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Petroleum Supply Monthly

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Preface

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

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

Scope of data

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

Sections

- U.S. supply and disposition of crude oil, petroleum products, and biofuels
- Regional supply and disposition of crude oil, petroleum products, and biofuels
- Crude oil supply and disposition and production by state
- Natural Gas Processing
- Refinery Operations
- Imports of residual fuel oil by state of entry
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Table 1. U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, March 2023
(Thousand Barrels)

Commodity	Supply					Disposition				Ending Stocks
	Field Production	Biofuels 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]	**393,561**	**– –**	**– –**	**195,160**	**32,165**	**-7,324**	**479,178**	**149,032**	**0**	**836,612**
Hydrocarbon Gas Liquids	**192,553**	**-717**	**19,636**	**6,301**	**– –**	**-425**	**18,924**	**88,056**	**111,217**	**174,297**
Natural Gas Liquids	192,553	-717	12,185	5,701	– –	-363	18,924	88,056	103,104	172,531
Ethane	81,115	– –	265	–	– –	2,158	– –	16,639	62,583	54,299
Propane	59,850	– –	8,634	4,287	– –	-4,776	– –	52,541	25,006	55,812
Normal Butane	17,035	–	3,450	1,064	– –	722	5,405	14,682	740	27,514
Isobutane	14,145	–	-164	347	– –	845	7,178	180	6,125	12,052
Natural Gasoline	20,408	-717	– –	3	– –	688	6,341	4,015	8,649	22,854
Refinery Olefins	– –	– –	7,451	600	– –	-62	– –	– –	8,113	1,766
Ethylene	– –	– –	1	–	– –	0	– –	– –	1	0
Propylene	– –	– –	7,663	448	– –	306	– –	– –	7,805	1,151
Normal Butylene	– –	– –	-213	152	– –	-368	– –	– –	307	615
Isobutylene	– –	– –	–	–	– –	0	– –	– –	0	0
Other Liquids	**– –**	**39,386**	**– –**	**33,501**	**3,296**	**-14,180**	**65,170**	**15,133**	**10,060**	**333,484**
Hydrogen/Biofuels/Other Hydrocarbons	– –	39,389	– –	1,702	4,729	-811	35,854	3,418	7,358	34,288
Hydrogen	– –	– –	– –	–	6,041	– –	6,041	– –	0	– –
Biofuels (including Fuel Ethanol)	– –	39,389	– –	1,702	-1,322	-817	29,809	3,418	7,358	34,268
Fuel Ethanol[5]	– –	30,753	– –	–	-1,322	-1,349	27,622	3,158	0	24,951
Biofuels (excluding Fuel Ethanol)	– –	8,635	– –	1,702	– –	532	2,187	261	7,358	9,317
Biodiesel	– –	3,325	– –	916	– –	194	1,509	261	2,278	5,055
Renewable Diesel Fuel	– –	4,740	– –	786	– –	354	472	NA	4,701	3,919
Other Biofuels[6]	– –	570	– –	–	– –	-15	206	NA	379	343
Other Hydrocarbons	– –	– –	– –	–	10	6	4	–	0	20
Unfinished Oils	– –	– –	– –	16,314	– –	1,132	3,279	9,197	2,706	88,551
Motor Gasoline Blend.Comp. (MGBC)[5]	– –	-2	– –	15,485	-1,433	-14,499	26,031	2,518	0	210,626
Reformulated	– –	0	– –	4,437	12,120	473	16,048	36	0	48,968
Conventional	– –	-2	– –	11,048	-13,553	-14,972	9,983	2,482	0	161,658
Aviation Gasoline Blend. Comp.	– –	– –	– –	–	– –	-3	6	–	-3	19
Finished Petroleum Products	**– –**	**209**	**572,060**	**20,352**	**2,755**	**-14,430**	**– –**	**97,164**	**512,642**	**257,573**
Finished Motor Gasoline	– –	205	297,602	2,902	2,755	-2,466	– –	26,720	279,211	14,707
Reformulated	– –	–	92,041	–	-10,386	-1	– –	–	81,656	21
Conventional	– –	205	205,561	2,902	13,141	-2,465	– –	26,720	197,555	14,686
Finished Aviation Gasoline	– –	– –	153	4	– –	-230	– –	–	387	1,163
Kerosene-Type Jet Fuel	– –	5	52,057	4,486	– –	225	– –	6,530	49,793	37,749
Kerosene	– –	–	165	–	– –	13	– –	53	99	1,297
Distillate Fuel Oil[5]	– –	-1	145,243	4,813	– –	-12,529	– –	35,383	127,201	112,292
15 ppm sulfur and under	– –	-1	137,788	4,774	– –	-12,354	– –	29,921	124,994	102,949
Greater than 15 ppm to 500 ppm sulfur	– –	0	3,740	9	– –	307	– –	3,371	71	2,596
Greater than 500 ppm sulfur	– –	–	3,715	30	– –	-482	– –	2,091	2,136	6,747
Residual Fuel Oil	– –	– –	8,559	3,398	– –	-1,767	– –	6,039	7,685	29,563
Less than 0.31 percent sulfur	– –	– –	1,342	525	– –	-48	– –	NA	NA	2,933
0.31 to 1.00 percent sulfur	– –	– –	2,813	557	– –	-38	– –	NA	NA	6,952
Greater than 1.00 percent sulfur	– –	– –	4,404	2,316	– –	-1,681	– –	NA	NA	19,678
Petrochemical Feedstocks	– –	– –	7,330	508	– –	210	– –	2,178	5,450	2,908
Naphtha for Petro. Feed. Use	– –	– –	4,306	321	– –	170	– –	–	4,457	2,222
Other Oils for Petro. Feed. Use	– –	– –	3,024	187	– –	40	– –	2,178	993	686
Special Naphthas	– –	– –	949	522	– –	-25	– –	–	1,496	979
Lubricants	– –	– –	3,941	1,345	– –	-578	– –	4,095	1,769	12,455
Waxes	– –	– –	156	140	– –	25	– –	134	137	618
Petroleum Coke	– –	– –	23,978	272	– –	-409	– –	15,432	9,227	7,930
Marketable	– –	– –	18,252	272	– –	-409	– –	15,432	3,501	7,930
Catalyst	– –	– –	5,726	– –	– –	– –	– –	– –	5,726	– –
Asphalt and Road Oil	– –	– –	9,872	1,962	– –	3,329	– –	501	8,004	35,102
Still Gas	– –	– –	19,508	– –	– –	– –	– –	– –	19,508	– –
Miscellaneous Products	– –	– –	2,547	–	– –	-228	– –	99	2,676	811
Total	**586,114**	**38,878**	**591,696**	**255,314**	**38,216**	**-36,360**	**563,272**	**349,386**	**633,920**	**1,601,966**

– – = 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 hydrogen, motor gasoline blending components, and fuel ethanol. 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 biofuels 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 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Data source: Energy Information Administration (EIA) 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 Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

Table 2. U.S. Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-March 2023
(Thousand Barrels)

Commodity	Supply					Disposition				
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports	Adjust-ments[1]	Stock Change[2]	Refinery and Blender Net Inputs	Exports	Products Supplied[3]	Ending Stocks
Crude Oil[4]	**1,133,885**	**– –**	**– –**	**574,448**	**63,675**	**35,021**	**1,367,089**	**369,898**	**0**	**836,612**
Hydrocarbon Gas Liquids	**540,824**	**-2,087**	**41,993**	**19,797**	**– –**	**-36,788**	**64,521**	**241,651**	**331,143**	**174,297**
Natural Gas Liquids	540,824	-2,087	21,252	18,093	– –	-36,681	64,521	241,651	308,591	172,531
Ethane	224,066	– –	498	–	– –	753	– –	44,841	178,970	54,299
Propane	170,074	– –	24,415	14,242	– –	-20,742	– –	141,182	88,291	55,812
Normal Butane	48,176	–	-2,693	3,148	– –	-14,236	24,478	41,865	-3,476	27,514
Isobutane	40,621	–	-968	692	– –	-156	20,578	365	19,558	12,052
Natural Gasoline	57,887	-2,087	– –	11	– –	-2,300	19,465	13,398	25,248	22,854
Refinery Olefins	– –	– –	20,741	1,704	– –	-107	– –	– –	22,552	1,766
Ethylene	– –	– –	15	–	– –	0	– –	– –	15	0
Propylene	– –	– –	21,224	1,344	– –	-187	– –	– –	22,755	1,151
Normal Butylene	– –	– –	-522	360	– –	96	– –	– –	-258	615
Isobutylene	– –	– –	24	–	– –	-16	– –	– –	40	0
Other Liquids	**– –**	**113,557**	**– –**	**99,109**	**8,714**	**8,685**	**150,190**	**37,967**	**24,538**	**333,484**
Hydrogen/Biofuels/Other Hydrocarbons	– –	113,562	– –	4,778	14,574	2,564	101,715	8,937	19,698	34,288
Hydrogen	– –	– –	– –	–	17,988	– –	17,988	– –	0	– –
Biofuels (including Fuel Ethanol)	– –	113,562	– –	4,763	-3,437	2,554	83,699	8,937	19,698	34,268
Fuel Ethanol[5]	– –	90,032	– –	–	-3,437	524	77,618	8,453	0	24,951
Biofuels (excluding Fuel Ethanol)	– –	23,530	– –	4,763	– –	2,030	6,081	484	19,698	9,317
Biodiesel	– –	9,408	– –	2,798	– –	1,456	4,009	484	6,257	5,055
Renewable Diesel Fuel	– –	12,486	– –	1,965	– –	513	1,280	NA	12,658	3,919
Other Biofuels[6]	– –	1,637	– –	–	– –	61	792	NA	784	343
Other Hydrocarbons	– –	– –	– –	15	23	10	28	–	0	20
Unfinished Oils	– –	– –	– –	48,179	– –	2,406	17,534	23,368	4,871	88,551
Motor Gasoline Blend.Comp. (MGBC)[5]	– –	-5	– –	46,152	-5,860	3,729	30,896	5,662	0	210,626
Reformulated	– –	-1	– –	13,196	37,176	3,457	46,802	113	0	48,968
Conventional	– –	-4	– –	32,956	-43,036	272	-15,906	5,550	0	161,658
Aviation Gasoline Blend. Comp.	– –	– –	– –	–	– –	-14	45	–	-31	19
Finished Petroleum Products	**– –**	**563**	**1,626,820**	**71,413**	**9,297**	**1,383**	**– –**	**262,835**	**1,443,875**	**257,573**
Finished Motor Gasoline	– –	560	835,139	8,378	9,297	-2,705	– –	76,096	779,983	14,707
Reformulated	– –	–	260,049	–	-32,492	1	– –	–	227,556	21
Conventional	– –	560	575,090	8,378	41,789	-2,706	– –	76,096	552,427	14,686
Finished Aviation Gasoline	– –	– –	685	32	– –	-143	– –	–	860	1,163
Kerosene-Type Jet Fuel	– –	9	146,208	13,328	– –	2,710	– –	17,671	139,164	37,749
Kerosene	– –	–	1,037	504	– –	-831	– –	568	1,804	1,297
Distillate Fuel Oil[5]	– –	-6	422,532	21,706	– –	-6,517	– –	90,088	360,661	112,292
15 ppm sulfur and under	– –	-6	403,003	21,514	– –	-5,704	– –	75,187	355,028	102,949
Greater than 15 ppm to 500 ppm sulfur	– –	0	9,196	14	– –	97	– –	8,802	310	2,596
Greater than 500 ppm sulfur	– –	–	10,333	178	– –	-910	– –	6,098	5,323	6,747
Residual Fuel Oil	– –	– –	24,394	14,181	– –	-1,176	– –	13,217	26,534	29,563
Less than 0.31 percent sulfur	– –	– –	4,009	1,314	– –	153	– –	NA	NA	2,933
0.31 to 1.00 percent sulfur	– –	– –	8,201	3,898	– –	781	– –	NA	NA	6,952
Greater than 1.00 percent sulfur	– –	– –	12,184	8,969	– –	-2,110	– –	NA	NA	19,678
Petrochemical Feedstocks	– –	– –	19,478	1,434	– –	520	– –	3,040	17,352	2,908
Naphtha for Petro. Feed. Use	– –	– –	11,602	851	– –	439	– –	–	12,014	2,222
Other Oils for Petro. Feed. Use	– –	– –	7,876	583	– –	81	– –	3,040	5,338	686
Special Naphthas	– –	– –	2,646	1,318	– –	2	– –	–	3,962	979
Lubricants	– –	– –	12,813	4,007	– –	-892	– –	9,171	8,541	12,455
Waxes	– –	– –	402	364	– –	17	– –	390	359	618
Petroleum Coke	– –	– –	70,002	1,033	– –	1,056	– –	50,524	19,455	7,930
Marketable	– –	– –	53,614	1,033	– –	1,056	– –	50,524	3,067	7,930
Catalyst	– –	– –	16,388	– –	– –	– –	– –	– –	16,388	– –
Asphalt and Road Oil	– –	– –	27,983	5,128	– –	9,426	– –	1,820	21,865	35,102
Still Gas	– –	– –	55,838	– –	– –	– –	– –	– –	55,838	– –
Miscellaneous Products	– –	– –	7,663	–	– –	-84	– –	252	7,495	811
Total	**1,674,709**	**112,033**	**1,668,813**	**764,767**	**81,686**	**8,301**	**1,581,800**	**912,351**	**1,799,556**	**1,601,966**

– – = 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 hydrogen, motor gasoline blending components, and fuel ethanol. 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 biofuels 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 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Data source: Energy Information Administration (EIA) 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 Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

Table 3. U.S. Daily Average Supply and Disposition of Crude Oil and Petroleum Products, March 2023
(Thousand Barrels per Day)

Commodity	Supply					Disposition			
	Field Production	Biofuels 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]	**12,696**	**– –**	**– –**	**6,295**	**1,038**	**-236**	**15,457**	**4,807**	**0**
Hydrocarbon Gas Liquids	**6,211**	**-23**	**633**	**203**	**– –**	**-14**	**610**	**2,841**	**3,588**
Natural Gas Liquids	6,211	-23	393	184	– –	-12	610	2,841	3,326
Ethane	2,617	– –	9	–	– –	70	– –	537	2,019
Propane	1,931	– –	279	138	– –	-154	– –	1,695	807
Normal Butane	550	–	111	34	– –	23	174	474	24
Isobutane	456	–	-5	11	– –	27	232	6	198
Natural Gasoline	658	-23	– –	0	– –	22	205	130	279
Refinery Olefins	– –	– –	240	19	– –	-2	– –	– –	262
Ethylene	– –	– –	0	–	– –	0	– –	– –	0
Propylene	– –	– –	247	14	– –	10	– –	– –	252
Normal Butylene	– –	– –	-7	5	– –	-12	– –	– –	10
Isobutylene	– –	– –	–	–	– –	0	– –	– –	0
Other Liquids	**– –**	**1,271**	**– –**	**1,081**	**106**	**-457**	**2,102**	**488**	**325**
Hydrogen/Biofuels/Other Hydrocarbons	– –	1,271	– –	55	153	-26	1,157	110	237
Hydrogen	– –	– –	– –	–	195	– –	195	– –	0
Biofuels (including Fuel Ethanol)	– –	1,271	– –	55	-43	-26	962	110	237
Fuel Ethanol[5]	– –	992	– –	–	-43	-44	891	102	0
Biofuels (excluding Fuel Ethanol)	– –	279	– –	55	– –	17	71	8	237
Biodiesel	– –	107	– –	30	– –	6	49	8	73
Renewable Diesel Fuel	– –	153	– –	25	– –	11	15	NA	152
Other Biofuels[6]	– –	18	– –	–	– –	0	7	NA	12
Other Hydrocarbons	– –	– –	– –	–	0	0	0	–	0
Unfinished Oils	– –	– –	– –	526	– –	37	106	297	87
Motor Gasoline Blend.Comp. (MGBC)[5]	– –	0	– –	500	-46	-468	840	81	0
Reformulated	– –	0	– –	143	391	15	518	1	0
Conventional	– –	0	– –	356	-437	-483	322	80	0
Aviation Gasoline Blend. Comp.	– –	– –	– –	–	– –	0	0	–	0
Finished Petroleum Products	**– –**	**7**	**18,454**	**657**	**89**	**-465**	**– –**	**3,134**	**16,537**
Finished Motor Gasoline	– –	7	9,600	94	89	-80	– –	862	9,007
Reformulated	– –	–	2,969	–	-335	0	– –	–	2,634
Conventional	– –	7	6,631	94	424	-80	– –	862	6,373
Finished Aviation Gasoline	– –	– –	5	0	– –	-7	– –	–	12
Kerosene-Type Jet Fuel	– –	0	1,679	145	– –	7	– –	211	1,606
Kerosene	– –	–	5	–	– –	0	– –	2	3
Distillate Fuel Oil[5]	– –	0	4,685	155	– –	-404	– –	1,141	4,103
15 ppm sulfur and under	– –	0	4,445	154	– –	-399	– –	965	4,032
Greater than 15 ppm to 500 ppm sulfur	– –	0	121	0	– –	10	– –	109	2
Greater than 500 ppm sulfur	– –	–	120	1	– –	-16	– –	67	69
Residual Fuel Oil	– –	– –	276	110	– –	-57	– –	195	248
Less than 0.31 percent sulfur	– –	– –	43	17	– –	-2	– –	NA	NA
0.31 to 1.00 percent sulfur	– –	– –	91	18	– –	-1	– –	NA	NA
Greater than 1.00 percent sulfur	– –	– –	142	75	– –	-54	– –	NA	NA
Petrochemical Feedstocks	– –	– –	236	16	– –	7	– –	70	176
Naphtha for Petro. Feed. Use	– –	– –	139	10	– –	5	– –	–	144
Other Oils for Petro. Feed. Use	– –	– –	98	6	– –	1	– –	70	32
Special Naphthas	– –	– –	31	17	– –	-1	– –	–	48
Lubricants	– –	– –	127	43	– –	-19	– –	132	57
Waxes	– –	– –	5	5	– –	1	– –	4	4
Petroleum Coke	– –	– –	773	9	– –	-13	– –	498	298
Marketable	– –	– –	589	9	– –	-13	– –	498	113
Catalyst	– –	– –	185	– –	– –	– –	– –	– –	185
Asphalt and Road Oil	– –	– –	318	63	– –	107	– –	16	258
Still Gas	– –	– –	629	– –	– –	– –	– –	– –	629
Miscellaneous Products	– –	– –	82	–	– –	-7	– –	3	86
Total	**18,907**	**1,254**	**19,087**	**8,236**	**1,233**	**-1,173**	**18,170**	**11,271**	**20,449**

