oil	10,110	775	10,885	17,888	5,557	9,782	33,227
15 ppm sulfur and under	9,350	665	10,015	17,985	5,384	9,900	33,269
Greater than 15 ppm to 500 ppm sulfur	6	92	98	-150	72	1	-77
Greater than 500 ppm sulfur	754	18	772	53	101	-119	35
Residual Fuel Oil	1,507	6	1,513	1,081	370	101	1,552
Less than 0.31 percent sulfur	301	6	307	-	99	-	99
0.31 to 1.00 percent sulfur	189	-	189	130	69	-	199
Greater than 1.00 percent sulfur	1,017	-	1,017	951	202	101	1,254
Petrochemical Feedstocks	145	-	145	826	38	40	904
Naphtha for Petro. Feed. Use	145	-	145	596	38	-	634
Other Oils for Petro. Feed. Use	-	-	-	230	-	40	270
Special Naphthas	-	23	23	33	-	13	46
Lubricants	215	194	409	-	-	257	257
Naphthenic	-	-	-	-	-	-	-
Paraffinic	215	194	409	-	-	257	257
Waxes	-	9	9	-	-	34	34
Petroleum Coke	1,220	16	1,236	3,772	835	920	5,527
Marketable	522	-	522	2,805	670	737	4,212
Catalyst	698	16	714	967	165	183	1,315
Asphalt and Road Oil	871	494	1,365	2,594	680	489	3,763
Still Gas	1,237	62	1,299	2,469	578	966	4,013
Miscellaneous Products	77	28	105	288	109	66	463
Fuel Use	-	-	-	-	-	-	-
Nonfuel Use	77	28	105	288	109	66	463
Total	19,397	2,702	22,099	41,997	10,822	16,389	69,208
Processing Gain(-) or Loss(+) ¹	-1,523	19	-1,504	-4,131	-1,173	-1,233	-6,537

See footnotes at end of table.

Table 31. Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts, November 2016
(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			
Liquefied Refinery Gases	364	4,597	4,247	-49	9	9,168	267	17	10,420
Ethane/Ethylene	1	105	1	—	—	107	—	—	115
Ethane	1	94	1	—	—	96	—	—	96
Ethylene	—	11	—	—	—	11	—	—	19
Propane/Propylene	768	5,985	4,696	27	41	11,517	295	1,365	17,692
Propane	374	2,462	2,115	26	41	5,018	284	1,063	9,273
Propylene	394	3,523	2,581	1	—	6,499	11	302	8,419
Normal Butane/Butylene	-382	-1,091	-562	-76	-34	-2,145	-54	-1,327	-6,904
Normal Butane	-382	-960	-732	-76	-36	-2,186	-53	-1,297	-6,777
Butylene	—	-131	170	—	2	41	-1	-30	-127
Isobutane/Isobutylene	-23	-402	112	—	2	-311	26	-21	-483
Isobutane	-23	-386	112	—	2	-295	26	-21	-467
Isobutylene	—	-16	—	—	—	-16	—	—	-16
Finished Motor Gasoline	3,194	13,612	8,832	611	706	26,955	4,943	3,560	48,297
Reformulated	—	—	—	—	—	—	—	656	1,385
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	656	1,385
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	3,194	13,612	8,832	611	706	26,955	4,943	2,904	46,912
Conventional Blended with Fuel Ethanol	1,948	426	1,698	528	471	5,071	2,994	242	13,314
Ed55 and Lower	1,944	426	1,698	528	471	5,067	2,994	242	13,310
Greater than Ed55	4	—	—	—	—	4	—	—	4
Conventional Other	1,246	13,186	7,134	83	235	21,884	1,949	2,662	33,598
Finished Aviation Gasoline	85	61	142	—	—	288	5	90	400
Kerosene-Type Jet Fuel	1,300	13,158	12,539	165	—	27,162	867	12,100	50,695
Commercial	1,102	11,959	12,403	95	—	25,559	812	11,311	48,114
Military	198	1,199	136	70	—	1,603	55	789	2,581
Kerosene	-5	1	-46	21	—	-29	—	-2	111
Distillate Fuel Oil	6,105	38,740	34,687	2,311	1,308	83,151	6,704	16,124	150,091
15 ppm sulfur and under	6,141	36,618	29,225	2,194	1,308	75,486	6,625	15,526	140,921
Greater than 15 ppm to 500 ppm sulfur	9	452	1,947	45	—	2,453	81	239	2,794
Greater than 500 ppm sulfur	-45	1,670	3,515	72	—	5,212	-2	359	6,376
Residual Fuel Oil	241	3,029	4,221	-43	142	7,590	381	2,409	13,445
Less than 0.31 percent sulfur	181	—	795	—	—	976	252	—	1,634
0.31 to 1.00 percent sulfur	—	157	701	-43	21	836	11	793	2,028
Greater than 1.00 percent sulfur	60	2,872	2,725	—	121	5,778	118	1,616	9,783
Petrochemical Feedstocks	118	5,172	2,185	16	—	7,491	—	3	8,543
Naphtha for Petro. Feed. Use	126	3,602	970	16	—	4,714	—	3	5,496
Other Oils for Petro. Feed. Use	-8	1,570	1,215	—	—	2,777	—	—	3,047
Special Naphthas	77	573	—	180	—	830	—	36	935
Lubricants	29	1,819	1,595	863	—	4,306	—	97	5,069
Naphthenic	29	65	—	656	—	750	—	108	858
Paraffinic	—	1,754	1,595	207	—	3,556	—	-11	4,211
Waxes	—	35	39	33	—	107	—	—	150
Petroleum Coke	397	8,997	6,219	137	69	15,819	836	4,295	27,713
Marketable	158	6,956	4,981	124	—	12,219	588	3,276	20,817
Catalyst	239	2,041	1,238	13	69	3,600	248	1,019	6,896
Asphalt and Road Oil	204	287	740	868	-9	2,090	1,047	746	9,011
Still Gas	766	5,625	4,171	173	69	10,804	732	3,372	20,220
Miscellaneous Products	64	975	621	17	28	1,705	98	392	2,763
Fuel Use	—	—	—	—	—	—	—	68	68
Nonfuel Use	64	975	621	17	28	1,705	98	324	2,695
Total	12,939	96,681	80,192	5,303	2,322	197,437	15,880	43,239	347,863
Processing Gain(-) or Loss(+) ¹	-859	-10,500	-7,207	-140	-67	-18,773	-957	-5,531	-33,302

— = No Data Reported.

¹ Represents the arithmetic difference between refinery input and production divided by input of crude oil, hydrogen, "other" hydrocarbons, and net input of unfinished oils.

Note: Refer to Appendix A for Refining District descriptions.

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

Table 32. Blender Net Inputs of Petroleum Products by PAD District, November 2016
(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
Natural Gas Plant Liquids and Liquefied							
Refinery Gases	1,189	8	1,197	172	118	521	811
Pentanes Plus	216	—	216	—	19	91	110
Liquefied Petroleum Gases	973	8	981	172	99	430	701
Normal Butane	973	8	981	172	99	430	701
Isobutane	—	—	—	—	—	—	—
Other Liquids	87,169	6,259	93,428	44,463	8,879	13,366	66,708
Oxygenates/Renewables	9,509	683	10,192	4,816	1,038	1,523	7,377
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	9,509	683	10,192	4,816	1,038	1,523	7,377
Fuel Ethanol	9,182	624	9,806	4,627	990	1,447	7,064
Renewable Diesel Fuel	327	59	386	189	48	76	313
Other Renewable Fuels	—	—	—	—	—	—	—
Unfinished Oils (net)	1	-1	0	22	—	—	22
Naphthas and Lighter	—	—	—	—	—	—	—
Kerosene and Light Gas Oils	—	-1	-1	-59	—	—	-59
Heavy Gas Oils	1	—	1	—	—	—	—
Residuum	—	—	—	81	—	—	81
Motor Gasoline Blend.Comp. (MGBC)(net)	77,659	5,577	83,236	39,625	7,841	11,843	59,309
Reformulated - RBOB	25,461	—	25,461	7,264	1,354	935	9,553
Conventional	52,198	5,577	57,775	32,361	6,487	10,908	49,756
CBOB	43,051	5,577	48,628	31,193	6,438	10,908	48,539
GTAB	2,165	—	2,165	—	—	—	—
Other	6,982	—	6,982	1,168	49	—	1,217
Aviation Gasoline Blend. Comp. (net)	—	—	—	—	—	—	—
Total Input	88,358	6,267	94,625	44,635	8,997	13,887	67,519

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			
Natural Gas Plant Liquids and Liquefied									
Refinery Gases	90	664	191	34	—	979	139	16	3,142
Pentanes Plus	16	190	—	—	—	206	55	—	587
Liquefied Petroleum Gases	74	474	191	34	—	773	84	16	2,555
Normal Butane	74	474	191	34	—	773	84	16	2,555
Isobutane	—	—	—	—	—	—	—	—	—
Other Liquids	16,755	11,548	2,747	8,801	1,051	40,902	4,265	44,061	249,364
Oxygenates/Renewables	1,766	841	374	1,002	132	4,115	601	4,967	27,252
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	1,766	841	374	1,002	132	4,115	601	4,967	27,252
Fuel Ethanol	1,722	776	287	969	106	3,860	588	4,552	25,870
Renewable Diesel Fuel	44	65	87	33	26	255	13	415	1,382
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Unfinished Oils (net)	—	—	4	—	—	4	—	—	26
Naphthas and Lighter	—	—	—	—	—	—	—	—	—
Kerosene and Light Gas Oils	—	—	0	—	—	0	—	—	-60
Heavy Gas Oils	—	—	4	—	—	4	—	—	5
Residuum	—	—	—	—	—	—	—	—	81
Motor Gasoline Blend.Comp. (MGBC)(net)	14,989	10,707	2,369	7,799	919	36,783	3,664	39,094	222,086
Reformulated - RBOB	6,504	4,235	—	—	—	10,739	—	29,034	74,787
Conventional	8,485	6,472	2,369	7,799	919	26,044	3,664	10,060	147,299
CBOB	8,485	-796	1,834	7,773	919	18,215	3,659	9,994	129,035
GTAB	—	—	—	—	—	—	—	—	2,165
Other	—	7,268	535	26	—	7,829	5	66	16,099
Aviation Gasoline Blend. Comp. (net)	—	—	—	—	—	—	—	—	—
Total Input	16,845	12,212	2,938	8,835	1,051	41,881	4,404	44,077	252,506

— = 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).

Note: Refer to Appendix A for Refining District descriptions.

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

Table 33. Blender Net Production of Petroleum Products by PAD District, November 2016
(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	88,035	6,209	94,244	44,398	8,952	13,812	67,162
Reformulated	38,157	—	38,157	8,289	1,507	1,050	10,846
Reformulated Blended with Fuel Ethanol	38,157	—	38,157	8,289	1,507	1,050	10,846
Reformulated Other	—	—	—	—	—	—	—
Conventional	49,878	6,209	56,087	36,109	7,445	12,762	56,316
Conventional Blended with Fuel Ethanol	52,981	6,220	59,201	37,557	8,305	13,112	58,974
Ed55 and Lower	52,944	6,220	59,164	37,549	8,285	13,067	58,901
Greater than Ed55	37	—	37	8	20	45	73
Conventional Other	-3,103	-11	-3,114	-1,448	-860	-350	-2,658
Finished Aviation Gasoline	—	—	—	—	—	—	—
Kerosene-Type Jet Fuel	-241	—	-241	-262	—	—	-262
Kerosene	2	—	2	—	—	—	—
Distillate Fuel Oil	594	59	653	408	45	75	528
15 ppm sulfur and under	505	59	564	408	45	75	528
Greater than 15 ppm to 500 ppm sulfur	-108	0	-108	—	—	91	91
Greater than 500 ppm sulfur	197	—	197	—	—	-91	-91
Residual Fuel Oil	36	—	36	—	—	—	—
Less than 0.31 percent sulfur	-39	—	-39	—	—	—	—
0.31 to 1.00 percent sulfur	4	—	4	—	—	—	—
Greater than 1.00 percent sulfur	71	—	71	—	—	—	—
Special Naphthas	—	—	—	—	—	—	—
Lubricants	—	—	—	—	—	—	—
Asphalt and Road Oil	-65	—	-65	81	—	1	82
Miscellaneous Products	—	—	—	—	—	—	—
Total Production	88,361	6,268	94,629	44,625	8,997	13,888	67,510
Processing Gain(-) or Loss(+) ¹	-3	-1	-4	10	0	-1	9

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	16,801	12,146	2,846	8,800	1,025	41,618	4,390	43,666	251,080
Reformulated	7,306	6,388	—	—	—	13,694	—	32,356	95,053
Reformulated Blended with Fuel Ethanol	7,306	6,388	—	—	—	13,694	—	32,356	95,053
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	9,495	5,758	2,846	8,800	1,025	27,924	4,390	11,310	156,027
Conventional Blended with Fuel Ethanol	9,737	1,267	2,857	9,593	1,065	24,519	5,828	12,883	161,405
Ed55 and Lower	9,733	1,267	2,857	9,583	1,065	24,505	5,819	12,880	161,269
Greater than Ed55	4	—	—	10	—	14	9	3	136
Conventional Other	-242	4,491	-11	-793	-40	3,405	-1,438	-1,573	-5,378
Finished Aviation Gasoline	—	—	—	—	—	—	—	-1	-1
Kerosene-Type Jet Fuel	—	27	8	—	—	35	31	-43	-480
Kerosene	—	-37	1	—	—	-36	—	17	-17
Distillate Fuel Oil	45	76	77	33	26	257	-18	441	1,861
15 ppm sulfur and under	45	-22	77	33	26	159	-18	423	1,656
Greater than 15 ppm to 500 ppm sulfur	—	—	—	—	—	—	—	—	-17
Greater than 500 ppm sulfur	—	98	—	—	—	98	—	18	222
Residual Fuel Oil	—	0	23	—	—	23	—	—	59
Less than 0.31 percent sulfur	—	20	—	—	—	20	—	—	-19
0.31 to 1.00 percent sulfur	—	2	—	—	—	2	—	—	6
Greater than 1.00 percent sulfur	—	-22	23	—	—	1	—	—	72
Special Naphthas	—	—	—	—	—	—	—	—	—
Lubricants	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	—	—	-18	—	—	-18	—	—	-1
Miscellaneous Products	—	—	—	—	—	—	—	—	—
Total Production	16,846	12,212	2,937	8,833	1,051	41,879	4,403	44,080	252,501
Processing Gain(-) or Loss(+) ¹	-1	0	1	2	0	2	1	-3	5

— = No Data Reported.

¹ Represents the arithmetic difference between refinery input and production divided by input of crude oil, hydrogen, "other" hydrocarbons, and net input of unfinished oils.

Note: Refer to Appendix A for Refining District descriptions.

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

Table 34. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, November 2016
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	9,722	772	10,494	10,779	2,482	1,841	15,102
Petroleum Products	15,911	1,935	17,846	29,549	6,971	11,330	47,850
Pentanes Plus	—	—	—	27	—	185	212
Liquefied Petroleum Gases	739	40	779	3,713	537	1,198	5,448
Ethane/Ethylene	—	—	—	—	—	—	—
Propane/Propylene	250	3	253	1,457	66	758	2,281
Normal Butane/Butylene	342	23	365	1,983	403	169	2,555
Isobutane/Isobutylene	147	14	161	273	68	271	612
Oxygenates/Renewable Fuels/Other Hydrocarbons	89	104	193	86	44	29	159
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	89	104	193	63	44	29	136
Fuel Ethanol	89	97	186	40	31	26	97
Renewable Diesel Fuel	—	7	7	23	13	3	39
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	23	—	—	23
Unfinished Oils	4,451	413	4,864	7,754	711	4,082	12,547
Naphthas and Lighter	1,004	270	1,274	1,781	153	1,033	2,967
Kerosene and Light Gas Oils	617	—	617	1,895	231	629	2,755
Heavy Gas Oils	1,904	132	2,036	2,905	327	1,474	4,706
Residuum	926	11	937	1,173	—	946	2,119
Motor Gasoline Blending Components (MGBC)	5,697	273	5,970	7,992	1,745	2,546	12,283
Reformulated - RBOB	1,975	—	1,975	934	94	—	1,028
Conventional	3,722	273	3,995	7,058	1,651	2,546	11,255
CBOB	570	226	796	2,712	898	1,558	5,168
GTAB	—	—	—	—	—	—	—
Other	3,152	47	3,199	4,346	753	988	6,087
Aviation Gasoline Blending Components	—	—	—	—	—	—	—
Finished Motor Gasoline	—	28	28	997	161	313	1,471
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	—	28	28	997	161	313	1,471
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	—	28	28	997	161	313	1,471
Finished Aviation Gasoline	—	—	—	—	55	—	55
Kerosene-Type Jet Fuel	603	—	603	1,307	315	233	1,855
Kerosene	92	6	98	88	—	20	108
Distillate Fuel Oil	2,519	179	2,698	3,582	1,710	1,620	6,912
15 ppm sulfur and under	1,726	53	1,779	3,362	1,114	1,513	5,989
Greater than 15 ppm to 500 ppm sulfur	34	101	135	—	100	69	169
Greater than 500 ppm sulfur	759	25	784	220	496	38	754
Residual Fuel Oil	559	19	578	905	162	43	1,110
Less than 0.31 percent sulfur	142	17	159	—	19	—	19
0.31 to 1.00 percent sulfur	56	2	58	113	36	—	149
Greater than 1.00 percent sulfur	361	—	361	792	107	43	942
Petrochemical Feedstocks	217	—	217	544	81	—	625
Naphtha for Petro. Feed. Use	217	—	217	406	81	—	487
Other Oils for Petro. Feed. Use	—	—	—	138	—	—	138
Special Naphthas	—	10	10	66	—	19	85
Lubricants	416	291	707	—	—	273	273
Waxes	—	333	333	—	—	55	55
Petroleum Coke	—	—	—	301	510	86	897
Marketable	—	—	—	301	510	86	897
Catalyst	—	—	—	—	—	—	—
Asphalt and Road Oil	512	219	731	2,105	919	621	3,645
Miscellaneous Products	17	20	37	82	21	7	110
Total Stocks, All Oils	25,633	2,707	28,340	40,328	9,453	13,171	62,952

See footnotes at end of table.

Table 34. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, November 2016
(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	1,755	26,547	18,496	1,195	316	48,309	2,770	25,027	101,702
Petroleum Products	9,943	58,001	51,117	3,775	1,427	124,263	11,055	49,548	250,562
Pentanes Plus	218	29	300	—	26	573	21	1	807
Liquefied Petroleum Gases	2,556	1,201	5,960	12	36	9,765	434	1,580	18,006
Ethane/Ethylene	99	—	—	—	—	99	—	—	99
Propane/Propylene	1,373	77	1,401	2	3	2,856	38	122	5,550
Normal Butane/Butylene	984	906	3,619	5	17	5,531	285	1,032	9,768
Isobutane/Isobutylene	100	218	940	5	16	1,279	111	426	2,589
Oxygenates/Renewable Fuels/Other Hydrocarbons	45	160	143	64	13	425	122	329	1,228
Oxygenates (excluding Fuel Ethanol)	—	88	—	—	—	88	—	—	88
Methyl Tertiary Butyl Ether (MTBE)	—	88	—	—	—	88	—	—	88
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	45	72	143	64	13	337	122	329	1,117
Fuel Ethanol	39	38	69	26	11	183	115	36	617
Renewable Diesel Fuel	6	34	74	38	2	154	7	262	469
Other Renewable Fuels	—	—	—	—	—	—	—	31	31
Other Hydrocarbons	—	—	—	—	—	—	—	—	23
Unfinished Oils	2,279	20,225	14,458	847	667	38,476	2,670	19,108	77,665
Naphthas and Lighter	953	6,290	2,327	193	260	10,023	569	3,081	17,914
Kerosene and Light Gas Oils	423	3,850	2,330	135	217	6,955	444	3,215	13,986
Heavy Gas Oils	421	8,097	7,451	459	190	16,618	1,324	9,737	34,421
Residuum	482	1,988	2,350	60	—	4,880	333	3,075	11,344
Motor Gasoline Blending Components (MGBC)	2,446	13,349	12,216	306	337	28,654	3,253	13,121	63,281
Reformulated - RBOB	211	1,123	462	—	—	1,796	—	5,113	9,912
Conventional	2,235	12,226	11,754	306	337	26,858	3,253	8,008	53,369
CBOB	1,045	4,417	6,285	175	99	12,021	1,379	1,966	21,330
GTAB	—	—	—	—	—	—	—	—	—
Other	1,190	7,809	5,469	131	238	14,837	1,874	6,042	32,039
Aviation Gasoline Blending Components	17	—	—	—	—	17	—	—	17
Finished Motor Gasoline	429	2,145	1,507	27	68	4,176	1,120	1,026	7,821
Reformulated	—	—	—	—	—	—	—	20	20
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	20	20
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	429	2,145	1,507	27	68	4,176	1,120	1,006	7,801
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	63	—	63
Ed55 and Lower	—	—	—	—	—	—	63	—	63
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	429	2,145	1,507	27	68	4,176	1,057	1,006	7,738
Finished Aviation Gasoline	29	102	178	—	—	309	8	202	574
Kerosene-Type Jet Fuel	323	2,970	2,559	49	—	5,901	305	3,787	12,451
Kerosene	41	7	48	4	—	100	1	4	311
Distillate Fuel Oil	810	7,816	6,996	437	112	16,171	2,121	5,584	33,486
15 ppm sulfur and under	710	7,351	5,354	343	112	13,870	1,911	4,865	28,414
Greater than 15 ppm to 500 ppm sulfur	25	58	643	38	—	764	168	158	1,394
Greater than 500 ppm sulfur	75	407	999	56	—	1,537	42	561	3,678
Residual Fuel Oil	96	2,383	1,436	17	46	3,978	227	2,264	8,157
Less than 0.31 percent sulfur	8	—	225	—	—	233	35	—	446
0.31 to 1.00 percent sulfur	—	136	58	17	4	215	4	385	811
Greater than 1.00 percent sulfur	88	2,247	1,153	—	42	3,530	188	1,879	6,900
Petrochemical Feedstocks	142	1,749	591	7	—	2,489	—	3	3,334
Naphtha for Petro. Feed. Use	37	952	360	7	—	1,356	—	3	2,063
Other Oils for Petro. Feed. Use	105	797	231	—	—	1,133	—	—	1,271
Special Naphthas	70	744	—	77	—	891	—	44	1,030
Lubricants	46	2,648	2,717	811	—	6,222	—	552	7,754
Waxes	—	62	110	74	—	246	—	—	634
Petroleum Coke	10	2,069	1,243	—	—	3,322	181	1,157	5,557
Marketable	10	2,069	1,243	—	—	3,322	181	1,157	5,557
Catalyst	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	323	117	534	1,042	101	2,117	573	704	7,770
Miscellaneous Products	63	225	121	1	21	431	19	82	679
Total Stocks, All Oils	11,698	84,548	69,613	4,970	1,743	172,572	13,825	74,575	352,264

— = 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).

Note: Refer to Appendix A for Refining District descriptions.

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

Table 35. Percent Yield of Petroleum Products by PAD and Refining Districts, November 2016

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
Liquefied Refinery Gases	0.9	-2.5	0.7	1.4	-1.1	-0.4	0.7
Finished Motor Gasoline ¹	48.7	42.6	48.2	54.3	50.8	52.1	53.3
Finished Aviation Gasoline ²	—	—	—	—	0.1	—	0.0
Kerosene-Type Jet Fuel	8.8	—	8.1	8.3	5.4	4.3	6.9
Kerosene	0.1	0.2	0.1	0.1	—	—	0.1
Distillate Fuel Oil ³	30.3	28.0	30.1	25.8	35.6	37.7	30.0
Residual Fuel Oil	4.5	0.2	4.2	1.6	2.4	0.4	1.4
Naphtha for Petro. Feed. Use	0.4	—	0.4	0.9	0.0	—	0.6
Other Oils for Petro. Feed. Use	—	—	—	0.3	—	0.2	0.2
Special Naphthas	—	0.9	0.1	0.1	—	0.1	0.0
Lubricants	0.6	7.2	1.1	—	—	1.0	0.2
Waxes	—	0.3	0.0	—	—	0.1	0.0
Petroleum Coke	3.7	0.6	3.4	5.5	5.4	3.6	5.0
Asphalt and Road Oil	2.6	18.4	3.8	3.8	4.4	1.9	3.4
Still Gas	3.7	2.3	3.6	3.6	3.7	3.7	3.6
Miscellaneous Products	0.2	1.0	0.3	0.4	0.7	0.3	0.4
Processing Gain(-) or Loss(+) ⁴	-4.6	0.7	-4.2	-6.0	-7.5	-4.8	-5.9

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			
Liquefied Refinery Gases	1.8	3.5	3.9	-0.7	0.3	3.4	1.4	0.0	2.1
Finished Motor Gasoline ¹	56.1	44.7	41.8	32.3	51.4	44.2	48.2	52.0	47.7
Finished Aviation Gasoline ²	0.4	0.1	0.1	—	—	0.1	0.0	0.1	0.1
Kerosene-Type Jet Fuel	6.5	10.0	11.4	2.5	—	10.0	4.5	17.1	10.0
Kerosene	0.0	0.0	0.0	0.3	—	0.0	—	0.0	0.0
Distillate Fuel Oil ³	30.1	29.5	31.4	34.1	41.0	30.6	34.8	22.5	29.4
Residual Fuel Oil	1.2	2.3	3.8	-0.6	4.5	2.8	2.0	3.4	2.7
Naphtha for Petro. Feed. Use	0.6	2.8	0.9	0.2	—	1.7	—	0.0	1.1
Other Oils for Petro. Feed. Use	0.0	1.2	1.1	—	—	1.0	—	—	0.6
Special Naphthas	0.4	0.4	—	2.7	—	0.3	—	0.1	0.2
Lubricants	0.1	1.4	1.5	12.9	—	1.6	—	0.1	1.0
Waxes	—	0.0	0.0	0.5	—	0.0	—	—	0.0
Petroleum Coke	2.0	6.9	5.7	2.1	2.2	5.8	4.4	6.1	5.5
Asphalt and Road Oil	1.0	0.2	0.7	13.0	-0.3	0.8	5.5	1.1	1.8
Still Gas	3.8	4.3	3.8	2.6	2.2	4.0	3.8	4.8	4.0
Miscellaneous Products	0.3	0.7	0.6	0.0	1.0	0.6	0.5	0.6	0.5
Processing Gain(-) or Loss(+) ⁴	-4.3	-8.0	-6.6	-2.1	-2.1	-6.9	-5.0	-7.8	-6.6

— = No Data Reported.

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

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

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

⁴ Represents the arithmetic difference between refinery input and production divided by input of crude oil, hydrogen, "other" hydrocarbons, and net input of unfinished oils.

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

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

Note: Refer to Appendix A for Refining District descriptions.

Source: Calculated from data on Tables 30 and 31.