– – = 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 hydrogen, motor gasoline blending components, and fuel ethanol. 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 biofuels 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 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Data source: Energy Information Administration (EIA) 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 Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

Table 4. U.S. Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-March 2023
(Thousand Barrels per Day)

Commodity	Supply					Disposition			
	Field Production	Biofuels 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]	**12,599**	**– –**	**– –**	**6,383**	**707**	**389**	**15,190**	**4,110**	**0**
Hydrocarbon Gas Liquids	**6,009**	**-23**	**467**	**220**	**– –**	**-409**	**717**	**2,685**	**3,679**
Natural Gas Liquids	6,009	-23	236	201	– –	-408	717	2,685	3,429
Ethane	2,490	– –	6	–	– –	8	– –	498	1,989
Propane	1,890	– –	271	158	– –	-230	– –	1,569	981
Normal Butane	535	–	-30	35	– –	-158	272	465	-39
Isobutane	451	–	-11	8	– –	-2	229	4	217
Natural Gasoline	643	-23	– –	0	– –	-26	216	149	281
Refinery Olefins	– –	– –	230	19	– –	-1	– –	– –	251
Ethylene	– –	– –	0	–	– –	0	– –	– –	0
Propylene	– –	– –	236	15	– –	-2	– –	– –	253
Normal Butylene	– –	– –	-6	4	– –	1	– –	– –	-3
Isobutylene	– –	– –	0	–	– –	0	– –	– –	0
Other Liquids	**– –**	**1,262**	**– –**	**1,101**	**97**	**97**	**1,669**	**422**	**273**
Hydrogen/Biofuels/Other Hydrocarbons	– –	1,262	– –	53	162	28	1,130	99	219
Hydrogen	– –	– –	– –	–	200	– –	200	– –	0
Biofuels (including Fuel Ethanol)	– –	1,262	– –	53	-38	28	930	99	219
Fuel Ethanol[5]	– –	1,000	– –	–	-38	6	862	94	0
Biofuels (excluding Fuel Ethanol)	– –	261	– –	53	– –	23	68	5	219
Biodiesel	– –	105	– –	31	– –	16	45	5	70
Renewable Diesel Fuel	– –	139	– –	22	– –	6	14	NA	141
Other Biofuels[6]	– –	18	– –	–	– –	1	9	NA	9
Other Hydrocarbons	– –	– –	– –	0	0	0	0	–	0
Unfinished Oils	– –	– –	– –	535	– –	27	195	260	54
Motor Gasoline Blend.Comp. (MGBC)[5]	– –	0	– –	513	-65	41	343	63	0
Reformulated	– –	0	– –	147	413	38	520	1	0
Conventional	– –	0	– –	366	-478	3	-177	62	0
Aviation Gasoline Blend. Comp.	– –	– –	– –	–	– –	0	1	–	0
Finished Petroleum Products	**– –**	**6**	**18,076**	**793**	**103**	**15**	**– –**	**2,920**	**16,043**
Finished Motor Gasoline	– –	6	9,279	93	103	-30	– –	846	8,666
Reformulated	– –	–	2,889	–	-361	0	– –	–	2,528
Conventional	– –	6	6,390	93	464	-30	– –	846	6,138
Finished Aviation Gasoline	– –	– –	8	0	– –	-2	– –	–	10
Kerosene-Type Jet Fuel	– –	0	1,625	148	– –	30	– –	196	1,546
Kerosene	– –	–	12	6	– –	-9	– –	6	20
Distillate Fuel Oil[5]	– –	0	4,695	241	– –	-72	– –	1,001	4,007
15 ppm sulfur and under	– –	0	4,478	239	– –	-63	– –	835	3,945
Greater than 15 ppm to 500 ppm sulfur	– –	0	102	0	– –	1	– –	98	3
Greater than 500 ppm sulfur	– –	–	115	2	– –	-10	– –	68	59
Residual Fuel Oil	– –	– –	271	158	– –	-13	– –	147	295
Less than 0.31 percent sulfur	– –	– –	45	15	– –	2	– –	NA	NA
0.31 to 1.00 percent sulfur	– –	– –	91	43	– –	9	– –	NA	NA
Greater than 1.00 percent sulfur	– –	– –	135	100	– –	-23	– –	NA	NA
Petrochemical Feedstocks	– –	– –	216	16	– –	6	– –	34	193
Naphtha for Petro. Feed. Use	– –	– –	129	9	– –	5	– –	–	133
Other Oils for Petro. Feed. Use	– –	– –	88	6	– –	1	– –	34	59
Special Naphthas	– –	– –	29	15	– –	0	– –	–	44
Lubricants	– –	– –	142	45	– –	-10	– –	102	95
Waxes	– –	– –	4	4	– –	0	– –	4	4
Petroleum Coke	– –	– –	778	11	– –	12	– –	561	216
Marketable	– –	– –	596	11	– –	12	– –	561	34
Catalyst	– –	– –	182	– –	– –	– –	– –	– –	182
Asphalt and Road Oil	– –	– –	311	57	– –	105	– –	20	243
Still Gas	– –	– –	620	– –	– –	– –	– –	– –	620
Miscellaneous Products	– –	– –	85	–	– –	-1	– –	3	83
Total	**18,608**	**1,245**	**18,542**	**8,497**	**908**	**92**	**17,576**	**10,137**	**19,995**

– – = 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 hydrogen, motor gasoline blending components, and fuel ethanol. 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 biofuels 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 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Data source: Energy Information Administration (EIA) 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 Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

Table 5. PAD District 1 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, March 2023
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry)[1]	Net Receipts[2]	Adjust-ments[3]	Stock Change[4]	Refinery and Blender Net Inputs	Exports	Products Supplied[5]	
Crude Oil	**2,074**	**– –**	**– –**	**16,154**	**2,039**	**-1,592**	**-584**	**19,259**	**–**	**0**	**7,033**
Hydrocarbon Gas Liquids	**20,860**	**-9**	**245**	**1,666**	**569**	**– –**	**-1,197**	**1,277**	**8,545**	**14,706**	**7,828**
Natural Gas Liquids	20,860	-9	192	1,382	369	– –	-1,069	1,277	8,545	14,041	7,756
Ethane	9,096	– –	–	–	-5,350	– –	-347	– –	2,444	1,649	888
Propane	6,918	– –	360	1,374	4,533	– –	-695	– –	4,206	9,674	4,953
Normal Butane	2,077	–	-152	–	1,786	– –	-45	844	1,851	1,061	1,538
Isobutane	927	–	-16	8	-363	– –	29	117	1	409	144
Natural Gasoline	1,842	-9	– –	–	-238	– –	-11	316	43	1,247	233
Refinery Olefins	– –	– –	53	284	200	– –	-128	– –	– –	665	72
Ethylene	– –	– –	–	–	–	– –	–	– –	– –	–	–
Propylene	– –	– –	55	284	200	– –	-46	– –	– –	585	30
Normal Butylene	– –	– –	-2	–	–	– –	-82	– –	– –	80	42
Isobutylene	– –	– –	–	–	–	– –	0	– –	– –	0	0
Other Liquids	**– –**	**518**	**– –**	**11,923**	**65,570**	**2,372**	**-11,682**	**90,715**	**202**	**1,148**	**63,854**
Hydrogen/Biofuels/Other Hydrocarbons	– –	518	– –	441	9,644	-141	-676	10,774	181	184	8,967
Hydrogen	– –	– –	– –	–	– –	64	– –	64	– –	0	– –
Biofuels (including Fuel Ethanol)	– –	518	– –	441	9,644	-205	-676	10,710	181	184	8,967
Fuel Ethanol[6]	– –	335	– –	–	9,421	-205	-778	10,154	176	0	7,452
Biofuels (excluding Fuel Ethanol)[7]	– –	183	– –	441	222	– –	102	556	5	184	1,515
Other Hydrocarbons	– –	– –	– –	–	–	–	–	–	–	–	–
Unfinished Oils	– –	– –	– –	1,395	-20	– –	-316	708	18	965	3,928
Motor Gasoline Blend.Comp. (MGBC)	– –	–	– –	10,087	55,946	2,512	-10,690	79,233	2	0	50,959
Reformulated	– –	–	– –	3,829	6,235	4,664	-2,172	16,900	0	0	18,797
Conventional	– –	–	– –	6,258	49,711	-2,152	-8,518	62,333	2	0	32,162
Aviation Gasoline Blend. Comp.	– –	– –	– –	–	–	– –	–	–	–	–	–
Finished Petroleum Products	**– –**	**1**	**111,678**	**10,127**	**41,032**	**-2,308**	**-10,331**	**– –**	**3,399**	**167,462**	**53,538**
Finished Motor Gasoline	– –	–	99,787	1,883	1,786	-2,308	-744	– –	374	101,518	1,790
Reformulated	– –	–	36,122	–	–	-4,766	-1	– –	–	31,357	4
Conventional	– –	–	63,665	1,883	1,786	2,458	-743	– –	374	70,161	1,786
Finished Aviation Gasoline	– –	– –	–	–	40	– –	-33	– –	–	73	222
Kerosene-Type Jet Fuel	– –	–	2,609	1,148	13,429	– –	-934	– –	37	18,083	8,945
Kerosene	– –	–	-11	–	–	– –	-92	– –	4	77	652
Distillate Fuel Oil[6]	– –	1	5,865	3,958	24,023	– –	-8,842	– –	1,110	41,579	27,075
15 ppm sulfur and under	– –	1	5,817	3,956	23,797	– –	-8,726	– –	932	41,364	25,400
Greater than 15 ppm to 500 ppm sulfur	– –	–	10	2	–	– –	43	– –	27	-58	623
Greater than 500 ppm sulfur	– –	–	38	–	226	– –	-159	– –	150	273	1,052
Residual Fuel Oil	– –	– –	758	2,034	–	– –	-616	– –	1,139	2,269	4,851
Less than 0.31 percent sulfur	– –	– –	-23	525	–	– –	-54	– –	NA	NA	236
0.31 to 1.00 percent sulfur	– –	– –	674	546	–	– –	-231	– –	NA	NA	829
Greater than 1.00 percent sulfur	– –	– –	107	963	–	– –	-331	– –	NA	NA	3,786
Petrochemical Feedstocks	– –	– –	–	3	–	– –	–	– –	4	-1	–
Naphtha for Petro. Feed. Use	– –	– –	–	2	–	– –	–	– –	–	2	–
Other Oils for Petro. Feed. Use	– –	– –	–	1	–	– –	–	– –	4	-3	–
Special Naphthas	– –	– –	3	3	–	– –	-4	– –	–	10	39
Lubricants	– –	– –	273	148	626	– –	-140	– –	337	850	1,310
Waxes	– –	– –	-2	107	–	– –	38	– –	69	-2	301
Petroleum Coke	– –	– –	506	–	111	– –	–	– –	233	384	–
Marketable	– –	– –	254	–	111	– –	–	– –	233	132	–
Catalyst	– –	– –	252	– –	– –	– –	– –	– –	– –	252	– –
Asphalt and Road Oil	– –	– –	1,120	843	1,017	– –	1,049	– –	74	1,857	8,296
Still Gas	– –	– –	708	– –	– –	– –	– –	– –	– –	708	– –
Miscellaneous Products	– –	– –	62	–	–	– –	-13	– –	18	57	57
Total	**22,934**	**510**	**111,923**	**39,870**	**109,209**	**-1,528**	**-23,795**	**111,251**	**12,145**	**183,316**	**132,252**

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
2 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.
3 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. 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 biofuels 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 Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Data source: Energy Information Administration (EIA) 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 Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 6. PAD District 1 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-March 2023
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry)[1]	Net Receipts[2]	Adjust-ments[3]	Stock Change[4]	Refinery and Blender Net Inputs	Exports	Products Supplied[5]	
Crude Oil	**6,128**	**– –**	**– –**	**48,433**	**7,463**	**740**	**-579**	**61,904**	**1,440**	**0**	**7,033**
Hydrocarbon Gas Liquids	**61,162**	**-26**	**917**	**5,075**	**6,197**	**– –**	**-1,880**	**4,578**	**21,027**	**49,600**	**7,828**
Natural Gas Liquids	61,162	-26	528	4,231	5,576	– –	-1,799	4,578	21,027	47,665	7,756
Ethane	27,020	– –	–	–	-15,212	– –	28	– –	7,195	4,585	888
Propane	20,073	– –	1,205	4,169	17,902	– –	-1,886	– –	10,466	34,769	4,953
Normal Butane	6,004	–	-600	49	4,640	– –	24	3,323	3,235	3,511	1,538
Isobutane	2,746	–	-77	13	-1,067	– –	4	382	3	1,226	144
Natural Gasoline	5,319	-26	– –	–	-687	– –	31	873	129	3,574	233
Refinery Olefins	– –	– –	389	844	621	– –	-81	– –	– –	1,935	72
Ethylene	– –	– –	11	–	–	– –	–	– –	– –	11	–
Propylene	– –	– –	356	844	621	– –	-107	– –	– –	1,928	30
Normal Butylene	– –	– –	-2	–	–	– –	42	– –	– –	-44	42
Isobutylene	– –	– –	24	–	–	– –	-16	– –	– –	40	0
Other Liquids	**– –**	**1,494**	**– –**	**41,152**	**188,205**	**19,281**	**-1,239**	**248,702**	**539**	**2,130**	**63,854**
Hydrogen/Biofuels/Other Hydrocarbons	– –	1,494	– –	1,512	26,861	2,332	835	30,213	463	687	8,967
Hydrogen	– –	– –	– –	–	– –	195	– –	195	– –	0	– –
Biofuels (including Fuel Ethanol)	– –	1,494	– –	1,512	26,861	2,137	835	30,018	463	687	8,967
Fuel Ethanol[6]	– –	981	– –	–	26,219	2,137	418	28,467	452	0	7,452
Biofuels (excluding Fuel Ethanol)[7]	– –	513	– –	1,512	642	– –	418	1,551	12	687	1,515
Other Hydrocarbons	– –	– –	– –	–	–	–	–	–	–	–	–
Unfinished Oils	– –	– –	– –	4,315	-53	– –	471	2,283	65	1,443	3,928
Motor Gasoline Blend.Comp. (MGBC)	– –	–	– –	35,325	161,397	16,949	-2,545	216,206	10	0	50,959
Reformulated	– –	–	– –	12,446	19,649	14,362	1,961	44,495	1	0	18,797
Conventional	– –	–	– –	22,879	141,748	2,587	-4,506	171,711	9	0	32,162
Aviation Gasoline Blend. Comp.	– –	– –	– –	–	–	– –	–	–	–	–	–
Finished Petroleum Products	**– –**	**2**	**316,515**	**40,759**	**128,916**	**-19,086**	**-6,891**	**– –**	**7,168**	**466,829**	**53,538**
Finished Motor Gasoline	– –	–	278,540	6,893	6,111	-19,086	-1,104	– –	487	273,076	1,790
Reformulated	– –	–	101,621	–	–	-13,882	-1	– –	–	87,740	4
Conventional	– –	–	176,919	6,893	6,111	-5,203	-1,103	– –	487	185,336	1,786
Finished Aviation Gasoline	– –	– –	–	18	286	– –	16	– –	–	288	222
Kerosene-Type Jet Fuel	– –	–	8,288	4,516	40,248	– –	-12	– –	745	52,319	8,945
Kerosene	– –	–	153	504	596	– –	-964	– –	9	2,208	652
Distillate Fuel Oil[6]	– –	2	19,008	18,963	76,133	– –	-7,327	– –	1,996	119,437	27,075
15 ppm sulfur and under	– –	2	18,800	18,830	75,211	– –	-6,615	– –	1,374	118,083	25,400
Greater than 15 ppm to 500 ppm sulfur	– –	–	67	2	–	– –	32	– –	469	-432	623
Greater than 500 ppm sulfur	– –	–	141	131	922	– –	-744	– –	152	1,786	1,052
Residual Fuel Oil	– –	– –	2,405	6,842	–	– –	-760	– –	1,354	8,653	4,851
Less than 0.31 percent sulfur	– –	– –	-49	998	–	– –	-57	– –	NA	NA	236
0.31 to 1.00 percent sulfur	– –	– –	1,897	2,020	–	– –	-13	– –	NA	NA	829
Greater than 1.00 percent sulfur	– –	– –	557	3,824	–	– –	-690	– –	NA	NA	3,786
Petrochemical Feedstocks	– –	– –	–	131	–	– –	–	– –	6	125	–
Naphtha for Petro. Feed. Use	– –	– –	–	97	–	– –	–	– –	–	97	–
Other Oils for Petro. Feed. Use	– –	– –	–	34	–	– –	–	– –	6	28	–
Special Naphthas	– –	– –	-5	7	–	– –	-22	– –	–	24	39
Lubricants	– –	– –	1,032	367	1,595	– –	-230	– –	668	2,556	1,310
Waxes	– –	– –	-44	277	–	– –	80	– –	197	-44	301
Petroleum Coke	– –	– –	1,623	–	824	– –	–	– –	1,422	1,025	–
Marketable	– –	– –	718	–	824	– –	–	– –	1,422	120	–
Catalyst	– –	– –	905	– –	– –	– –	– –	– –	– –	905	– –
Asphalt and Road Oil	– –	– –	3,121	2,241	3,123	– –	3,441	– –	235	4,808	8,296
Still Gas	– –	– –	2,168	– –	– –	– –	– –	– –	– –	2,168	– –
Miscellaneous Products	– –	– –	226	–	–	– –	-9	– –	50	185	57
Total	**67,290**	**1,470**	**317,432**	**135,419**	**330,781**	**935**	**-10,589**	**315,184**	**30,175**	**518,558**	**132,252**

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
2 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.
3 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. 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 biofuels 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 Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Data source: Energy Information Administration (EIA) 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 Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 7. PAD District 1 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, March 2023
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry)[1]	Net Receipts[2]	Adjust-ments[3]	Stock Change[4]	Refinery and Blender Net Inputs	Exports	Products Supplied[5]
Crude Oil	**67**	**– –**	**– –**	**521**	**66**	**-51**	**-19**	**621**	**–**	**0**
Hydrocarbon Gas Liquids	**673**	**0**	**8**	**54**	**18**	**– –**	**-39**	**41**	**276**	**474**
Natural Gas Liquids	673	0	6	45	12	– –	-34	41	276	453
Ethane	293	– –	–	–	-173	– –	-11	– –	79	53
Propane	223	– –	12	44	146	– –	-22	– –	136	312
Normal Butane	67	–	-5	–	58	– –	-1	27	60	34
Isobutane	30	–	-1	0	-12	– –	1	4	0	13
Natural Gasoline	59	0	– –	–	-8	– –	0	10	1	40
Refinery Olefins	– –	– –	2	9	6	– –	-4	– –	– –	21
Ethylene	– –	– –	–	–	–	– –	–	– –	– –	–
Propylene	– –	– –	2	9	6	– –	-1	– –	– –	19
Normal Butylene	– –	– –	0	–	–	– –	-3	– –	– –	3
Isobutylene	– –	– –	–	–	–	– –	0	– –	– –	0
Other Liquids	**– –**	**17**	**– –**	**385**	**2,115**	**77**	**-377**	**2,926**	**7**	**37**
Hydrogen/Biofuels/Other Hydrocarbons	– –	17	– –	14	311	-5	-22	348	6	6
Hydrogen	– –	– –	– –	–	– –	2	– –	2	– –	0
Biofuels (including Fuel Ethanol)	– –	17	– –	14	311	-7	-22	345	6	6
Fuel Ethanol[6]	– –	11	– –	–	304	-7	-25	328	6	0
Biofuels (excluding Fuel Ethanol)[7]	– –	6	– –	14	7	– –	3	18	0	6
Other Hydrocarbons	– –	– –	– –	–	–	–	–	–	–	–
Unfinished Oils	– –	– –	– –	45	-1	– –	-10	23	1	31
Motor Gasoline Blend.Comp. (MGBC)[6]	– –	–	– –	325	1,805	81	-345	2,556	0	0
Reformulated	– –	–	– –	124	201	150	-70	545	0	0
Conventional	– –	–	– –	202	1,604	-69	-275	2,011	0	0
Aviation Gasoline Blend. Comp.	– –	– –	– –	–	–	– –	–	–	–	–
Finished Petroleum Products	**– –**	**0**	**3,603**	**327**	**1,324**	**-74**	**-333**	**– –**	**110**	**5,402**
Finished Motor Gasoline	– –	–	3,219	61	58	-74	-24	– –	12	3,275
Reformulated	– –	–	1,165	–	–	-154	0	– –	–	1,012
Conventional	– –	–	2,054	61	58	79	-24	– –	12	2,263
Finished Aviation Gasoline	– –	– –	–	–	1	– –	-1	– –	–	2
Kerosene-Type Jet Fuel	– –	–	84	37	433	– –	-30	– –	1	583
Kerosene	– –	–	0	–	–	– –	-3	– –	0	2
Distillate Fuel Oil[6]	– –	0	189	128	775	– –	-285	– –	36	1,341
15 ppm sulfur and under	– –	0	188	128	768	– –	-281	– –	30	1,334
Greater than 15 ppm to 500 ppm sulfur	– –	–	0	0	–	– –	1	– –	1	-2
Greater than 500 ppm sulfur	– –	–	1	–	7	– –	-5	– –	5	9
Residual Fuel Oil	– –	– –	24	66	–	– –	-20	– –	37	73
Less than 0.31 percent sulfur	– –	– –	-1	17	–	– –	-2	– –	NA	NA
0.31 to 1.00 percent sulfur	– –	– –	22	18	–	– –	-7	– –	NA	NA
Greater than 1.00 percent sulfur	– –	– –	3	31	–	– –	-11	– –	NA	NA
Petrochemical Feedstocks	– –	– –	–	0	–	– –	–	– –	0	0
Naphtha for Petro. Feed. Use	– –	– –	–	0	–	– –	–	– –	–	0
Other Oils for Petro. Feed. Use	– –	– –	–	0	–	– –	–	– –	0	0
Special Naphthas	– –	– –	0	0	–	– –	0	– –	–	0
Lubricants	– –	– –	9	5	20	– –	-5	– –	11	27
Waxes	– –	– –	0	3	–	– –	1	– –	2	0
Petroleum Coke	– –	– –	16	–	4	– –	–	– –	8	12
Marketable	– –	– –	8	–	4	– –	–	– –	8	4
Catalyst	– –	– –	8	– –	– –	– –	– –	– –	– –	8
Asphalt and Road Oil	– –	– –	36	27	33	– –	34	– –	2	60
Still Gas	– –	– –	23	– –	– –	– –	– –	– –	– –	23
Miscellaneous Products	– –	– –	2	–	–	– –	0	– –	1	2
Total	**740**	**16**	**3,610**	**1,286**	**3,523**	**-49**	**-768**	**3,589**	**392**	**5,913**

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
2 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.
3 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. 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 biofuels 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 Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Data source: Energy Information Administration (EIA) 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 Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 8. PAD District 1 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-March 2023
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry)[1]	Net Receipts[2]	Adjust-ments[3]	Stock Change[4]	Refinery and Blender Net Inputs	Exports	Products Supplied[5]
Crude Oil	**68**	**– –**	**– –**	**538**	**83**	**8**	**-6**	**688**	**16**	**0**
Hydrocarbon Gas Liquids	**680**	**0**	**10**	**56**	**69**	**– –**	**-21**	**51**	**234**	**551**
Natural Gas Liquids	680	0	6	47	62	– –	-20	51	234	530
Ethane	300	– –	–	–	-169	– –	0	– –	80	51
Propane	223	– –	13	46	199	– –	-21	– –	116	386
Normal Butane	67	–	-7	1	52	– –	0	37	36	39
Isobutane	31	–	-1	0	-12	– –	0	4	0	14
Natural Gasoline	59	0	– –	–	-8	– –	0	10	1	40
Refinery Olefins	– –	– –	4	9	7	– –	-1	– –	– –	21
Ethylene	– –	– –	0	–	–	– –	–	– –	– –	0
Propylene	– –	– –	4	9	7	– –	-1	– –	– –	21
Normal Butylene	– –	– –	0	–	–	– –	0	– –	– –	0
Isobutylene	– –	– –	0	–	–	– –	0	– –	– –	0
Other Liquids	**– –**	**17**	**– –**	**457**	**2,091**	**214**	**-14**	**2,763**	**6**	**24**
Hydrogen/Biofuels/Other Hydrocarbons	– –	17	– –	17	298	26	9	336	5	8
Hydrogen	– –	– –	– –	–	– –	2	– –	2	– –	0
Biofuels (including Fuel Ethanol)	– –	17	– –	17	298	24	9	334	5	8
Fuel Ethanol[6]	– –	11	– –	–	291	24	5	316	5	0
Biofuels (excluding Fuel Ethanol)[7]	– –	6	– –	17	7	– –	5	17	0	8
Other Hydrocarbons	– –	– –	– –	–	–	–	–	–	–	–
Unfinished Oils	– –	– –	– –	48	-1	– –	5	25	1	16
Motor Gasoline Blend.Comp. (MGBC)[6]	– –	–	– –	393	1,793	188	-28	2,402	0	0
Reformulated	– –	–	– –	138	218	160	22	494	0	0
Conventional	– –	–	– –	254	1,575	29	-50	1,908	0	0
Aviation Gasoline Blend. Comp.	– –	– –	– –	–	–	– –	–	–	–	–
Finished Petroleum Products	**– –**	**0**	**3,517**	**453**	**1,432**	**-212**	**-77**	**– –**	**80**	**5,187**
Finished Motor Gasoline	– –	–	3,095	77	68	-212	-12	– –	5	3,034
Reformulated	– –	–	1,129	–	–	-154	0	– –	–	975
Conventional	– –	–	1,966	77	68	-58	-12	– –	5	2,059
Finished Aviation Gasoline	– –	– –	–	0	3	– –	0	– –	–	3
Kerosene-Type Jet Fuel	– –	–	92	50	447	– –	0	– –	8	581
Kerosene	– –	–	2	6	7	– –	-11	– –	0	25
Distillate Fuel Oil[6]	– –	0	211	211	846	– –	-81	– –	22	1,327
15 ppm sulfur and under	– –	0	209	209	836	– –	-74	– –	15	1,312
Greater than 15 ppm to 500 ppm sulfur	– –	–	1	0	–	– –	0	– –	5	-5
Greater than 500 ppm sulfur	– –	–	2	1	10	– –	-8	– –	2	20
Residual Fuel Oil	– –	– –	27	76	–	– –	-8	– –	15	96
Less than 0.31 percent sulfur	– –	– –	-1	11	–	– –	-1	– –	NA	NA
0.31 to 1.00 percent sulfur	– –	– –	21	22	–	– –	0	– –	NA	NA
Greater than 1.00 percent sulfur	– –	– –	6	42	–	– –	-8	– –	NA	NA
Petrochemical Feedstocks	– –	– –	–	1	–	– –	–	– –	0	1
Naphtha for Petro. Feed. Use	– –	– –	–	1	–	– –	–	– –	–	1
Other Oils for Petro. Feed. Use	– –	– –	–	0	–	– –	–	– –	0	0
Special Naphthas	– –	– –	0	0	–	– –	0	– –	–	0
Lubricants	– –	– –	11	4	18	– –	-3	– –	7	28
Waxes	– –	– –	0	3	–	– –	1	– –	2	0
Petroleum Coke	– –	– –	18	–	9	– –	–	– –	16	11
Marketable	– –	– –	8	–	9	– –	–	– –	16	1
Catalyst	– –	– –	10	– –	– –	– –	– –	– –	– –	10
Asphalt and Road Oil	– –	– –	35	25	35	– –	38	– –	3	53
Still Gas	– –	– –	24	– –	– –	– –	– –	– –	– –	24
Miscellaneous Products	– –	– –	3	–	–	– –	0	– –	1	2
Total	**748**	**16**	**3,527**	**1,505**	**3,675**	**10**	**-118**	**3,502**	**335**	**5,762**

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
2 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.
3 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. 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 biofuels 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 Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Data source: Energy Information Administration (EIA) 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 Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 9. PAD District 2 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, March 2023
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry)[1]	Net Receipts[2]	Adjust-ments[3]	Stock Change[4]	Refinery and Blender Net Inputs	Exports	Products Supplied[5]	
Crude Oil	**53,728**	**– –**	**– –**	**88,662**	**-30,899**	**384**	**-6,185**	**115,973**	**2,088**	**0**	**121,415**
Hydrocarbon Gas Liquids	**35,646**	**-683**	**3,330**	**2,025**	**-18,520**	**– –**	**-2,584**	**3,139**	**6,018**	**15,225**	**36,858**
Natural Gas Liquids	35,646	-683	2,156	1,709	-17,711	– –	-2,570	3,139	6,018	14,529	36,527
Ethane	13,515	– –	–	–	-7,882	– –	449	– –	1,922	3,262	6,957
Propane	12,152	– –	2,427	954	-11,126	– –	-2,785	– –	145	7,047	11,963
Normal Butane	3,991	–	-51	414	-4,621	– –	-86	493	74	-747	4,979
Isobutane	2,118	–	-220	338	53	– –	-126	1,703	2	710	2,323
Natural Gasoline	3,870	-683	– –	3	5,865	– –	-22	943	3,876	4,258	10,305
Refinery Olefins	– –	– –	1,174	316	-808	– –	-14	– –	– –	696	331
Ethylene	– –	– –	–	–	–	– –	–	– –	– –	–	–
Propylene	– –	– –	1,140	164	-808	– –	-45	– –	– –	541	300
Normal Butylene	– –	– –	34	152	–	– –	31	– –	– –	155	31
Isobutylene	– –	– –	–	–	–	– –	0	– –	– –	0	0
Other Liquids	**– –**	**32,371**	**– –**	**643**	**-17,145**	**-2,457**	**-2,947**	**11,935**	**3,370**	**1,053**	**71,485**
Hydrogen/Biofuels/Other Hydrocarbons	– –	32,372	– –	119	-20,747	-311	-125	8,883	1,048	1,628	12,039
Hydrogen	– –	– –	– –	–	– –	1,182	– –	1,182	– –	0	– –
Biofuels (including Fuel Ethanol)	– –	32,372	– –	119	-20,747	-1,503	-131	7,697	1,048	1,628	12,019
Fuel Ethanol	– –	29,366	– –	–	-19,753	-1,503	-128	7,350	888	0	10,447
Biofuels (excluding Fuel Ethanol)[6]	– –	3,006	– –	119	-994	– –	-4	347	159	1,628	1,572
Other Hydrocarbons	– –	– –	– –	–	–	10	6	4	–	0	20
Unfinished Oils	– –	– –	– –	–	-510	– –	-26	-2,219	2,309	-574	13,516
Motor Gasoline Blend.Comp. (MGBC)	– –	-1	– –	524	4,112	-2,146	-2,795	5,271	13	0	45,929
Reformulated	– –	0	– –	–	113	2,162	866	1,409	–	0	5,667
Conventional	– –	-1	– –	524	3,999	-4,308	-3,661	3,862	13	0	40,262
Aviation Gasoline Blend. Comp.	– –	– –	– –	–	–	– –	–	–	–	–	–
Finished Petroleum Products	**– –**	**146**	**134,214**	**1,666**	**699**	**3,649**	**-690**	**– –**	**759**	**140,305**	**60,385**
Finished Motor Gasoline	– –	149	74,428	–	279	3,649	111	– –	285	78,108	3,548
Reformulated	– –	–	10,355	–	–	-2,025	–	– –	–	8,330	–
Conventional	– –	149	64,073	–	279	5,674	111	– –	285	69,779	3,548
Finished Aviation Gasoline	– –	– –	–	3	25	– –	-24	– –	–	52	181
Kerosene-Type Jet Fuel	– –	–	8,337	–	281	– –	-475	– –	27	9,066	6,491
Kerosene	– –	–	23	–	–	– –	-4	– –	1	26	114
Distillate Fuel Oil	– –	-3	34,246	258	2,731	– –	-1,606	– –	31	38,808	29,304
15 ppm sulfur and under	– –	-3	34,080	221	2,655	– –	-1,604	– –	4	38,553	28,720
Greater than 15 ppm to 500 ppm sulfur	– –	0	182	7	76	– –	31	– –	1	233	298
Greater than 500 ppm sulfur	– –	–	-16	30	–	– –	-33	– –	25	22	286
Residual Fuel Oil	– –	– –	975	32	-832	– –	-177	– –	–	352	909
Less than 0.31 percent sulfur	– –	– –	35	–	-81	– –	-42	– –	NA	NA	140
0.31 to 1.00 percent sulfur	– –	– –	371	7	-238	– –	-81	– –	NA	NA	182
Greater than 1.00 percent sulfur	– –	– –	569	25	-513	– –	-54	– –	NA	NA	587
Petrochemical Feedstocks	– –	– –	906	151	-40	– –	139	– –	–	878	635
Naphtha for Petro. Feed. Use	– –	– –	529	86	–	– –	150	– –	–	465	523
Other Oils for Petro. Feed. Use	– –	– –	377	65	-40	– –	-11	– –	–	413	112
Special Naphthas	– –	– –	-3	6	29	– –	7	– –	–	25	125
Lubricants	– –	– –	212	286	277	– –	-22	– –	196	601	746
Waxes	– –	– –	43	10	–	– –	8	– –	38	7	56
Petroleum Coke	– –	– –	5,461	8	-1,125	– –	-170	– –	110	4,404	3,360
Marketable	– –	– –	4,063	8	-1,125	– –	-170	– –	110	3,006	3,360
Catalyst	– –	– –	1,398	– –	– –	– –	– –	– –	– –	1,398	– –
Asphalt and Road Oil	– –	– –	4,975	912	-939	– –	1,533	– –	70	3,345	14,729
Still Gas	– –	– –	4,123	– –	– –	– –	– –	– –	– –	4,123	– –
Miscellaneous Products	– –	– –	488	–	13	– –	-10	– –	1	510	187
Total	**89,374**	**31,833**	**137,544**	**92,996**	**-65,864**	**1,576**	**-12,405**	**131,047**	**12,235**	**156,583**	**290,142**