Table 36. Imports of Residual Fuel Oil by Sulfur Content and by PAD District and State of Entry, November 2016
(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	145	—	2,370	2,515
Connecticut	—	—	—	—
Delaware	—	—	—	—
Florida	—	—	964	964
Georgia	—	—	—	—
Maine	—	—	—	—
Maryland	—	—	—	—
Massachusetts	—	—	—	—
New Hampshire	—	—	—	—
New Jersey	145	—	612	757
New York	—	—	334	334
North Carolina	—	—	—	—
Pennsylvania	—	—	174	174
Rhode Island	—	—	—	—
South Carolina	—	—	192	192
Vermont	—	—	1	1
Virginia	—	—	93	93
West Virginia	—	—	—	—
PAD District 2	—	84	10	94
Illinois	—	—	—	—
Indiana	—	—	—	—
Michigan	—	—	10	10
Minnesota	—	83	—	83
North Dakota	—	1	—	1
Ohio	—	—	—	—
Wisconsin	—	—	—	—
PAD District 3	723	409	2,057	3,189
Alabama	—	—	—	—
Louisiana	—	91	637	728
Mississippi	—	—	—	—
New Mexico	—	—	—	—
Texas	723	318	1,420	2,461
PAD District 4	—	—	—	—
Idaho	—	—	—	—
Montana	—	—	—	—
PAD District 5	—	—	1,951	1,951
Alaska	—	—	—	—
California	—	—	987	987
Hawaii	—	—	65	65
Oregon	—	—	—	—
Washington	—	—	899	899
U.S. Total	868	493	6,388	7,749

— = No Data Reported.

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

Table 37. Imports of Crude Oil and Petroleum Products by PAD District, November 2016
(Thousand Barrels, Except Where Noted)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil^{1,2}	27,529	70,249	105,103	9,649	29,076	241,606	8,054
Natural Gas Plant Liquids and Liquefied Refinery Gases	1,382	2,898	—	297	1,124	5,701	190
Pentanes Plus	—	4	—	—	—	4	0
Liquefied Petroleum Gases	1,382	2,894	—	297	1,124	5,697	190
Ethane	—	—	—	—	—	—	—
Ethylene	—	—	—	—	—	—	—
Propane	999	1,955	—	296	915	4,165	139
Propylene	227	419	—	—	—	646	22
Normal Butane	97	355	—	—	187	639	21
Butylene	—	78	—	—	—	78	3
Isobutane	59	87	—	1	22	169	6
Isobutylene	—	—	—	—	—	—	—
Other Liquids	20,898	338	14,246	26	3,894	39,402	1,313
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	1,327	73	1,132	6	591	3,129	104
Hydrogen	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol)	—	—	422	—	—	422	14
Methyl Tertiary Butyl Ether (MTBE)	—	—	378	—	—	378	13
Other Oxygenates ³	—	—	44	—	—	44	1
Renewable Fuels (including Fuel Ethanol)	1,327	62	709	6	591	2,695	90
Fuel Ethanol	—	—	—	—	—	—	—
Biomass-Based Diesel Fuel	1,327	62	709	6	80	2,184	73
Other Renewable Diesel Fuel	—	—	—	—	511	511	17
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	11	1	—	—	12	0
Unfinished Oils ¹	1,707	—	11,798	—	2,877	16,382	546
Naphthas and Lighter	631	—	65	—	193	889	30
Kerosene and Lighter Gas Oils	—	—	—	—	—	—	—
Heavy Gas Oils	684	—	8,820	—	2,684	12,188	406
Residuum	392	—	2,913	—	—	3,305	110
Motor Gasoline Blend.Comp. (MGBC)	17,864	265	1,316	20	426	19,891	663
Reformulated - RBOB	6,229	—	—	—	—	6,229	208
Conventional	11,635	265	1,316	20	426	13,662	455
CBOB	300	—	—	—	410	710	24
GTAB	3,670	—	—	—	—	3,670	122
Other	7,665	265	1,316	20	16	9,282	309
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	9,582	724	6,331	54	5,971	22,662	755
Finished Motor Gasoline	1,862	—	—	—	19	1,881	63
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	1,862	—	—	—	19	1,881	63
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	1,862	—	—	—	19	1,881	63
Finished Aviation Gasoline	1	—	—	—	—	1	0
Kerosene-Type Jet Fuel	1,004	—	—	—	3,683	4,687	156
Bonded Aircraft Fuel	186	—	—	—	844	1,030	34
Other	818	—	—	—	2,839	3,657	122
Kerosene	67	—	—	—	—	67	2
Distillate Fuel Oil	3,400	47	693	8	188	4,336	145
15 ppm sulfur and under	2,423	47	—	8	187	2,665	89
Bonded	—	—	—	—	—	—	—
Other	2,423	47	—	8	187	2,665	89
Greater than 15 ppm to 500 ppm sulfur	341	—	—	—	—	341	11
Bonded	—	—	—	—	—	—	—
Other	341	—	—	—	—	341	11
Greater than 500 ppm to 2000 ppm sulfur	247	—	693	—	1	941	31
Bonded	—	—	—	—	—	—	—
Other	247	—	693	—	1	941	31
Greater than 2000 ppm	389	—	—	—	—	389	13
Bonded	—	—	—	—	—	—	—
Other	389	—	—	—	—	389	13
Residual Fuel Oil	2,515	94	3,189	—	1,951	7,749	258
Less than 0.31 percent sulfur	145	—	723	—	—	868	29
0.31 to 1.00 percent sulfur	—	84	409	—	—	493	16
Greater than 1.00 percent sulfur	2,370	10	2,057	—	1,951	6,388	213
Petrochemical Feedstocks	—	139	1,099	—	—	1,238	41
Naphtha for Petro. Feed. Use	—	83	1,087	—	—	1,170	39
Other Oils for Petro. Feed. Use	—	56	12	—	—	68	2
Special Naphthas	—	28	513	—	—	541	18
Lubricants	131	207	679	—	29	1,046	35
Waxes	92	4	2	—	14	112	4
Petroleum Coke (Marketable)	1	15	156	—	32	204	7
Asphalt and Road Oil	509	190	—	44	55	798	27
Miscellaneous Products	—	—	—	2	—	2	0
Total	59,391	74,209	125,680	10,026	40,065	309,371	10,312

— = No Data Reported.

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

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

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

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

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

Table 38. Year-to-Date Imports of Crude Oil and Petroleum Products by PAD District, January-November 2016
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil^{1,2}	296,089	732,826	1,126,879	91,135	392,524	2,639,453	7,879
Natural Gas Plant Liquids and Liquefied Refinery Gases	14,326	26,605	3,129	3,365	5,745	53,170	159
Pentanes Plus	—	326	2,878	—	—	3,204	10
Liquefied Petroleum Gases	14,326	26,279	251	3,365	5,745	49,966	149
Ethane	43	—	—	—	—	43	0
Ethylene	—	—	—	—	—	—	—
Propane	9,360	17,046	—	3,179	5,156	34,741	104
Propylene	3,495	4,199	—	—	38	7,732	23
Normal Butane	485	2,053	—	6	508	3,052	9
Butylene	—	803	251	—	—	1,054	3
Isobutane	943	2,178	—	180	43	3,344	10
Isobutylene	—	—	—	—	—	—	—
Other Liquids	215,219	2,733	181,509	832	42,631	442,924	1,322
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	7,541	703	9,186	192	5,755	23,377	70
Hydrogen	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol)	—	—	3,690	—	—	3,690	11
Methyl Tertiary Butyl Ether (MTBE)	—	—	2,856	—	—	2,856	9
Other Oxygenates ³	—	—	834	—	—	834	2
Renewable Fuels (including Fuel Ethanol)	7,535	599	5,411	138	5,755	19,438	58
Fuel Ethanol	12	—	94	—	756	862	3
Biomass-Based Diesel Fuel	6,979	599	5,317	138	796	13,829	41
Other Renewable Diesel Fuel	544	—	—	—	4,203	4,747	14
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	6	104	85	54	—	249	1
Unfinished Oils ¹	13,305	—	156,824	—	27,301	197,430	589
Naphthas and Lighter	1,053	—	735	—	1,107	2,895	9
Kerosene and Lighter Gas Oils	—	—	—	—	—	—	—
Heavy Gas Oils	8,363	—	109,079	—	25,989	143,431	428
Residuum	3,889	—	47,010	—	205	51,104	153
Motor Gasoline Blend.Comp. (MGBC)	194,373	2,030	15,499	640	9,575	222,117	663
Reformulated - RBOB	61,795	—	638	—	727	63,160	189
Conventional	132,578	2,030	14,861	640	8,848	158,957	474
CBOB	10,514	278	219	—	4,290	15,301	46
GTAB	41,042	—	584	—	—	41,626	124
Other	81,022	1,752	14,058	640	4,558	102,030	305
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	117,128	9,041	52,605	532	62,294	241,600	721
Finished Motor Gasoline	18,881	65	808	—	994	20,748	62
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	18,881	65	808	—	994	20,748	62
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	18,881	65	808	—	994	20,748	62
Finished Aviation Gasoline	10	2	—	8	61	81	0
Kerosene-Type Jet Fuel	19,084	5	—	14	30,643	49,746	148
Bonded Aircraft Fuel	1,910	—	—	—	8,790	10,700	32
Other	17,174	5	—	14	21,853	39,046	117
Kerosene	630	1	—	—	—	631	2
Distillate Fuel Oil	39,317	721	3,589	49	4,903	48,579	145
15 ppm sulfur and under	26,940	436	216	49	4,633	32,274	96
Bonded	—	—	—	—	44	44	0
Other	26,940	436	216	49	4,589	32,230	96
Greater than 15 ppm to 500 ppm sulfur	1,227	—	313	—	54	1,594	5
Bonded	—	—	—	—	—	—	—
Other	1,227	—	313	—	54	1,594	5
Greater than 500 ppm to 2000 ppm sulfur	10,368	163	2,572	—	216	13,319	40
Bonded	—	—	—	—	—	—	—
Other	10,368	163	2,572	—	216	13,319	40
Greater than 2000 ppm	782	122	488	—	—	1,392	4
Bonded	—	—	—	—	—	—	—
Other	782	122	488	—	—	1,392	4
Residual Fuel Oil	26,235	1,108	25,433	—	23,325	76,101	227
Less than 0.31 percent sulfur	1,834	—	1,935	—	—	3,769	11
0.31 to 1.00 percent sulfur	3,378	673	4,426	—	594	9,071	27
Greater than 1.00 percent sulfur	21,023	435	19,072	—	22,731	63,261	189
Petrochemical Feedstocks	36	1,615	8,617	—	336	10,604	32
Naphtha for Petro. Feed. Use	23	909	7,524	—	336	8,792	26
Other Oils for Petro. Feed. Use	13	706	1,093	—	—	1,812	5
Special Naphthas	—	520	4,243	—	—	4,763	14
Lubricants	2,108	2,321	8,495	—	192	13,116	39
Waxes	827	58	255	—	490	1,630	5
Petroleum Coke (Marketable)	1,704	181	1,063	—	313	3,261	10
Asphalt and Road Oil	8,296	2,444	102	448	1,037	12,327	37
Miscellaneous Products	—	—	—	13	—	13	0
Total	642,762	771,205	1,364,122	95,864	503,194	3,377,147	10,081

— = No Data Reported.

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

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

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

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

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

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, November 2016
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Pentanes Plus	Liquefied Petroleum Gases	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	97,269	—	—	5,588	—	—	—	—	1,450	1,450
Algeria	3,875	—	—	4,398	—	—	—	—	—	—
Angola	4,837	—	—	376	—	—	—	—	—	—
Ecuador	7,500	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	12,428	—	—	598	—	—	—	—	—	—
Kuwait	6,847	—	—	—	—	—	—	—	—	—
Libya	801	—	—	—	—	—	—	—	—	—
Nigeria	6,273	—	—	216	—	—	—	—	906	906
Qatar	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	30,005	—	—	—	—	—	—	—	—	—
United Arab Emirates	785	—	—	—	—	—	—	—	—	—
Venezuela	23,918	—	—	—	—	—	—	—	544	544
Non-OPEC	144,337	4	5,697	10,794	—	1,881	1,881	6,229	12,212	18,441
Argentina	722	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	68	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	802	—	—	—	—	110	110
Brazil	4,932	—	—	—	—	—	—	—	380	380
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	106,693	4	5,629	—	—	986	986	2,117	1,235	3,352
Chad	947	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	28	28
Colombia	9,438	—	—	—	—	—	—	—	650	650
Congo (Brazzaville)	—	—	—	—	—	—	—	—	49	49
Denmark	—	—	—	—	—	—	—	—	—	—
Egypt	524	—	—	—	—	—	—	—	190	190
Equatorial Guinea	432	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	140	140	96	755	851
France	—	—	—	106	—	36	36	601	24	625
Germany	—	—	—	—	—	—	—	41	—	41
Guatemala	278	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	697	697
Italy	—	—	—	—	—	—	—	—	572	572
Korea, South	—	—	—	575	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	100	100
Lithuania	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	562	—	—	—	—	—	—
Mexico	18,675	—	—	65	—	—	—	—	567	567
Netherlands	—	—	—	65	—	—	—	1,525	336	1,861
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	49	1,079	1,128
Oman	597	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	282	282	—	285	285
Russia	—	—	—	7,347	—	—	—	112	1,957	2,069
Spain	—	—	—	196	—	241	241	—	1,024	1,024
Sweden	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	361	—	—	—	—	144	144	—	35	35
United Kingdom	540	—	—	405	—	—	—	1,688	1,179	2,867
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	198	0	0	671	—	52	52	0	960	960
Total	241,606	4	5,697	16,382	—	1,881	1,881	6,229	13,662	19,891
Persian Gulf³	50,065	—	—	598	—	—	—	—	—	—

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, November 2016
(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	—	—	—	655	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	655	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	378	44	—	1,529	511	—	2,665	341	941	389	4,336
Argentina	15	—	—	1,144	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	224	—	—	—	—	—	—	—	—	—	—
Brazil	—	44	—	—	—	—	—	—	254	—	254
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	—	175	—	—	1,673	41	248	—	1,962
Chad	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	386	—	—	—	386
Colombia	—	—	—	—	—	—	—	300	—	300	600
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—	—	—
Germany	53	—	—	142	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	310	—	—	89	399
Italy	—	—	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	68	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—	—
Netherlands	77	—	—	—	—	—	—	—	30	—	30
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	296	—	409	—	705
Spain	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	9	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	—	0	511	—	0	0	0	0	0
Total	378	44	—	2,184	511	—	2,665	341	941	389	4,336
Persian Gulf³	—	—	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, November 2016
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
OPEC	—	—	—	131	71	—	91	689	780
Algeria	—	—	—	—	—	—	91	—	91
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	14	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	8	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	71	—	—	—	—
United Arab Emirates	—	—	—	36	—	—	—	—	—
Venezuela	—	—	—	73	—	—	—	689	689
Non-OPEC	67	1	—	4,556	470	868	402	5,699	6,969
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	22	—	—	28	28
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	145	—	—	145
Canada	—	1	—	151	179	—	84	1,182	1,266
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	314	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	365	365
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	240	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	3,514	179	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	22	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	1,294	1,294
Netherlands	—	—	—	—	—	—	—	178	178
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	469	266	1,705	2,440
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	317	317
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	325	325
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	67	0	—	315	90	254	52	305	611
Total	67	1	—	4,687	541	868	493	6,388	7,749
Persian Gulf³	—	—	—	36	71	—	—	—	—

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, November 2016
(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	632	—	—	—	137	289	—	9,733	107,002	3,242	324	3,567
Algeria	632	—	—	—	—	—	—	5,121	8,996	129	171	300
Angola	—	—	—	—	—	—	—	376	5,213	161	13	174
Ecuador	—	—	—	—	—	—	—	—	7,500	250	—	250
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	23	—	692	692	—	23	23
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	598	13,026	414	20	434
Kuwait	—	—	—	—	—	—	—	—	6,847	228	—	228
Libya	—	—	—	—	—	—	—	8	809	27	0	27
Nigeria	—	—	—	—	—	—	—	1,122	7,395	209	37	247
Qatar	—	—	—	—	—	266	—	266	266	—	9	9
Saudi Arabia	—	—	—	—	—	—	—	71	30,076	1,000	2	1,003
United Arab Emirates	—	—	—	—	—	—	—	36	821	26	1	27
Venezuela	—	—	—	—	137	—	—	1,443	25,361	797	48	845
Non-OPEC	538	68	112	204	661	757	2	58,032	202,369	4,811	1,934	6,746
Argentina	—	—	—	—	—	1	—	1,160	1,882	24	39	63
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	68	68	—	2	2
Bahamas	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	54	—	54	54	—	2	2
Belgium	—	—	—	—	—	3	—	1,139	1,139	—	38	38
Brazil	—	—	—	—	—	—	—	728	5,660	164	24	189
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	145	145	—	5	5
Canada	83	56	72	46	629	328	2	14,932	121,625	3,556	498	4,054
Chad	—	—	—	—	—	—	—	—	947	32	—	32
China	—	—	13	—	—	—	—	741	741	—	25	25
Colombia	—	—	—	—	—	—	—	1,615	11,053	315	54	368
Congo (Brazzaville)	—	—	—	—	—	—	—	49	49	—	2	2
Denmark	—	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	190	714	17	6	24
Equatorial Guinea	—	—	—	—	—	—	—	—	432	14	—	14
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	991	991	—	33	33
France	—	12	—	—	—	6	—	785	785	—	26	26
Germany	—	—	1	—	—	14	—	251	251	—	8	8
Guatemala	—	—	—	—	—	—	—	—	278	9	—	9
India	—	—	—	—	—	—	—	1,336	1,336	—	45	45
Italy	—	—	—	—	—	7	—	580	580	—	19	19
Korea, South	—	—	—	—	—	255	—	4,591	4,591	—	153	153
Latvia	—	—	—	—	—	—	—	100	100	—	3	3
Lithuania	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	1	—	—	—	—	585	585	—	20	20
Mexico	317	—	—	—	—	—	—	2,243	20,918	623	75	697
Netherlands	15	—	—	—	—	—	—	2,226	2,226	—	74	74
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	1,128	1,128	—	38	38
Oman	—	—	—	—	—	—	—	—	597	20	—	20
Portugal	—	—	—	—	—	—	—	567	567	—	19	19
Russia	—	—	—	—	—	—	—	12,561	12,561	—	419	419
Spain	—	—	—	—	—	31	—	1,492	1,492	—	50	50
Sweden	—	—	—	2	—	—	—	319	319	—	11	11
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	504	865	12	17	29
United Kingdom	76	—	—	156	—	47	—	3,560	4,100	18	119	137
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	47	0	25	0	32	11	0	3,392	3,590	7	110	118
Total	1,170	68	112	204	798	1,046	2	67,765	309,371	8,054	2,259	10,312
Persian Gulf³	—	—	—	—	—	320	—	1,025	51,090	1,669	34	1,703

— = No Data Reported.

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

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

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

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

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

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-November 2016
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Pentanes Plus	Liquefied Petroleum Gases	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	1,061,922	—	577	49,706	—	2	2	5	14,699	14,704
Algeria	15,035	—	577	41,853	—	—	—	—	515	515
Angola	54,973	—	—	3,036	—	—	—	—	323	323
Ecuador	79,528	—	—	—	—	—	—	—	521	521
Gabon	439	—	—	397	—	—	—	—	—	—
Indonesia	12,312	—	—	—	—	—	—	—	255	255
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	134,752	—	—	921	—	—	—	—	—	—
Kuwait	68,576	—	—	—	—	—	—	—	—	—
Libya	3,262	—	—	1,277	—	—	—	—	—	—
Nigeria	70,045	—	—	216	—	2	2	—	8,108	8,108
Qatar	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	370,161	—	—	1,351	—	—	—	—	—	—
United Arab Emirates	3,723	—	—	531	—	—	—	—	—	—
Venezuela	249,116	—	—	521	—	—	—	5	4,977	4,982
Non-OPEC	1,577,531	3,204	49,389	147,724	—	20,746	20,746	63,155	144,258	207,413
Argentina	4,254	—	170	166	—	—	—	—	219	219
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	1,473	—	127	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	20	20
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	14,371	—	1,288	1,288	479	4,204	4,683
Brazil	49,468	—	—	296	—	323	323	—	2,729	2,729
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	647	—	—	—	—	—	—
Canada	1,085,014	326	47,753	1,296	—	11,066	11,066	29,009	19,429	48,438
Chad	22,439	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	96	96	—	571	571
Colombia	150,487	—	—	1,284	—	—	—	—	5,071	5,071
Congo (Brazzaville)	1,147	—	—	45	—	—	—	—	56	56
Denmark	627	—	—	110	—	4	4	110	77	187
Egypt	3,833	—	—	332	—	—	—	—	435	435
Equatorial Guinea	2,250	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	190	—	207	207	227	6,929	7,156
France	—	—	—	4,487	—	332	332	6,353	1,211	7,564
Germany	—	—	—	783	—	—	—	154	32	186
Guatemala	2,434	—	—	—	—	—	—	—	—	—
India	—	—	—	1,762	—	23	23	474	19,605	20,079
Italy	—	—	45	2,268	—	299	299	151	2,931	3,082
Korea, South	—	—	119	789	—	236	236	—	1,504	1,504
Latvia	—	—	—	—	—	—	—	—	417	417
Lithuania	—	—	—	—	—	20	20	—	614	614
Malaysia	1,657	—	—	2,676	—	—	—	—	341	341
Mexico	197,127	1,960	163	562	—	—	—	—	4,924	4,924
Netherlands	314	—	43	2,671	—	1,692	1,692	5,235	5,587	10,822
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
Norway	12,937	—	43	3,532	—	365	365	173	9,668	9,841
Oman	10,533	—	—	—	—	—	—	—	36	36
Portugal	—	—	—	—	—	1,102	1,102	2,669	4,591	7,260
Russia	13,229	—	—	98,566	—	1	1	605	15,864	16,469
Spain	—	—	—	690	—	869	869	—	14,266	14,266
Sweden	—	—	668	1,121	—	308	308	98	545	643
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	2,565	—	78	—	—	457	457	—	1,675	1,675
United Kingdom	6,274	—	—	2,313	—	1,594	1,594	17,165	12,577	29,742
Vietnam	1,403	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	21	21
Yemen	—	—	—	—	—	—	—	—	—	—
Other	8,066	918	180	6,767	—	464	464	253	8,109	8,362
Total	2,639,453	3,204	49,966	197,430	—	20,748	20,748	63,160	158,957	222,117
Persian Gulf³	577,212	—	—	2,803	—	—	—	—	—	—

See footnotes at end of table.

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-November 2016
(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
OPEC	262	—	—	2,355	—	—	325	—	328	—	653
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	2,355	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	325	—	328	—	653
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	262	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	2,594	834	862	11,474	4,747	—	31,949	1,594	12,991	1,392	47,926
Argentina	149	—	—	8,689	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	45	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	483	—	—	—	—	—	270	—	—	—	270
Brazil	637	834	850	—	—	—	—	—	254	—	254
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	162
Canada	—	—	12	1,961	—	—	23,650	626	9,731	222	34,229
Chad	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	798	—	—	—	798
Colombia	—	—	—	—	—	—	—	601	156	300	1,057
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	50	—	50
Germany	182	—	—	341	—	—	—	—	102	—	113
Guatemala	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	1,027	—	—	382	1,409
Italy	—	—	—	—	—	—	—	—	—	—	220
Korea, South	—	—	—	438	—	—	1,168	54	—	—	1,222
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	220	—	220
Netherlands	864	—	—	—	—	—	350	—	54	115	519
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	195	—	—	—	195
Russia	270	—	—	—	—	—	3,251	—	901	—	4,152
Spain	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	674	—	874
Syria	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	481	—	481
United Kingdom	9	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	0	0	4,747	—	1,240	313	368	373	1,701
Total	2,856	834	862	13,829	4,747	—	32,274	1,594	13,319	1,392	48,579
Persian Gulf³	262	—	—	—	—	—	325	—	328	—	653

See footnotes at end of table.

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-November 2016
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
OPEC	—	—	—	3,871	527	1,256	1,858	5,849	8,963
Algeria	—	—	—	—	—	1,244	91	—	1,335
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	5	—	—	—	180	180
Gabon	—	—	—	—	—	—	156	—	156
Indonesia	—	—	—	63	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	342	670
Kuwait	—	—	—	90	—	—	—	—	—
Libya	—	—	—	8	—	—	292	—	292
Nigeria	—	—	—	—	—	12	1,012	—	1,024
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	238	527	—	5	155	160
United Arab Emirates	—	—	—	36	—	—	—	1	1
Venezuela	—	—	—	3,431	—	—	130	5,171	5,301
Non-OPEC	631	81	—	45,875	4,236	2,513	7,213	57,412	67,138
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	425	425
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	40	—	143	183
Brazil	—	—	—	—	114	—	1,037	207	1,244
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	387	—	—	387
Canada	1	20	—	3,317	1,457	126	2,430	10,649	13,205
Chad	—	—	—	—	—	—	—	—	—
China	267	—	—	4,853	—	—	—	—	—
Colombia	—	—	—	4	—	—	256	6,170	6,426
Congo (Brazzaville)	—	—	—	—	—	—	477	—	477
Denmark	—	—	—	—	—	—	—	18	18
Egypt	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	37	6	43
France	—	—	—	—	—	—	182	58	240
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	6,244	—	—	—	—	—
Italy	—	—	—	—	42	—	—	295	295
Korea, South	—	—	—	26,729	1,484	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	94	—	—	—	—	—
Mexico	—	—	—	—	—	—	58	16,630	16,688
Netherlands	—	61	—	—	29	—	—	2,794	2,794
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	340	225	—	565
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Russia	—	—	—	20	—	847	1,274	13,539	15,660
Spain	—	—	—	—	—	—	—	362	362
Sweden	—	—	—	—	—	—	—	724	724
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	3,288	3,288
United Kingdom	—	—	—	—	—	—	—	62	62
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	363	0	—	4,614	1,110	773	1,237	2,042	4,052
Total	631	81	—	49,746	4,763	3,769	9,071	63,261	76,101
Persian Gulf³	—	—	—	364	527	—	333	498	831

See footnotes at end of table.