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
2 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.
3 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. 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 biofuels 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 biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Data source: Energy Information Administration (EIA) 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 Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 10. PAD District 2 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-March 2023
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry)[1]	Net Receipts[2]	Adjust-ments[3]	Stock Change[4]	Refinery and Blender Net Inputs	Exports	Products Supplied[5]	
Crude Oil	**155,085**	**– –**	**– –**	**264,356**	**-61,284**	**1,789**	**14,775**	**337,057**	**8,114**	**0**	**121,415**
Hydrocarbon Gas Liquids	**98,811**	**-1,986**	**5,442**	**6,767**	**-45,616**	**– –**	**-15,488**	**10,381**	**19,520**	**49,005**	**36,858**
Natural Gas Liquids	98,811	-1,986	2,251	5,908	-43,582	– –	-15,436	10,381	19,520	46,937	36,527
Ethane	34,897	– –	–	–	-18,390	– –	762	– –	6,199	9,546	6,957
Propane	35,124	– –	6,779	3,820	-30,918	– –	-11,063	– –	355	25,513	11,963
Normal Butane	11,379	–	-3,949	1,413	-12,011	– –	-5,107	2,649	280	-990	4,979
Isobutane	6,269	–	-579	668	714	– –	294	5,125	5	1,648	2,323
Natural Gasoline	11,142	-1,986	– –	7	17,024	– –	-322	2,607	12,682	11,220	10,305
Refinery Olefins	– –	– –	3,191	859	-2,034	– –	-52	– –	– –	2,068	331
Ethylene	– –	– –	–	–	–	– –	–	– –	– –	–	–
Propylene	– –	– –	3,151	499	-2,034	– –	-72	– –	– –	1,688	300
Normal Butylene	– –	– –	40	360	–	– –	20	– –	– –	380	31
Isobutylene	– –	– –	–	–	–	– –	0	– –	– –	0	0
Other Liquids	**– –**	**94,616**	**– –**	**2,173**	**-46,831**	**-12,795**	**3,346**	**22,049**	**10,167**	**1,601**	**71,485**
Hydrogen/Biofuels/Other Hydrocarbons	– –	94,620	– –	301	-57,331	-3,973	796	25,323	2,864	4,634	12,039
Hydrogen	– –	– –	– –	–	– –	3,600	– –	3,600	– –	0	– –
Biofuels (including Fuel Ethanol)	– –	94,620	– –	301	-57,331	-7,611	786	21,695	2,864	4,634	12,019
Fuel Ethanol	– –	85,958	– –	–	-54,539	-7,611	451	20,761	2,596	0	10,447
Biofuels (excluding Fuel Ethanol)[6]	– –	8,662	– –	301	-2,791	– –	336	934	268	4,634	1,572
Other Hydrocarbons	– –	– –	– –	–	–	38	10	28	–	0	20
Unfinished Oils	– –	– –	– –	–	-2,232	– –	-57	-6,279	7,136	-3,032	13,516
Motor Gasoline Blend.Comp. (MGBC)	– –	-3	– –	1,872	12,732	-8,822	2,607	3,005	167	0	45,929
Reformulated	– –	0	– –	–	1,440	3,601	1,332	3,709	–	0	5,667
Conventional	– –	-3	– –	1,872	11,292	-12,423	1,275	-704	167	0	40,262
Aviation Gasoline Blend. Comp.	– –	– –	– –	–	–	– –	–	–	–	–	–
Finished Petroleum Products	**– –**	**387**	**382,770**	**4,707**	**-3,385**	**16,433**	**5,163**	**– –**	**1,879**	**393,870**	**60,385**
Finished Motor Gasoline	– –	395	208,437	–	329	16,433	286	– –	654	224,654	3,548
Reformulated	– –	–	29,402	–	–	-3,130	–	– –	–	26,272	–
Conventional	– –	395	179,035	–	329	19,563	286	– –	654	198,382	3,548
Finished Aviation Gasoline	– –	– –	18	12	70	– –	-22	– –	–	122	181
Kerosene-Type Jet Fuel	– –	–	22,054	–	1,152	– –	-311	– –	87	23,430	6,491
Kerosene	– –	–	336	–	–	– –	16	– –	3	317	114
Distillate Fuel Oil	– –	-8	102,123	910	4,080	– –	448	– –	131	106,526	29,304
15 ppm sulfur and under	– –	-8	102,200	851	3,860	– –	666	– –	6	106,231	28,720
Greater than 15 ppm to 500 ppm sulfur	– –	0	344	12	220	– –	-99	– –	27	648	298
Greater than 500 ppm sulfur	– –	–	-421	47	–	– –	-119	– –	98	-353	286
Residual Fuel Oil	– –	– –	2,763	222	-2,577	– –	-279	– –	0	687	909
Less than 0.31 percent sulfur	– –	– –	172	–	-260	– –	-79	– –	NA	NA	140
0.31 to 1.00 percent sulfur	– –	– –	1,197	22	-710	– –	-62	– –	NA	NA	182
Greater than 1.00 percent sulfur	– –	– –	1,394	200	-1,607	– –	-138	– –	NA	NA	587
Petrochemical Feedstocks	– –	– –	2,364	497	-172	– –	107	– –	–	2,582	635
Naphtha for Petro. Feed. Use	– –	– –	1,237	279	-132	– –	130	– –	–	1,254	523
Other Oils for Petro. Feed. Use	– –	– –	1,127	218	-40	– –	-23	– –	–	1,328	112
Special Naphthas	– –	– –	-19	10	75	– –	7	– –	–	59	125
Lubricants	– –	– –	597	745	561	– –	24	– –	529	1,350	746
Waxes	– –	– –	121	37	–	– –	9	– –	117	32	56
Petroleum Coke	– –	– –	16,108	36	-3,434	– –	741	– –	175	11,794	3,360
Marketable	– –	– –	12,214	36	-3,434	– –	741	– –	175	7,900	3,360
Catalyst	– –	– –	3,894	– –	– –	– –	– –	– –	– –	3,894	– –
Asphalt and Road Oil	– –	– –	14,412	2,238	-3,496	– –	4,082	– –	177	8,895	14,729
Still Gas	– –	– –	11,987	– –	– –	– –	– –	– –	– –	11,987	– –
Miscellaneous Products	– –	– –	1,469	–	27	– –	55	– –	7	1,434	187
Total	**253,896**	**93,017**	**388,212**	**278,003**	**-157,116**	**5,427**	**7,796**	**369,487**	**39,680**	**444,476**	**290,142**

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
2 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.
3 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. 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 biofuels 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 biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Data source: Energy Information Administration (EIA) 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 Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 11. PAD District 2 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, March 2023
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry)[1]	Net Receipts[2]	Adjust-ments[3]	Stock Change[4]	Refinery and Blender Net Inputs	Exports	Products Supplied[5]
Crude Oil	**1,733**	**– –**	**– –**	**2,860**	**-997**	**12**	**-200**	**3,741**	**67**	**0**
Hydrocarbon Gas Liquids	**1,150**	**-22**	**107**	**65**	**-597**	**– –**	**-83**	**101**	**194**	**491**
Natural Gas Liquids	1,150	-22	70	55	-571	– –	-83	101	194	469
Ethane	436	– –	–	–	-254	– –	14	– –	62	105
Propane	392	– –	78	31	-359	– –	-90	– –	5	227
Normal Butane	129	–	-2	13	-149	– –	-3	16	2	-24
Isobutane	68	–	-7	11	2	– –	-4	55	0	23
Natural Gasoline	125	-22	– –	0	189	– –	-1	30	125	137
Refinery Olefins	– –	– –	38	10	-26	– –	0	– –	– –	22
Ethylene	– –	– –	–	–	–	– –	–	– –	– –	–
Propylene	– –	– –	37	5	-26	– –	-1	– –	– –	17
Normal Butylene	– –	– –	1	5	–	– –	1	– –	– –	5
Isobutylene	– –	– –	–	–	–	– –	0	– –	– –	0
Other Liquids	**– –**	**1,044**	**– –**	**21**	**-553**	**-79**	**-95**	**385**	**109**	**34**
Hydrogen/Biofuels/Other Hydrocarbons	– –	1,044	– –	4	-669	-10	-4	287	34	53
Hydrogen	– –	– –	– –	–	– –	38	– –	38	– –	0
Biofuels (including Fuel Ethanol)	– –	1,044	– –	4	-669	-48	-4	248	34	53
Fuel Ethanol	– –	947	– –	–	-637	-48	-4	237	29	0
Biofuels (excluding Fuel Ethanol)[6]	– –	97	– –	4	-32	– –	0	11	5	53
Other Hydrocarbons	– –	– –	– –	–	–	0	0	0	–	0
Unfinished Oils	– –	– –	– –	–	-16	– –	-1	-72	74	-19
Motor Gasoline Blend.Comp. (MGBC)	– –	0	– –	17	133	-69	-90	170	0	0
Reformulated	– –	0	– –	–	4	70	28	45	–	0
Conventional	– –	0	– –	17	129	-139	-118	125	0	0
Aviation Gasoline Blend. Comp.	– –	– –	– –	–	–	– –	–	–	–	–
Finished Petroleum Products	**– –**	**5**	**4,329**	**54**	**23**	**118**	**-22**	**– –**	**24**	**4,526**
Finished Motor Gasoline	– –	5	2,401	–	9	118	4	– –	9	2,520
Reformulated	– –	–	334	–	–	-65	–	– –	–	269
Conventional	– –	5	2,067	–	9	183	4	– –	9	2,251
Finished Aviation Gasoline	– –	– –	–	0	1	– –	-1	– –	–	2
Kerosene-Type Jet Fuel	– –	–	269	–	9	– –	-15	– –	1	292
Kerosene	– –	–	1	–	–	– –	0	– –	0	1
Distillate Fuel Oil	– –	0	1,105	8	88	– –	-52	– –	1	1,252
15 ppm sulfur and under	– –	0	1,099	7	86	– –	-52	– –	0	1,244
Greater than 15 ppm to 500 ppm sulfur	– –	0	6	0	2	– –	1	– –	0	8
Greater than 500 ppm sulfur	– –	–	-1	1	–	– –	-1	– –	1	1
Residual Fuel Oil	– –	– –	31	1	-27	– –	-6	– –	–	11
Less than 0.31 percent sulfur	– –	– –	1	–	-3	– –	-1	– –	NA	NA
0.31 to 1.00 percent sulfur	– –	– –	12	0	-8	– –	-3	– –	NA	NA
Greater than 1.00 percent sulfur	– –	– –	18	1	-17	– –	-2	– –	NA	NA
Petrochemical Feedstocks	– –	– –	29	5	-1	– –	4	– –	–	28
Naphtha for Petro. Feed. Use	– –	– –	17	3	–	– –	5	– –	–	15
Other Oils for Petro. Feed. Use	– –	– –	12	2	-1	– –	0	– –	–	13
Special Naphthas	– –	– –	0	0	1	– –	0	– –	–	1
Lubricants	– –	– –	7	9	9	– –	-1	– –	6	19
Waxes	– –	– –	1	0	–	– –	0	– –	1	0
Petroleum Coke	– –	– –	176	0	-36	– –	-5	– –	4	142
Marketable	– –	– –	131	0	-36	– –	-5	– –	4	97
Catalyst	– –	– –	45	– –	– –	– –	– –	– –	– –	45
Asphalt and Road Oil	– –	– –	160	29	-30	– –	49	– –	2	108
Still Gas	– –	– –	133	– –	– –	– –	– –	– –	– –	133
Miscellaneous Products	– –	– –	16	–	0	– –	0	– –	0	16
Total	**2,883**	**1,027**	**4,437**	**3,000**	**-2,125**	**51**	**-400**	**4,227**	**395**	**5,051**

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
2 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.
3 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. 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 biofuels 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 biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Data source: Energy Information Administration (EIA) 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 Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 12. PAD District 2 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-March 2023
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry)[1]	Net Receipts[2]	Adjust-ments[3]	Stock Change[4]	Refinery and Blender Net Inputs	Exports	Products Supplied[5]
Crude Oil	**1,723**	**– –**	**– –**	**2,937**	**-681**	**20**	**164**	**3,745**	**90**	**0**
Hydrocarbon Gas Liquids	**1,098**	**-22**	**60**	**75**	**-507**	**– –**	**-172**	**115**	**217**	**544**
Natural Gas Liquids	1,098	-22	25	66	-484	– –	-172	115	217	522
Ethane	388	– –	–	–	-204	– –	8	– –	69	106
Propane	390	– –	75	42	-344	– –	-123	– –	4	283
Normal Butane	126	–	-44	16	-133	– –	-57	29	3	-11
Isobutane	70	–	-6	7	8	– –	3	57	0	18
Natural Gasoline	124	-22	– –	0	189	– –	-4	29	141	125
Refinery Olefins	– –	– –	35	10	-23	– –	-1	– –	– –	23
Ethylene	– –	– –	–	–	–	– –	–	– –	– –	–
Propylene	– –	– –	35	6	-23	– –	-1	– –	– –	19
Normal Butylene	– –	– –	0	4	–	– –	0	– –	– –	4
Isobutylene	– –	– –	–	–	–	– –	0	– –	– –	0
Other Liquids	**– –**	**1,051**	**– –**	**24**	**-520**	**-142**	**37**	**245**	**113**	**18**
Hydrogen/Biofuels/Other Hydrocarbons	– –	1,051	– –	3	-637	-44	9	281	32	51
Hydrogen	– –	– –	– –	–	– –	40	– –	40	– –	0
Biofuels (including Fuel Ethanol)	– –	1,051	– –	3	-637	-85	9	241	32	51
Fuel Ethanol	– –	955	– –	–	-606	-85	5	231	29	0
Biofuels (excluding Fuel Ethanol)[6]	– –	96	– –	3	-31	– –	4	10	3	51
Other Hydrocarbons	– –	– –	– –	–	–	0	0	0	–	0
Unfinished Oils	– –	– –	– –	–	-25	– –	-1	-70	79	-34
Motor Gasoline Blend.Comp. (MGBC)	– –	0	– –	21	141	-98	29	33	2	0
Reformulated	– –	0	– –	–	16	40	15	41	–	0
Conventional	– –	0	– –	21	125	-138	14	-8	2	0
Aviation Gasoline Blend. Comp.	– –	– –	– –	–	–	– –	–	–	–	–
Finished Petroleum Products	**– –**	**4**	**4,253**	**52**	**-38**	**183**	**57**	**– –**	**21**	**4,376**
Finished Motor Gasoline	– –	4	2,316	–	4	183	3	– –	7	2,496
Reformulated	– –	–	327	–	–	-35	–	– –	–	292
Conventional	– –	4	1,989	–	4	217	3	– –	7	2,204
Finished Aviation Gasoline	– –	– –	0	0	1	– –	0	– –	–	1
Kerosene-Type Jet Fuel	– –	–	245	–	13	– –	-3	– –	1	260
Kerosene	– –	–	4	–	–	– –	0	– –	0	4
Distillate Fuel Oil	– –	0	1,135	10	45	– –	5	– –	1	1,184
15 ppm sulfur and under	– –	0	1,136	9	43	– –	7	– –	0	1,180
Greater than 15 ppm to 500 ppm sulfur	– –	0	4	0	2	– –	-1	– –	0	7
Greater than 500 ppm sulfur	– –	–	-5	1	–	– –	-1	– –	1	-4
Residual Fuel Oil	– –	– –	31	2	-29	– –	-3	– –	0	8
Less than 0.31 percent sulfur	– –	– –	2	–	-3	– –	-1	– –	NA	NA
0.31 to 1.00 percent sulfur	– –	– –	13	0	-8	– –	-1	– –	NA	NA
Greater than 1.00 percent sulfur	– –	– –	15	2	-18	– –	-2	– –	NA	NA
Petrochemical Feedstocks	– –	– –	26	6	-2	– –	1	– –	–	29
Naphtha for Petro. Feed. Use	– –	– –	14	3	-1	– –	1	– –	–	14
Other Oils for Petro. Feed. Use	– –	– –	13	2	0	– –	0	– –	–	15
Special Naphthas	– –	– –	0	0	1	– –	0	– –	–	1
Lubricants	– –	– –	7	8	6	– –	0	– –	6	15
Waxes	– –	– –	1	0	–	– –	0	– –	1	0
Petroleum Coke	– –	– –	179	0	-38	– –	8	– –	2	131
Marketable	– –	– –	136	0	-38	– –	8	– –	2	88
Catalyst	– –	– –	43	– –	– –	– –	– –	– –	– –	43
Asphalt and Road Oil	– –	– –	160	25	-39	– –	45	– –	2	99
Still Gas	– –	– –	133	– –	– –	– –	– –	– –	– –	133
Miscellaneous Products	– –	– –	16	–	0	– –	1	– –	0	16
Total	**2,821**	**1,034**	**4,313**	**3,089**	**-1,746**	**60**	**87**	**4,105**	**441**	**4,939**

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
2 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.
3 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. 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 biofuels 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 biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Data source: Energy Information Administration (EIA) 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 Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 13. PAD District 3 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, March 2023
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry)[1]	Net Receipts[2]	Adjust-ments[3]	Stock Change[4]	Refinery and Blender Net Inputs	Exports	Products Supplied[5]	
Crude Oil[6]	**286,685**	**– –**	**– –**	**39,739**	**46,748**	**32,292**	**-1,743**	**261,316**	**145,891**	**0**	**632,963**
Hydrocarbon Gas Liquids	**118,034**	**-15**	**13,677**	**6**	**31,762**	**– –**	**3,576**	**11,615**	**70,862**	**77,412**	**121,674**
Natural Gas Liquids	118,034	-15	7,725	6	31,154	– –	3,450	11,615	70,862	70,978	120,436
Ethane	53,525	– –	265	–	18,141	– –	1,988	– –	12,272	57,671	45,297
Propane	34,912	– –	4,733	–	11,148	– –	-822	– –	46,795	4,820	36,654
Normal Butane	8,156	–	2,950	6	4,554	– –	643	3,270	11,532	222	18,247
Isobutane	9,910	–	-223	–	1,170	– –	897	4,466	174	5,320	8,720
Natural Gasoline	11,531	-15	– –	–	-3,859	– –	744	3,879	89	2,945	11,518
Refinery Olefins	– –	– –	5,952	–	608	– –	126	– –	– –	6,434	1,238
Ethylene	– –	– –	1	–	–	– –	0	– –	– –	1	0
Propylene	– –	– –	6,247	–	608	– –	400	– –	– –	6,455	802
Normal Butylene	– –	– –	-296	–	–	– –	-274	– –	– –	-22	436
Isobutylene	– –	– –	–	–	–	– –	0	– –	– –	0	0
Other Liquids	**– –**	**4,498**	**– –**	**16,656**	**-59,286**	**3,995**	**-279**	**-50,436**	**11,079**	**5,498**	**132,200**
Hydrogen/Biofuels/Other Hydrocarbons	– –	4,498	– –	271	5,308	3,421	263	8,321	1,935	2,979	6,969
Hydrogen	– –	– –	– –	–	– –	3,258	– –	3,258	– –	0	– –
Biofuels (including Fuel Ethanol)	– –	4,498	– –	271	5,308	163	263	5,063	1,935	2,979	6,969
Fuel Ethanol	– –	643	– –	–	5,558	163	-277	4,738	1,903	0	4,349
Biofuels (excluding Fuel Ethanol)[7]	– –	3,855	– –	271	-250	– –	540	325	32	2,979	2,619
Other Hydrocarbons	– –	– –	– –	–	–	–	–	–	–	–	–
Unfinished Oils	– –	– –	– –	14,843	600	– –	1,276	4,816	6,829	2,522	47,051
Motor Gasoline Blend.Comp. (MGBC)	– –	–	– –	1,542	-65,194	574	-1,815	-63,579	2,316	0	78,161
Reformulated	– –	–	– –	292	-7,869	5,048	1,516	-4,079	34	0	10,869
Conventional	– –	–	– –	1,250	-57,325	-4,474	-3,331	-59,500	2,282	0	67,292
Aviation Gasoline Blend. Comp.	– –	– –	– –	–	–	– –	-3	6	–	-3	19
Finished Petroleum Products	**– –**	**3**	**224,595**	**3,536**	**-43,254**	**-737**	**-3,912**	**– –**	**83,383**	**104,673**	**99,093**
Finished Motor Gasoline	– –	0	69,646	–	-1,838	-737	-1,878	– –	25,469	43,479	5,950
Reformulated	– –	–	14,829	–	–	-3,974	–	– –	–	10,855	–
Conventional	– –	0	54,817	–	-1,838	3,237	-1,878	– –	25,469	32,624	5,950
Finished Aviation Gasoline	– –	– –	137	–	-65	– –	-94	– –	–	166	530
Kerosene-Type Jet Fuel	– –	–	27,076	–	-14,791	– –	1,430	– –	5,613	5,242	12,327
Kerosene	– –	–	151	–	–	– –	111	– –	47	-7	521
Distillate Fuel Oil	– –	3	85,189	240	-27,819	– –	-2,331	– –	31,591	28,354	38,438
15 ppm sulfur and under	– –	4	78,838	240	-27,517	– –	-2,034	– –	27,077	26,521	32,635
Greater than 15 ppm to 500 ppm sulfur	– –	0	3,072	–	-76	– –	90	– –	3,150	-244	1,150
Greater than 500 ppm sulfur	– –	–	3,279	–	-226	– –	-388	– –	1,364	2,077	4,653
Residual Fuel Oil	– –	– –	4,343	1,328	832	– –	-582	– –	3,393	3,692	18,865
Less than 0.31 percent sulfur	– –	– –	1,114	–	81	– –	-83	– –	NA	NA	1,450
0.31 to 1.00 percent sulfur	– –	– –	1,120	–	238	– –	328	– –	NA	NA	5,195
Greater than 1.00 percent sulfur	– –	– –	2,109	1,328	513	– –	-827	– –	NA	NA	12,220
Petrochemical Feedstocks	– –	– –	6,386	354	40	– –	71	– –	2,174	4,535	2,273
Naphtha for Petro. Feed. Use	– –	– –	3,777	233	–	– –	20	– –	–	3,990	1,699
Other Oils for Petro. Feed. Use	– –	– –	2,609	121	40	– –	51	– –	2,174	545	574
Special Naphthas	– –	– –	921	490	-29	– –	-56	– –	–	1,438	760
Lubricants	– –	– –	3,162	844	-823	– –	-234	– –	3,225	192	9,227
Waxes	– –	– –	115	16	–	– –	-21	– –	21	131	261
Petroleum Coke	– –	– –	13,448	264	1,364	– –	-401	– –	11,442	4,034	3,194
Marketable	– –	– –	10,350	264	1,364	– –	-401	– –	11,442	936	3,194
Catalyst	– –	– –	3,098	– –	– –	– –	– –	– –	– –	3,098	– –
Asphalt and Road Oil	– –	– –	2,229	–	-112	– –	270	– –	327	1,520	6,261
Still Gas	– –	– –	10,288	– –	– –	– –	– –	– –	– –	10,288	– –
Miscellaneous Products	– –	– –	1,504	–	-13	– –	-197	– –	80	1,608	486
Total	**404,719**	**4,487**	**238,272**	**59,937**	**-24,030**	**35,550**	**-2,359**	**222,495**	**311,216**	**187,583**	**985,930**

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
2 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.
3 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. 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 biofuels 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 Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Data source: Energy Information Administration (EIA) 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 Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 14. PAD District 3 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-March 2023
(Thousand Barrels)

Commodity	Supply						Disposition				
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry)[1]	Net Receipts[2]	Adjust-ments[3]	Stock Change[4]	Refinery and Blender Net Inputs	Exports	Products Supplied[5]	Ending Stocks
Crude Oil[6]	**825,752**	**– –**	**– –**	**117,664**	**108,119**	**64,727**	**18,047**	**738,924**	**359,291**	**0**	**632,963**
Hydrocarbon Gas Liquids	**330,997**	**-44**	**32,476**	**9**	**76,066**	**– –**	**-17,381**	**40,320**	**195,844**	**220,721**	**121,674**
Natural Gas Liquids	330,997	-44	15,874	9	74,653	– –	-17,377	40,320	195,844	202,701	120,436
Ethane	149,116	– –	498	–	46,474	– –	-158	– –	31,446	164,800	45,297
Propane	98,526	– –	13,516	–	25,617	– –	-6,158	– –	127,291	16,526	36,654
Normal Butane	22,841	–	2,478	9	11,379	– –	-8,459	15,355	36,237	-6,426	18,247
Isobutane	28,207	–	-618	–	2,539	– –	-590	12,526	353	17,839	8,720
Natural Gasoline	32,307	-44	– –	–	-11,356	– –	-2,012	12,439	518	9,962	11,518
Refinery Olefins	– –	– –	16,602	–	1,413	– –	-4	– –	– –	18,019	1,238
Ethylene	– –	– –	4	–	–	– –	0	– –	– –	4	–
Propylene	– –	– –	17,182	–	1,413	– –	-3	– –	– –	18,598	802
Normal Butylene	– –	– –	-584	–	–	– –	-1	– –	– –	-583	436
Isobutylene	– –	– –	–	–	–	– –	0	– –	– –	0	0
Other Liquids	**– –**	**12,191**	**– –**	**44,826**	**-172,889**	**1,970**	**4,881**	**-158,590**	**25,749**	**14,058**	**132,200**
Hydrogen/Biofuels/Other Hydrocarbons	– –	12,191	– –	689	14,695	10,112	915	24,115	4,672	7,985	6,969
Hydrogen	– –	– –	– –	–	– –	9,972	– –	9,972	– –	0	– –
Biofuels (including Fuel Ethanol)	– –	12,191	– –	674	14,695	155	915	14,143	4,672	7,985	6,969
Fuel Ethanol	– –	1,945	– –	–	15,475	155	-137	13,095	4,617	0	4,349
Biofuels (excluding Fuel Ethanol)[7]	– –	10,246	– –	674	-780	– –	1,052	1,048	55	7,985	2,619
Other Hydrocarbons	– –	– –	– –	15	–	-15	–	–	–	0	–
Unfinished Oils	– –	– –	– –	40,025	2,355	– –	-593	20,784	16,085	6,104	47,051
Motor Gasoline Blend.Comp. (MGBC)	– –	–	– –	4,112	-189,939	-8,142	4,573	-203,534	4,992	0	78,161
Reformulated	– –	–	– –	292	-26,331	18,655	1,883	-9,376	109	0	10,869
Conventional	– –	–	– –	3,820	-163,608	-26,797	2,690	-194,158	4,883	0	67,292
Aviation Gasoline Blend. Comp.	– –	– –	– –	–	–	– –	-14	45	–	-31	19
Finished Petroleum Products	**– –**	**6**	**638,173**	**11,835**	**-131,432**	**7,987**	**1,127**	**– –**	**226,853**	**298,590**	**99,093**
Finished Motor Gasoline	– –	0	194,134	5	-5,865	7,987	-1,818	– –	72,231	125,848	5,950
Reformulated	– –	–	40,972	–	–	-15,991	–	– –	–	24,981	–
Conventional	– –	0	153,162	5	-5,865	23,978	-1,818	– –	72,231	100,867	5,950
Finished Aviation Gasoline	– –	– –	644	–	-356	– –	-21	– –	–	309	530
Kerosene-Type Jet Fuel	– –	–	76,612	–	-44,738	– –	2,732	– –	14,354	14,788	12,327
Kerosene	– –	–	540	–	-596	– –	112	– –	555	-723	521
Distillate Fuel Oil	– –	6	244,697	540	-83,903	– –	-121	– –	80,030	81,431	38,438
15 ppm sulfur and under	– –	6	227,793	540	-82,761	– –	-77	– –	67,869	77,786	32,635
Greater than 15 ppm to 500 ppm sulfur	– –	0	7,642	–	-220	– –	19	– –	7,800	-397	1,150
Greater than 500 ppm sulfur	– –	–	9,262	–	-922	– –	-63	– –	4,361	4,042	4,653
Residual Fuel Oil	– –	– –	11,785	5,543	2,577	– –	225	– –	9,231	10,449	18,865
Less than 0.31 percent sulfur	– –	– –	3,245	65	260	– –	-91	– –	NA	NA	1,450
0.31 to 1.00 percent sulfur	– –	– –	3,225	570	710	– –	968	– –	NA	NA	5,195
Greater than 1.00 percent sulfur	– –	– –	5,315	4,908	1,607	– –	-652	– –	NA	NA	12,220
Petrochemical Feedstocks	– –	– –	17,076	740	172	– –	413	– –	2,984	14,591	2,273
Naphtha for Petro. Feed. Use	– –	– –	10,365	409	132	– –	309	– –	–	10,597	1,699
Other Oils for Petro. Feed. Use	– –	– –	6,711	331	40	– –	104	– –	2,984	3,994	574
Special Naphthas	– –	– –	2,609	1,203	-75	– –	-6	– –	–	3,743	760
Lubricants	– –	– –	9,987	2,783	-2,076	– –	-831	– –	7,300	4,225	9,227
Waxes	– –	– –	325	24	–	– –	-72	– –	62	359	261
Petroleum Coke	– –	– –	39,376	997	3,377	– –	300	– –	38,586	4,864	3,194
Marketable	– –	– –	30,768	997	3,377	– –	300	– –	38,586	-3,744	3,194
Catalyst	– –	– –	8,608	– –	– –	– –	– –	– –	– –	8,608	– –
Asphalt and Road Oil	– –	– –	6,248	–	78	– –	331	– –	1,325	4,670	6,261
Still Gas	– –	– –	29,608	– –	– –	– –	– –	– –	– –	29,608	– –
Miscellaneous Products	– –	– –	4,532	–	-27	– –	-117	– –	194	4,428	486
Total	**1,156,749**	**12,153**	**670,649**	**174,334**	**-120,135**	**74,684**	**6,674**	**620,654**	**807,737**	**533,369**	**985,930**