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-November 2016
(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	1,332	210	2	1,637	2,045	3,662	—	90,508	1,152,430	3,170	270	3,440
Algeria	952	—	—	—	—	—	—	45,232	60,267	45	135	180
Angola	—	—	—	—	—	—	—	3,359	58,332	164	10	174
Ecuador	—	—	—	—	—	—	—	706	80,234	237	2	240
Gabon	—	—	—	—	—	—	—	553	—	1	2	—
Indonesia	—	—	2	—	—	589	—	3,264	15,576	37	10	46
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	1,591	136,343	402	5	407
Kuwait	—	—	—	138	—	—	—	228	68,804	205	1	205
Libya	—	—	—	—	—	—	—	1,577	4,839	10	5	14
Nigeria	—	210	—	—	—	—	—	9,560	79,605	209	29	238
Qatar	—	—	—	—	—	3,073	—	3,726	3,726	—	11	11
Saudi Arabia	380	—	—	—	—	—	—	2,656	372,817	1,105	8	1,113
United Arab Emirates	—	—	—	—	—	—	—	830	4,553	11	2	14
Venezuela	—	—	—	1,499	2,045	—	—	17,779	266,895	744	53	797
Non-OPEC	7,460	1,602	1,628	1,624	10,282	9,454	13	647,186	2,224,717	4,709	1,932	6,641
Argentina	17	377	—	397	—	26	—	10,210	14,464	13	30	43
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	172	1,645	4	1	5
Bahamas	—	—	—	—	—	—	—	445	445	—	1	1
Bahrain	—	—	—	—	—	683	—	683	683	—	2	2
Belgium	1	—	—	—	—	169	—	21,448	21,448	—	64	64
Brazil	61	—	40	—	—	24	—	7,423	56,891	148	22	170
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	1,196	1,196	—	4	4
Canada	965	858	600	501	9,314	3,720	13	179,210	1,264,224	3,239	535	3,774
Chad	—	—	—	—	—	—	—	—	22,439	67	—	67
China	—	—	609	—	—	—	—	7,194	7,194	—	21	21
Colombia	—	—	—	192	64	—	—	14,098	164,585	449	42	491
Congo (Brazzaville)	—	—	—	—	—	—	—	578	1,725	3	2	5
Denmark	—	—	—	—	—	—	—	319	946	2	1	3
Egypt	—	—	—	—	—	1	—	768	4,601	11	2	14
Equatorial Guinea	—	—	—	—	—	—	—	—	2,250	7	—	7
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	7,596	7,596	—	23	23
France	—	241	—	—	—	93	—	13,007	13,007	—	39	39
Germany	—	—	23	—	—	151	—	1,785	1,785	—	5	5
Guatemala	—	—	—	—	—	—	—	—	2,434	7	—	7
India	—	—	1	—	—	—	—	29,518	29,518	—	88	88
Italy	—	—	—	—	—	217	—	6,481	6,481	—	19	19
Korea, South	881	—	—	—	43	3,438	—	36,897	36,897	—	110	110
Latvia	—	—	—	—	—	—	—	417	417	—	1	1
Lithuania	—	—	—	—	—	—	—	634	634	—	2	2
Malaysia	—	—	116	—	—	—	—	3,227	4,884	5	10	15
Mexico	4,469	—	—	—	—	—	—	28,986	226,113	588	87	675
Netherlands	192	—	1	—	—	12	—	19,711	20,025	1	59	60
Netherlands Antilles	—	—	—	—	64	—	—	64	64	—	0	0
Norway	—	—	—	176	—	—	—	14,522	27,459	39	43	82
Oman	—	—	—	—	—	—	—	36	10,569	31	0	32
Portugal	—	—	—	—	—	—	—	8,557	8,557	—	26	26
Russia	—	—	—	—	—	331	—	135,476	148,705	39	404	444
Spain	—	—	1	—	505	180	—	16,873	16,873	—	50	50
Sweden	—	—	—	6	—	—	—	4,344	4,344	—	13	13
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	5,979	8,544	8	18	26
United Kingdom	341	—	—	314	—	193	—	34,568	40,842	19	103	122
Vietnam	—	—	—	—	—	—	—	—	1,403	4	—	4
Virgin Islands, U.S.	—	—	—	—	—	—	—	21	21	—	0	0
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	533	126	237	38	292	216	0	34,743	42,809	25	105	127
Total	8,792	1,812	1,630	3,261	12,327	13,116	13	737,694	3,377,147	7,879	2,202	10,081
Persian Gulf³	380	—	—	138	—	3,756	—	9,714	586,926	1,723	29	1,752

— = No Data Reported.

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."

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

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2016
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Pentanes Plus	Liquefied Petroleum Gases	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	16,980	—	—	608	—	—	—	—	1,326	1,326
Algeria	2,294	—	—	392	—	—	—	—	—	—
Angola	3,838	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	2,091	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—
Nigeria	5,771	—	—	216	—	—	—	—	906	906
Qatar	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	1,500	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—
Venezuela	1,486	—	—	—	—	—	—	—	420	420
Non-OPEC	10,549	—	1,382	1,099	—	1,862	1,862	6,229	10,309	16,538
Argentina	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	110	110
Brazil	—	—	—	—	—	—	—	—	311	311
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	7,835	—	1,382	—	—	967	967	2,117	524	2,641
Chad	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	28	28
Colombia	1,547	—	—	—	—	—	—	—	449	449
Congo (Brazzaville)	—	—	—	—	—	—	—	—	49	49
Denmark	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	190	190
Equatorial Guinea	432	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	140	140	96	755	851
France	—	—	—	—	—	36	36	601	24	625
Germany	—	—	—	—	—	—	—	41	—	41
Guatemala	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	697	697
Italy	—	—	—	—	—	—	—	—	542	542
Korea, South	—	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	100	100
Lithuania	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—
Mexico	195	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	—	1,525	336	1,861
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	49	1,079	1,128
Oman	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	282	282	—	285	285
Russia	—	—	—	512	—	—	—	112	1,957	2,069
Spain	—	—	—	196	—	241	241	—	1,024	1,024
Sweden	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	144	144	—	35	35
United Kingdom	540	—	—	172	—	—	—	1,688	1,179	2,867
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	0	—	0	219	—	52	52	0	635	635
Total	27,529	—	1,382	1,707	—	1,862	1,862	6,229	11,635	17,864
Persian Gulf³	3,591	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2016
(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	—	—	—	358	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	358	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	—	—	—	969	—	—	2,423	341	247	389	3,400
Argentina	—	—	—	732	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	—	95	—	—	1,431	41	247	—	1,719
Chad	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	386	—	—	—	386
Colombia	—	—	—	—	—	—	—	—	—	300	600
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	142	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	310	—	—	89	399
Italy	—	—	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	—	—	—	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	296	—	—	—	296
Spain	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	—	—	—	0	—	—	0	300	0	0	0
Total	—	—	—	1,327	—	—	2,423	341	247	389	3,400
Persian Gulf³	—	—	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2016
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
OPEC	—	—	—	73	—	—	—	122	122
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	73	—	—	—	122	122
Non-OPEC	67	1	—	931	—	145	—	2,248	2,393
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	5	5
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	145	—	—	145
Canada	—	1	—	151	—	—	—	949	949
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	359	359
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	214	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	566	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	8	8
Netherlands	—	—	—	—	—	—	—	126	126
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	80	80
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	317	317
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	325	325
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	67	0	—	0	—	0	—	79	79
Total	67	1	—	1,004	—	145	—	2,370	2,515
Persian Gulf³	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2016
(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	—	—	—	—	137	—	—	2,624	19,604	566	87	653
Algeria	—	—	—	—	—	—	—	392	2,686	76	13	90
Angola	—	—	—	—	—	—	—	—	3,838	128	—	128
Ecuador	—	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	358	358	—	12	12
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	2,091	70	—	70
Kuwait	—	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	1,122	6,893	192	37	230
Qatar	—	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	1,500	50	—	50
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	137	—	—	752	2,238	50	25	75
Non-OPEC	—	—	92	1	372	131	—	29,238	39,787	352	975	1,326
Argentina	—	—	—	—	—	—	—	732	732	—	24	24
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	110	110	—	4	4
Brazil	—	—	—	—	—	—	—	316	316	—	11	11
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	145	145	—	5	5
Canada	—	—	68	1	340	117	—	8,431	16,266	261	281	542
Chad	—	—	—	—	—	—	—	—	—	—	—	—
China	—	—	1	—	—	—	—	415	415	—	14	14
Colombia	—	—	—	—	—	—	—	1,408	2,955	52	47	99
Congo (Brazzaville)	—	—	—	—	—	—	—	49	49	—	2	2
Denmark	—	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	190	190	—	6	6
Equatorial Guinea	—	—	—	—	—	—	—	—	432	14	—	14
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	991	991	—	33	33
France	—	—	—	—	—	5	—	666	666	—	22	22
Germany	—	—	—	—	—	8	—	191	191	—	6	6
Guatemala	—	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	1,310	1,310	—	44	44
Italy	—	—	—	—	—	1	—	543	543	—	18	18
Korea, South	—	—	—	—	—	—	—	566	566	—	19	19
Latvia	—	—	—	—	—	—	—	100	100	—	3	3
Lithuania	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	8	203	7	0	7
Netherlands	—	—	—	—	—	—	—	1,987	1,987	—	66	66
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	1,128	1,128	—	38	38
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	567	567	—	19	19
Russia	—	—	—	—	—	—	—	2,957	2,957	—	99	99
Spain	—	—	—	—	—	—	—	1,461	1,461	—	49	49
Sweden	—	—	—	—	—	—	—	317	317	—	11	11
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	504	504	—	17	17
United Kingdom	—	—	—	—	—	—	—	3,039	3,579	18	101	119
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	—	—	23	0	32	0	—	1,107	1,107	0	36	35
Total	—	—	92	1	509	131	—	31,862	59,391	918	1,062	1,980
Persian Gulf³	—	—	—	—	—	—	—	—	3,591	120	—	120

— = No Data Reported.

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

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

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

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

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

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2016
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Pentanes Plus	Liquefied Petroleum Gases	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	1,580	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	1,580	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	68,669	4	2,894	-	-	-	-	-	265	265
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	68,669	4	2,894	-	-	-	-	-	265	265
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	-	-	-	-	-	0	0
Total	70,249	4	2,894	-	-	-	-	-	265	265
Persian Gulf³	1,580	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2016
(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	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	62	-	-	47	-	-	-	47
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	62	-	-	47	-	-	-	47
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	0	-	-	-	0
Total	-	-	-	62	-	-	47	-	-	-	47
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2016
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	-	28	-	84	10	94
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	28	-	84	10	94
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	0	-	0	0	0
Total	-	-	-	-	28	-	84	10	94
Persian Gulf³	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2016
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	—	—	—	—	—	1	—	1	1,581	53	0	53
Algeria	—	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	1	—	1	1	—	0	0
Saudi Arabia	—	—	—	—	—	—	—	—	1,580	53	—	53
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	83	56	4	15	190	206	—	3,959	72,628	2,289	132	2,421
Argentina	—	—	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—	—
Canada	83	56	4	13	190	206	—	3,957	72,626	2,289	132	2,421
Chad	—	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	—	—	—	—	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	2	—	—	—	2	2	—	0	0
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	83	56	4	15	190	207	—	3,960	74,209	2,342	132	2,474
Persian Gulf³	—	—	—	—	—	1	—	1	1,581	53	0	53

— = No Data Reported.

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

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

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

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

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

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2016
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Pentanes Plus	Liquefied Petroleum Gases	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	63,014	—	—	4,597	—	—	—	—	124	124
Algeria	1,581	—	—	3,623	—	—	—	—	—	—
Angola	—	—	—	376	—	—	—	—	—	—
Ecuador	684	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	10,337	—	—	598	—	—	—	—	—	—
Kuwait	4,569	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—
Nigeria	502	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	22,909	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—
Venezuela	22,432	—	—	—	—	—	—	—	124	124
Non-OPEC	42,089	—	—	7,201	—	—	—	—	1,192	1,192
Argentina	261	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	802	—	—	—	—	—	—
Brazil	4,932	—	—	—	—	—	—	—	69	69
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	12,023	—	—	—	—	—	—	—	—	—
Chad	947	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—
Colombia	4,634	—	—	—	—	—	—	—	201	201
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—
Egypt	524	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—
France	—	—	—	106	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—	—
Guatemala	278	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	30	30
Korea, South	—	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—
Mexico	18,129	—	—	65	—	—	—	—	567	567
Netherlands	—	—	—	65	—	—	—	—	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	5,478	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	361	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	233	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	0	—	—	452	—	—	—	—	325	325
Total	105,103	—	—	11,798	—	—	—	—	1,316	1,316
Persian Gulf³	37,815	—	—	598	—	—	—	—	—	—

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2016
(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	—	—	—	297	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	297	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	378	44	—	412	—	—	—	—	693	—	693
Argentina	15	—	—	412	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	224	—	—	—	—	—	—	—	—	—	—
Brazil	—	44	—	—	—	—	—	—	254	—	254
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	—	—	—	—	—	—	—	—	—
Chad	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—	—	—
Germany	53	—	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—	—
Netherlands	77	—	—	—	—	—	—	—	30	—	30
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	409	—	409
Spain	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	9	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	—	0	—	—	—	—	0	—	0
Total	378	44	—	709	—	—	—	—	693	—	693
Persian Gulf³	—	—	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2016
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
OPEC	—	—	—	—	71	—	91	554	645
Algeria	—	—	—	—	—	—	91	—	91
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	71	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	554	554
Non-OPEC	—	—	—	—	442	723	318	1,503	2,544
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	22	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	—	—	—	151	—	—	—	—
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	179	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	402	402
Netherlands	—	—	—	—	—	—	—	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	469	266	1,101	1,836
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	—	—	—	90	254	52	0	306
Total	—	—	—	—	513	723	409	2,057	3,189
Persian Gulf³	—	—	—	—	71	—	—	—	—

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2016
(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	632	—	—	—	—	288	—	6,654	69,668	2,100	222	2,322
Algeria	632	—	—	—	—	—	—	4,346	5,927	53	145	198
Angola	—	—	—	—	—	—	—	376	376	—	13	13
Ecuador	—	—	—	—	—	—	—	—	684	23	—	23
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	23	—	320	320	—	11	11
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	598	10,935	345	20	365
Kuwait	—	—	—	—	—	—	—	—	4,569	152	—	152
Libya	—	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	502	17	—	17
Qatar	—	—	—	—	—	265	—	265	265	—	9	9
Saudi Arabia	—	—	—	—	—	—	—	71	22,980	764	2	766
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	678	23,110	748	23	770
Non-OPEC	455	12	2	156	—	391	—	13,923	56,012	1,403	464	1,867
Argentina	—	—	—	—	—	1	—	428	689	9	14	23
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	54	—	54	54	—	2	2
Belgium	—	—	—	—	—	3	—	1,029	1,029	—	34	34
Brazil	—	—	—	—	—	—	—	389	5,321	164	13	177
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	—	—	—	—	—	151	12,174	401	5	406
Chad	—	—	—	—	—	—	—	—	947	32	—	32
China	—	—	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	201	4,835	154	7	161
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	524	17	—	17
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—	—
France	—	12	—	—	—	1	—	119	119	—	4	4
Germany	—	—	1	—	—	6	—	60	60	—	2	2
Guatemala	—	—	—	—	—	—	—	—	278	9	—	9
India	—	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	6	—	37	37	—	1	1
Korea, South	—	—	—	—	—	232	—	411	411	—	14	14
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	1	—	—	—	—	1	1	—	0	0
Mexico	317	—	—	—	—	—	—	1,351	19,480	604	45	649
Netherlands	15	—	—	—	—	—	—	187	187	—	6	6
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	7,723	7,723	—	257	257
Spain	—	—	—	—	—	31	—	31	31	—	1	1
Sweden	—	—	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	361	12	—	12
United Kingdom	76	—	—	156	—	47	—	521	521	—	17	17
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	47	0	0	0	—	10	—	1,230	1,230	1	42	43
Total	1,087	12	2	156	—	679	—	20,577	125,680	3,503	686	4,189
Persian Gulf³	—	—	—	—	—	319	—	988	38,803	1,261	33	1,293

— = No Data Reported.

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

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

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

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

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

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2016
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Pentanes Plus	Liquefied Petroleum Gases	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
	PAD District 4									
OPEC	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	9,649	-	297	-	-	-	-	-	20	20
Canada	9,649	-	297	-	-	-	-	-	20	20
Other	0	-	0	-	-	-	-	-	0	0
Total	9,649	-	297	-	-	-	-	-	20	20
	PAD District 5									
OPEC	15,695	-	-	383	-	-	-	-	-	-
Algeria	-	-	-	383	-	-	-	-	-	-
Angola	999	-	-	-	-	-	-	-	-	-
Ecuador	6,816	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	2,278	-	-	-	-	-	-	-	-	-
Libya	801	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	4,016	-	-	-	-	-	-	-	-	-
United Arab Emirates	785	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	13,381	-	1,124	2,494	-	19	19	-	426	426
Argentina	461	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	68	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Canada	8,517	-	1,056	-	-	19	19	-	426	426
China	-	-	-	-	-	-	-	-	-	-
Colombia	3,257	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	575	-	-	-	-	-	-
Malaysia	-	-	-	562	-	-	-	-	-	-
Mexico	351	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Oman	597	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-
Peru	198	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Other	0	-	0	1,357	-	0	0	-	0	0
Total	29,076	-	1,124	2,877	-	19	19	-	426	426
Persian Gulf ³	7,079	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2016
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygen-ates	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	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	—	—	—	6	—	—	8	—	—	—	8
Canada	—	—	—	6	—	—	8	—	—	—	8
Other	—	—	—	0	—	—	0	—	—	—	0
Total	—	—	—	6	—	—	8	—	—	—	8
	PAD District 5										
OPEC	—	—	—	—	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	—	—	—	80	511	—	187	—	1	—	188
Argentina	—	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	—	12	—	—	187	—	1	—	188
China	—	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—	—	—
Japan	—	—	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	68	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	—	—	—	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—
Papua New Guinea	—	—	—	—	—	—	—	—	—	—	—
Peru	—	—	—	—	—	—	—	—	—	—	—
Singapore	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—	—
Taiwan	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Other	—	—	—	0	511	—	0	—	0	—	0
Total	—	—	—	80	511	—	187	—	1	—	188
Persian Gulf ³	—	—	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2016
(Thousand Barrels) — Continued

Country of Origin			Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
	Kerosene	Finished Aviation Gasoline							
	PAD District 4								
OPEC	—	—	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	—	—	—	—	—	—	—	—	—
Canada	—	—	—	—	—	—	—	—	—
Other	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
	PAD District 5								
OPEC	—	—	—	58	—	—	—	13	13
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	14	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	8	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	36	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	13	13
Non-OPEC	—	—	—	3,625	—	—	—	1,938	1,938
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	23	23
Brunei	—	—	—	—	—	—	—	—	—
Canada	—	—	—	—	—	—	—	223	223
China	—	—	—	314	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	6	6
Finland	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Japan	—	—	—	315	—	—	—	—	—
Korea, South	—	—	—	2,948	—	—	—	—	—
Malaysia	—	—	—	22	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	884	884
Netherlands	—	—	—	—	—	—	—	52	52
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Papua New Guinea	—	—	—	—	—	—	—	—	—
Peru	—	—	—	—	—	—	—	217	217
Singapore	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—
Taiwan	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Other	—	—	—	26	—	—	—	533	533
Total	—	—	—	3,683	—	—	—	1,951	1,951
Persian Gulf ³	—	—	—	36	—	—	—	—	—

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2016
(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	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	-	44	-	2	377	10,026	322	13	334
Canada	-	-	-	-	44	-	2	377	10,026	322	13	334
Other	-	-	-	-	0	-	0	0	0	0	0	0
Total	-	-	-	-	44	-	2	377	10,026	322	13	334
	PAD District 5											
OPEC	-	-	-	-	-	-	-	454	16,149	523	15	538
Algeria	-	-	-	-	-	-	-	383	383	-	13	13
Angola	-	-	-	-	-	-	-	-	999	33	-	33
Ecuador	-	-	-	-	-	-	-	-	6,816	227	-	227
Indonesia	-	-	-	-	-	-	-	14	14	-	0	0
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	2,278	76	-	76
Libya	-	-	-	-	-	-	-	8	809	27	0	27
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	4,016	134	-	134
United Arab Emirates	-	-	-	-	-	-	-	36	821	26	1	27
Venezuela	-	-	-	-	-	-	-	13	13	-	0	0
Non-OPEC	-	-	14	32	55	29	-	10,535	23,916	446	351	797
Argentina	-	-	-	-	-	-	-	-	461	15	-	15
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	68	68	-	2	2
Brazil	-	-	-	-	-	-	-	23	23	-	1	1
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	32	55	5	-	2,016	10,533	284	67	351
China	-	-	12	-	-	-	-	326	326	-	11	11
Colombia	-	-	-	-	-	-	-	6	3,263	109	0	109
Finland	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	2	-	-	1	-	318	318	-	11	11
Korea, South	-	-	-	-	-	23	-	3,614	3,614	-	120	120
Malaysia	-	-	-	-	-	-	-	584	584	-	19	19
Mexico	-	-	-	-	-	-	-	884	1,235	12	29	41
Netherlands	-	-	-	-	-	-	-	52	52	-	2	2
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	597	20	-	20
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	217	415	7	7	14
Singapore	-	-	-	-	-	-	-	511	511	-	17	17
Sweden	-	-	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	0	0	0	0	-	1,916	1,916	-1	65	64
Total	-	-	14	32	55	29	-	10,989	40,065	969	366	1,336
Persian Gulf ³	-	-	-	-	-	-	-	36	7,115	236	1	237

- = No Data Reported.

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

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

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

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

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

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-November 2016
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Pentanes Plus	Liquefied Petroleum Gases	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	145,316	—	577	1,493	—	2	2	—	12,224	12,224
Algeria	8,743	—	577	1,277	—	—	—	—	—	—
Angola	26,589	—	—	—	—	—	—	—	323	323
Ecuador	—	—	—	—	—	—	—	—	521	521
Gabon	439	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	255	255
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	17,194	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—
Nigeria	60,646	—	—	216	—	2	2	—	7,541	7,541
Qatar	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	19,444	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—
Venezuela	12,261	—	—	—	—	—	—	—	3,584	3,584
Non-OPEC	150,773	—	13,749	11,812	—	18,879	18,879	61,795	120,354	182,149
Argentina	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	20	20
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	35	—	1,264	1,264	452	3,846	4,298
Brazil	4,931	—	—	—	—	258	258	—	1,811	1,811
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	81,397	—	13,038	108	—	9,746	9,746	29,009	11,609	40,618
Chad	8,561	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	271	271
Colombia	28,431	—	—	294	—	—	—	—	4,076	4,076
Congo (Brazzaville)	1,147	—	—	—	—	—	—	—	56	56
Denmark	—	—	—	73	—	—	—	110	77	187
Egypt	995	—	—	—	—	—	—	—	435	435
Equatorial Guinea	1,298	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	57	—	207	207	227	6,899	7,126
France	—	—	—	241	—	332	332	6,353	1,186	7,539
Germany	—	—	—	—	—	—	—	150	32	182
Guatemala	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	23	23	301	17,261	17,562
Italy	—	—	—	677	—	299	299	151	2,622	2,773
Korea, South	—	—	—	—	—	63	63	—	606	606
Latvia	—	—	—	—	—	—	—	—	417	417
Lithuania	—	—	—	—	—	20	20	—	614	614
Malaysia	—	—	—	—	—	—	—	—	26	26
Mexico	4,743	—	—	—	—	—	—	—	601	601
Netherlands	—	—	—	86	—	1,596	1,596	5,190	5,358	10,548
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
Norway	11,713	—	43	—	—	335	335	138	9,159	9,297
Oman	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	1,102	1,102	2,669	4,305	6,974
Russia	—	—	—	7,081	—	1	1	574	15,327	15,901
Spain	—	—	—	321	—	852	852	—	13,476	13,476
Sweden	—	—	668	268	—	308	308	98	545	643
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	457	457	—	1,675	1,675
United Kingdom	1,910	—	—	1,554	—	1,552	1,552	16,359	11,754	28,113
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	21	21
Yemen	—	—	—	—	—	—	—	—	—	—
Other	5,208	—	0	1,017	—	464	464	14	6,269	6,283
Total	296,089	—	14,326	13,305	—	18,881	18,881	61,795	132,578	194,373
Persian Gulf³	36,638	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-November 2016
(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	—	—	—	913	—	—	325	—	328	—	653
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	913	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	325	—	328	—	653
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	—	—	12	6,066	544	—	26,615	1,227	10,040	782	38,664
Argentina	—	—	—	4,899	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	270	—	—	—	270
Brazil	—	—	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	12	826	—	—	20,692	626	9,200	100	30,618
Chad	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	386	—	—	—	386
Colombia	—	—	—	—	—	—	—	—	73	300	974
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	341	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	1,027	—	—	382	1,409
Italy	—	—	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	400	—	—	—	400
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	350	—	—	—	350
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	195	—	—	—	195
Russia	—	—	—	—	—	—	3,035	—	—	—	3,035
Spain	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	286	—	286
Syria	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	481	—	481
United Kingdom	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	544	—	260	601	0	0	260
Total	—	—	12	6,979	544	—	26,940	1,227	10,368	782	39,317
Persian Gulf³	—	—	—	—	—	—	325	—	328	—	653

See footnotes at end of table.

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-November 2016
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
OPEC	—	—	—	3,749	—	1,244	374	426	2,044
Algeria	—	—	—	—	—	1,244	—	—	1,244
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	156	—	156
Indonesia	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	90	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	374	—	374
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	228	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	3,431	—	—	—	426	426
Non-OPEC	630	10	—	15,335	—	590	3,004	20,597	24,191
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	78	78
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	348	184	532
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	387	—	—	387
Canada	—	10	—	3,277	—	—	1,580	8,122	9,702
Chad	—	—	—	—	—	—	—	—	—
China	267	—	—	842	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	4,911	4,911
Congo (Brazzaville)	—	—	—	—	—	—	477	—	477
Denmark	—	—	—	—	—	—	—	4	4
Egypt	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	37	—	37
France	—	—	—	—	—	—	6	—	6
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	6,218	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	4,522	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	58	613	671
Netherlands	—	—	—	—	—	—	—	1,703	1,703
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	342	1,148	1,490
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	583	583
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	2,939	2,939
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	363	0	—	476	—	203	0	312	515
Total	630	10	—	19,084	—	1,834	3,378	21,023	26,235
Persian Gulf³	—	—	—	318	—	—	—	—	—

See footnotes at end of table.

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-November 2016
(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	—	—	—	1,499	1,973	68	—	25,196	170,512	434	75	509
Algeria	—	—	—	—	—	—	—	3,098	11,841	26	9	35
Angola	—	—	—	—	—	—	—	323	26,912	79	1	80
Ecuador	—	—	—	—	—	—	—	521	521	—	2	2
Gabon	—	—	—	—	—	—	—	156	—	1	0	—
Indonesia	—	—	1	—	—	—	—	1,169	1,169	—	3	3
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	17,194	51	—	51
Kuwait	—	—	—	—	—	—	—	90	90	—	0	0
Libya	—	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	8,133	68,779	181	24	205
Qatar	—	—	—	—	—	68	—	721	721	—	2	2
Saudi Arabia	—	—	—	—	—	—	—	228	19,672	58	1	59
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	1,499	1,973	—	—	10,913	23,174	37	33	69
Non-OPEC	23	13	826	205	6,323	2,040	—	321,477	472,250	450	960	1,410
Argentina	—	—	—	—	—	5	—	4,904	4,904	—	15	15
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	98	98	—	0	0
Bahrain	—	—	—	—	—	—	—	—	—	—	—	—
Belgium	1	—	—	—	—	53	—	5,921	5,921	—	18	18
Brazil	—	—	40	—	—	24	—	2,665	7,596	15	8	23
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	387	387	—	1	1
Canada	16	13	486	13	5,626	1,332	—	115,441	196,838	243	345	588
Chad	—	—	—	—	—	—	—	—	8,561	26	—	26
China	—	—	154	—	—	—	—	1,920	1,920	—	6	6
Colombia	—	—	—	192	64	—	—	10,511	38,942	85	31	116
Congo (Brazzaville)	—	—	—	—	—	—	—	533	1,680	3	2	5
Denmark	—	—	—	—	—	—	—	264	264	—	1	1
Egypt	—	—	—	—	—	—	—	435	1,430	3	1	4
Equatorial Guinea	—	—	—	—	—	—	—	—	1,298	4	—	4
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	7,427	7,427	—	22	22
France	—	—	—	—	—	73	—	8,191	8,191	—	24	24
Germany	—	—	20	—	—	72	—	615	615	—	2	2
Guatemala	—	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	25,212	25,212	—	75	75
Italy	—	—	—	—	—	24	—	3,773	3,773	—	11	11
Korea, South	—	—	—	—	—	105	—	5,696	5,696	—	17	17
Latvia	—	—	—	—	—	—	—	417	417	—	1	1
Lithuania	—	—	—	—	—	—	—	634	634	—	2	2
Malaysia	—	—	3	—	—	—	—	29	29	—	0	0
Mexico	—	—	—	—	—	—	—	1,272	6,015	14	4	18
Netherlands	6	—	1	—	—	—	—	14,290	14,290	—	43	43
Netherlands Antilles	—	—	—	—	64	—	—	64	64	—	0	0
Norway	—	—	—	—	—	—	—	9,675	21,388	35	29	64
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	8,271	8,271	—	25	25
Russia	—	—	—	—	—	331	—	27,845	27,845	—	83	83
Spain	—	—	—	—	307	19	—	14,975	14,975	—	45	45
Sweden	—	—	—	—	—	—	—	2,756	2,756	—	8	8
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	5,552	5,552	—	17	17
United Kingdom	—	—	—	—	—	—	—	31,219	33,129	6	93	99
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	21	21	—	0	0
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	122	0	262	2	—	10,308	16,111	15	31	47
Total	23	13	827	1,704	8,296	2,108	—	346,673	642,762	884	1,035	1,919
Persian Gulf³	—	—	—	—	—	68	—	1,039	37,677	109	3	112

— = No Data Reported.