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
2 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.
3 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. 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 biofuels 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 Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Data source: Energy Information Administration (EIA) 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 Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 15. PAD District 3 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, March 2023
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry)[1]	Net Receipts[2]	Adjust-ments[3]	Stock Change[4]	Refinery and Blender Net Inputs	Exports	Products Supplied[5]
Crude Oil[6]	**9,248**	**– –**	**– –**	**1,282**	**1,508**	**1,042**	**-56**	**8,430**	**4,706**	**0**
Hydrocarbon Gas Liquids	**3,808**	**0**	**441**	**0**	**1,025**	**– –**	**115**	**375**	**2,286**	**2,497**
Natural Gas Liquids	3,808	0	249	0	1,005	– –	111	375	2,286	2,290
Ethane	1,727	– –	9	–	585	– –	64	– –	396	1,860
Propane	1,126	– –	153	–	360	– –	-27	– –	1,510	155
Normal Butane	263	–	95	0	147	– –	21	105	372	7
Isobutane	320	–	-7	–	38	– –	29	144	6	172
Natural Gasoline	372	0	– –	–	-124	– –	24	125	3	95
Refinery Olefins	– –	– –	192	–	20	– –	4	– –	– –	208
Ethylene	– –	– –	0	–	–	– –	0	– –	– –	0
Propylene	– –	– –	202	–	20	– –	13	– –	– –	208
Normal Butylene	– –	– –	-10	–	–	– –	-9	– –	– –	-1
Isobutylene	– –	– –	–	–	–	– –	0	– –	– –	0
Other Liquids	**– –**	**145**	**– –**	**537**	**-1,912**	**129**	**-9**	**-1,627**	**357**	**177**
Hydrogen/Biofuels/Other Hydrocarbons	– –	145	– –	9	171	110	8	268	62	96
Hydrogen	– –	– –	– –	–	– –	105	– –	105	– –	0
Biofuels (including Fuel Ethanol)	– –	145	– –	9	171	5	8	163	62	96
Fuel Ethanol	– –	21	– –	–	179	5	-9	153	61	0
Biofuels (excluding Fuel Ethanol)[7]	– –	124	– –	9	-8	– –	17	10	1	96
Other Hydrocarbons	– –	– –	– –	–	–	–	–	–	–	–
Unfinished Oils	– –	– –	– –	479	19	– –	41	155	220	81
Motor Gasoline Blend.Comp. (MGBC)	– –	–	– –	50	-2,103	19	-59	-2,051	75	0
Reformulated	– –	–	– –	9	-254	163	49	-132	1	0
Conventional	– –	–	– –	40	-1,849	-144	-107	-1,919	74	0
Aviation Gasoline Blend. Comp.	– –	– –	– –	–	–	– –	0	0	–	0
Finished Petroleum Products	**– –**	**0**	**7,245**	**114**	**-1,395**	**-24**	**-126**	**– –**	**2,690**	**3,377**
Finished Motor Gasoline	– –	0	2,247	–	-59	-24	-61	– –	822	1,403
Reformulated	– –	–	478	–	–	-128	–	– –	–	350
Conventional	– –	0	1,768	–	-59	104	-61	– –	822	1,052
Finished Aviation Gasoline	– –	– –	4	–	-2	– –	-3	– –	–	5
Kerosene-Type Jet Fuel	– –	–	873	–	-477	– –	46	– –	181	169
Kerosene	– –	–	5	–	–	– –	4	– –	2	0
Distillate Fuel Oil	– –	0	2,748	8	-897	– –	-75	– –	1,019	915
15 ppm sulfur and under	– –	0	2,543	8	-888	– –	-66	– –	873	856
Greater than 15 ppm to 500 ppm sulfur	– –	0	99	–	-2	– –	3	– –	102	-8
Greater than 500 ppm sulfur	– –	–	106	–	-7	– –	-13	– –	44	67
Residual Fuel Oil	– –	– –	140	43	27	– –	-19	– –	109	119
Less than 0.31 percent sulfur	– –	– –	36	–	3	– –	-3	– –	NA	NA
0.31 to 1.00 percent sulfur	– –	– –	36	–	8	– –	11	– –	NA	NA
Greater than 1.00 percent sulfur	– –	– –	68	43	17	– –	-27	– –	NA	NA
Petrochemical Feedstocks	– –	– –	206	11	1	– –	2	– –	70	146
Naphtha for Petro. Feed. Use	– –	– –	122	8	–	– –	1	– –	–	129
Other Oils for Petro. Feed. Use	– –	– –	84	4	1	– –	2	– –	70	18
Special Naphthas	– –	– –	30	16	-1	– –	-2	– –	–	46
Lubricants	– –	– –	102	27	-27	– –	-8	– –	104	6
Waxes	– –	– –	4	1	–	– –	-1	– –	1	4
Petroleum Coke	– –	– –	434	9	44	– –	-13	– –	369	130
Marketable	– –	– –	334	9	44	– –	-13	– –	369	30
Catalyst	– –	– –	100	– –	– –	– –	– –	– –	– –	100
Asphalt and Road Oil	– –	– –	72	–	-4	– –	9	– –	11	49
Still Gas	– –	– –	332	– –	– –	– –	– –	– –	– –	332
Miscellaneous Products	– –	– –	49	–	0	– –	-6	– –	3	52
Total	**13,055**	**145**	**7,686**	**1,933**	**-775**	**1,147**	**-76**	**7,177**	**10,039**	**6,051**

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
2 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.
3 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. 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 biofuels 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 Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Data source: Energy Information Administration (EIA) 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 Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 16. PAD District 3 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-March 2023
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry)[1]	Net Receipts[2]	Adjust-ments[3]	Stock Change[4]	Refinery and Blender Net Inputs	Exports	Products Supplied[5]
Crude Oil[6]	**9,175**	**– –**	**– –**	**1,307**	**1,201**	**719**	**201**	**8,210**	**3,992**	**0**
Hydrocarbon Gas Liquids	**3,678**	**0**	**361**	**0**	**845**	**– –**	**-193**	**448**	**2,176**	**2,452**
Natural Gas Liquids	3,678	0	176	0	829	– –	-193	448	2,176	2,252
Ethane	1,657	– –	6	–	516	– –	-2	– –	349	1,831
Propane	1,095	– –	150	–	285	– –	-68	– –	1,414	184
Normal Butane	254	–	28	0	126	– –	-94	171	403	-71
Isobutane	313	–	-7	–	28	– –	-7	139	4	198
Natural Gasoline	359	0	– –	–	-126	– –	-22	138	6	111
Refinery Olefins	– –	– –	184	–	16	– –	0	– –	– –	200
Ethylene	– –	– –	0	–	–	– –	0	– –	– –	0
Propylene	– –	– –	191	–	16	– –	0	– –	– –	207
Normal Butylene	– –	– –	-6	–	–	– –	0	– –	– –	-6
Isobutylene	– –	– –	–	–	–	– –	0	– –	– –	0
Other Liquids	**– –**	**135**	**– –**	**498**	**-1,921**	**22**	**54**	**-1,762**	**286**	**156**
Hydrogen/Biofuels/Other Hydrocarbons	– –	135	– –	8	163	112	10	268	52	89
Hydrogen	– –	– –	– –	–	– –	111	– –	111	– –	0
Biofuels (including Fuel Ethanol)	– –	135	– –	7	163	2	10	157	52	89
Fuel Ethanol	– –	22	– –	–	172	2	-2	146	51	0
Biofuels (excluding Fuel Ethanol)[7]	– –	114	– –	7	-9	– –	12	12	1	89
Other Hydrocarbons	– –	– –	– –	0	–	0	–	–	–	0
Unfinished Oils	– –	– –	– –	445	26	– –	-7	231	179	68
Motor Gasoline Blend.Comp. (MGBC)	– –	–	– –	46	-2,110	-90	51	-2,261	55	0
Reformulated	– –	–	– –	3	-293	207	21	-104	1	0
Conventional	– –	–	– –	42	-1,818	-298	30	-2,157	54	0
Aviation Gasoline Blend. Comp.	– –	– –	– –	–	–	– –	0	1	–	0
Finished Petroleum Products	**– –**	**0**	**7,091**	**132**	**-1,460**	**89**	**13**	**– –**	**2,521**	**3,318**
Finished Motor Gasoline	– –	0	2,157	0	-65	89	-20	– –	803	1,398
Reformulated	– –	–	455	–	–	-178	–	– –	–	278
Conventional	– –	0	1,702	0	-65	266	-20	– –	803	1,121
Finished Aviation Gasoline	– –	– –	7	–	-4	– –	0	– –	–	3
Kerosene-Type Jet Fuel	– –	–	851	–	-497	– –	30	– –	159	164
Kerosene	– –	–	6	–	-7	– –	1	– –	6	-8
Distillate Fuel Oil	– –	0	2,719	6	-932	– –	-1	– –	889	905
15 ppm sulfur and under	– –	0	2,531	6	-920	– –	-1	– –	754	864
Greater than 15 ppm to 500 ppm sulfur	– –	0	85	–	-2	– –	0	– –	87	-4
Greater than 500 ppm sulfur	– –	–	103	–	-10	– –	-1	– –	48	45
Residual Fuel Oil	– –	– –	131	62	29	– –	3	– –	103	116
Less than 0.31 percent sulfur	– –	– –	36	1	3	– –	-1	– –	NA	NA
0.31 to 1.00 percent sulfur	– –	– –	36	6	8	– –	11	– –	NA	NA
Greater than 1.00 percent sulfur	– –	– –	59	55	18	– –	-7	– –	NA	NA
Petrochemical Feedstocks	– –	– –	190	8	2	– –	5	– –	33	162
Naphtha for Petro. Feed. Use	– –	– –	115	5	1	– –	3	– –	–	118
Other Oils for Petro. Feed. Use	– –	– –	75	4	0	– –	1	– –	33	44
Special Naphthas	– –	– –	29	13	-1	– –	0	– –	–	42
Lubricants	– –	– –	111	31	-23	– –	-9	– –	81	47
Waxes	– –	– –	4	0	–	– –	-1	– –	1	4
Petroleum Coke	– –	– –	438	11	38	– –	3	– –	429	54
Marketable	– –	– –	342	11	38	– –	3	– –	429	-42
Catalyst	– –	– –	96	– –	– –	– –	– –	– –	– –	96
Asphalt and Road Oil	– –	– –	69	–	1	– –	4	– –	15	52
Still Gas	– –	– –	329	– –	– –	– –	– –	– –	– –	329
Miscellaneous Products	– –	– –	50	–	0	– –	-1	– –	2	49
Total	**12,853**	**135**	**7,452**	**1,937**	**-1,335**	**830**	**74**	**6,896**	**8,975**	**5,926**

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
2 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.
3 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. 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 biofuels 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 Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Data source: Energy Information Administration (EIA) 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 Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 17. PAD District 4 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, March 2023
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry)[1]	Net Receipts[2]	Adjust-ments[3]	Stock Change[4]	Refinery and Blender Net Inputs	Exports	Products Supplied[5]	
Crude Oil	**27,935**	**– –**	**– –**	**12,376**	**-20,339**	**-2,136**	**1,073**	**16,763**	**–**	**0**	**25,799**
Hydrocarbon Gas Liquids	**15,878**	**-8**	**323**	**801**	**-14,600**	**– –**	**137**	**541**	**8**	**1,709**	**5,441**
Natural Gas Liquids	15,878	-8	204	801	-14,600	– –	97	541	8	1,630	5,350
Ethane	4,978	– –	–	–	-4,909	– –	68	– –	–	1	1,157
Propane	5,640	– –	195	800	-4,984	– –	-101	– –	2	1,750	1,826
Normal Butane	2,195	–	-8	1	-2,018	– –	162	190	0	-182	1,158
Isobutane	989	–	17	–	-921	– –	-5	176	–	-86	437
Natural Gasoline	2,076	-8	– –	–	-1,768	– –	-27	175	6	146	772
Refinery Olefins	– –	– –	119	–	–	– –	40	– –	– –	79	91
Ethylene	– –	– –	–	–	–	– –	–	– –	– –	–	–
Propylene	– –	– –	51	–	–	– –	1	– –	– –	50	3
Normal Butylene	– –	– –	68	–	–	– –	39	– –	– –	29	88
Isobutylene	– –	– –	–	–	–	– –	0	– –	– –	0	0
Other Liquids	**– –**	**724**	**– –**	**143**	**1,166**	**161**	**53**	**1,507**	**37**	**597**	**10,300**
Hydrogen/Biofuels/Other Hydrocarbons	– –	724	– –	14	376	373	-66	1,127	37	389	629
Hydrogen	– –	– –	– –	–	– –	202	– –	202	– –	0	– –
Biofuels (including Fuel Ethanol)	– –	724	– –	14	376	171	-66	925	37	389	629
Fuel Ethanol	– –	322	– –	–	355	171	-57	867	37	0	361
Biofuels (excluding Fuel Ethanol)[6]	– –	402	– –	14	21	– –	-10	58	–	389	268
Other Hydrocarbons	– –	– –	– –	–	–	–	–	–	–	–	–
Unfinished Oils	– –	– –	– –	–	–	– –	-175	-33	–	208	3,206
Motor Gasoline Blend.Comp. (MGBC)	– –	–	– –	129	790	-212	294	413	–	0	6,465
Reformulated	– –	–	– –	–	–	–	–	–	–	–	–
Conventional	– –	–	– –	129	790	-212	294	413	–	0	6,465
Aviation Gasoline Blend. Comp.	– –	– –	– –	–	–	– –	–	–	–	–	–
Finished Petroleum Products	**– –**	**-1**	**19,358**	**232**	**-345**	**41**	**-306**	**– –**	**17**	**19,574**	**9,051**
Finished Motor Gasoline	– –	–	9,920	–	-302	41	-106	– –	1	9,765	1,379
Reformulated	– –	–	–	–	–	–	0	– –	–	0	–
Conventional	– –	–	9,920	–	-302	41	-106	– –	1	9,765	1,378
Finished Aviation Gasoline	– –	– –	6	–	–	– –	1	– –	–	5	9
Kerosene-Type Jet Fuel	– –	–	1,071	76	816	– –	-118	– –	–	2,081	628
Kerosene	– –	–	–	–	–	– –	0	– –	–	0	1
Distillate Fuel Oil	– –	-1	5,734	49	-26	– –	-455	– –	–	6,211	4,059
15 ppm sulfur and under	– –	-1	5,721	49	-26	– –	-399	– –	–	6,142	3,870
Greater than 15 ppm to 500 ppm sulfur	– –	–	17	–	–	– –	-52	– –	–	69	136
Greater than 500 ppm sulfur	– –	–	-4	–	–	– –	-4	– –	–	0	53
Residual Fuel Oil	– –	– –	320	4	–	– –	-30	– –	–	354	229
Less than 0.31 percent sulfur	– –	– –	163	–	–	– –	-1	– –	NA	NA	25
0.31 to 1.00 percent sulfur	– –	– –	34	4	–	– –	-1	– –	NA	NA	5
Greater than 1.00 percent sulfur	– –	– –	123	–	–	– –	-28	– –	NA	NA	199
Petrochemical Feedstocks	– –	– –	–	–	–	– –	–	– –	–	–	–
Naphtha for Petro. Feed. Use	– –	– –	–	–	–	– –	–	– –	–	–	–
Other Oils for Petro. Feed. Use	– –	– –	–	–	–	– –	–	– –	–	–	–
Special Naphthas	– –	– –	–	–	–	– –	–	– –	–	–	–
Lubricants	– –	– –	–	–	–	– –	–	– –	14	-14	–
Waxes	– –	– –	–	–	–	– –	–	– –	0	0	–
Petroleum Coke	– –	– –	686	–	-422	– –	18	– –	–	246	132
Marketable	– –	– –	501	–	-422	– –	18	– –	–	61	132
Catalyst	– –	– –	185	– –	– –	– –	– –	– –	– –	185	– –
Asphalt and Road Oil	– –	– –	868	103	-411	– –	383	– –	2	175	2,600
Still Gas	– –	– –	650	– –	– –	– –	– –	– –	– –	650	– –
Miscellaneous Products	– –	– –	103	–	–	– –	1	– –	–	102	14
Total	**43,813**	**716**	**19,681**	**13,552**	**-34,118**	**-1,934**	**957**	**18,811**	**62**	**21,880**	**50,592**

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
2 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.
3 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. 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 biofuels 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 biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Data source: Energy Information Administration (EIA) 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 Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 18. PAD District 4 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-March 2023
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry)[1]	Net Receipts[2]	Adjust-ments[3]	Stock Change[4]	Refinery and Blender Net Inputs	Exports	Products Supplied[5]	
Crude Oil	**78,848**	**– –**	**– –**	**38,192**	**-63,144**	**-6,538**	**1,378**	**45,980**	**–**	**0**	**25,799**
Hydrocarbon Gas Liquids	**43,570**	**-22**	**411**	**2,762**	**-40,270**	**– –**	**-678**	**1,633**	**25**	**5,472**	**5,441**
Natural Gas Liquids	43,570	-22	299	2,761	-40,270	– –	-691	1,633	25	5,372	5,350
Ethane	13,030	– –	–	–	-12,872	– –	121	– –	0	37	1,157
Propane	15,670	– –	518	2,658	-13,961	– –	-571	– –	3	5,453	1,826
Normal Butane	6,189	–	-178	99	-5,895	– –	-253	679	0	-211	1,158
Isobutane	2,758	–	-41	–	-2,561	– –	12	439	–	-295	437
Natural Gasoline	5,923	-22	– –	4	-4,981	– –	0	515	21	388	772
Refinery Olefins	– –	– –	112	1	–	– –	13	– –	– –	100	91
Ethylene	– –	– –	–	–	–	– –	–	– –	– –	–	–
Propylene	– –	– –	45	1	–	– –	-7	– –	– –	53	3
Normal Butylene	– –	– –	67	–	–	– –	20	– –	– –	47	88
Isobutylene	– –	– –	–	–	–	– –	0	– –	– –	0	0
Other Liquids	**– –**	**2,118**	**– –**	**414**	**3,519**	**498**	**594**	**4,238**	**90**	**1,628**	**10,300**
Hydrogen/Biofuels/Other Hydrocarbons	– –	2,118	– –	34	1,316	910	49	3,104	89	1,137	629
Hydrogen	– –	– –	– –	–	– –	562	– –	562	– –	0	– –
Biofuels (including Fuel Ethanol)	– –	2,118	– –	34	1,316	348	49	2,542	89	1,137	629
Fuel Ethanol	– –	907	– –	–	1,259	348	19	2,406	89	0	361
Biofuels (excluding Fuel Ethanol)[6]	– –	1,211	– –	34	58	– –	30	136	–	1,137	268
Other Hydrocarbons	– –	– –	– –	–	–	–	–	–	–	–	–
Unfinished Oils	– –	– –	– –	–	–	– –	211	-702	0	491	3,206
Motor Gasoline Blend.Comp. (MGBC)	– –	–	– –	380	2,203	-411	334	1,836	2	0	6,465
Reformulated	– –	–	– –	–	–	–	–	–	–	–	–
Conventional	– –	–	– –	380	2,203	-411	334	1,836	2	0	6,465
Aviation Gasoline Blend. Comp.	– –	– –	– –	–	–	– –	–	–	–	–	–
Finished Petroleum Products	**– –**	**-2**	**53,910**	**494**	**165**	**64**	**1,111**	**– –**	**56**	**53,465**	**9,051**
Finished Motor Gasoline	– –	–	27,897	–	-795	64	93	– –	2	27,071	1,379
Reformulated	– –	–	–	–	–	–	1	– –	–	-1	–
Conventional	– –	–	27,897	–	-795	64	92	– –	2	27,072	1,378
Finished Aviation Gasoline	– –	– –	12	–	–	– –	0	– –	–	12	9
Kerosene-Type Jet Fuel	– –	–	2,466	130	2,657	– –	-127	– –	–	5,380	628
Kerosene	– –	–	–	–	–	– –	-1	– –	–	1	1
Distillate Fuel Oil	– –	-2	16,101	85	246	– –	365	– –	0	16,065	4,059
15 ppm sulfur and under	– –	-2	15,945	85	246	– –	372	– –	0	15,902	3,870
Greater than 15 ppm to 500 ppm sulfur	– –	–	152	–	–	– –	-12	– –	–	164	136
Greater than 500 ppm sulfur	– –	–	4	–	–	– –	5	– –	–	-1	53
Residual Fuel Oil	– –	– –	950	15	–	– –	19	– –	–	946	229
Less than 0.31 percent sulfur	– –	– –	493	11	–	– –	-1	– –	NA	NA	25
0.31 to 1.00 percent sulfur	– –	– –	71	4	–	– –	1	– –	NA	NA	5
Greater than 1.00 percent sulfur	– –	– –	386	–	–	– –	19	– –	NA	NA	199
Petrochemical Feedstocks	– –	– –	–	–	–	– –	–	– –	–	–	–
Naphtha for Petro. Feed. Use	– –	– –	–	–	–	– –	–	– –	–	–	–
Other Oils for Petro. Feed. Use	– –	– –	–	–	–	– –	–	– –	–	–	–
Special Naphthas	– –	– –	–	1	–	– –	–	– –	–	1	–
Lubricants	– –	– –	–	–	–	– –	–	– –	47	-47	–
Waxes	– –	– –	–	–	–	– –	–	– –	1	-1	–
Petroleum Coke	– –	– –	2,121	–	-866	– –	35	– –	0	1,220	132
Marketable	– –	– –	1,539	–	-866	– –	35	– –	0	638	132
Catalyst	– –	– –	582	– –	– –	– –	– –	– –	– –	582	– –
Asphalt and Road Oil	– –	– –	2,189	263	-1,077	– –	729	– –	5	640	2,600
Still Gas	– –	– –	1,873	– –	– –	– –	– –	– –	– –	1,873	– –
Miscellaneous Products	– –	– –	301	–	–	– –	-2	– –	–	303	14
Total	**122,418**	**2,094**	**54,321**	**41,862**	**-99,729**	**-5,976**	**2,404**	**51,851**	**171**	**60,564**	**50,592**

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
2 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.
3 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. 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 biofuels 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 biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Data source: Energy Information Administration (EIA) 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 Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 19. PAD District 4 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, March 2023
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry)[1]	Net Receipts[2]	Adjust-ments[3]	Stock Change[4]	Refinery and Blender Net Inputs	Exports	Products Supplied[5]
Crude Oil	**901**	**– –**	**– –**	**399**	**-656**	**-69**	**35**	**541**	**–**	**0**
Hydrocarbon Gas Liquids	**512**	**0**	**10**	**26**	**-471**	**– –**	**4**	**17**	**0**	**55**
Natural Gas Liquids	512	0	7	26	-471	– –	3	17	0	53
Ethane	161	– –	–	–	-158	– –	2	– –	–	0
Propane	182	– –	6	26	-161	– –	-3	– –	0	56
Normal Butane	71	–	0	0	-65	– –	5	6	0	-6
Isobutane	32	–	1	–	-30	– –	0	6	–	-3
Natural Gasoline	67	0	– –	–	-57	– –	-1	6	0	5
Refinery Olefins	– –	– –	4	–	–	– –	1	– –	– –	3
Ethylene	– –	– –	–	–	–	– –	–	– –	– –	–
Propylene	– –	– –	2	–	–	– –	0	– –	– –	2
Normal Butylene	– –	– –	2	–	–	– –	1	– –	– –	1
Isobutylene	– –	– –	–	–	–	– –	0	– –	– –	0
Other Liquids	**– –**	**23**	**– –**	**5**	**38**	**5**	**2**	**49**	**1**	**19**
Hydrogen/Biofuels/Other Hydrocarbons	– –	23	– –	0	12	12	-2	36	1	13
Hydrogen	– –	– –	– –	–	– –	7	– –	7	– –	0
Biofuels (including Fuel Ethanol)	– –	23	– –	0	12	6	-2	30	1	13
Fuel Ethanol	– –	10	– –	–	11	6	-2	28	1	0
Biofuels (excluding Fuel Ethanol)[6]	– –	13	– –	0	1	– –	0	2	–	13
Other Hydrocarbons	– –	– –	– –	–	–	–	–	–	–	–
Unfinished Oils	– –	– –	– –	–	–	– –	-6	-1	–	7
Motor Gasoline Blend.Comp. (MGBC)	– –	–	– –	4	25	-7	9	13	–	0
Reformulated	– –	–	– –	–	–	–	–	–	–	–
Conventional	– –	–	– –	4	25	-7	9	13	–	0
Aviation Gasoline Blend. Comp.	– –	– –	– –	–	–	– –	–	–	–	–
Finished Petroleum Products	**– –**	**0**	**624**	**7**	**-11**	**1**	**-10**	**– –**	**1**	**631**
Finished Motor Gasoline	– –	–	320	–	-10	1	-3	– –	0	315
Reformulated	– –	–	–	–	–	–	0	– –	–	0
Conventional	– –	–	320	–	-10	1	-3	– –	0	315
Finished Aviation Gasoline	– –	– –	0	–	–	– –	0	– –	–	0
Kerosene-Type Jet Fuel	– –	–	35	2	26	– –	-4	– –	–	67
Kerosene	– –	–	–	–	–	– –	0	– –	–	0
Distillate Fuel Oil	– –	0	185	2	-1	– –	-15	– –	–	200
15 ppm sulfur and under	– –	0	185	2	-1	– –	-13	– –	–	198
Greater than 15 ppm to 500 ppm sulfur	– –	–	1	–	–	– –	-2	– –	–	2
Greater than 500 ppm sulfur	– –	–	0	–	–	– –	0	– –	–	0
Residual Fuel Oil	– –	– –	10	0	–	– –	-1	– –	–	11
Less than 0.31 percent sulfur	– –	– –	5	–	–	– –	0	– –	NA	NA
0.31 to 1.00 percent sulfur	– –	– –	1	0	–	– –	0	– –	NA	NA
Greater than 1.00 percent sulfur	– –	– –	4	–	–	– –	-1	– –	NA	NA
Petrochemical Feedstocks	– –	– –	–	–	–	– –	–	– –	–	–
Naphtha for Petro. Feed. Use	– –	– –	–	–	–	– –	–	– –	–	–
Other Oils for Petro. Feed. Use	– –	– –	–	–	–	– –	–	– –	–	–
Special Naphthas	– –	– –	–	–	–	– –	–	– –	–	–
Lubricants	– –	– –	–	–	–	– –	–	– –	0	0
Waxes	– –	– –	–	–	–	– –	–	– –	0	0
Petroleum Coke	– –	– –	22	–	-14	– –	1	– –	–	8
Marketable	– –	– –	16	–	-14	– –	1	– –	–	2
Catalyst	– –	– –	6	– –	– –	– –	– –	– –	– –	6
Asphalt and Road Oil	– –	– –	28	3	-13	– –	12	– –	0	6
Still Gas	– –	– –	21	– –	– –	– –	– –	– –	– –	21
Miscellaneous Products	– –	– –	3	–	–	– –	0	– –	–	3
Total	**1,413**	**23**	**635**	**437**	**-1,101**	**-62**	**31**	**607**	**2**	**706**

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
2 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.
3 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. 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 biofuels 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 biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Data source: Energy Information Administration (EIA) 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 Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 20. PAD District 4 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-March 2023
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry)[1]	Net Receipts[2]	Adjust-ments[3]	Stock Change[4]	Refinery and Blender Net Inputs	Exports	Products Supplied[5]
Crude Oil	**876**	**– –**	**– –**	**424**	**-702**	**-73**	**15**	**511**	**–**	**0**
Hydrocarbon Gas Liquids	**484**	**0**	**5**	**31**	**-447**	**– –**	**-8**	**18**	**0**	**61**
Natural Gas Liquids	484	0	3	31	-447	– –	-8	18	0	60
Ethane	145	– –	–	–	-143	– –	1	– –	0	0
Propane	174	– –	6	30	-155	– –	-6	– –	0	61
Normal Butane	69	–	-2	1	-65	– –	-3	8	0	-2
Isobutane	31	–	0	–	-28	– –	0	5	–	-3
Natural Gasoline	66	0	– –	0	-55	– –	0	6	0	4
Refinery Olefins	– –	– –	1	0	–	– –	0	– –	– –	1
Ethylene	– –	– –	–	–	–	– –	–	– –	– –	–
Propylene	– –	– –	1	0	–	– –	0	– –	– –	1
Normal Butylene	– –	– –	1	–	–	– –	0	– –	– –	1
Isobutylene	– –	– –	–	–	–	– –	0	– –	– –	0
Other Liquids	**– –**	**24**	**– –**	**5**	**39**	**6**	**7**	**47**	**1**	**18**
Hydrogen/Biofuels/Other Hydrocarbons	– –	24	– –	0	15	10	1	34	1	13
Hydrogen	– –	– –	– –	–	– –	6	– –	6	– –	0
Biofuels (including Fuel Ethanol)	– –	24	– –	0	15	4	1	28	1	13
Fuel Ethanol	– –	10	– –	–	14	4	0	27	1	0
Biofuels (excluding Fuel Ethanol)[6]	– –	13	– –	0	1	– –	0	2	–	13
Other Hydrocarbons	– –	– –	– –	–	–	–	–	–	–	–
Unfinished Oils	– –	– –	– –	–	–	– –	2	-8	0	5
Motor Gasoline Blend.Comp. (MGBC)	– –	–	– –	4	24	-5	4	20	0	0
Reformulated	– –	–	– –	–	–	–	–	–	–	–
Conventional	– –	–	– –	4	24	-5	4	20	0	0
Aviation Gasoline Blend. Comp.	– –	– –	– –	–	–	– –	–	–	–	–
Finished Petroleum Products	**– –**	**0**	**599**	**5**	**2**	**1**	**12**	**– –**	**1**	**594**
Finished Motor Gasoline	– –	–	310	–	-9	1	1	– –	0	301
Reformulated	– –	–	–	–	–	–	0	– –	–	0
Conventional	– –	–	310	–	-9	1	1	– –	0	301
Finished Aviation Gasoline	– –	– –	0	–	–	– –	0	– –	–	0
Kerosene-Type Jet Fuel	– –	–	27	1	30	– –	-1	– –	–	60
Kerosene	– –	–	–	–	–	– –	0	– –	–	0
Distillate Fuel Oil	– –	0	179	1	3	– –	4	– –	0	179
15 ppm sulfur and under	– –	0	177	1	3	– –	4	– –	0	177
Greater than 15 ppm to 500 ppm sulfur	– –	–	2	–	–	– –	0	– –	–	2
Greater than 500 ppm sulfur	– –	–	0	–	–	– –	0	– –	–	0
Residual Fuel Oil	– –	– –	11	0	–	– –	0	– –	–	11
Less than 0.31 percent sulfur	– –	– –	5	0	–	– –	0	– –	NA	NA
0.31 to 1.00 percent sulfur	– –	– –	1	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	– –	– –	–	0	–	– –	–	– –	–	0
Lubricants	– –	– –	–	–	–	– –	–	– –	1	-1
Waxes	– –	– –	–	–	–	– –	–	– –	0	0
Petroleum Coke	– –	– –	24	–	-10	– –	0	– –	0	14
Marketable	– –	– –	17	–	-10	– –	0	– –	0	7
Catalyst	– –	– –	6	– –	– –	– –	– –	– –	– –	6
Asphalt and Road Oil	– –	– –	24	3	-12	– –	8	– –	0	7
Still Gas	– –	– –	21	– –	– –	– –	– –	– –	– –	21
Miscellaneous Products	– –	– –	3	–	–	– –	0	– –	–	3
Total	**1,360**	**23**	**604**	**465**	**-1,108**	**-66**	**27**	**576**	**2**	**673**