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

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

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

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

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

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-November 2016
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Pentanes Plus	Liquefied Petroleum Gases	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	13,714	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	13,714	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	719,112	326	26,279	-	-	65	65	-	2,030	2,030
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	718,602	326	26,279	-	-	65	65	-	2,030	2,030
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	510	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	-	-	0	0	-	0	0
Total	732,826	326	26,279	-	-	65	65	-	2,030	2,030
Persian Gulf³	13,714	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-November 2016
(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	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	599	-	-	436	-	163	122	721
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	599	-	-	436	-	163	122	721
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	0	-	0	0	0
Total	-	-	-	599	-	-	436	-	163	122	721
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-November 2016
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
OPEC	—	—	—	5	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	5	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	1	2	—	—	520	—	673	435	1,108
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	1	2	—	—	520	—	673	435	1,108
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	—	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	0	0	—	0	0	—	0	0	0
Total	1	2	—	5	520	—	673	435	1,108
Persian Gulf³	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-November 2016
(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	—	9	13,723	41	0	41
Algeria	—	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	5	5	—	0	0
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	4	—	4	4	—	0	0
Saudi Arabia	—	—	—	—	—	—	—	—	13,714	41	—	41
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	909	706	58	181	2,444	2,317	—	38,370	757,482	2,147	115	2,261
Argentina	—	—	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—	—
Canada	909	706	58	175	2,444	2,310	—	38,357	756,959	2,145	114	2,260
Chad	—	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	7	—	7	7	—	0	0
Guatemala	—	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	510	2	—	2
Netherlands	—	—	—	—	—	—	—	—	—	—	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	6	—	—	—	6	6	—	0	0
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	0	0	0	0	—	0	0	0	1	-1
Total	909	706	58	181	2,444	2,321	—	38,379	771,205	2,188	115	2,302
Persian Gulf³	—	—	—	—	—	4	—	4	13,718	41	0	41

— = No Data Reported.

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

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

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

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

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

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-November 2016
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Pentanes Plus	Liquefied Petroleum Gases	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	667,979	—	—	41,605	—	—	—	—	2,475	2,475
Algeria	6,292	—	—	34,279	—	—	—	—	515	515
Angola	18,287	—	—	3,036	—	—	—	—	—	—
Ecuador	12,588	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	397	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	104,538	—	—	921	—	—	—	—	—	—
Kuwait	44,371	—	—	—	—	—	—	—	—	—
Libya	—	—	—	966	—	—	—	—	—	—
Nigeria	9,119	—	—	—	—	—	—	—	567	567
Qatar	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	236,275	—	—	1,351	—	—	—	—	—	—
United Arab Emirates	—	—	—	531	—	—	—	—	—	—
Venezuela	236,509	—	—	521	—	—	—	—	1,393	1,393
Non-OPEC	458,900	2,878	251	115,219	—	808	808	638	12,386	13,024
Argentina	1,397	—	—	166	—	—	—	—	219	219
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	656	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	13,209	—	—	—	—	358	358
Brazil	35,313	—	—	296	—	65	65	—	918	918
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	525	—	—	—	—	—	—
Canada	117,230	—	—	921	—	569	569	—	498	498
Chad	13,878	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	96	96	—	300	300
Colombia	80,553	—	—	990	—	—	—	—	803	803
Congo (Brazzaville)	—	—	—	45	—	—	—	—	—	—
Denmark	627	—	—	37	—	—	—	—	—	—
Egypt	2,838	—	—	199	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	30	30
France	—	—	—	4,137	—	—	—	—	25	25
Germany	—	—	—	450	—	—	—	—	—	—
Guatemala	2,434	—	—	—	—	—	—	—	—	—
India	—	—	—	753	—	—	—	—	830	830
Italy	—	—	45	1,106	—	—	—	—	309	309
Korea, South	—	—	—	214	—	4	4	—	82	82
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	315	315
Mexico	191,523	1,960	163	562	—	—	—	—	4,323	4,323
Netherlands	—	—	43	1,686	—	57	57	—	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
Norway	1,224	—	—	3,532	—	—	—	—	194	194
Oman	—	—	—	—	—	—	—	—	36	36
Portugal	—	—	—	—	—	—	—	—	286	286
Russia	2,545	—	—	80,432	—	—	—	—	537	537
Spain	—	—	—	369	—	17	17	—	790	790
Sweden	—	—	—	807	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	2,565	—	—	—	—	—	—	—	—	—
United Kingdom	4,364	—	—	337	—	—	—	638	520	1,158
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	1,753	918	0	4,049	—	0	0	0	1,013	1,013
Total	1,126,879	2,878	251	156,824	—	808	808	638	14,861	15,499
Persian Gulf³	385,184	—	—	2,803	—	—	—	—	—	—

See footnotes at end of table.

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-November 2016
(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	262	—	—	1,442	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	1,442	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	262	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	2,594	834	94	3,875	—	—	216	313	2,572	488	3,589
Argentina	149	—	—	3,790	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	45	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	483	—	—	—	—	—	—	—	—	—	—
Brazil	637	834	94	—	—	—	—	—	254	—	254
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	162
Canada	—	—	—	40	—	—	—	—	300	—	300
Chad	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	83	—	83
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	50	—	50
Germany	182	—	—	—	—	—	—	—	102	—	113
Guatemala	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—	220
Korea, South	—	—	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	220	—	220
Netherlands	864	—	—	—	—	—	—	—	54	—	169
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Russia	270	—	—	—	—	—	216	—	901	—	1,117
Spain	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	388	—	588
Syria	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	9	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	0	0	—	—	0	313	220	488	313
Total	2,856	834	94	5,317	—	—	216	313	2,572	488	3,589
Persian Gulf³	262	—	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-November 2016
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
OPEC	—	—	—	—	527	12	1,155	5,230	6,397
Algeria	—	—	—	—	—	—	91	—	91
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	342	670
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	292	—	292
Nigeria	—	—	—	—	—	12	309	—	321
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	527	—	5	155	160
United Arab Emirates	—	—	—	—	—	—	—	1	1
Venezuela	—	—	—	—	—	—	130	4,732	4,862
Non-OPEC	—	—	—	—	3,716	1,923	3,271	13,842	19,036
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	40	—	143	183
Brazil	—	—	—	—	114	—	689	—	689
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	—	—	—	937	126	137	—	263
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	256	1,253	1,509
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	14	14
Egypt	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	6	6
France	—	—	—	—	—	—	176	58	234
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	42	—	—	295	295
Korea, South	—	—	—	—	1,484	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	5,606	5,606
Netherlands	—	—	—	—	29	—	—	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	340	225	—	565
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	847	707	5,200	6,754
Spain	—	—	—	—	—	—	—	362	362
Sweden	—	—	—	—	—	—	—	141	141
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	349	349
United Kingdom	—	—	—	—	—	—	—	62	62
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	—	—	—	1,110	570	1,081	353	2,004
Total	—	—	—	—	4,243	1,935	4,426	19,072	25,433
Persian Gulf³	—	—	—	—	527	—	333	498	831

See footnotes at end of table.

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-November 2016
(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	1,332	210	—	138	72	3,590	—	58,050	726,029	1,994	173	2,167
Algeria	952	—	—	—	—	—	—	35,837	42,129	19	107	126
Angola	—	—	—	—	—	—	—	3,036	21,323	55	9	64
Ecuador	—	—	—	—	—	—	—	—	12,588	38	—	38
Gabon	—	—	—	—	—	—	—	397	397	—	1	1
Indonesia	—	—	—	—	—	589	—	2,031	2,031	—	6	6
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	1,591	106,129	312	5	317
Kuwait	—	—	—	138	—	—	—	138	44,509	132	0	133
Libya	—	—	—	—	—	—	—	1,258	1,258	—	4	4
Nigeria	—	210	—	—	—	—	—	1,098	10,217	27	3	30
Qatar	—	—	—	—	—	3,001	—	3,001	3,001	—	9	9
Saudi Arabia	380	—	—	—	—	—	—	2,418	238,693	705	7	713
United Arab Emirates	—	—	—	—	—	—	—	794	794	—	2	2
Venezuela	—	—	—	—	72	—	—	6,848	243,357	706	20	726
Non-OPEC	6,192	883	255	925	30	4,905	—	179,193	638,093	1,370	535	1,905
Argentina	17	377	—	397	—	21	—	5,136	6,533	4	15	20
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	45	701	2	0	2
Bahamas	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	683	—	683	683	—	2	2
Belgium	—	—	—	—	—	115	—	14,348	14,348	—	43	43
Brazil	61	—	—	—	—	—	—	3,979	39,292	105	12	117
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	687	687	—	2	2
Canada	40	139	—	—	—	—	—	3,707	120,937	350	11	361
Chad	—	—	—	—	—	—	—	—	13,878	41	—	41
China	—	—	106	—	—	—	—	502	502	—	1	1
Colombia	—	—	—	—	—	—	—	3,385	83,938	240	10	251
Congo (Brazzaville)	—	—	—	—	—	—	—	45	45	—	0	0
Denmark	—	—	—	—	—	—	—	51	678	2	0	2
Egypt	—	—	—	—	—	1	—	200	3,038	8	1	9
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	36	36	—	0	0
France	—	241	—	—	—	20	—	4,707	4,707	—	14	14
Germany	—	—	2	—	—	72	—	825	825	—	2	2
Guatemala	—	—	—	—	—	—	—	—	2,434	7	—	7
India	—	—	1	—	—	—	—	1,584	1,584	—	5	5
Italy	—	—	—	—	—	193	—	2,223	2,223	—	7	7
Korea, South	689	—	—	—	—	3,230	—	5,717	5,717	—	17	17
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	113	—	—	—	—	428	428	—	1	1
Mexico	4,469	—	—	—	—	—	—	17,303	208,826	572	52	623
Netherlands	186	—	—	—	—	12	—	3,057	3,057	—	9	9
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	176	—	—	—	4,467	5,691	4	13	17
Oman	—	—	—	—	—	—	—	36	36	—	0	0
Portugal	—	—	—	—	—	—	—	286	286	—	1	1
Russia	—	—	—	—	—	—	—	89,111	91,656	8	266	274
Spain	—	—	1	—	—	161	—	1,700	1,700	—	5	5
Sweden	—	—	—	—	—	—	—	1,536	1,536	—	5	5
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	349	2,914	8	1	9
United Kingdom	341	—	—	314	—	193	—	2,414	6,778	13	7	20
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	389	126	32	38	30	204	—	10,249	12,002	6	32	37
Total	7,524	1,093	255	1,063	102	8,495	—	237,243	1,364,122	3,364	708	4,072
Persian Gulf³	380	—	—	138	—	3,684	—	8,625	393,809	1,150	26	1,176

— = No Data Reported.

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

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

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

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

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

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-November 2016
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Pentanes Plus	Liquefied Petroleum Gases	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reform-ulated	Conven- tional	Total	Reform-ulated	Conven- tional	Total
	PAD District 4									
OPEC	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	91,135	-	3,365	-	-	-	-	-	640	640
Canada	91,135	-	3,365	-	-	-	-	-	640	640
Other	0	-	0	-	-	-	-	-	0	0
Total	91,135	-	3,365	-	-	-	-	-	640	640
	PAD District 5									
OPEC	234,913	-	-	6,608	-	-	-	5	-	5
Algeria	-	-	-	6,297	-	-	-	-	-	-
Angola	10,097	-	-	-	-	-	-	-	-	-
Ecuador	66,940	-	-	-	-	-	-	-	-	-
Indonesia	12,312	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	13,020	-	-	-	-	-	-	-	-	-
Kuwait	24,205	-	-	-	-	-	-	-	-	-
Libya	3,262	-	-	311	-	-	-	-	-	-
Nigeria	280	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	100,728	-	-	-	-	-	-	-	-	-
United Arab Emirates	3,723	-	-	-	-	-	-	-	-	-
Venezuela	346	-	-	-	-	-	-	-	-	5
Non-OPEC	157,611	-	5,745	20,693	-	994	994	722	8,848	9,570
Argentina	2,857	-	170	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	817	-	127	-	-	-	-	-	-	-
Brazil	9,224	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Canada	76,650	-	5,071	267	-	686	686	-	4,652	4,652
China	-	-	-	-	-	-	-	-	-	-
Colombia	41,503	-	-	-	-	-	-	-	192	192
Finland	-	-	-	133	-	-	-	-	-	-
Germany	-	-	-	333	-	-	-	4	-	4
Japan	-	-	-	210	-	-	-	-	300	300
Korea, South	-	-	119	575	-	169	169	-	816	816
Malaysia	1,657	-	-	2,676	-	-	-	-	-	-
Mexico	351	-	-	-	-	-	-	-	-	-
Netherlands	314	-	-	899	-	39	39	45	229	274
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Oman	10,533	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-
Peru	666	-	120	305	-	-	-	-	-	-
Singapore	-	-	-	602	-	-	-	239	97	336
Sweden	-	-	-	46	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	430	430
United Kingdom	-	-	-	422	-	42	42	168	303	471
Vietnam	1,403	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Other	11,636	-	138	14,225	-	58	58	266	1,829	2,095
Total	392,524	-	5,745	27,301	-	994	994	727	8,848	9,575
Persian Gulf ³	141,676	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-November 2016
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygen-ates	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	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	138	-	-	49	-	-	-	49
Canada	-	-	-	138	-	-	49	-	-	-	49
Other	-	-	-	0	-	-	0	-	-	-	0
Total	-	-	-	138	-	-	49	-	-	-	49
	PAD District 5										
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	756	796	4,203	-	4,633	54	216	-	4,903
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	756	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	358	-	-	2,473	-	68	-	2,541
China	-	-	-	-	-	-	412	-	-	-	412
Colombia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	980	-	-	-	980
Korea, South	-	-	-	438	-	-	768	54	-	-	822
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	148	-	148
Sweden	-	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	0	0	4,203	-	0	0	0	-	0
Total	-	-	756	796	4,203	-	4,633	54	216	-	4,903
Persian Gulf ³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-November 2016
(Thousand Barrels) — Continued

Country of Origin			Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
	PAD District 4								
OPEC	—	—	—	10	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	—	8	—	4	—	—	—	—	—
Canada	—	8	—	—	—	—	—	—	—
Other	—	0	—	4	—	—	—	—	—
Total	—	8	—	14	—	—	—	—	—
	PAD District 5								
OPEC	—	—	—	107	—	—	329	193	522
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	180	180
Indonesia	—	—	—	63	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	8	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	329
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	36	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	13	13
Non-OPEC	—	61	—	30,536	—	—	265	22,538	22,803
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	23	23
Brunei	—	—	—	—	—	—	—	—	—
Canada	—	—	—	40	—	—	40	2,092	2,132
China	—	—	—	4,011	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	6	6
Finland	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Japan	—	—	—	3,504	—	—	—	—	—
Korea, South	—	—	—	22,207	—	—	—	—	—
Malaysia	—	—	—	94	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	10,411	10,411
Netherlands	—	61	—	—	—	—	—	1,091	1,091
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Papua New Guinea	—	—	—	—	—	—	—	—	—
Peru	—	—	—	—	—	—	—	852	852
Singapore	—	—	—	—	—	—	—	176	176
Sweden	—	—	—	—	—	—	—	—	—
Taiwan	—	—	—	634	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Other	—	0	—	46	—	—	225	7,887	8,112
Total	—	61	—	30,643	—	—	594	22,731	23,325
Persian Gulf ³	—	—	—	36	—	—	—	—	—

See footnotes at end of table.

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-November 2016
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks								Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
	PAD District 4											
OPEC	—	—	—	—	—	—	—	10	10	—	0	0
Algeria	—	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	—	—	—	—	448	—	13	4,719	95,854	272	14	286
Canada	—	—	—	—	448	—	13	4,715	95,850	272	14	286
Other	—	—	—	—	0	—	0	4	4	0	0	0
Total	—	—	—	—	448	—	13	4,729	95,864	272	14	286
	PAD District 5											
OPEC	—	—	—	—	—	—	—	7,243	242,156	701	22	723
Algeria	—	—	—	—	—	—	—	6,297	6,297	—	19	19
Angola	—	—	—	—	—	—	—	—	10,097	30	—	30
Ecuador	—	—	—	—	—	—	—	180	67,120	200	1	200
Indonesia	—	—	1	—	—	—	—	64	12,376	37	0	37
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	13,020	39	—	39
Kuwait	—	—	—	—	—	—	—	—	24,205	72	—	72
Libya	—	—	—	—	—	—	—	319	3,581	10	1	11
Nigeria	—	—	—	—	—	—	—	329	609	1	1	2
Qatar	—	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	100,728	301	—	301
United Arab Emirates	—	—	—	—	—	—	—	36	3,759	11	0	11
Venezuela	—	—	—	—	—	—	—	18	364	1	0	1
Non-OPEC	336	—	489	313	1,037	192	—	103,427	261,038	470	309	779
Argentina	—	—	—	—	—	—	—	170	3,027	9	1	9
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	127	944	2	0	3
Brazil	—	—	—	—	—	—	—	779	10,003	28	2	30
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	56	313	796	78	—	16,990	93,640	229	51	280
China	—	—	349	—	—	—	—	4,772	4,772	—	14	14
Colombia	—	—	—	—	—	—	—	198	41,701	124	1	124
Finland	—	—	—	—	—	—	—	133	133	—	0	0
Germany	—	—	1	—	—	—	—	338	338	—	1	1
Japan	—	—	74	—	—	10	—	5,078	5,078	—	15	15
Korea, South	192	—	—	—	43	103	—	25,484	25,484	—	76	76
Malaysia	—	—	—	—	—	—	—	2,770	4,427	5	8	13
Mexico	—	—	—	—	—	—	—	10,411	10,762	1	31	32
Netherlands	—	—	—	—	—	—	—	2,364	2,678	1	7	8
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	10,533	31	—	31
Papua New Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Peru	—	—	—	—	—	—	—	1,277	1,943	2	4	6
Singapore	—	—	—	—	—	—	—	5,465	5,465	—	16	16
Sweden	—	—	—	—	—	—	—	46	46	—	0	0
Taiwan	144	—	—	—	—	—	—	1,208	1,208	—	4	4
United Kingdom	—	—	—	—	—	—	—	935	935	—	3	3
Vietnam	—	—	—	—	—	—	—	—	1,403	4	—	4
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Other	0	—	9	0	198	1	—	24,882	36,518	34	75	110
Total	336	—	490	313	1,037	192	—	110,670	503,194	1,172	330	1,502
Persian Gulf ³	—	—	—	—	—	—	—	36	141,712	423	0	423

— = No Data Reported.

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

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

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

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

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

Table 49. Exports of Crude Oil and Petroleum Products by PAD District, November 2016
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil¹	738	6,409	10,713	57	–	17,916	597
Natural Gas Plant Liquids and Liquefied							
Refinery Gases	908	7,187	27,601	372	1,752	37,821	1,261
Pentanes Plus	110	4,409	40	370	28	4,957	165
Liquefied Petroleum Gases	798	2,778	27,562	2	1,724	32,864	1,095
Ethane/Ethylene	315	2,422	–	–	–	2,737	91
Propane/Propylene	475	61	23,425	2	1,510	25,472	849
Normal Butane/Butylene	7	295	4,049	–	214	4,566	152
Isobutane/Isobutylene	1	–	87	–	0	88	3
Other Liquids	1,845	837	12,330	29	303	15,344	511
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	88	589	4,248	5	44	4,974	166
Hydrogen	–	–	–	–	–	–	–
Oxygenates (excluding Fuel Ethanol)	1	0	1,915	–	1	1,917	64
Methyl Tertiary Butyl Ether (MTBE)	0	–	1,245	–	0	1,245	41
Other Oxygenates	1	0	671	–	1	672	22
Renewable Fuels (including Fuel Ethanol) ...	87	589	2,332	5	44	3,057	102
Fuel Ethanol	64	503	2,303	5	30	2,904	97
Biomass-Based Diesel	23	85	30	0	14	152	5
Other Renewable Diesel	–	–	–	–	–	–	–
Other Renewable Fuels	–	–	–	–	–	–	–
Other Hydrocarbons	–	–	–	–	–	–	–
Unfinished Oils	1,652	147	5,896	23	92	7,811	260
Naphthas and Lighter	1,643	143	5,383	23	90	7,282	243
Kerosene and Light Gas Oils	9	4	513	0	2	529	18
Heavy Gas Oils	–	–	–	–	–	–	–
Residuum	–	–	–	–	–	–	–
Motor Gasoline Blend.Comp. (MGBC)	105	101	2,186	1	167	2,559	85
Reformulated	0	0	1	–	1	2	0
Conventional	105	101	2,185	1	165	2,557	85
Aviation Gasoline Blend. Comp.	–	–	–	–	–	–	–
Finished Petroleum Products	3,234	2,010	77,464	32	7,933	90,672	3,022
Finished Motor Gasoline	33	572	23,246	1	1,001	24,854	828
Reformulated	–	–	–	–	–	–	–
Conventional	33	572	23,246	1	1,001	24,854	828
Finished Aviation Gasoline	–	–	–	–	–	–	–
Kerosene-Type Jet Fuel	166	623	3,992	–	1,100	5,881	196
Kerosene	2	1	249	–	3	255	9
Distillate Fuel Oil	859	224	31,174	–	2,363	34,621	1,154
15 ppm sulfur and under	859	0	28,166	–	1,045	30,070	1,002
Greater than 15 ppm to 500 ppm sulfur	0	82	2,165	–	494	2,741	91
Greater than 500 ppm sulfur	–	142	843	–	825	1,810	60
Residual Fuel Oil	1,445	164	6,282	12	828	8,730	291
Naphtha for Petro. Feed. Use	–	–	–	–	–	–	–
Other Oils for Petro. Feed. Use	–	–	–	–	–	–	–
Special Naphthas	–	–	–	–	–	–	–
Lubricants	256	172	1,804	14	103	2,349	78
Waxes	81	25	34	0	4	144	5
Petroleum Coke	324	160	10,417	0	2,492	13,394	446
Asphalt and Road Oil	52	68	261	6	38	424	14
Miscellaneous Products	16	0	4	–	0	20	1
Total	6,725	16,443	128,107	490	9,988	161,754	5,392

– = No Data Reported.

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

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

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

Table 50. Year-to-Date Exports of Crude Oil and Petroleum Products by PAD District, January-November 2016
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil¹	50,334	26,303	94,082	2,531	3,311	176,561	527
Natural Gas Plant Liquids and Liquefied							
Refinery Gases	22,252	93,193	263,313	1,774	13,871	394,404	1,177
Pentanes Plus	1,062	63,927	683	1,331	168	67,172	201
Liquefied Petroleum Gases	21,190	29,266	262,630	443	13,703	327,232	977
Ethane/Ethylene	6,485	23,258	681	—	—	30,424	91
Propane/Propylene	13,150	2,218	233,777	24	9,565	258,734	772
Normal Butane/Butylene	1,544	3,788	26,182	419	4,138	36,071	108
Isobutane/Isobutylene	10	2	1,991	—	0	2,003	6
Other Liquids	20,498	9,621	132,502	497	6,574	169,692	507
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	1,369	6,096	39,701	100	1,352	48,618	145
Hydrogen	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol)	18	4	23,991	0	16	24,028	72
Methyl Tertiary Butyl Ether (MTBE)	1	0	14,714	—	0	14,716	44
Other Oxygenates	17	3	9,277	0	16	9,313	28
Renewable Fuels (including Fuel Ethanol) ...	1,351	6,092	15,710	100	1,336	24,589	73
Fuel Ethanol	1,300	4,886	15,296	19	1,077	22,577	67
Biomass-Based Diesel	51	1,206	414	81	260	2,012	6
Other Renewable Diesel	—	—	—	—	—	—	—
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	—	—	—	—
Unfinished Oils	17,214	1,648	56,191	389	1,038	76,479	228
Naphthas and Lighter	14,673	1,581	41,016	388	998	58,656	175
Kerosene and Light Gas Oils	2,541	67	15,175	1	40	17,823	53
Heavy Gas Oils	—	—	—	—	—	—	—
Residuum	—	—	—	—	—	—	—
Motor Gasoline Blend.Comp. (MGBC)	1,915	1,877	36,610	8	4,184	44,595	133
Reformulated	5	1	39	—	4	48	0
Conventional	1,910	1,877	36,571	8	4,181	44,547	133
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	46,465	20,197	813,717	702	107,713	988,794	2,952
Finished Motor Gasoline	843	3,698	181,818	11	15,922	202,292	604
Reformulated	—	—	—	—	—	—	—
Conventional	843	3,698	181,818	11	15,922	202,292	604
Finished Aviation Gasoline	—	—	—	—	—	—	—
Kerosene-Type Jet Fuel	567	4,518	45,261	0	8,043	58,388	174
Kerosene	326	256	2,664	—	25	3,270	10
Distillate Fuel Oil	22,965	2,619	341,418	35	31,029	398,066	1,188
15 ppm sulfur and under	18,662	687	297,614	0	20,227	337,190	1,007
Greater than 15 ppm to 500 ppm sulfur	3,536	1,355	28,600	35	4,271	37,797	113
Greater than 500 ppm sulfur	767	577	15,205	—	6,531	23,080	69
Residual Fuel Oil	11,411	2,734	72,639	460	10,609	97,854	292
Naphtha for Petro. Feed. Use	—	—	—	—	—	—	—
Other Oils for Petro. Feed. Use	—	—	—	—	—	—	—
Special Naphthas	—	—	—	—	—	—	—
Lubricants	2,258	1,919	19,651	119	2,193	26,140	78
Waxes	599	327	177	2	75	1,180	4
Petroleum Coke	6,464	2,752	145,711	2	39,360	194,289	580
Asphalt and Road Oil	880	1,372	4,119	72	446	6,889	21
Miscellaneous Products	153	3	260	0	10	426	1
Total	139,549	149,314	1,303,613	5,505	131,469	1,729,450	5,163

— = No Data Reported.

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

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

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

Table 51. Exports of Crude Oil and Petroleum Products by Destination, November 2016
(Thousand Barrels)

Destination	Crude Oil ¹	Pentanes Plus	Liquefied Petroleum Gases	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
Argentina	279	—	—	172	—	428	428	—	—	—
Australia	—	0	2	0	—	0	0	1	—	1
Bahamas	50	1	25	0	—	36	36	—	0	0
Bahrain	—	—	—	—	—	1	1	—	—	—
Belgium	—	—	242	0	—	—	—	—	0	0
Belize	—	—	—	—	—	41	41	—	—	—
Brazil	—	0	551	203	—	1,167	1,167	—	0	0
Canada	10,525	4,897	2,848	1,814	—	1,064	1,064	0	708	708
Cayman Islands	—	—	—	—	—	21	21	—	—	—
Chile	—	0	577	108	—	428	428	—	0	0
China	2,284	0	3,834	1,174	—	31	31	—	3	3
Colombia	500	1	0	1,227	—	1,377	1,377	—	—	—
Costa Rica	—	0	78	8	—	871	871	—	121	121
Denmark	—	—	—	—	—	—	—	—	—	—
Dominican Republic	—	—	1,250	0	—	350	350	0	—	0
Ecuador	—	0	1,631	8	—	770	770	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—
El Salvador	—	—	221	0	—	289	289	—	0	0
Finland	—	—	—	—	—	—	—	—	—	—
France	—	14	18	43	—	—	—	0	—	0
Germany	—	—	—	5	—	—	—	—	—	—
Ghana	—	—	382	—	—	—	—	—	—	—
Gibraltar	—	—	386	—	—	299	299	—	—	—
Greece	—	—	—	—	—	—	—	—	—	—
Guatemala	—	0	—	0	—	1,309	1,309	—	29	29
Honduras	—	—	460	2	—	509	509	—	52	52
Hong Kong	—	0	—	0	—	—	—	—	—	—
India	—	0	—	8	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—
Ireland	—	—	—	—	—	—	—	—	—	—
Israel	—	—	1	1	—	—	—	—	—	—
Italy	647	—	—	11	—	—	—	—	—	—
Jamaica	—	0	42	—	—	2	2	—	0	0
Japan	—	0	2,789	12	—	2	2	0	0	0
Korea, South	1,254	0	3,311	10	—	2	2	0	0	1
Lebanon	—	—	—	—	—	—	—	—	—	—
Mexico	—	26	5,671	602	—	11,560	11,560	1	1,318	1,319
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	—	800	2	—	—	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—	—	—
Netherlands	969	15	1,278	381	—	240	240	—	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
New Zealand	—	—	—	—	—	1	1	—	—	—
Nicaragua	—	—	—	—	—	70	70	—	—	—
Nigeria	—	—	—	0	—	519	519	—	—	—
Norway	—	—	315	—	—	—	—	—	—	—
Pakistan	—	—	—	—	—	—	—	—	—	—
Panama	—	—	137	0	—	558	558	—	—	—
Peru	350	—	59	0	—	758	758	—	—	—
Philippines	—	—	1	0	—	—	—	—	—	—
Portugal	—	—	550	—	—	—	—	—	—	—
Puerto Rico	—	0	0	0	—	2	2	—	—	—
Romania	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	3	—	—	—	—	—	—
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	242	—	2,250	371	—	—	—	—	—	—
South Africa	—	—	717	—	—	8	8	—	—	—
Spain	—	—	301	—	—	—	—	—	—	—
Switzerland	—	—	1,128	—	—	—	—	—	—	—
Taiwan	—	0	—	325	—	1	1	—	—	—
Thailand	325	0	—	0	—	—	—	—	0	0
Trinidad and Tobago	—	0	—	—	—	0	0	—	—	—
Turkey	—	—	—	0	—	—	—	—	—	—
United Arab Emirates	—	0	—	0	—	477	477	—	—	—
United Kingdom	491	—	276	0	—	0	0	—	—	—
Venezuela	—	0	—	1,317	—	1,087	1,087	—	322	322
Other	—	3	733	4	—	576	576	—	4	3
Total	17,916	4,957	32,864	7,811	—	24,854	24,854	2	2,557	2,559

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, November 2016
(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	—	—	—	—	772	—	—	—	772
Australia	—	—	—	—	—	—	—	—	—	—	—
Bahamas	15	1	—	—	—	—	261	—	250	—	511
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	8	0	0	—	—	—	0	—	—	—	0
Belize	—	—	—	—	—	—	—	—	—	—	—
Brazil	—	0	1,211	—	—	—	6,651	62	—	—	6,713
Canada	—	0	590	100	—	—	0	450	193	—	643
Cayman Islands	—	—	—	—	—	—	20	—	—	—	20
Chile	204	—	0	—	—	—	2,024	315	—	—	2,339
China	0	0	471	—	—	—	2	—	—	—	2
Colombia	—	—	0	—	—	—	1,059	—	—	—	1,059
Costa Rica	—	0	1	—	—	—	588	—	—	—	588
Denmark	—	—	—	—	—	—	—	—	—	—	—
Dominican Republic	—	—	0	—	—	—	391	—	—	—	391
Ecuador	—	—	—	—	—	—	1,039	—	261	—	1,299
Egypt	—	—	—	—	—	—	440	—	—	—	440
El Salvador	—	—	—	—	—	—	0	83	—	—	83
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	0	0	—	—	—	1,733	—	—	—	1,733
Germany	—	0	—	—	—	—	—	—	—	—	—
Ghana	—	—	—	—	—	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	—	290	—	—	—	290
Greece	—	—	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	246	508	—	—	754
Honduras	—	—	—	—	—	—	374	115	82	—	571
Hong Kong	—	0	—	—	—	—	—	—	—	—	—
India	0	—	268	—	—	—	0	—	—	—	0
Indonesia	—	—	0	—	—	—	1	—	—	—	1
Ireland	—	—	0	—	—	—	—	—	—	—	—
Israel	—	0	0	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—	—
Jamaica	—	—	0	—	—	—	305	55	—	—	360
Japan	—	669	0	—	—	—	0	—	—	—	0
Korea, South	—	0	92	—	—	—	0	—	—	—	0
Lebanon	—	0	—	—	—	—	0	—	—	—	0
Mexico	494	2	66	1	—	—	5,779	145	10	—	5,934
Montenegro	—	—	—	—	—	—	—	—	—	—	—
Morocco	—	—	—	—	—	—	—	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	0	0	21	—	—	1,443	—	—	—	1,443
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—
New Zealand	—	0	—	—	—	—	—	—	—	—	—
Nicaragua	—	—	—	1	—	—	0	155	—	—	155
Nigeria	—	—	54	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	397	—	—	—	397
Pakistan	—	—	—	—	—	—	—	—	—	—	—
Panama	—	—	—	—	—	—	1,071	265	241	—	1,577
Peru	—	0	121	29	—	—	1,442	—	—	—	1,442
Philippines	—	—	1	—	—	—	—	1	—	—	1
Portugal	—	—	—	—	—	—	—	—	—	—	—
Puerto Rico	—	0	1	—	—	—	0	—	—	—	0
Romania	—	—	—	—	—	—	330	—	—	—	330
Saudi Arabia	0	—	—	—	—	—	—	—	—	—	—
Serbia	—	—	—	—	—	—	—	—	—	—	—
Singapore	—	0	2	—	—	—	251	—	87	—	338
South Africa	—	0	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—	—	—
Switzerland	—	—	—	—	—	—	—	—	—	—	—
Taiwan	0	0	1	—	—	—	—	—	—	—	—
Thailand	—	0	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—
Turkey	—	—	22	—	—	—	1	—	—	—	1
United Arab Emirates	—	—	0	—	—	—	—	—	—	—	—
United Kingdom	—	0	0	—	—	—	401	—	—	—	401
Venezuela	507	—	—	—	—	—	1,386	281	—	—	1,667
Other	17	—	3	—	—	—	1,373	306	686	—	2,366
Total	1,245	672	2,904	152	—	—	30,070	2,741	1,810	—	34,621

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, November 2016
(Thousand Barrels) — Continued

Destination	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks	
							Naphtha	Other Oils
Argentina	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	0	—	—
Bahamas	0	—	—	12	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—
Belize	—	—	—	—	—	—	—	—
Brazil	0	—	—	—	—	—	—	—
Canada	4	—	—	1,370	—	1,153	—	—
Cayman Islands	—	—	—	10	—	0	—	—
Chile	—	—	—	0	—	—	0	—
China	0	—	—	—	—	—	—	—
Colombia	—	—	—	0	—	0	—	—
Costa Rica	—	—	—	209	—	0	—	—
Denmark	—	—	—	—	—	—	—	—
Dominican Republic	—	—	—	510	—	—	—	—
Ecuador	—	—	—	—	—	211	—	—
Egypt	—	—	—	—	—	—	—	—
El Salvador	0	—	—	—	—	78	—	—
Finland	39	—	—	300	—	—	—	—
France	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—
Ghana	—	—	—	—	—	—	—	—
Gibraltar	—	—	—	316	—	455	—	—
Greece	—	—	—	—	—	—	—	—
Guatemala	—	—	—	93	—	108	—	—
Honduras	0	—	—	95	—	—	—	—
Hong Kong	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—
Ireland	—	—	—	—	—	—	—	—
Israel	—	—	—	333	—	—	—	—
Italy	—	—	—	—	—	—	—	—
Jamaica	—	—	—	—	—	391	—	—
Japan	—	—	—	—	—	0	—	—
Korea, South	0	—	—	—	—	—	—	—
Lebanon	0	—	—	—	—	402	—	—
Mexico	0	—	—	1,213	—	149	—	—
Montenegro	—	—	—	—	—	—	—	—
Morocco	—	—	—	—	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—
Netherlands	0	—	—	300	—	577	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—
New Zealand	0	—	—	—	—	—	—	—
Nicaragua	0	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—
Norway	210	—	—	—	—	—	—	—
Pakistan	—	—	—	—	—	—	—	—
Panama	1	—	—	500	—	325	—	—
Peru	—	—	—	380	—	—	—	—
Philippines	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—
Puerto Rico	—	—	—	—	—	0	—	—
Romania	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—
Serbia	—	—	—	—	—	—	—	—
Singapore	0	—	—	—	—	3,448	—	—
South Africa	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	640	—	—
Switzerland	—	—	—	—	—	—	—	—
Taiwan	—	—	—	—	—	0	—	—
Thailand	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	1	—	—	—	—
Turkey	0	—	—	—	—	—	—	—
United Arab Emirates	0	—	—	—	—	356	—	—
United Kingdom	—	—	—	200	—	0	—	—
Venezuela	—	—	—	—	—	—	—	—
Other	1	—	—	39	—	437	—	—
Total	255	—	—	5,881	—	8,730	—	—

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, November 2016
(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	1	0	0	12	0	1,385	1,664	9	46	55
Australia	0	242	0	4	0	249	249	—	8	8
Bahamas	—	—	3	4	—	607	657	2	20	22
Bahrain	—	—	—	0	—	1	1	—	0	0
Belgium	0	292	—	343	1	886	886	—	30	30
Belize	—	—	—	1	—	42	42	—	1	1
Brazil	0	523	0	207	1	10,576	10,576	—	353	353
Canada	98	293	128	247	5	15,961	26,485	351	532	883
Cayman Islands	—	—	1	1	—	53	53	—	2	2
Chile	0	276	111	76	—	4,120	4,120	—	137	137
China	20	868	3	26	1	6,434	8,718	76	214	291
Colombia	0	—	0	40	1	3,705	4,205	17	123	140
Costa Rica	0	—	3	23	0	1,900	1,900	—	63	63
Denmark	—	169	—	0	—	169	169	—	6	6
Dominican Republic	0	305	—	14	0	2,821	2,821	—	94	94
Ecuador	0	182	0	58	—	4,160	4,160	—	139	139
Egypt	—	—	—	0	—	440	440	—	15	15
El Salvador	—	—	—	6	—	678	678	—	23	23
Finland	—	—	—	1	—	339	339	—	11	11
France	0	17	—	59	0	1,883	1,883	—	63	63
Germany	1	—	0	8	0	14	14	—	0	0
Ghana	—	—	—	0	—	382	382	—	13	13
Gibraltar	—	—	—	249	—	1,996	1,996	—	67	67
Greece	—	352	—	0	—	352	352	—	12	12
Guatemala	0	423	—	20	—	2,736	2,736	—	91	91
Honduras	—	—	—	7	—	1,695	1,695	—	57	57
Hong Kong	0	—	—	3	0	4	4	—	0	0
India	1	1,285	1	63	0	1,627	1,627	—	54	54
Indonesia	—	0	1	1	0	3	3	—	0	0
Ireland	—	—	—	—	—	0	0	—	0	0
Israel	0	—	—	2	—	338	338	—	11	11
Italy	0	—	—	17	0	28	675	22	1	23
Jamaica	—	—	—	16	0	811	811	—	27	27
Japan	1	1,429	0	39	4	4,945	4,945	—	165	165
Korea, South	0	272	1	3	1	3,694	4,948	42	123	165
Lebanon	0	116	—	1	—	519	519	—	17	17
Mexico	14	2,281	129	459	3	29,923	29,923	—	997	997
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	428	—	1	—	1,231	1,231	—	41	41
Mozambique	—	39	—	—	—	39	39	—	1	1
Netherlands	3	65	0	13	1	4,339	5,307	32	145	177
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
New Zealand	0	94	—	1	—	95	95	—	3	3
Nicaragua	—	—	—	5	—	232	232	—	8	8
Nigeria	—	—	—	2	—	575	575	—	19	19
Norway	0	58	0	0	—	981	981	—	33	33
Pakistan	0	—	—	1	—	1	1	—	0	0
Panama	—	—	36	24	—	3,157	3,157	—	105	105
Peru	0	0	0	69	0	2,858	3,208	12	95	107
Philippines	0	—	—	1	—	4	4	—	0	0
Portugal	—	—	—	0	—	550	550	—	18	18
Puerto Rico	0	—	0	10	—	14	14	—	0	0
Romania	0	—	—	0	—	330	330	—	11	11
Saudi Arabia	0	8	—	1	—	13	13	—	0	0
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	0	—	—	2	—	6,411	6,653	8	214	222
South Africa	0	—	—	53	—	778	778	—	26	26
Spain	1	1,061	—	1	—	2,003	2,003	—	67	67
Switzerland	0	—	—	0	—	1,128	1,128	—	38	38
Taiwan	0	—	1	4	0	333	333	—	11	11
Thailand	0	0	1	3	1	5	330	11	0	11
Trinidad and Tobago	—	0	—	4	—	5	5	—	0	0
Turkey	0	1,995	—	8	—	2,026	2,026	—	68	68
United Arab Emirates	0	0	—	30	—	864	864	—	29	29
United Kingdom	0	—	0	1	0	879	1,370	16	29	46
Venezuela	—	206	—	5	—	5,111	5,111	—	170	170
Other	4	115	5	100	1	4,399	4,402	0	149	146
Total	144	13,394	424	2,349	20	143,837	161,754	597	4,795	5,392

— = No Data Reported.

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

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

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

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-November 2016
(Thousand Barrels)

Destination	Crude Oil ¹	Pentanes Plus	Liquefied Petroleum Gases	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
Argentina	558	0	462	632	—	1,341	1,341	—	124	124
Australia	—	4	2,113	6	—	7	7	1	0	1
Bahamas	1,551	2	439	276	—	1,140	1,140	0	5	5
Bahrain	—	—	—	0	—	3	3	—	—	—
Belgium	—	5	1,569	143	—	0	0	0	269	269
Belize	—	0	—	—	—	216	216	—	32	32
Brazil	193	18	14,137	3,645	—	7,460	7,460	—	20	20
Canada	104,091	66,230	30,848	16,662	—	9,862	9,862	2	8,785	8,787
Cayman Islands	—	0	603	0	—	232	232	—	0	0
Chile	—	1	8,344	1,254	—	2,440	2,440	0	174	174
China	6,313	8	38,207	3,265	—	388	388	0	507	507
Colombia	3,514	8	2	14,812	—	8,318	8,318	0	419	419
Costa Rica	—	1	1,372	194	—	4,564	4,564	0	2,344	2,344
Denmark	—	0	—	—	—	—	—	—	0	0
Dominican Republic	298	2	9,113	192	—	4,579	4,579	0	100	101
Ecuador	—	0	8,477	27	—	7,795	7,795	0	1,295	1,295
Egypt	—	—	0	0	—	—	—	—	—	—
El Salvador	—	1	2,644	3	—	3,806	3,806	0	54	54
Finland	—	—	—	0	—	0	0	—	—	—
France	2,375	137	4,514	4,066	—	1	1	26	251	277
Germany	—	0	—	38	—	2	2	0	1	1
Ghana	—	—	2,070	0	—	—	—	—	—	—
Gibraltar	—	—	936	—	—	299	299	—	300	300
Greece	—	—	1	15	—	1	1	—	—	—
Guatemala	—	14	3,959	119	—	10,609	10,609	0	496	496
Honduras	—	4	2,848	10	—	3,939	3,939	—	149	149
Hong Kong	—	0	7	5	—	8	8	—	0	0
India	—	1	1	112	—	—	—	—	0	0
Indonesia	—	0	550	37	—	—	—	—	0	0
Ireland	—	—	—	—	—	1	1	—	0	0
Israel	770	0	4	14	—	13	13	—	0	0
Italy	7,153	—	—	2,282	—	0	0	—	—	—
Jamaica	—	1	665	1	—	14	14	—	0	0
Japan	2,885	0	46,383	1,098	—	10	10	2	2	4
Korea, South	3,894	1	28,437	1,202	—	6	6	0	1	1
Lebanon	—	—	—	—	—	—	—	—	—	0
Mexico	—	316	39,132	3,423	—	104,848	104,848	12	25,669	25,681
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	—	3,535	53	—	0	0	—	—	—
Mozambique	—	—	693	—	—	—	—	—	—	—
Netherlands	12,894	363	21,051	6,436	—	2,560	2,560	—	1,310	1,310
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
New Zealand	—	—	3	0	—	1	1	1	—	1
Nicaragua	1,160	2	—	162	—	256	256	—	—	—
Nigeria	—	0	—	1	—	843	843	—	—	—
Norway	—	0	6,138	—	—	1	1	0	—	0
Pakistan	—	—	—	0	—	1	1	—	—	—
Panama	1,150	0	2,705	324	—	7,885	7,885	—	132	132
Peru	1,890	3	698	939	—	3,115	3,115	—	1,037	1,037
Philippines	—	—	1	5	—	0	0	—	0	0
Portugal	—	—	2,858	—	—	0	0	—	—	—
Puerto Rico	—	3	6	5	—	34	34	0	3	3
Romania	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	0	9	42	—	500	500	0	0	0
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	3,870	3	14,012	1,723	—	2,678	2,678	—	0	0
South Africa	1,003	—	839	0	—	8	8	—	—	—
Spain	1,631	0	4,715	2,105	—	1,031	1,031	—	0	0
Switzerland	1,738	0	2,216	920	—	—	—	—	—	—
Taiwan	—	16	579	346	—	2	2	—	0	0
Thailand	728	0	0	10	—	—	—	—	0	0
Trinidad and Tobago	—	2	0	37	—	1	1	—	0	0
Turkey	—	2	2,742	267	—	0	0	—	—	—
United Arab Emirates	—	1	0	4	—	1,418	1,418	—	0	0
United Kingdom	4,653	0	4,794	321	—	12	12	0	0	0
Venezuela	—	1	154	8,732	—	4,325	4,325	—	938	938
Other	12,249	22	11,647	514	—	5,719	5,719	4	130	133
Total	176,561	67,172	327,232	76,479	—	202,292	202,292	48	44,547	44,595

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-November 2016
(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	—	—	—	15,135	378	300	—	15,813
Australia	0	0	1	0	—	—	319	315	—	—	634
Bahamas	70	6	10	—	—	—	2,108	193	2,248	—	4,549
Bahrain	—	—	0	—	—	—	—	—	—	—	—
Belgium	55	0	1	—	—	—	2,521	1,418	305	—	4,244
Belize	—	—	0	—	—	—	0	—	—	—	0
Brazil	0	0	5,345	0	—	—	38,663	1,901	913	—	41,477
Canada	—	3	5,525	1,613	—	—	3,343	6,365	1,737	—	11,445
Cayman Islands	34	—	0	—	—	—	573	—	—	—	573
Chile	2,306	0	11	0	—	—	30,083	2,167	—	—	32,250
China	45	1	4,266	0	—	—	10	0	—	—	10
Colombia	—	0	43	—	—	—	21,143	92	—	—	21,235
Costa Rica	22	0	2	—	—	—	7,477	—	0	—	7,477
Denmark	—	—	—	—	—	—	142	50	131	—	323
Dominican Republic	—	—	3	—	—	—	5,559	322	734	—	6,615
Ecuador	—	0	1	76	—	—	9,066	2,305	2,711	—	14,081
Egypt	—	—	1	—	—	—	440	—	—	—	440
El Salvador	—	—	0	—	—	—	258	1,663	464	—	2,385
Finland	—	—	—	—	—	—	—	—	—	—	—
France	11	2	0	—	—	—	19,273	—	—	—	19,273
Germany	0	0	1	—	—	—	1,328	—	—	—	1,328
Ghana	—	—	0	0	—	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	—	12,087	1,104	653	—	13,844
Greece	—	—	0	—	—	—	0	—	—	—	0
Guatemala	—	0	0	—	—	—	5,699	5,253	96	—	11,048
Honduras	—	—	—	—	—	—	2,164	2,622	142	—	4,928
Hong Kong	—	0	0	—	—	—	1	—	—	—	1
India	0	1	1,937	—	—	—	1	0	0	—	1
Indonesia	—	0	0	0	—	—	3	—	—	—	3
Ireland	0	0	2	—	—	—	—	—	—	—	—
Israel	0	0	1	—	—	—	174	—	—	—	174
Italy	—	0	0	—	—	—	1,273	—	—	—	1,273
Jamaica	—	—	338	—	—	—	1,666	55	379	—	2,100
Japan	—	9,273	4	—	—	—	4	—	—	—	4
Korea, South	33	1	855	1	—	—	486	—	—	—	486
Lebanon	—	0	1	—	—	—	0	—	—	—	0
Mexico	8,147	12	646	109	—	—	56,832	1,193	54	—	58,079
Montenegro	—	—	—	—	—	—	—	—	—	—	—
Morocco	—	—	0	—	—	—	1,469	—	—	—	1,469
Mozambique	—	—	—	—	—	—	—	—	—	—	—
Netherlands	27	0	173	64	—	—	30,759	2,663	4,102	—	37,524
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—
New Zealand	—	0	0	—	—	—	0	—	—	—	0
Nicaragua	—	—	0	5	—	—	375	155	0	—	530
Nigeria	—	0	384	0	—	—	—	—	—	—	—
Norway	—	0	30	—	—	—	1,286	308	—	—	1,593
Pakistan	—	0	—	—	—	—	—	—	—	—	—
Panama	—	0	0	—	—	—	11,202	3,696	744	—	15,642
Peru	—	0	858	140	—	—	19,343	—	—	—	19,343
Philippines	—	0	1,204	—	—	—	—	2	—	—	2
Portugal	—	—	—	—	—	—	—	—	—	—	—
Puerto Rico	0	2	14	—	—	—	3	1	—	—	4
Romania	—	—	0	—	—	—	899	—	—	—	899
Saudi Arabia	0	0	97	—	—	—	0	—	—	—	0
Serbia	—	—	—	—	—	—	—	—	—	—	—
Singapore	0	7	223	0	—	—	1,472	88	1,814	—	3,374
South Africa	—	0	—	—	—	—	—	—	—	—	—
Spain	—	0	0	—	—	—	1,311	315	—	—	1,625
Switzerland	—	—	—	2	—	—	1,177	324	—	—	1,501
Taiwan	133	0	8	—	—	—	0	—	—	—	0
Thailand	—	0	—	—	—	—	0	—	—	—	0
Trinidad and Tobago	—	0	1	0	—	—	0	—	—	—	0
Turkey	—	0	22	—	—	—	1	—	—	—	1
United Arab Emirates	—	0	479	0	—	—	0	—	0	—	0
United Kingdom	—	1	10	—	—	—	14,184	350	—	—	14,535
Venezuela	3,710	—	—	—	—	—	5,038	281	275	—	5,594
Other	123	4	80	2	—	—	10,840	2,218	5,278	—	18,337
Total	14,716	9,313	22,577	2,012	—	—	337,190	37,797	23,080	—	398,066

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-November 2016
(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	4	—	—	917	—	0	—	—
Australia	0	—	—	0	—	0	—	—
Bahamas	0	—	—	803	—	3,478	—	—
Bahrain	—	—	—	—	—	—	—	—
Belgium	0	—	—	—	—	309	—	—
Belize	0	—	—	—	—	—	—	—
Brazil	0	—	—	909	—	—	—	—
Canada	2,430	—	—	12,690	—	10,389	—	—
Cayman Islands	0	—	—	154	—	0	—	—
Chile	4	—	—	2,017	—	—	—	—
China	5	—	—	1	—	386	—	—
Colombia	2	—	—	647	—	0	—	—
Costa Rica	1	—	—	1,524	—	216	—	—
Denmark	—	—	—	660	—	173	—	—
Dominican Republic	13	—	—	1,694	—	563	—	—
Ecuador	—	—	—	25	—	2,143	—	—
Egypt	0	—	—	—	—	4,539	—	—
El Salvador	0	—	—	153	—	578	—	—
Finland	39	—	—	1,436	—	—	—	—
France	—	—	—	30	—	—	—	—
Germany	0	—	—	1	—	2	—	—
Ghana	—	—	—	1	—	—	—	—
Gibraltar	—	—	—	1,992	—	3,187	—	—
Greece	—	—	—	—	—	—	—	—
Guatemala	138	—	—	1,163	—	1,028	—	—
Honduras	1	—	—	687	—	3,620	—	—
Hong Kong	0	—	—	0	—	0	—	—
India	0	—	—	—	—	155	—	—
Indonesia	—	—	—	—	—	—	—	—
Ireland	—	—	—	—	—	—	—	—
Israel	1	—	—	2,161	—	—	—	—
Italy	—	—	—	—	—	0	—	—
Jamaica	0	—	—	205	—	3,375	—	—
Japan	0	—	—	2	—	0	—	—
Korea, South	2	—	—	0	—	0	—	—
Lebanon	0	—	—	—	—	4,832	—	—
Mexico	96	—	—	10,866	—	9,187	—	—
Montenegro	—	—	—	—	—	—	—	—
Morocco	—	—	—	0	—	917	—	—
Mozambique	—	—	—	—	—	—	—	—
Netherlands	3	—	—	2,320	—	8,253	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—
New Zealand	0	—	—	—	—	0	—	—
Nicaragua	0	—	—	0	—	170	—	—
Nigeria	306	—	—	181	—	—	—	—
Norway	210	—	—	300	—	—	—	—
Pakistan	—	—	—	—	—	—	—	—
Panama	2	—	—	5,083	—	4,382	—	—
Peru	0	—	—	1,307	—	330	—	—
Philippines	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—
Puerto Rico	1	—	—	0	—	90	—	—
Romania	—	—	—	—	—	—	—	—
Saudi Arabia	1	—	—	0	—	0	—	—
Serbia	—	—	—	—	—	—	—	—
Singapore	1	—	—	0	—	23,147	—	—
South Africa	1	—	—	10	—	331	—	—
Spain	—	—	—	550	—	1,304	—	—
Switzerland	—	—	—	0	—	—	—	—
Taiwan	—	—	—	0	—	0	—	—
Thailand	—	—	—	—	—	0	—	—
Trinidad and Tobago	0	—	—	1	—	0	—	—
Turkey	0	—	—	—	—	—	—	—
United Arab Emirates	2	—	—	0	—	2,668	—	—
United Kingdom	—	—	—	3,679	—	1,527	—	—
Venezuela	0	—	—	1	—	—	—	—
Other	7	—	—	4,218	—	6,575	—	—
Total	3,270	—	—	58,388	—	97,854	—	—

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-November 2016
(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	2	1	2	387	3	19,689	20,247	2	59	60
Australia	5	2,257	124	165	4	5,321	5,321	—	16	16
Bahamas	0	—	22	34	0	10,836	12,388	5	32	37
Bahrain	0	—	—	5	—	8	8	—	0	0
Belgium	7	1,724	1	3,037	3	11,368	11,368	—	34	34
Belize	0	—	43	13	—	305	305	—	1	1
Brazil	2	10,451	1	2,392	8	85,867	86,060	1	256	257
Canada	857	7,374	2,236	2,795	44	189,789	293,880	311	567	877
Cayman Islands	—	—	7	22	—	1,626	1,626	—	5	5
Chile	4	1,005	529	764	1	51,104	51,104	—	153	153
China	53	13,745	93	780	6	61,765	68,078	19	184	203
Colombia	4	1	32	1,088	4	46,616	50,131	10	139	150
Costa Rica	1	559	157	202	1	18,636	18,636	—	56	56
Denmark	0	895	—	1	—	2,053	2,053	—	6	6
Dominican Republic	1	1,598	512	245	1	25,230	25,529	1	75	76
Ecuador	2	1,203	1	449	0	35,575	35,575	—	106	106
Egypt	1	3,980	—	42	0	9,003	9,003	—	27	27
El Salvador	1	147	—	251	0	10,022	10,022	—	30	30
Finland	—	—	0	16	—	1,491	1,491	—	4	4
France	14	1,015	0	613	0	29,954	32,329	7	89	97
Germany	17	2	10	713	4	2,119	2,119	—	6	6
Ghana	0	—	—	3	—	2,073	2,073	—	6	6
Gibraltar	—	—	—	249	—	20,807	20,807	—	62	62
Greece	0	3,183	—	3	—	3,203	3,203	—	10	10
Guatemala	0	1,292	26	198	—	30,091	30,091	—	90	90
Honduras	0	945	118	115	—	17,365	17,365	—	52	52
Hong Kong	4	0	0	29	2	56	56	—	0	0
India	13	44,497	10	361	2	47,090	47,090	—	141	141
Indonesia	1	0	9	40	1	641	641	—	2	2
Ireland	—	897	—	0	—	901	901	—	3	3
Israel	0	1,166	—	31	0	3,568	4,338	2	11	13
Italy	2	5,457	1	172	3	9,190	16,343	21	27	49
Jamaica	—	—	1	167	1	6,869	6,869	—	21	21
Japan	14	18,893	6	174	39	75,904	78,788	9	227	235
Korea, South	4	1,697	23	95	7	32,849	36,744	12	98	110
Lebanon	0	1,276	0	12	—	6,121	6,121	—	18	18
Mexico	109	17,217	1,662	4,787	252	284,570	284,570	—	849	849
Montenegro	—	—	—	—	0	0	0	—	0	0
Morocco	0	4,898	—	1	—	10,874	10,874	—	32	32
Mozambique	—	715	—	0	—	1,408	1,408	—	4	4
Netherlands	25	3,452	40	617	18	84,238	97,131	38	251	290
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
New Zealand	0	561	1	10	—	578	578	—	2	2
Nicaragua	—	0	23	184	—	1,332	2,493	3	4	7
Nigeria	—	209	0	380	—	2,305	2,305	—	7	7
Norway	1	868	3	4	—	9,149	9,149	—	27	27
Pakistan	0	439	2	11	0	453	453	—	1	1
Panama	0	645	278	218	0	37,295	38,445	3	111	115
Peru	1	696	0	737	1	29,207	31,096	6	87	93
Philippines	1	0	—	28	2	1,243	1,243	—	4	4
Portugal	0	413	—	1	—	3,273	3,273	—	10	10
Puerto Rico	1	—	2	137	0	302	302	—	1	1
Romania	0	784	—	1	—	1,684	1,684	—	5	5
Saudi Arabia	1	502	0	80	0	1,233	1,233	—	4	4
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	1	275	1	227	0	45,672	49,542	12	136	148
South Africa	1	371	1	471	0	2,033	3,036	3	6	9
Spain	3	10,039	215	12	0	21,599	23,230	5	64	69
Switzerland	0	—	1	1	0	4,640	6,377	5	14	19
Taiwan	12	533	5	47	2	1,684	1,684	—	5	5
Thailand	9	606	13	42	3	685	1,413	2	2	4
Trinidad and Tobago	0	5	0	117	0	165	165	—	0	0
Turkey	0	18,430	1	71	0	21,539	21,539	—	64	64
United Arab Emirates	0	428	1	279	0	5,281	5,281	—	16	16
United Kingdom	3	1,591	4	47	3	26,527	31,180	14	79	93
Venezuela	0	452	0	674	0	24,582	24,582	—	73	73
Other	3	4,900	672	1,293	11	54,234	66,481	36	164	199
Total	1,180	194,289	6,889	26,140	426	1,552,890	1,729,450	527	4,635	5,163

— = No Data Reported.

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

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

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

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, November 2016
(Thousand Barrels per Day)

Country of Origin	Crude Oil ¹	Pentanes Plus	Liquefied Petroleum Gases	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	3,242	0	-54	142	-	-95	-95	-	38	38
Algeria	129	-	-	147	-	-	-	-	-	-
Angola	161	-	-	13	-	-	-	-	-	-
Ecuador	250	0	-54	0	-	-26	-26	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	414	-	-	20	-	-	-	-	-	-
Kuwait	228	0	-	-	-	-	-	-	-	-
Libya	27	-	-	-	-	-	-	-	-	-
Nigeria	209	-	-	7	-	-17	-17	-	30	30
Qatar	-	-	-	-	-	0	0	-	-	-
Saudi Arabia	1,000	-	-	0	-	-	-	-	-	-
United Arab Emirates	26	0	-	0	-	-16	-16	-	-	-
Venezuela	797	0	-	-44	-	-36	-36	-	7	7
Non-OPEC	4,214	-165	-851	144	-	-671	-671	208	333	540
Argentina	15	-	-	-6	-	-14	-14	-	-	-
Aruba	-	-	-24	0	-	-	-	-	-	-
Australia	-	0	2	0	-	0	0	0	-	0
Bahamas	-2	0	-1	0	-	-1	-1	-	0	0
Bahrain	-	-	-	-	-	0	0	-	-	-
Belgium	-	-	-8	27	-	-	-	-	4	4
Brazil	164	0	-18	-7	-	-39	-39	-	13	13
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	0	-	-	-	-	-	-	-	-
Canada	3,206	-163	93	-60	-	-3	-3	71	18	88
Chad	32	-	-	-	-	-	-	-	-	-
China	-76	0	-128	-39	-	-1	-1	-	1	1
Colombia	298	0	0	-41	-	-46	-46	-	22	22
Denmark	-	-	-	-	-	-	-	-	-	-
Dominican Republic	-	-	-42	0	-	-12	-12	0	-	0
Equatorial Guinea	14	-	-	-	-	0	0	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	5	5	3	25	28
France	-	0	-1	2	-	1	1	20	1	21
Germany	-	-	-	0	-	-	-	1	-	1
Guatemala	9	0	-	0	-	-44	-44	-	-1	-1
Honduras	-	-	-15	0	-	-17	-17	-	-2	-2
India	-	0	-	0	-	-	-	-	23	23
Italy	-22	-	-	0	-	-	-	-	19	19
Japan	-	0	-93	0	-	0	0	0	0	0
Korea, South	-42	0	-110	19	-	0	0	0	0	0
Latvia	-	-	-	-	-	-	-	-	3	3
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	19	-	-	-	-	-	-
Mexico	623	-1	-189	-18	-	-385	-385	0	-25	-25
Netherlands	-32	-1	-43	-11	-	-8	-8	51	11	62
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-11	-	-	-	-	2	36	38
Oman	20	-	-	-	-	-	-	-	-	-
Panama	-	-	-5	0	-	-19	-19	-	-	-
Portugal	-	-	-18	-	-	9	9	-	10	10
Puerto Rico	-	0	0	0	-	0	0	-	-	-
Russia	-	-	-	245	-	-	-	4	65	69
Spain	-	-	-10	7	-	8	8	-	34	34
Sweden	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	12	0	-	-	-	5	5	-	1	1
United Kingdom	2	-	-9	13	-	0	0	56	39	96
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	0	0	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	-7	0	-221	-6	-	-110	-110	0	36	35
Total	7,456	-165	-906	286	-	-766	-766	208	370	578
Persian Gulf²	1,669	0	-	20	-	-16	-16	-	-	-

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, November 2016
(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	-17	—	-2	22	—	—	-81	-9	-9	—	-99
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	-35	—	-9	—	-43
Gabon	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	0	22	—	—	0	—	—	—	0
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	0	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	-2	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	0	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	0	—	—	—	—	—	—	—	—
Venezuela	-17	—	—	—	—	—	-46	-9	—	—	-56
Non-OPEC	-12	-21	-95	46	17	—	-833	-71	-20	13	-911
Argentina	1	0	—	38	—	—	-26	—	—	—	-26
Aruba	—	—	—	—	—	—	0	—	—	—	0
Australia	—	—	—	—	—	—	—	—	—	—	—
Bahamas	-1	0	—	—	—	—	-9	—	-8	—	-17
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	7	0	0	—	—	—	0	—	—	—	0
Brazil	—	1	-40	—	—	—	-222	-2	8	—	-215
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—
Canada	—	0	-20	2	—	—	56	-14	2	—	44
Chad	—	—	—	—	—	—	—	—	—	—	—
China	0	0	-16	—	—	—	13	—	—	—	13
Colombia	—	—	0	—	—	—	-35	10	—	10	-15
Denmark	—	—	—	—	—	—	—	—	—	—	—
Dominican Republic	—	—	0	—	—	—	-13	—	—	—	-13
Equatorial Guinea	—	—	—	—	—	—	—	—	0	—	0
Estonia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	0	0	—	—	—	-58	—	—	—	-58
Germany	2	0	—	5	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	-8	-17	—	—	-25
Honduras	—	—	—	—	—	—	-12	-4	-3	—	-19
India	0	—	-9	—	—	—	10	—	—	3	13
Italy	—	—	—	—	—	—	—	—	—	—	—
Japan	—	-22	0	—	—	—	0	—	—	—	0
Korea, South	—	0	-3	2	—	—	0	—	—	—	0
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	0	—	-23	—	-23
Mexico	-16	0	-2	0	—	—	-193	-5	0	—	-198
Netherlands	3	0	0	-1	—	—	-48	—	1	—	-47
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	-13	—	—	—	-13
Oman	—	—	—	—	—	—	—	—	—	—	—
Panama	—	—	—	—	—	—	-36	-9	-8	—	-53
Portugal	—	—	—	—	—	—	—	—	—	—	—
Puerto Rico	—	0	0	—	—	—	0	—	—	—	0
Russia	—	—	—	—	—	—	10	0	14	—	23
Spain	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	-3	—	—	—	-3
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	0	0	0	—	—	—	-13	—	—	—	-13
Vietnam	—	—	—	—	—	—	0	—	—	—	0
Virgin Islands, U.S.	—	—	—	—	—	—	-27	—	—	—	-27
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	-8	0	-5	0	17	—	-206	-30	-3	0	-239
Total	-29	-21	-97	68	17	—	-914	-80	-29	13	-1,010
Persian Gulf²	0	—	0	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, November 2016
(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	-	-	4	2	7	21	-
Algeria	-	-	-	-	-	3	21	-
Angola	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-7	-	-
Gabon	-	-	-	-	-	-	-	-
Indonesia	-	-	-	0	-	-	-	-
Iran	-	-	-	-	-	-	-	-
Iraq	-	-	-	0	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-
Libya	-	-	-	0	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-
Qatar	-	-	-	0	-	-	-	-
Saudi Arabia	-	-	-	-	2	-	-	-
United Arab Emirates	0	-	-	1	-	-12	-	-
Venezuela	-	-	-	2	-	23	-	-
Non-OPEC	-6	0	-	-44	16	-40	18	2
Argentina	-	-	-	-	-	-	-	-
Aruba	0	-	-	-	-	-	-	-
Australia	-	-	-	-	-	0	-	-
Bahamas	0	-	-	0	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Brazil	0	-	-	-	1	1	-	-
Brunei	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	5	-	-
Canada	0	0	-	-41	6	4	3	2
Chad	-	-	-	-	-	-	-	-
China	0	-	-	10	-	-	-	-
Colombia	-	-	-	0	-	12	-	-
Denmark	-	-	-	-	-	-	-	-
Dominican Republic	-	-	-	-17	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-1	-	-	-10	-	-	-	-
France	-	-	-	-	-	-	-	0
Germany	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-3	-	-4	-	-
Honduras	0	-	-	-3	-	-	-	-
India	-	-	-	8	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Japan	2	-	-	11	3	0	2	-
Korea, South	0	-	-	117	6	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Malaysia	-	-	-	1	-	-	-	-
Mexico	0	-	-	-40	-	38	11	-
Netherlands	0	-	-	-10	-	-13	1	-
Netherlands Antilles	-	-	-	-	-	-	-	-
Norway	-7	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-
Panama	0	-	-	-17	-	-11	-	-
Portugal	-	-	-	-	-	-	-	-
Puerto Rico	-	-	-	-	-	0	-	-
Russia	-	-	-	-	-	81	-	-
Spain	-	-	-	-	-	-21	-	-
Sweden	-	-	-	-	-	11	-	-
Trinidad and Tobago	-	-	-	0	-	11	-	-
United Kingdom	-	-	-	-7	-	0	3	-
Vietnam	0	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-15	-	-
Yemen	-	-	-	-	-	-	-	-
Other	0	0	-	-43	0	-139	-2	0
Total	-6	0	-	-40	18	-33	39	2
Persian Gulf²	0	-	-	1	2	-12	-	-

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, November 2016
(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	-13	5	6	0	-33	3,209
Algeria	0	—	—	0	—	171	300
Angola	—	—	0	—	—	12	174
Ecuador	0	-6	0	-2	—	-139	111
Gabon	—	—	—	—	—	—	—
Indonesia	—	0	0	1	0	23	23
Iran	—	—	—	—	—	—	—
Iraq	—	—	—	0	—	20	434
Kuwait	—	—	—	0	—	0	228
Libya	—	—	—	0	—	0	27
Nigeria	—	—	—	0	—	18	227
Qatar	—	—	—	9	—	9	9
Saudi Arabia	0	0	—	0	—	2	1,002
United Arab Emirates	0	0	—	-1	—	-28	-1
Venezuela	—	-7	5	0	—	-122	675
Non-OPEC	-1	-426	8	-50	-1	-2,502	1,712
Argentina	0	0	0	0	0	-8	7
Aruba	—	—	—	0	—	-24	-24
Australia	0	-8	0	0	0	-6	-6
Bahamas	—	—	0	0	—	-20	-22
Bahrain	—	—	—	2	—	2	2
Belgium	0	-10	—	-11	0	8	8
Brazil	0	-17	0	-7	0	-328	-164
Brunei	—	—	—	—	—	—	—
Cameroon	—	—	—	0	—	5	5
Canada	-1	-8	17	3	0	-34	3,171
Chad	—	—	—	—	—	—	32
China	0	-29	0	-1	0	-190	-266
Colombia	0	—	0	-1	0	-70	228
Denmark	—	-6	—	0	—	-6	-6
Dominican Republic	0	-10	—	0	0	-94	-94
Equatorial Guinea	—	—	—	0	—	0	14
Estonia	—	—	—	—	—	—	—
Finland	—	—	—	0	—	22	22
France	0	-1	—	-2	0	-37	-37
Germany	0	—	0	0	0	8	8
Guatemala	0	-14	—	-1	—	-91	-82
Honduras	—	—	—	0	—	-57	-57
India	0	-43	0	-2	0	-10	-10
Italy	0	—	—	0	0	18	-3
Japan	0	-48	0	-1	0	-147	-147
Korea, South	0	-9	0	8	0	30	-12
Latvia	—	—	—	—	—	3	3
Lithuania	—	—	—	0	—	0	0
Malaysia	0	0	0	0	0	-4	-4
Mexico	0	-76	-4	-15	0	-923	-300
Netherlands	0	-2	0	0	0	-70	-103
Netherlands Antilles	—	—	—	—	—	—	—
Norway	0	-2	0	0	—	5	5
Oman	—	-2	—	0	—	-2	18
Panama	—	—	-1	-1	—	-105	-105
Portugal	—	—	—	0	—	1	1
Puerto Rico	0	—	0	0	—	0	0
Russia	0	—	0	0	—	419	419
Spain	0	-35	—	1	—	-17	-17
Sweden	—	-1	—	0	0	7	7
Trinidad and Tobago	—	0	—	0	—	17	29
United Kingdom	0	5	0	2	0	89	91
Vietnam	0	—	—	0	0	0	0
Virgin Islands, U.S.	—	—	0	0	—	-42	-42
Yemen	—	—	—	0	—	0	0
Other	0	-110	-4	-24	-1	-851	-857
Total	-1	-440	12	-43	-1	-2,536	4,921
Persian Gulf²	0	0	—	10	—	5	1,674

— = No Data Reported.

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

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

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

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

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-November 2016
(Thousand Barrels per Day)

Country of Origin	Crude Oil ¹	Pentanes Plus	Liquefied Petroleum Gases	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	3,170	0	-26	122	-	-49	-49	0	37	37
Algeria	45	-	2	125	-	-5	-5	-	2	2
Angola	164	-	-	9	-	-	-	-	1	1
Ecuador	237	0	-25	0	-	-23	-23	0	-2	-2
Gabon	1	-	-	1	-	-	-	-	-	-
Indonesia	37	0	-2	0	-	-	-	-	1	1
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	402	0	-	3	-	-	-	-	0	0
Kuwait	205	0	-	0	-	0	0	-	0	0
Libya	10	-	-	4	-	-	-	-	-	-
Nigeria	209	0	-	1	-	-3	-3	-	24	24
Qatar	-	-	-	0	-	0	0	-	-	-
Saudi Arabia	1,105	0	0	4	-	-1	-1	0	0	0
United Arab Emirates	11	0	0	2	-	-4	-4	-	0	0
Venezuela	744	0	0	-25	-	-13	-13	0	12	12
Non-OPEC	4,182	-191	-802	239	-	-493	-493	188	304	493
Argentina	11	0	-1	-1	-	-4	-4	-	0	0
Aruba	-	0	-27	0	-	-3	-3	-	0	0
Australia	4	0	-6	0	-	0	0	0	0	0
Bahamas	-5	0	-1	-1	-	-3	-3	0	0	0
Bahrain	-	-	-	0	-	0	0	-	-	-
Belgium	-	0	-5	42	-	4	4	1	12	13
Brazil	147	0	-42	-10	-	-21	-21	-	8	8
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	0	-	2	-	0	0	-	-	-
Canada	2,928	-197	50	-46	-	4	4	87	32	118
Chad	67	0	-	-	-	-	-	-	-	-
China	-19	0	-114	-10	-	-1	-1	0	0	0
Colombia	439	0	0	-40	-	-25	-25	0	14	14
Denmark	2	0	-	0	-	0	0	0	0	1
Dominican Republic	-1	0	-27	-1	-	-14	-14	0	0	0
Equatorial Guinea	7	-	-	0	-	0	0	-	-	-
Estonia	-	-	-	-	-	-	-	-	0	0
Finland	-	-	-	1	-	1	1	1	21	21
France	-7	0	-13	1	-	1	1	19	3	22
Germany	-	0	-	2	-	0	0	0	0	1
Guatemala	7	0	-12	0	-	-32	-32	0	-1	-1
Honduras	-	0	-9	0	-	-12	-12	-	0	0
India	-	0	0	5	-	0	0	1	59	60
Italy	-21	-	0	0	-	1	1	0	9	9
Japan	-9	0	-138	-3	-	0	0	0	1	1
Korea, South	-12	0	-85	-1	-	1	1	0	4	4
Latvia	-	-	-	-	-	-	-	-	1	1
Lithuania	-	-	-	-	-	0	0	-	2	2
Malaysia	5	0	-	8	-	-1	-1	-	1	1
Mexico	588	5	-116	-9	-	-313	-313	0	-62	-62
Netherlands	-38	-1	-63	-11	-	-3	-3	16	13	28
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	39	0	-18	11	-	1	1	1	29	29
Oman	31	0	-	0	-	-	-	0	0	0
Panama	-3	0	-8	-1	-	-23	-23	-	0	0
Portugal	-	-	-9	-	-	3	3	8	14	22
Puerto Rico	-	0	0	0	-	0	0	0	0	0
Russia	39	-	-	294	-	0	0	2	47	49
Spain	-5	0	-14	-4	-	0	0	-	43	43
Sweden	-	-	0	3	-	1	1	0	2	2
Trinidad and Tobago	8	0	0	0	-	1	1	-	5	5
United Kingdom	5	0	-14	6	-	5	5	51	38	89
Vietnam	4	0	-	0	-	0	0	-	0	0
Virgin Islands, U.S.	-	0	0	0	-	0	0	0	0	0
Yemen	-	-	-	-	-	-	-	-	-	-
Other	-29	2	-130	2	-	-61	-61	1	9	13
Total	7,352	-191	-828	361	-	-542	-542	188	342	530
Persian Gulf²	1,723	0	0	8	-	-6	-6	0	0	0

See footnotes at end of table.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-November 2016
(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	-10	0	-3	7	-	-	-42	-9	-11	-	-62
Algeria	-	-	-	-	-	-	-1	-1	-2	-	-4
Angola	-	0	-	-	-	-	-	-	-	-	-
Ecuador	-	0	0	0	-	-	-27	-7	-8	-	-42
Gabon	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	0	0	7	-	-	0	-	-	-	0
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	0	0	-	-	-	-	-	-	-	-
Kuwait	-	-	0	-	-	-	-	-	-	-	-
Libya	-	0	-	-	-	-	-	-	-1	-	-1
Nigeria	-	0	-1	0	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	1	-	1	-	2
Saudi Arabia	0	0	0	-	-	-	0	-	-	-	0
United Arab Emirates	1	0	-1	0	-	-	0	-	0	-	0
Venezuela	-11	-	-	-	-	-	-15	-1	-1	-	-17
Non-OPEC	-25	-25	-62	28	14	-	-868	-99	-18	4	-982
Argentina	0	0	0	26	-	-	-45	-1	-1	-	-47
Aruba	-	-	0	-	-	-	-1	-	-	-	-1
Australia	0	0	0	0	-	-	-1	-1	-	-	-2
Bahamas	0	0	0	-	-	-	-6	-1	-7	-	-14
Bahrain	-	-	0	-	-	-	-	-	-	-	-
Belgium	1	0	0	-	-	-	-7	-4	-1	-	-12
Brazil	2	2	-13	0	-	-	-115	-6	-2	-	-123
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	0	-	-	-	-	-	-	-	0
Canada	-	0	-16	1	-	-	61	-17	24	1	68
Chad	-	-	-	-	-	-	-	-	-	-	-
China	0	0	-13	0	-	-	2	0	-	-	2
Colombia	-	0	0	-	-	-	-63	2	0	1	-60
Denmark	-	-	-	-	-	-	0	0	0	-	-1
Dominican Republic	-	-	0	-	-	-	-17	-1	-2	-	-20
Equatorial Guinea	-	-	-	-	-	-	-	-	0	-	0
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	0	0	0	-	-	-	-58	-	0	-	-57
Germany	1	0	0	1	-	-	-4	-	0	-	-4
Guatemala	-	0	0	-	-	-	-17	-16	0	-	-33
Honduras	-	-	-	-	-	-	-6	-8	0	-	-15
India	0	0	-6	-	-	-	3	0	0	1	4
Italy	-	0	0	-	-	-	-4	-	1	-	-3
Japan	-	-28	0	-	-	-	3	-	-	-	3
Korea, South	0	0	-3	1	-	-	2	0	-	-	2
Latvia	-	-	-	-	-	-	0	-	-	-	0
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	0	0	-	-	-	-	0	-	-10	-	-10
Mexico	-24	0	-2	0	-	-	-170	-4	0	-	-173
Netherlands	2	0	-1	0	-	-	-91	-8	-12	0	-110
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	0	0	-	-	-	-4	-1	-	-	-5
Oman	-	-	0	-	-	-	0	-	-	-	0
Panama	-	0	0	-	-	-	-33	-11	-2	-	-47
Portugal	-	-	-	-	-	-	1	-	-	-	1
Puerto Rico	0	0	0	-	-	-	0	0	-	-	0
Russia	1	-	-	0	-	-	10	0	3	-	12
Spain	-	0	0	-	-	-	-4	-1	-	-	-5
Sweden	-	-	0	-	-	-	0	-	2	-	2
Trinidad and Tobago	-	0	0	0	-	-	0	-	1	-	1
United Kingdom	0	0	0	-	-	-	-42	-1	-	-	-43
Vietnam	-	0	-	-	-	-	0	-	-	-	0
Virgin Islands, U.S.	-	-	0	-	-	-	-9	-	-	-	-9
Yemen	-	-	0	-	-	-	-	-	-	-	-
Other	-8	1	-8	-1	14	-	-253	-20	-12	1	-283
Total	-35	-25	-65	35	14	-	-910	-108	-29	4	-1,043
Persian Gulf²	1	0	-2	0	-	-	1	-	1	-	2

See footnotes at end of table.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-November 2016
(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	-1	-	-	11	2	12	4	1
Algeria	-	-	-	-	-	4	3	-
Angola	-	-	-	-	-	-	-	-
Ecuador	-	-	-	0	-	-6	-	-
Gabon	-	-	-	-	-	0	-	-
Indonesia	-	-	-	0	-	-	-	-
Iran	-	-	-	-	-	-	-	-
Iraq	0	-	-	0	-	2	-	-
Kuwait	-	-	-	0	-	-	-	-
Libya	-	-	-	0	-	1	-	-
Nigeria	-1	-	-	-1	-	3	-	1
Qatar	-	-	-	0	-	-	-	-
Saudi Arabia	0	-	-	1	2	0	1	-
United Arab Emirates	0	-	-	0	-	-8	-	-
Venezuela	0	-	-	10	-	16	-	-
Non-OPEC	-7	0	-	-37	13	-77	22	5
Argentina	0	-	-	-3	-	0	0	1
Aruba	0	-	-	-1	-	-2	-	-
Australia	0	-	-	0	-	0	-	-
Bahamas	0	-	-	-2	-	-9	-	-
Bahrain	-	-	-	-	-	-	-	-
Belgium	0	-	-	-	-	0	0	-
Brazil	0	-	-	-3	0	4	0	-
Brunei	0	-	-	0	-	-	-	-
Cameroon	-	-	-	-	-	1	-	-
Canada	-7	0	-	-28	4	8	3	3
Chad	-	-	-	-	-	-	-	-
China	1	-	-	14	-	-1	-	-
Colombia	0	-	-	-2	-	19	-	-
Denmark	-	-	-	-2	-	0	-	-
Dominican Republic	0	-	-	-5	-	-2	-	-
Equatorial Guinea	-	-	-	-	-	0	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	0	-	-	-4	-	0	-	-
France	-	-	-	0	-	1	-	1
Germany	0	-	-	0	-	0	-	-
Guatemala	0	-	-	-3	-	-3	-	-
Honduras	0	-	-	-2	-	-11	-	-
India	0	-	-	19	-	0	-	-
Italy	-	-	-	-	0	1	-	-
Japan	1	-	-	11	3	0	1	-
Korea, South	0	-	-	80	4	0	3	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Malaysia	0	-	-	0	-	-1	-	-
Mexico	0	-	-	-32	-	22	13	-
Netherlands	0	0	-	-7	0	-16	1	-
Netherlands Antilles	-	-	-	-	-	-	-	-
Norway	-1	-	-	-1	-	2	-	-
Oman	-	-	-	-	-	0	-	-
Panama	0	-	-	-15	-	-13	-	-
Portugal	-	-	-	-	-	-	-	-
Puerto Rico	0	-	-	0	-	0	-	-
Russia	0	-	-	0	-	47	-	-
Spain	-	-	-	-2	-	-3	-	-
Sweden	-	-	-	-3	-	2	-	-
Trinidad and Tobago	0	-	-	0	-	10	-	-
United Kingdom	-	-	-	-11	-	-4	1	-
Vietnam	0	-	-	0	-	-	-	-
Virgin Islands, U.S.	0	-	-	0	-	-6	-	-
Yemen	-	-	-	-	-	-	-	-
Other	-1	0	-	-35	2	-123	0	0
Total	-8	0	-	-26	14	-65	26	5
Persian Gulf²	0	-	-	1	2	-5	1	-

See footnotes at end of table.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-November 2016
(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	-5	6	5	0	52	3,222
Algeria	0	—	0	0	—	126	171
Angola	—	-1	0	0	—	9	173
Ecuador	0	-4	0	-1	0	-104	133
Gabon	—	0	—	0	—	—	—
Indonesia	0	0	0	2	0	8	45
Iran	—	—	—	—	—	—	—
Iraq	—	—	—	0	0	5	407
Kuwait	0	0	0	0	—	1	205
Libya	—	—	—	0	—	4	14
Nigeria	—	-1	0	-1	—	22	231
Qatar	—	0	—	9	—	11	11
Saudi Arabia	0	-1	0	0	0	4	1,109
United Arab Emirates	0	-1	0	-1	0	-13	-2
Venezuela	0	3	6	-2	0	-20	723
Non-OPEC	1	-566	10	-44	-1	-2,485	1,697
Argentina	0	1	0	-1	0	-28	-17
Aruba	—	—	0	—	—	-35	-35
Australia	0	-7	0	0	0	-15	-11
Bahamas	0	—	0	0	0	-31	-36
Bahrain	0	—	—	2	—	2	2
Belgium	0	-5	0	-9	0	30	30
Brazil	0	-31	0	-7	0	-234	-87
Brunei	—	0	—	0	—	0	0
Cameroon	0	—	—	0	—	4	4
Canada	-1	-21	21	3	0	-32	2,897
Chad	—	—	—	0	—	0	67
China	2	-41	0	-2	0	-163	-182
Colombia	0	1	0	-3	0	-97	342
Denmark	0	-3	—	0	—	-5	-3
Dominican Republic	0	-5	-2	-1	0	-75	-76
Equatorial Guinea	—	—	—	0	—	0	7
Estonia	0	—	—	0	—	0	0
Finland	—	—	0	0	—	18	18
France	0	-3	0	-2	0	-51	-58
Germany	0	0	0	-2	0	-1	-1
Guatemala	0	-4	0	-1	—	-90	-83
Honduras	0	-3	0	0	—	-52	-52
India	0	-133	0	-1	0	-52	-52
Italy	0	-16	0	0	0	-8	-29
Japan	0	-56	0	0	0	-205	-213
Korea, South	0	-5	0	10	0	12	0
Latvia	0	—	—	0	0	1	1
Lithuania	0	—	—	0	—	2	2
Malaysia	0	0	0	0	0	-2	3
Mexico	0	-51	-5	-14	-1	-763	-174
Netherlands	0	-10	0	-2	0	-193	-230
Netherlands Antilles	—	—	0	—	—	0	0
Norway	0	-2	0	0	—	16	55
Oman	—	-1	0	0	—	-1	30
Panama	0	-2	-1	-1	0	-111	-114
Portugal	0	-1	—	0	—	16	16
Puerto Rico	0	—	0	0	0	-1	-1
Russia	0	0	0	1	—	404	444
Spain	0	-30	1	1	0	-14	-19
Sweden	0	0	—	0	0	7	7
Trinidad and Tobago	0	0	0	0	0	17	25
United Kingdom	0	-4	0	0	0	24	29
Vietnam	0	0	0	0	0	-1	4
Virgin Islands, U.S.	—	—	0	-2	—	-17	-17
Yemen	—	—	—	0	—	0	0
Other	0	-134	-4	-13	0	-761	-796
Total	1	-570	16	-39	-1	-2,433	4,918
Persian Gulf²	0	-3	0	10	0	9	1,732

— = No Data Reported.

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

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

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

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

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, November 2016
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Crude Oil	14,163	149,382	944,100	23,958	52,121	1,183,724
Refinery	10,494	15,102	48,309	2,770	25,027	101,702
Tank Farms and Pipelines (Includes Cushing, OK)	3,669	134,280	200,707	21,188	24,981	384,825
Cushing, Oklahoma	—	64,564	—	—	—	64,564
Leases ¹	—	—	—	—	—	—
Strategic Petroleum Reserve ²	—	—	695,084	—	—	695,084
Alaskan In Transit	—	—	—	—	2,113	2,113
Total Stocks, All Oils (excluding Crude Oil)³	183,955	179,904	394,739	21,664	89,703	869,965
Refinery	17,846	47,850	124,263	11,055	49,548	250,562
Bulk Terminal	137,249	94,404	214,571	6,614	34,773	487,611
Pipeline	28,598	36,088	51,499	3,880	4,975	125,040
Natural Gas Processing Plant	262	1,562	4,406	115	407	6,752
Pentanes Plus	390	9,354	15,697	307	36	25,784
Refinery	—	212	573	21	1	807
Bulk Terminal	314	1,331	12,826	3	4	14,478
Pipeline	10	7,697	1,985	252	—	9,944
Natural Gas Processing Plant	66	114	313	31	31	555
Liquefied Petroleum Gases	9,024	48,316	141,698	3,675	6,132	208,845
Refinery	779	5,448	9,765	434	1,580	18,006
Bulk Terminal	7,322	33,202	115,404	1,538	4,176	161,642
Pipeline	727	8,218	12,436	1,619	—	23,000
Natural Gas Processing Plant	196	1,448	4,093	84	376	6,197
Ethane/Ethylene	290	5,701	48,766	452	—	55,209
Refinery	—	—	99	—	—	99
Bulk Terminal	143	2,957	42,741	—	—	45,841
Ethylene	—	—	—	—	—	—
Pipeline	147	2,469	4,996	452	—	8,064
Natural Gas Processing Plant	—	275	930	—	—	1,205
Propane/Propylene	7,284	26,746	63,237	1,505	2,137	100,909
Refinery	253	2,281	2,856	38	122	5,550
Bulk Terminal	6,338	19,857	52,946	683	1,961	81,785
Nonfuel Use	—	—	4,633	—	—	4,633
Pipeline	563	3,757	5,444	741	—	10,505
Natural Gas Processing Plant	130	851	1,991	43	54	3,069
Normal Butane/Butylene	1,261	13,814	24,954	1,450	3,535	45,014
Refinery	365	2,555	5,531	285	1,032	9,768
Bulk Terminal	841	9,828	17,428	854	2,215	31,166
Refinery Grade Butane	11	3,584	5,531	376	—	9,502
Pipeline	6	1,270	1,250	279	—	2,805
Natural Gas Processing Plant	49	161	745	32	288	1,275
Isobutane/Isobutylene	189	2,055	4,741	268	460	7,713
Refinery	161	612	1,279	111	426	2,589
Bulk Terminal	—	560	2,289	1	—	2,850
Pipeline	11	722	746	147	—	1,626
Natural Gas Processing Plant	17	161	427	9	34	648
Other Hydrocarbons	—	23	—	—	—	23
Refinery	—	23	—	—	—	23
Oxygenates (excluding Fuel Ethanol)	—	—	1,224	—	—	1,224
Refinery	—	—	88	—	—	88
Bulk Terminal	—	—	1,136	—	—	1,136
Pipeline	—	—	—	—	—	—
MTBE	—	—	819	—	—	819
Refinery	—	—	88	—	—	88
Bulk Terminal ⁴	—	—	731	—	—	731
Pipeline	—	—	—	—	—	—
Other Oxygenates⁵	—	—	405	—	—	405
Refinery	—	—	—	—	—	—
Bulk Terminal	—	—	405	—	—	405
Pipeline	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	8,231	7,630	4,696	369	4,057	24,983
Refinery	193	136	337	122	329	1,117
Bulk Terminal	8,038	7,494	4,359	247	3,728	23,866
Pipeline	—	—	—	—	—	—
Fuel Ethanol³	6,183	6,707	3,147	357	2,742	19,136
Refinery	186	97	183	115	36	617
Bulk Terminal	5,997	6,610	2,964	242	2,706	18,519
Pipeline	—	—	—	—	—	—
Renewable Diesel Fuel	2,048	923	1,546	12	1,284	5,813
Refinery	7	39	154	7	262	469
Bulk Terminal	2,041	884	1,392	5	1,022	5,344
Pipeline	—	—	—	—	—	—
Other Renewable Fuels	—	—	3	—	31	34
Refinery	—	—	—	—	31	31
Bulk Terminal	—	—	3	—	—	3
Pipeline	—	—	—	—	—	—

See footnotes at end of table.

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, November 2016
(Thousand Barrels) — Continued

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Unfinished Oils	4,865	12,979	42,632	2,670	19,687	82,833
Naphthas and Lighter	1,274	3,004	11,767	569	3,225	19,839
Refinery	1,274	2,967	10,023	569	3,081	17,914
Bulk Terminal	—	37	1,744	—	144	1,925
Kerosene and Light Gas Oils	617	2,816	7,053	444	3,602	14,532
Refinery	617	2,755	6,955	444	3,215	13,986
Bulk Terminal	—	61	98	—	387	546
Heavy Gas Oils	2,037	4,716	18,932	1,324	9,785	36,794
Refinery	2,036	4,706	16,618	1,324	9,737	34,421
Bulk Terminal	1	10	2,314	—	48	2,373
Residuum	937	2,443	4,880	333	3,075	11,668
Refinery	937	2,119	4,880	333	3,075	11,344
Bulk Terminal	—	324	—	—	—	324
Motor Gasoline Blending Components³	58,426	42,998	72,632	5,646	27,189	206,891
Refinery	5,970	12,283	28,654	3,253	13,121	63,281
Bulk Terminal	42,270	21,481	28,046	1,555	11,429	104,781
Pipeline	10,186	9,234	15,932	838	2,639	38,829
Reformulated - RBOB	18,926	6,160	11,175	—	13,662	49,923
Refinery	1,975	1,028	1,796	—	5,113	9,912
Bulk Terminal	12,753	3,643	5,336	—	6,783	28,515
Pipeline	4,198	1,489	4,043	—	1,766	11,496
Conventional	39,500	36,838	61,457	5,646	13,527	156,968
Refinery	3,995	11,255	26,858	3,253	8,008	53,369
Bulk Terminal	29,517	17,838	22,710	1,555	4,646	76,266
Pipeline	5,988	7,745	11,889	838	873	27,333
CBOB	25,423	29,297	33,959	3,771	6,905	99,355
Refinery	796	5,168	12,021	1,379	1,966	21,330
Bulk Terminal	18,639	16,700	10,163	1,554	4,069	51,125
Pipeline	5,988	7,429	11,775	838	870	26,900
GTAB	1,365	—	—	—	—	1,365
Refinery	—	—	—	—	—	—
Bulk Terminal	1,365	—	—	—	—	1,365
Pipeline	—	—	—	—	—	—
Other	12,712	7,541	27,498	1,875	6,622	56,248
Refinery	3,199	6,087	14,837	1,874	6,042	32,039
Bulk Terminal	9,513	1,138	12,547	1	577	23,776
Pipeline	—	316	114	—	3	433
Aviation Gasoline Blending Components	—	—	17	—	—	17
Refinery	—	—	17	—	—	17
Bulk Terminal	—	—	—	—	—	—
Finished Motor Gasoline	4,486	7,001	9,898	2,450	2,690	26,525
Refinery	28	1,471	4,176	1,120	1,026	7,821
Bulk Terminal	1,811	2,866	3,176	911	1,558	10,322
Pipeline	2,647	2,664	2,546	419	106	8,382
Reformulated	24	—	—	—	20	44
Refinery	—	—	—	—	20	20
Bulk Terminal	24	—	—	—	—	24
Pipeline	—	—	—	—	—	—
Reformulated (Blended with Fuel Ethanol)	24	—	—	—	20	44
Refinery	—	—	—	—	20	20
Bulk Terminal	24	—	—	—	—	24
Pipeline	—	—	—	—	—	—
Reformulated (Other)	—	—	—	—	—	—
Refinery	—	—	—	—	—	—
Bulk Terminal	—	—	—	—	—	—
Pipeline	—	—	—	—	—	—
Conventional	4,462	7,001	9,898	2,450	2,670	26,481
Refinery	28	1,471	4,176	1,120	1,006	7,801
Bulk Terminal	1,787	2,866	3,176	911	1,558	10,298
Pipeline	2,647	2,664	2,546	419	106	8,382
Conventional (Blended with Fuel Ethanol)	64	127	—	66	—	257
Refinery	—	—	—	63	—	63
Bulk Terminal	64	127	—	3	—	194
Pipeline	—	—	—	—	—	—
Ed55 and Lower	64	127	—	66	—	257
Refinery	—	—	—	63	—	63
Bulk Terminal	64	127	—	3	—	194
Pipeline	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—
Refinery	—	—	—	—	—	—
Bulk Terminal	—	—	—	—	—	—
Pipeline	—	—	—	—	—	—
Conventional (Other)	4,398	6,874	9,898	2,384	2,670	26,224
Refinery	28	1,471	4,176	1,057	1,006	7,738
Bulk Terminal	1,723	2,739	3,176	908	1,558	10,104
Pipeline	2,647	2,664	2,546	419	106	8,382

See footnotes at end of table.

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, November 2016
(Thousand Barrels) — Continued

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Finished Aviation Gasoline	125	140	365	8	286	924
Refinery	—	55	309	8	202	574
Bulk Terminal	125	85	56	—	84	350
Pipeline	—	—	—	—	—	—
Kerosene-Type Jet Fuel	12,761	7,178	15,064	762	8,999	44,764
Refinery	603	1,855	5,901	305	3,787	12,451
Bulk Terminal	6,153	3,288	4,707	367	4,267	18,782
Pipeline	6,005	2,035	4,456	90	945	13,531
Kerosene	1,833	126	265	1	46	2,271
Refinery	98	108	100	1	4	311
Bulk Terminal	1,712	18	153	—	42	1,925
Pipeline	23	—	12	—	—	35
Distillate Fuel Oil⁵	67,516	31,232	44,144	4,250	13,031	160,173
Refinery	2,698	6,912	16,171	2,121	5,584	33,486
Bulk Terminal	55,818	18,080	13,851	1,467	6,168	95,384
Pipeline	9,000	6,240	14,122	662	1,279	31,303
15 ppm sulfur and Under	53,382	30,072	37,294	4,012	11,991	136,751
Refinery	1,779	5,989	13,870	1,911	4,865	28,414
Bulk Terminal	43,809	17,962	10,783	1,441	5,953	79,948
Pipeline	7,794	6,121	12,641	660	1,173	28,389
Greater than 15 ppm to 500 ppm sulfur	6,900	394	1,608	196	187	9,285
Refinery	135	169	764	168	158	1,394
Bulk Terminal	6,715	111	624	26	29	7,505
Pipeline	50	114	220	2	—	386
Greater than 500 ppm sulfur	7,234	766	5,242	42	853	14,137
Refinery	784	754	1,537	42	561	3,678
Bulk Terminal	5,294	7	2,444	—	186	7,931
Pipeline	1,156	5	1,261	—	106	2,528
Residual Fuel Oil⁶	10,572	1,328	24,585	227	3,851	40,563
Refinery	578	1,110	3,978	227	2,264	8,157
Bulk Terminal	9,994	218	20,607	—	1,581	32,400
Pipeline	—	—	—	—	6	6
Less than 0.31% Sulfur	904	25	2,166	35	231	3,361
Refinery	159	19	233	35	—	446
Bulk Terminal	745	6	1,933	—	231	2,915
0.31% to 1.00% Sulfur	2,729	251	5,507	4	449	8,940
Refinery	58	149	215	4	385	811
Bulk Terminal	2,671	102	5,292	—	64	8,129
Greater than 1.00% Percent Sulfur	6,939	1,052	16,912	188	3,165	28,256
Refinery	361	942	3,530	188	1,879	6,900
Bulk Terminal	6,578	110	13,382	—	1,286	21,356
Petrochemical Feedstocks	217	625	2,489	—	3	3,334
Refinery	217	625	2,489	—	3	3,334
Naphtha for Petrochemical Feedstock Use	217	487	1,356	—	3	2,063
Other Oils for Petrochemical Feedstock Use	—	138	1,133	—	—	1,271
Special Naphthas	23	156	1,099	—	44	1,322
Refinery	10	85	891	—	44	1,030
Bulk Terminal	13	71	208	—	—	292
Lubricants	1,288	740	9,635	—	825	12,488
Refinery	707	273	6,222	—	552	7,754
Bulk Terminal	581	467	3,413	—	273	4,734
Waxes	333	55	246	—	—	634
Refinery	333	55	246	—	—	634
Petroleum Coke	—	897	3,322	181	1,157	5,557
Refinery	—	897	3,322	181	1,157	5,557
Asphalt and Road Oil	3,828	9,016	4,464	1,099	1,588	19,995
Refinery	731	3,645	2,117	573	704	7,770
Bulk Terminal	3,097	5,371	2,347	526	884	12,225
Miscellaneous Products	37	110	567	19	82	815
Refinery	37	110	431	19	82	679
Bulk Terminal	—	—	126	—	—	126
Pipeline	—	—	10	—	—	10
Total Stocks, All Oils	198,118	329,286	1,338,839	45,622	141,824	2,053,689

— = No Data Reported.

¹ Lease stocks were excluded from crude oil stocks beginning with data for July 2016 (see explanatory notes).

² Crude oil stocks in the Strategic Petroleum Reserve include non-U.S. stocks held under foreign or commercial storage agreements.

³ 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.

⁴ Includes stocks held by merchant producers.

⁵ 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).

⁶ Sulfur content not available for stocks held by pipelines.

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

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

Table 56. Refinery, Bulk Terminal, and Natural Gas Plant Stocks of Selected Petroleum Products by PAD District and State, November 2016
(Thousand Barrels)

Commodity	Motor Gasoline			Motor Gasoline Blending Components ¹			Kerosene
	Reformulated	Conventional	Total	Reformulated	Conventional	Total	
PAD District 1	24	1,815	1,839	14,728	33,512	48,240	1,810
Connecticut	—	—	—	1,272	—	1,272	53
Delaware	—	—	—	970	503	1,473	81
District of Columbia	—	—	—	—	—	—	—
Florida	—	854	854	—	6,417	6,417	—
Georgia	—	223	223	—	2,758	2,758	—
Maine	—	—	—	456	329	785	183
Maryland	—	—	—	998	83	1,081	91
Massachusetts	4	—	4	1,439	25	1,464	21
New Hampshire	—	—	—	—	—	—	21
New Jersey	—	116	116	5,223	11,381	16,604	21
New York	20	—	20	894	2,256	3,150	702
North Carolina	—	165	165	—	2,045	2,045	398
Pennsylvania	—	14	14	1,243	4,611	5,854	150
Rhode Island	—	—	—	758	—	758	—
South Carolina	—	228	228	—	1,390	1,390	30
Vermont	—	64	64	—	—	—	5
Virginia	—	123	123	1,475	1,566	3,041	54
West Virginia	—	28	28	—	148	148	—
PAD District 2	—	4,337	4,337	4,671	29,093	33,764	126
Illinois	—	418	418	2,261	4,560	6,821	101
Indiana	—	306	306	939	3,639	4,578	—
Iowa	—	177	177	—	1,368	1,368	—
Kansas	—	364	364	—	2,621	2,621	15
Kentucky	—	264	264	473	1,084	1,557	5
Michigan	—	195	195	70	2,611	2,681	—
Minnesota	—	392	392	94	2,020	2,114	—
Missouri	—	184	184	278	625	903	—
Nebraska	—	122	122	—	647	647	—
North Dakota	—	224	224	—	632	632	—
Ohio	—	816	816	14	3,328	3,342	—
Oklahoma	—	511	511	20	2,408	2,428	5
South Dakota	—	71	71	—	423	423	—
Tennessee	—	135	135	—	1,801	1,801	—
Wisconsin	—	158	158	522	1,326	1,848	—
PAD District 3	—	7,352	7,352	7,132	49,568	56,700	253
Alabama	—	148	148	—	1,196	1,196	4
Arkansas	—	159	159	—	937	937	—
Louisiana	—	1,339	1,339	462	12,022	12,484	48
Mississippi	—	1,012	1,012	185	1,773	1,958	—
New Mexico	—	96	96	—	614	614	—
Texas	—	4,598	4,598	6,485	33,026	39,511	201
PAD District 4	—	2,031	2,031	—	4,808	4,808	1
Colorado	—	586	586	—	1,065	1,065	—
Idaho	—	332	332	—	93	93	—
Montana	—	548	548	—	1,483	1,483	—
Utah	—	141	141	—	1,345	1,345	1
Wyoming	—	424	424	—	822	822	—
PAD District 5	20	2,564	2,584	11,896	12,654	24,550	46
Alaska	—	767	767	—	—	—	42
Arizona	—	89	89	793	416	1,209	—
California	20	586	606	10,810	5,913	16,723	4
Hawaii	—	1	1	—	953	953	—
Nevada	—	167	167	20	406	426	—
Oregon	—	81	81	—	1,386	1,386	—
Washington	—	873	873	273	3,580	3,853	—
U.S. Total	44	18,099	18,143	38,427	129,635	168,062	2,236

See footnotes at end of table.

Table 56. Refinery, Bulk Terminal, and Natural Gas Plant Stocks of Selected Petroleum Products by PAD District and State, November 2016
(Thousand Barrels) — Continued

Commodity	Distillate Fuel Oil ¹				Residual Fuel Oil	Propane/ Propylene
	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	Greater than 500 ppm	Total		
PAD District 1	45,588	6,850	6,078	58,516	10,572	6,721
Connecticut	2,905	2,725	103	5,733	32	—
Delaware	463	28	72	563	905	11
District of Columbia	—	—	—	—	—	—
Florida	2,113	12	—	2,125	1,609	614
Georgia	1,285	—	—	1,285	245	12
Maine	1,220	3	1,066	2,289	147	—
Maryland	3,989	256	—	4,245	888	3
Massachusetts	844	954	615	2,413	193	—
New Hampshire	389	—	413	802	44	575
New Jersey	16,414	550	1,172	18,136	3,313	226
New York	6,541	955	818	8,314	1,713	1,853
North Carolina	1,279	—	18	1,297	—	430
Pennsylvania	4,359	284	1,131	5,774	601	1,817
Rhode Island	770	873	82	1,725	62	—
South Carolina	753	—	—	753	363	1,091
Vermont	59	—	37	96	—	—
Virginia	2,094	189	551	2,834	457	4
West Virginia	111	21	—	132	—	85
PAD District 2	23,951	280	761	24,992	1,328	22,989
Illinois	3,353	—	—	3,353	480	1,211
Indiana	3,016	—	170	3,186	93	350
Iowa	2,039	—	—	2,039	2	537
Kansas	2,758	—	—	2,758	28	12,364
Kentucky	959	—	3	962	201	417
Michigan	1,228	86	—	1,314	71	6,303
Minnesota	1,689	6	466	2,161	86	306
Missouri	723	19	3	745	88	206
Nebraska	879	—	—	879	—	367
North Dakota	1,104	1	—	1,105	45	64
Ohio	1,878	—	47	1,925	97	778
Oklahoma	1,495	69	42	1,606	21	38
South Dakota	635	—	—	635	—	7
Tennessee	811	—	—	811	85	4
Wisconsin	1,384	99	30	1,513	31	37
PAD District 3	24,653	1,388	3,981	30,022	24,585	57,793
Alabama	1,690	16	24	1,730	324	24
Arkansas	820	—	52	872	—	65
Louisiana	5,157	857	1,593	7,607	11,487	4,671
Mississippi	1,066	381	138	1,585	75	7,149
New Mexico	301	—	—	301	46	17
Texas	15,619	134	2,174	17,927	12,653	45,867
PAD District 4	3,352	194	42	3,588	227	764
Colorado	689	—	—	689	4	16
Idaho	180	—	—	180	—	—
Montana	1,224	69	—	1,293	72	16
Utah	575	81	42	698	54	699
Wyoming	684	44	—	728	97	33
PAD District 5	10,818	187	747	11,752	3,845	2,137
Alaska	1,033	—	104	1,137	108	5
Arizona	476	3	—	479	—	1,372
California	5,763	184	266	6,213	2,403	595
Hawaii	234	—	374	608	708	66
Nevada	405	—	3	408	—	—
Oregon	713	—	—	713	7	—
Washington	2,194	—	—	2,194	619	99
U.S. Total	108,362	8,899	11,609	128,870	40,557	90,404

— = No Data Reported.

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

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

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

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

Table 57. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, November 2016
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	183	73	0	3,223	31,763	8,205	3,944	1,377	27,258
Petroleum Products	12,833	680	0	14,138	31,829	6,937	4,286	90,418	17,497
Pentanes Plus	10	0	—	0	1,344	302	—	0	4,939
Liquefied Petroleum Gases	4,865	671	0	2,362	18,881	3,487	483	1,781	2,480
Unfinished Oils	55	0	—	0	1,076	—	—	0	108
Motor Gasoline Blending Components	5,406	0	0	1,740	2,105	1,136	0	43,506	5,372
Reformulated - RBOB	30	0	0	0	592	—	0	6,185	2,055
Conventional	5,376	0	0	1,740	1,513	1,136	0	37,321	3,317
CBOB	5,376	0	0	1,687	1,184	1,136	0	37,321	2,730
GTAB	—	—	—	—	—	—	—	—	—
Other	0	0	—	53	329	—	—	0	587
Renewable Fuels	0	0	0	8,661	6,475	—	0	175	5
Fuel Ethanol	0	0	0	8,620	6,390	402	3,771	175	0
Renewable Diesel Fuel ²	0	0	0	41	84	16	32	0	5
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	112	0	0	273	256	226	0	7,230	1,000
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	112	0	0	273	256	226	0	7,230	1,000
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	112	0	0	273	256	226	0	7,230	1,000
Finished Aviation Gasoline	0	0	—	0	0	—	—	839	61
Kerosene-Type Jet Fuel	203	0	0	126	18	862	0	13,426	1,081
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	2,182	0	0	863	903	506	0	22,684	2,093
15 ppm sulfur and under	2,182	0	0	863	903	506	0	20,535	1,956
Greater than 15 ppm to 500 ppm sulfur	0	0	—	0	0	—	—	191	92
Greater than 500 ppm sulfur	0	0	—	0	0	—	—	1,958	45
Residual Fuel Oil	0	0	—	—	552	—	—	—	0
Petrochemical Feedstocks	0	0	—	—	167	—	—	—	0
Naphtha for Petrochemical Feedstock Use	0	0	—	—	121	—	—	—	0
Other Oils for Petrochemical Feedstock Use	0	0	—	—	46	—	—	—	0
Special Naphthas	0	0	—	—	0	—	—	—	34
Lubricants	0	9	0	0	0	—	0	548	245
Waxes	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	0	0	—	113	52	—	—	229	69
Miscellaneous Products	0	0	—	—	0	—	—	—	10
Total	13,016	753	0	17,361	63,592	15,142	8,230	91,795	44,755

See footnotes at end of table.

Table 57. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, November 2016
(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	0	0	18,106	904	0	0	0	0
Petroleum Products	0	4,802	0	7,331	7,109	2,122	0	4	0
Pentanes Plus	0	—	0	684	1,000	—	0	0	0
Liquefied Petroleum Gases	0	108	0	5,857	6,109	255	0	0	0
Unfinished Oils	—	—	0	0	0	—	0	0	—
Motor Gasoline Blending Components	0	3,811	0	178	0	1,158	0	0	0
Reformulated - RBOB	—	2,351	0	0	0	0	0	0	—
Conventional	0	1,460	0	178	0	1,158	0	0	0
CBOB	0	1,460	0	178	0	1,158	0	0	0
GTAB	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	0	—	0	0	—
Renewable Fuels	—	656	0	0	0	0	0	0	—
Fuel Ethanol	0	490	0	0	0	0	0	0	0
Renewable Diesel Fuel ²	0	165	0	0	0	0	0	0	0
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	310	0	331	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	310	0	331	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	310	0	331	0	0	0
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	—
Kerosene-Type Jet Fuel	0	227	0	24	0	8	0	0	0
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	0	0	0	278	0	370	0	0	0
15 ppm sulfur and under	0	0	0	278	0	370	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	0	0	0	—	0	0	—
Greater than 500 ppm sulfur	—	—	0	0	0	—	0	0	—
Residual Fuel Oil	—	—	—	0	0	—	—	0	—
Petrochemical Feedstocks	—	—	—	0	0	—	—	0	—
Naphtha for Petrochemical Feedstock Use	—	—	—	0	0	—	—	0	—
Other Oils for Petrochemical Feedstock Use	—	—	—	0	0	—	—	0	—
Special Naphthas	—	—	—	0	0	—	—	0	—
Lubricants	—	0	0	0	0	0	0	4	—
Waxes	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	—	—	0	0	0	—	0	0	—
Miscellaneous Products	—	—	—	0	0	—	—	0	—
Total	0	4,802	0	25,437	8,013	2,122	0	4	0

— = No Data Reported.

¹ Movements of crude oil, fuel ethanol and biodiesel include movements by rail. Movements of other products are by pipeline, tanker and barge only.

² Renewable diesel fuel includes biodiesel and other renewable diesel.

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

Table 58. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, November 2016
(Thousand Barrels)

Commodity	From 1 to		From 2 to			From 3 to			
	2	3	1	3	4	1	2	4	5
Crude Oil	79	73	243	30,014	8,205	188	27,208	0	-
Petroleum Products	12,474	0	2,727	21,550	6,519	71,104	16,077	0	4,038
Pentanes Plus	10	0	0	1,344	302	0	4,939	0	-
Liquefied Petroleum Gases	4,561	0	875	17,401	3,487	1,489	2,242	0	-
Motor Gasoline Blending Components	5,406	0	983	1,776	1,136	34,353	5,044	0	3,811
Reformulated - RBOB	30	0	0	592	-	6,016	2,055	-	2,351
Conventional	5,376	0	983	1,184	1,136	28,337	2,989	0	1,460
CBOB	5,376	0	983	1,184	1,136	28,337	2,625	0	1,460
GTAB	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	-	-	364	-	-
Renewable Fuels	-	-	-	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-	-	-	-
Renewable Diesel Fuel ¹	-	-	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	112	0	226	157	226	3,448	820	0	0
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	112	0	226	157	226	3,448	820	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	112	0	226	157	226	3,448	820	0	0
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	203	0	126	18	862	12,240	1,081	0	227
Kerosene	-	-	-	-	-	-	-	-	-
Distillate Fuel Oil	2,182	0	517	854	506	19,574	1,951	0	0
15 ppm sulfur and under	2,182	0	517	854	506	17,425	1,859	0	0
Greater than 15 ppm to 500 ppm sulfur	0	0	0	0	-	191	92	-	-
Greater than 500 ppm sulfur	-	0	0	0	-	1,958	-	-	-
Residual Fuel Oil	-	-	-	-	-	-	-	-	-
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total	12,553	73	2,970	51,564	14,724	71,292	43,285	0	4,038

See footnotes at end of table.

Table 58. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, November 2016
(Thousand Barrels) — Continued

Commodity	From 4 to				From 5 to	
	1	2	3	5	3	4
Crude Oil	0	18,106	345	—	0	0
Petroleum Products	0	7,331	7,109	1,867	0	0
Pentanes Plus	0	684	1,000	—	0	0
Liquefied Petroleum Gases	0	5,857	6,109	—	0	0
Motor Gasoline Blending Components	0	178	0	1,158	0	0
Reformulated - RBOB	0	0	0	0	0	—
Conventional	0	178	0	1,158	0	0
CBOB	0	178	0	1,158	0	0
GTAB	—	—	—	—	—	—
Other	—	0	0	—	0	—
Renewable Fuels	—	—	—	—	—	—
Fuel Ethanol	—	—	—	—	—	—
Renewable Diesel Fuel ¹	—	—	—	—	—	—
Other Renewable Fuels	—	—	—	—	—	—
Finished Motor Gasoline	0	310	0	331	0	0
Reformulated	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—
Conventional	0	310	0	331	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—
Conventional Other	0	310	0	331	0	0
Finished Aviation Gasoline	—	—	—	—	—	—
Kerosene-Type Jet Fuel	0	24	0	8	0	0
Kerosene	—	—	—	—	—	—
Distillate Fuel Oil	0	278	0	370	0	0
15 ppm sulfur and under	0	278	0	370	0	0
Greater than 15 ppm to 500 ppm sulfur	0	0	0	—	0	—
Greater than 500 ppm sulfur	0	—	0	—	0	—
Residual Fuel Oil	—	—	—	—	—	—
Miscellaneous Products	—	—	—	—	—	—
Total	0	25,437	7,454	1,867	0	0

— = No Data Reported.

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

¹ Renewable diesel fuel includes biodiesel and other renewable diesel.

Table 59. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, November 2016
(Thousand Barrels)

Commodity	From 1 to			From 2 to		
	2	3	5	1	3	5
Crude Oil	104	0	—	324	321	—
Petroleum Products	55	9	0	1,263	3,112	0
Liquefied Petroleum Gases	—	0	—	0	0	—
Unfinished Oils	55	0	—	0	1,076	—
Motor Gasoline Blending Components	0	0	—	757	329	—
Reformulated - RBOB	—	0	—	0	0	—
Conventional	0	0	—	757	329	—
CBOB	0	0	—	704	0	—
GTAB	—	—	—	—	—	—
Other	0	0	—	53	329	—
Renewable Fuels	0	0	—	0	788	—
Fuel Ethanol	0	0	—	0	768	—
Renewable Diesel Fuel ¹	0	0	0	—	20	0
Other Renewable Fuels	—	—	—	—	—	—
Finished Motor Gasoline	0	0	—	47	99	—
Reformulated	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—
Conventional	0	0	—	47	99	—
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—
Conventional Other	0	0	—	47	99	—
Finished Aviation Gasoline	0	0	—	0	0	—
Kerosene-Type Jet Fuel	—	0	—	0	0	—
Kerosene	—	—	—	—	—	—
Distillate Fuel Oil	0	0	—	346	49	—
15 ppm sulfur and under	0	0	—	346	49	—
Greater than 15 ppm to 500 ppm sulfur	—	—	—	—	—	—
Greater than 500 ppm sulfur	0	0	—	—	0	—
Residual Fuel Oil	0	0	—	—	552	—
Less than 0.31 percent sulfur	—	—	—	—	—	—
0.31 to 1.00 percent sulfur	0	0	—	—	40	—
Greater than 1.00 percent sulfur	0	0	—	—	512	—
Petrochemical Feedstocks	0	0	—	—	167	—
Naphtha for Petrochemical Feedstock Use	0	0	—	—	121	—
Other Oils for Petrochemical Feedstock Use	0	0	—	—	46	—
Special Naphthas	0	0	—	—	0	—
Lubricants	0	9	0	0	0	0
Waxes	—	—	—	—	—	—
Asphalt and Road Oil	0	0	—	113	52	—
Miscellaneous Products	0	0	—	—	0	—
Total	159	9	0	1,587	3,433	0

See footnotes at end of table.

Table 59. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, November 2016
(Thousand Barrels) — Continued

Commodity	From 3 to						From 5 to		
	1	New England	Central Atlantic	Lower Atlantic	2	5	1	2	3
Crude Oil	1,189	—	1,189	—	50	—	0	0	0
Petroleum Products	19,051	—	904	18,147	1,177	127	0	0	4
Liquefied Petroleum Gases	29	—	—	29	—	—	0	—	0
Unfinished Oils	0	—	—	—	108	—	0	0	0
Motor Gasoline Blending Components	9,153	—	373	8,780	328	—	0	0	0
Reformulated - RBOB	169	—	169	—	—	—	0	—	0
Conventional	8,984	—	204	8,780	328	—	0	0	0
CBOB	8,984	—	204	8,780	105	—	0	0	0
GTAB	—	—	—	—	—	—	—	—	—
Other	0	—	—	—	223	—	0	0	0
Renewable Fuels	175	—	—	175	0	—	0	0	0
Fuel Ethanol	175	—	—	175	0	—	0	0	0
Renewable Diesel Fuel ¹	—	—	—	—	0	127	—	0	0
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	3,782	—	316	3,466	180	—	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	3,782	—	316	3,466	180	—	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	3,782	—	316	3,466	180	—	0	0	0
Finished Aviation Gasoline	839	—	—	839	61	—	0	0	0
Kerosene-Type Jet Fuel	1,186	—	—	1,186	—	—	0	—	0
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	3,110	—	—	3,110	142	—	0	0	0
15 ppm sulfur and under	3,110	—	—	3,110	97	—	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	—	—	—	—	—	—	—
Greater than 500 ppm sulfur	—	—	—	—	45	—	—	0	0
Residual Fuel Oil	—	—	—	—	0	—	—	0	0
Less than 0.31 percent sulfur	—	—	—	—	—	—	—	—	—
0.31 to 1.00 percent sulfur	—	—	—	—	0	—	—	0	0
Greater than 1.00 percent sulfur	—	—	—	—	0	—	—	0	0
Petrochemical Feedstocks	—	—	—	—	0	—	—	0	0
Naphtha for Petrochemical Feedstock Use	—	—	—	—	0	—	—	0	0
Other Oils for Petrochemical Feedstock Use	—	—	—	—	0	—	—	0	0
Special Naphthas	—	—	—	—	34	—	—	0	0
Lubricants	548	—	215	333	245	0	0	0	4
Waxes	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	229	—	—	229	69	—	0	0	0
Miscellaneous Products	—	—	—	—	10	—	—	0	0
Total	20,240	—	2,093	18,147	1,227	127	0	0	4

— = No Data Reported.

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

¹ Renewable diesel fuel includes biodiesel and other renewable diesel.

Table 60. Movements of Crude Oil and Selected Products by Rail Between PAD Districts, November 2016
(Thousand Barrels)

Commodity	From 1 to				From 2 to			
	2	3	4	5	1	3	4	5
Crude Oil	0	0	0	0	2,656	1,428	0	3,944
Propane	134	493	0	0	647	684	0	185
Propylene	0	0	–	–	251	717	–	–
Normal Butane	29	128	0	0	443	23	0	192
Isobutane	141	50	0	0	146	56	0	106
Fuel Ethanol	0	0	0	0	8,620	5,622	402	3,771
Biodiesel	0	0	0	0	41	64	16	32

Commodity	From 3 to				From 4 to			
	1	2	4	5	1	2	3	5
Crude Oil	0	0	0	0	0	0	559	0
Propane	153	52	0	0	0	0	0	109
Propylene	0	0	–	–	0	0	0	–
Normal Butane	87	87	0	99	0	0	0	136
Isobutane	23	99	0	9	0	0	0	10
Fuel Ethanol	0	0	0	490	0	0	0	0
Biodiesel	0	5	0	38	0	0	0	0

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

– = No Data Reported.

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

Table 61. Movements of Crude Oil by Pipeline, Tanker, Barge and Rail between PAD Districts, November 2016
(Thousand Barrels)

PADD	Pipeline	Tanker and Barge	Rail	Total
From 1 to				
2	79	104	0	183
3	73	0	0	73
4	0	—	0	0
5	—	—	0	0
From 2 to				
1	243	324	2,656	3,223
3	30,014	321	1,428	31,763
4	8,205	—	0	8,205
5	—	—	3,944	3,944
From 3 to				
1	188	1,189	0	1,377
2	27,208	50	0	27,258
4	0	—	0	0
5	—	—	0	0
From 4 to				
1	0	0	0	0
2	18,106	0	0	18,106
3	345	0	559	904
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 Between PAD Districts, November 2016
(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	4,600	256	4,344	45,547	47,136	-1,589	32,740	28,635	4,105
Petroleum Products	104,556	13,513	91,043	37,661	57,189	-19,528	39,622	112,717	-73,095
Pentanes Plus	0	10	-10	5,633	1,646	3,987	2,344	4,939	-2,595
Liquefied Petroleum Gases	4,143	5,536	-1,393	13,202	25,213	-12,011	25,661	4,369	21,292
Ethane/Ethylene	45	4,498	-4,453	6,361	9,294	-2,933	10,335	255	10,080
Propane/Propylene	3,399	672	2,727	3,704	11,925	-8,221	11,475	2,484	8,991
Normal Butane/Butylene	530	162	368	1,692	2,611	-919	2,358	786	1,572
Isobutane/Isobutylene	169	204	-35	1,445	1,383	62	1,493	844	649
Unfinished Oils	0	55	-55	163	1,076	-913	1,076	108	968
Motor Gasoline Blending Components	45,246	5,406	39,840	10,956	4,981	5,975	2,105	52,689	-50,584
Reformulated - RBOB	6,185	30	6,155	2,085	592	1,493	592	10,591	-9,999
Conventional	39,061	5,376	33,685	8,871	4,389	4,482	1,513	42,098	-40,585
CBOB	39,008	5,376	33,632	8,284	4,007	4,277	1,184	41,511	-40,327
GTAB	0	0	-	-	-	-	-	-	-
Other	53	0	53	587	382	205	329	587	-258
Renewable Fuels	8,836	0	8,836	5	19,356	-19,351	6,475	836	5,639
Fuel Ethanol	8,795	0	8,795	0	19,183	-19,183	6,390	665	5,725
Renewable Diesel Fuel ¹	41	0	41	5	174	-168	84	171	-86
Other Renewable Fuels	-	-	-	-	-	-	0	0	-
Finished Motor Gasoline	7,503	112	7,391	1,422	755	667	256	8,230	-7,974
Reformulated	0	0	-	0	0	-	0	0	-
Reformulated Blended with Fuel Ethanol	0	0	-	0	0	-	0	0	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	7,503	112	7,391	1,422	755	667	256	8,230	-7,974
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	7,503	112	7,391	1,422	755	667	256	8,230	-7,974
Finished Aviation Gasoline	839	0	839	61	0	61	0	900	-900
Kerosene-Type Jet Fuel	13,552	203	13,349	1,308	1,006	302	18	14,734	-14,716
Kerosene	0	0	-	0	0	-	0	0	-
Distillate Fuel Oil	23,547	2,182	21,365	4,553	2,272	2,281	903	24,777	-23,874
15 ppm sulfur and under	21,398	2,182	19,216	4,416	2,272	2,144	903	22,491	-21,588
Greater than 15 ppm to 500 ppm sulfur	191	0	191	92	0	92	0	283	-283
Greater than 500 ppm sulfur	1,958	0	1,958	45	0	45	0	2,003	-2,003
Residual Fuel Oil	0	0	-	0	552	-552	552	0	552
Petrochemical Feedstocks	0	0	-	0	167	-167	167	0	167
Naphtha for Petrochemical Feedstock Use	0	0	-	0	121	-121	121	0	121
Other Oils for Petrochemical Feedstock Use	-	-	-	0	46	-46	46	0	46
Special Naphthas	0	0	-	34	0	34	0	34	-34
Lubricants	548	9	539	245	0	245	13	793	-780
Waxes	0	0	-	0	0	-	0	0	-
Asphalt and Road Oil	342	0	342	69	165	-96	52	298	-246
Miscellaneous Products	0	0	-	10	0	10	0	10	-10
Total	109,156	13,769	95,387	83,208	104,325	-21,116	72,361	141,352	-68,991

See footnotes at end of table.

Table 62. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge and Rail Between PAD Districts, November 2016
(Thousand Barrels) — Continued

Commodity	PAD District 4			PAD District 5		
	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts
Crude Oil	8,205	19,010	-10,805	3,944	0	3,944
Petroleum Products	6,937	16,562	-9,625	11,210	4	11,206
Pentanes Plus	302	1,684	-1,382	0	0	—
Liquefied Petroleum Gases	3,487	12,221	-8,734	846	0	846
Ethane/Ethylene	985	3,679	-2,694	0	0	—
Propane/Propylene	1,620	5,411	-3,791	294	0	294
Normal Butane/Butylene	650	2,098	-1,448	427	0	427
Isobutane/Isobutylene	232	1,033	-801	125	0	125
Unfinished Oils	0	0	—	0	0	—
Motor Gasoline Blending Components	1,136	1,336	-200	4,969	0	4,969
Reformulated - RBOB	—	—	—	2,351	0	2,351
Conventional	1,136	1,336	-200	2,618	0	2,618
CBOB	1,136	1,336	-200	2,618	0	2,618
GTAB	—	—	—	—	—	—
Other	0	0	—	0	0	—
Renewable Fuels	418	0	418	4,459	0	4,459
Fuel Ethanol	402	0	402	4,261	0	4,261
Renewable Diesel Fuel ¹	16	0	16	198	0	198
Other Renewable Fuels	—	—	—	0	0	—
Finished Motor Gasoline	226	641	-415	331	0	331
Reformulated	—	—	—	0	0	—
Reformulated Blended with Fuel Ethanol	—	—	—	0	0	—
Reformulated Other	—	—	—	—	—	—
Conventional	226	641	-415	331	0	331
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	226	641	-415	331	0	331
Finished Aviation Gasoline	0	0	—	0	0	—
Kerosene-Type Jet Fuel	862	32	830	235	0	235
Kerosene	0	0	—	0	0	—
Distillate Fuel Oil	506	648	-142	370	0	370
15 ppm sulfur and under	506	648	-142	370	0	370
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	4	-4
Waxes	0	0	—	0	0	—
Asphalt and Road Oil	0	0	—	0	0	—
Miscellaneous Products	0	0	—	0	0	—
Total	15,142	35,572	-20,430	15,154	4	15,150

— = No Data Reported.

Movements of crude oil, fuel ethanol and biodiesel include movements by rail. Movements of other products are by pipeline, tanker and barge only.

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," 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.

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.

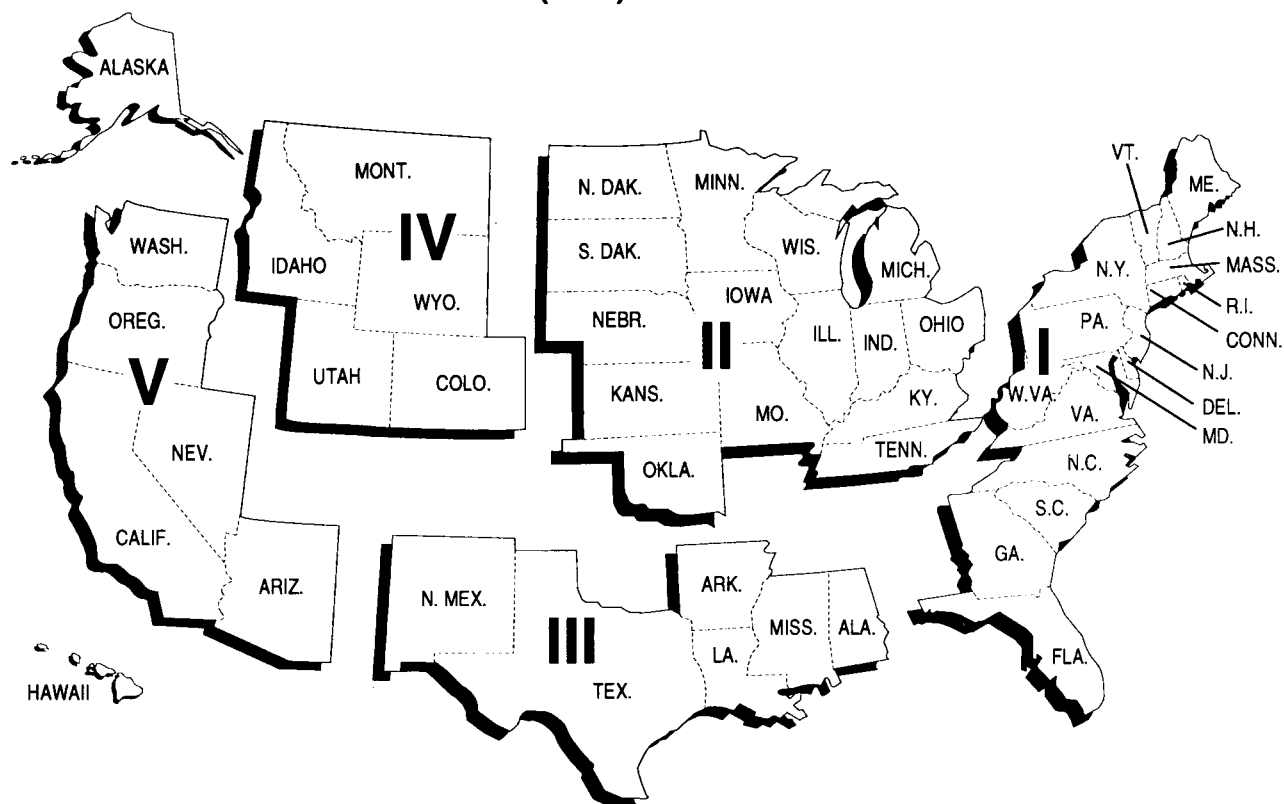
PAD District IV

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

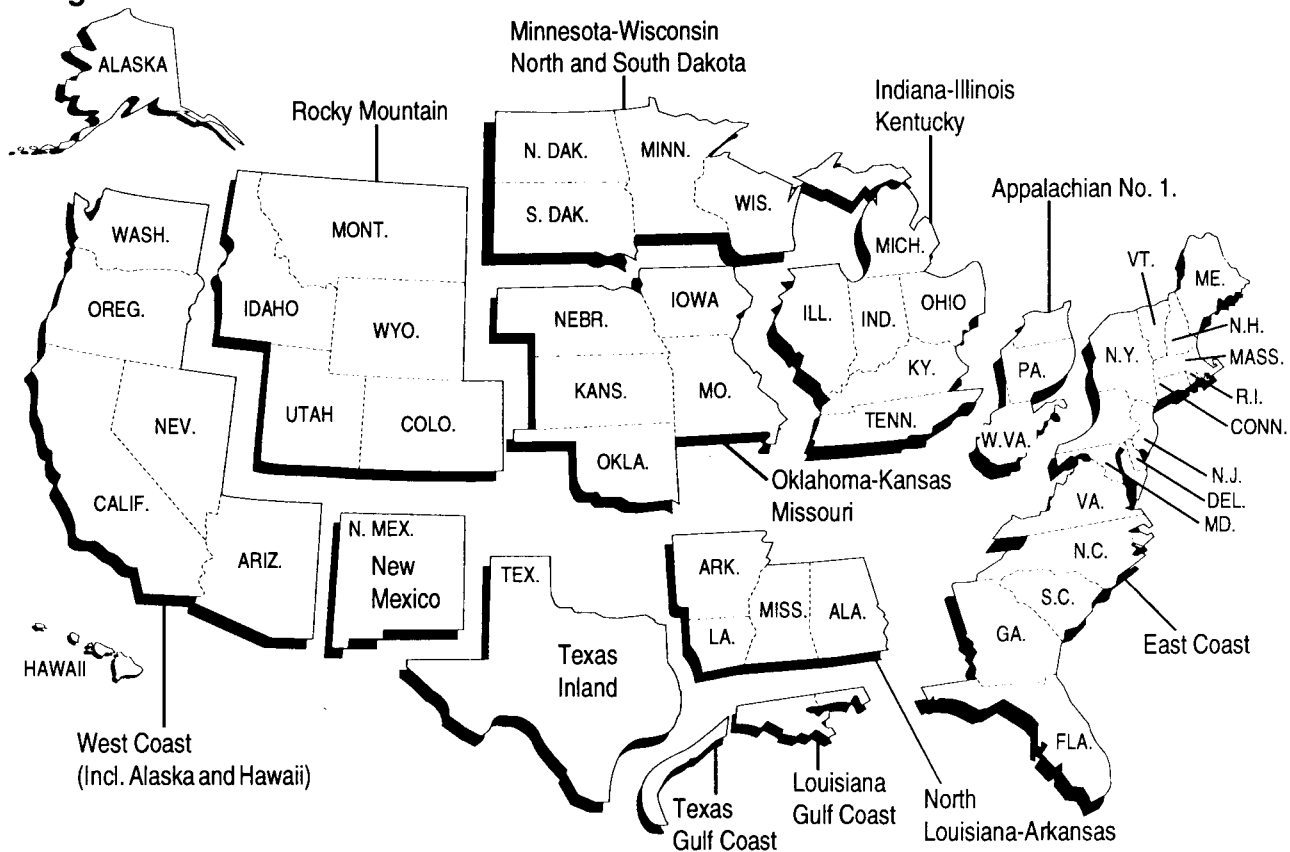
PAD District V

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_mbbbl_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_mbbbl_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, 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.

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
BP Products North America	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, reformat, 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 (C_4H_{10}). 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 (C_4H_{10}). 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 (C_4H_{10}). 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 (C_4H_8). 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 (C_4H_{10}). 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 (C_4H_8). An olefinic hydrocarbon recovered from refinery processes or petrochemical processes.

Isohexane (C_6H_{14}). 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 (C_4), an alkylation process feedstock, and normal pentane and hexane into isopentane (C_5) and isohexane (C_6), 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 (CH_3OH). A light, volatile alcohol intended for gasoline blending as described in Oxygenate definition.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Normal Butane. See *Butane*.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Propane (C_3H_8). 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 (C_3H_6). An olefinic hydrocarbon recovered from refinery processes or petrochemical processes.

Propylene (C_3H_6) (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.