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
2 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.
3 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. 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 biofuels 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 biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Data source: Energy Information Administration (EIA) 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 Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 21. PAD District 5 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, March 2023
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry)[1]	Net Receipts[2]	Adjust-ments[3]	Stock Change[4]	Refinery and Blender Net Inputs	Exports	Products Supplied[5]	
Crude Oil	**23,140**	**– –**	**– –**	**38,229**	**2,451**	**3,216**	**115**	**65,867**	**1,053**	**0**	**49,402**
Hydrocarbon Gas Liquids	**2,135**	**-3**	**2,061**	**1,803**	**788**	**– –**	**-357**	**2,352**	**2,623**	**2,166**	**2,496**
Natural Gas Liquids	2,135	-3	1,908	1,803	788	– –	-271	2,352	2,623	1,927	2,462
Ethane	1	– –	–	–	–	– –	–	– –	–	1	–
Propane	228	– –	919	1,159	429	– –	-373	– –	1,393	1,715	416
Normal Butane	616	–	711	643	298	– –	48	608	1,225	386	1,592
Isobutane	201	–	278	1	62	– –	50	716	3	-227	428
Natural Gasoline	1,089	-3	– –	–	–	– –	4	1,028	2	52	26
Refinery Olefins	– –	– –	153	–	–	– –	-86	– –	– –	239	34
Ethylene	– –	– –	–	–	–	– –	–	– –	– –	–	–
Propylene	– –	– –	170	–	–	– –	-4	– –	– –	174	16
Normal Butylene	– –	– –	-17	–	–	– –	-82	– –	– –	65	18
Isobutylene	– –	– –	–	–	–	– –	0	– –	– –	0	0
Other Liquids	**– –**	**1,275**	**– –**	**4,136**	**9,696**	**-775**	**675**	**11,449**	**445**	**1,763**	**55,645**
Hydrogen/Biofuels/Other Hydrocarbons	– –	1,276	– –	857	5,420	1,386	-206	6,749	217	2,179	5,684
Hydrogen	– –	– –	– –	–	– –	1,335	– –	1,335	– –	0	– –
Biofuels (including Fuel Ethanol)	– –	1,276	– –	857	5,420	51	-206	5,414	217	2,179	5,684
Fuel Ethanol	– –	86	– –	–	4,419	51	-110	4,513	153	0	2,341
Biofuels (excluding Fuel Ethanol)[6]	– –	1,190	– –	857	1,001	– –	-96	901	64	2,179	3,342
Other Hydrocarbons	– –	– –	– –	–	–	–	–	–	–	–	–
Unfinished Oils	– –	– –	– –	76	-70	– –	373	7	41	-415	20,850
Motor Gasoline Blend.Comp. (MGBC)	– –	-1	– –	3,203	4,346	-2,161	508	4,693	186	0	29,112
Reformulated	– –	0	– –	316	1,521	245	263	1,818	1	0	13,634
Conventional	– –	-1	– –	2,887	2,825	-2,406	245	2,875	185	0	15,477
Aviation Gasoline Blend. Comp.	– –	– –	– –	–	–	– –	–	–	–	–	–
Finished Petroleum Products	**– –**	**60**	**82,215**	**4,791**	**1,869**	**2,110**	**809**	**– –**	**9,606**	**80,628**	**35,507**
Finished Motor Gasoline	– –	57	43,821	1,019	75	2,110	151	– –	591	46,340	2,040
Reformulated	– –	–	30,735	–	–	379	0	– –	–	31,114	16
Conventional	– –	57	13,086	1,019	75	1,731	151	– –	591	15,226	2,024
Finished Aviation Gasoline	– –	– –	10	1	–	– –	-80	– –	–	91	221
Kerosene-Type Jet Fuel	– –	5	12,964	3,262	265	– –	322	– –	853	15,321	9,358
Kerosene	– –	–	2	–	–	– –	-2	– –	0	4	9
Distillate Fuel Oil	– –	-2	14,209	308	1,091	– –	706	– –	2,652	12,249	13,416
15 ppm sulfur and under	– –	-2	13,332	308	1,091	– –	409	– –	1,907	12,413	12,324
Greater than 15 ppm to 500 ppm sulfur	– –	–	459	–	–	– –	195	– –	193	71	389
Greater than 500 ppm sulfur	– –	–	418	–	–	– –	102	– –	552	-236	703
Residual Fuel Oil	– –	– –	2,163	–	–	– –	-362	– –	1,508	1,017	4,709
Less than 0.31 percent sulfur	– –	– –	53	–	–	– –	132	– –	NA	NA	1,082
0.31 to 1.00 percent sulfur	– –	– –	614	–	–	– –	-53	– –	NA	NA	741
Greater than 1.00 percent sulfur	– –	– –	1,496	–	–	– –	-441	– –	NA	NA	2,886
Petrochemical Feedstocks	– –	– –	38	–	–	– –	–	– –	–	38	–
Naphtha for Petro. Feed. Use	– –	– –	–	–	–	– –	–	– –	–	–	–
Other Oils for Petro. Feed. Use	– –	– –	38	–	–	– –	–	– –	–	38	–
Special Naphthas	– –	– –	28	23	–	– –	28	– –	–	23	55
Lubricants	– –	– –	294	67	-80	– –	-182	– –	323	140	1,172
Waxes	– –	– –	–	7	–	– –	–	– –	5	2	–
Petroleum Coke	– –	– –	3,877	–	73	– –	144	– –	3,647	159	1,244
Marketable	– –	– –	3,084	–	73	– –	144	– –	3,647	-634	1,244
Catalyst	– –	– –	793	– –	– –	– –	– –	– –	– –	793	– –
Asphalt and Road Oil	– –	– –	680	104	445	– –	94	– –	28	1,107	3,216
Still Gas	– –	– –	3,739	– –	– –	– –	– –	– –	– –	3,739	– –
Miscellaneous Products	– –	– –	390	–	–	– –	-9	– –	0	399	67
Total	**25,275**	**1,332**	**84,276**	**48,959**	**14,804**	**4,551**	**1,242**	**79,668**	**13,728**	**84,558**	**143,050**

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
2 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.
3 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. 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 biofuels 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 biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Data source: Energy Information Administration (EIA) 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 Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 22. PAD District 5 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-March 2023
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry)[1]	Net Receipts[2]	Adjust-ments[3]	Stock Change[4]	Refinery and Blender Net Inputs	Exports	Products Supplied[5]	
Crude Oil	**68,072**	**– –**	**– –**	**105,803**	**8,846**	**2,956**	**1,400**	**183,224**	**1,053**	**0**	**49,402**
Hydrocarbon Gas Liquids	**6,284**	**-9**	**2,747**	**5,184**	**3,622**	**– –**	**-1,360**	**7,609**	**5,234**	**6,346**	**2,496**
Natural Gas Liquids	6,284	-9	2,300	5,184	3,622	– –	-1,377	7,609	5,234	5,916	2,462
Ethane	3	– –	–	–	–	– –	–	– –	–	3	–
Propane	681	– –	2,397	3,595	1,361	– –	-1,064	– –	3,068	6,030	416
Normal Butane	1,763	–	-444	1,578	1,886	– –	-441	2,472	2,113	639	1,592
Isobutane	641	–	347	11	375	– –	124	2,106	4	-860	428
Natural Gasoline	3,196	-9	– –	–	–	– –	4	3,031	48	104	26
Refinery Olefins	– –	– –	447	–	–	– –	17	– –	– –	430	34
Ethylene	– –	– –	–	–	–	– –	–	– –	– –	–	–
Propylene	– –	– –	490	–	–	– –	2	– –	– –	488	16
Normal Butylene	– –	– –	-43	–	–	– –	15	– –	– –	-58	18
Isobutylene	– –	– –	–	–	–	– –	0	– –	– –	0	0
Other Liquids	**– –**	**3,138**	**– –**	**10,544**	**27,995**	**-239**	**1,103**	**33,791**	**1,422**	**5,121**	**55,645**
Hydrogen/Biofuels/Other Hydrocarbons	– –	3,139	– –	2,242	14,458	5,194	-31	18,960	848	5,256	5,684
Hydrogen	– –	– –	– –	–	– –	3,659	– –	3,659	– –	0	– –
Biofuels (including Fuel Ethanol)	– –	3,139	– –	2,242	14,458	1,535	-31	15,301	848	5,256	5,684
Fuel Ethanol	– –	241	– –	–	11,586	1,535	-226	12,889	699	0	2,341
Biofuels (excluding Fuel Ethanol)[6]	– –	2,898	– –	2,242	2,872	– –	195	2,412	149	5,256	3,342
Other Hydrocarbons	– –	– –	– –	–	–	–	–	–	–	–	–
Unfinished Oils	– –	– –	– –	3,839	-70	– –	2,374	1,448	81	-134	20,850
Motor Gasoline Blend.Comp. (MGBC)	– –	-1	– –	4,463	13,607	-5,433	-1,240	13,383	492	0	29,112
Reformulated	– –	0	– –	458	5,242	558	-1,719	7,974	3	0	13,634
Conventional	– –	-1	– –	4,005	8,365	-5,991	479	5,409	489	0	15,477
Aviation Gasoline Blend. Comp.	– –	– –	– –	–	–	– –	–	–	–	–	–
Finished Petroleum Products	**– –**	**170**	**235,452**	**13,618**	**5,736**	**3,898**	**873**	**– –**	**26,879**	**231,122**	**35,507**
Finished Motor Gasoline	– –	165	126,131	1,480	220	3,898	-162	– –	2,722	129,334	2,040
Reformulated	– –	–	88,054	–	–	511	1	– –	–	88,564	16
Conventional	– –	165	38,077	1,480	220	3,387	-163	– –	2,722	40,770	2,024
Finished Aviation Gasoline	– –	– –	11	2	–	– –	-116	– –	–	129	221
Kerosene-Type Jet Fuel	– –	9	36,788	8,682	681	– –	428	– –	2,485	43,247	9,358
Kerosene	– –	–	8	–	–	– –	6	– –	1	1	9
Distillate Fuel Oil	– –	-4	40,603	1,208	3,444	– –	118	– –	7,930	37,202	13,416
15 ppm sulfur and under	– –	-4	38,265	1,208	3,444	– –	-50	– –	5,937	37,025	12,324
Greater than 15 ppm to 500 ppm sulfur	– –	–	991	–	–	– –	157	– –	506	328	389
Greater than 500 ppm sulfur	– –	–	1,347	–	–	– –	11	– –	1,487	-151	703
Residual Fuel Oil	– –	– –	6,491	1,559	–	– –	-381	– –	2,632	5,799	4,709
Less than 0.31 percent sulfur	– –	– –	148	240	–	– –	381	– –	NA	NA	1,082
0.31 to 1.00 percent sulfur	– –	– –	1,811	1,282	–	– –	-113	– –	NA	NA	741
Greater than 1.00 percent sulfur	– –	– –	4,532	37	–	– –	-649	– –	NA	NA	2,886
Petrochemical Feedstocks	– –	– –	38	66	–	– –	–	– –	50	54	–
Naphtha for Petro. Feed. Use	– –	– –	–	66	–	– –	–	– –	–	66	–
Other Oils for Petro. Feed. Use	– –	– –	38	–	–	– –	–	– –	50	-12	–
Special Naphthas	– –	– –	61	97	–	– –	23	– –	–	135	55
Lubricants	– –	– –	1,197	112	-80	– –	145	– –	626	458	1,172
Waxes	– –	– –	–	26	–	– –	–	– –	14	12	–
Petroleum Coke	– –	– –	10,774	–	98	– –	-20	– –	10,341	551	1,244
Marketable	– –	– –	8,375	–	98	– –	-20	– –	10,341	-1,848	1,244
Catalyst	– –	– –	2,399	– –	– –	– –	– –	– –	– –	2,399	– –
Asphalt and Road Oil	– –	– –	2,013	386	1,373	– –	843	– –	77	2,852	3,216
Still Gas	– –	– –	10,202	– –	– –	– –	– –	– –	– –	10,202	– –
Miscellaneous Products	– –	– –	1,135	–	–	– –	-11	– –	0	1,146	67
Total	**74,356**	**3,299**	**238,199**	**135,149**	**46,199**	**6,615**	**2,016**	**224,624**	**34,588**	**242,589**	**143,050**

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
2 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.
3 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. 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 biofuels 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 biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Data source: Energy Information Administration (EIA) 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 Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 23. PAD District 5 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, March 2023
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry)[1]	Net Receipts[2]	Adjust-ments[3]	Stock Change[4]	Refinery and Blender Net Inputs	Exports	Products Supplied[5]
Crude Oil	**746**	**– –**	**– –**	**1,233**	**79**	**104**	**4**	**2,125**	**34**	**0**
Hydrocarbon Gas Liquids	**69**	**0**	**66**	**58**	**25**	**– –**	**-12**	**76**	**85**	**70**
Natural Gas Liquids	69	0	62	58	25	– –	-9	76	85	62
Ethane	0	– –	–	–	–	– –	–	– –	–	0
Propane	7	– –	30	37	14	– –	-12	– –	45	55
Normal Butane	20	–	23	21	10	– –	2	20	40	12
Isobutane	6	–	9	0	2	– –	2	23	0	-7
Natural Gasoline	35	0	– –	–	–	– –	0	33	0	2
Refinery Olefins	– –	– –	5	–	–	– –	-3	– –	– –	8
Ethylene	– –	– –	–	–	–	– –	–	– –	– –	–
Propylene	– –	– –	5	–	–	– –	0	– –	– –	6
Normal Butylene	– –	– –	-1	–	–	– –	-3	– –	– –	2
Isobutylene	– –	– –	–	–	–	– –	0	– –	– –	0
Other Liquids	**– –**	**41**	**– –**	**133**	**313**	**-25**	**22**	**369**	**14**	**57**
Hydrogen/Biofuels/Other Hydrocarbons	– –	41	– –	28	175	45	-7	218	7	70
Hydrogen	– –	– –	– –	–	– –	43	– –	43	– –	0
Biofuels (including Fuel Ethanol)	– –	41	– –	28	175	2	-7	175	7	70
Fuel Ethanol	– –	3	– –	–	143	2	-4	146	5	0
Biofuels (excluding Fuel Ethanol)[6]	– –	38	– –	28	32	– –	-3	29	2	70
Other Hydrocarbons	– –	– –	– –	–	–	–	–	–	–	–
Unfinished Oils	– –	– –	– –	2	-2	– –	12	0	1	-13
Motor Gasoline Blend.Comp. (MGBC)	– –	0	– –	103	140	-70	16	151	6	0
Reformulated	– –	0	– –	10	49	8	8	59	0	0
Conventional	– –	0	– –	93	91	-78	8	93	6	0
Aviation Gasoline Blend. Comp.	– –	– –	– –	–	–	– –	–	–	–	–
Finished Petroleum Products	**– –**	**2**	**2,652**	**155**	**60**	**68**	**26**	**– –**	**310**	**2,601**
Finished Motor Gasoline	– –	2	1,414	33	2	68	5	– –	19	1,495
Reformulated	– –	–	991	–	–	12	0	– –	–	1,004
Conventional	– –	2	422	33	2	56	5	– –	19	491
Finished Aviation Gasoline	– –	– –	0	0	–	– –	-3	– –	–	3
Kerosene-Type Jet Fuel	– –	0	418	105	9	– –	10	– –	28	494
Kerosene	– –	–	0	–	–	– –	0	– –	0	0
Distillate Fuel Oil	– –	0	458	10	35	– –	23	– –	86	395
15 ppm sulfur and under	– –	0	430	10	35	– –	13	– –	62	400
Greater than 15 ppm to 500 ppm sulfur	– –	–	15	–	–	– –	6	– –	6	2
Greater than 500 ppm sulfur	– –	–	13	–	–	– –	3	– –	18	-8
Residual Fuel Oil	– –	– –	70	–	–	– –	-12	– –	49	33
Less than 0.31 percent sulfur	– –	– –	2	–	–	– –	4	– –	NA	NA
0.31 to 1.00 percent sulfur	– –	– –	20	–	–	– –	-2	– –	NA	NA
Greater than 1.00 percent sulfur	– –	– –	48	–	–	– –	-14	– –	NA	NA
Petrochemical Feedstocks	– –	– –	1	–	–	– –	–	– –	–	1
Naphtha for Petro. Feed. Use	– –	– –	–	–	–	– –	–	– –	–	–
Other Oils for Petro. Feed. Use	– –	– –	1	–	–	– –	–	– –	–	1
Special Naphthas	– –	– –	1	1	–	– –	1	– –	–	1
Lubricants	– –	– –	9	2	-3	– –	-6	– –	10	5
Waxes	– –	– –	–	0	–	– –	–	– –	0	0
Petroleum Coke	– –	– –	125	–	2	– –	5	– –	118	5
Marketable	– –	– –	99	–	2	– –	5	– –	118	-20
Catalyst	– –	– –	26	– –	– –	– –	– –	– –	– –	26
Asphalt and Road Oil	– –	– –	22	3	14	– –	3	– –	1	36
Still Gas	– –	– –	121	– –	– –	– –	– –	– –	– –	121
Miscellaneous Products	– –	– –	13	–	–	– –	0	– –	0	13
Total	**815**	**43**	**2,719**	**1,579**	**478**	**147**	**40**	**2,570**	**443**	**2,728**

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
2 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.
3 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. 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 biofuels 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 biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Data source: Energy Information Administration (EIA) 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 Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 24. PAD District 5 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-March 2023
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry)[1]	Net Receipts[2]	Adjust-ments[3]	Stock Change[4]	Refinery and Blender Net Inputs	Exports	Products Supplied[5]
Crude Oil	**756**	**– –**	**– –**	**1,176**	**98**	**33**	**16**	**2,036**	**12**	**0**
Hydrocarbon Gas Liquids	**70**	**0**	**31**	**58**	**40**	**– –**	**-15**	**85**	**58**	**71**
Natural Gas Liquids	70	0	26	58	40	– –	-15	85	58	66
Ethane	0	– –	–	–	–	– –	–	– –	–	0
Propane	8	– –	27	40	15	– –	-12	– –	34	67
Normal Butane	20	–	-5	18	21	– –	-5	27	23	7
Isobutane	7	–	4	0	4	– –	1	23	0	-10
Natural Gasoline	36	0	– –	–	–	– –	0	34	1	1
Refinery Olefins	– –	– –	5	–	–	– –	0	– –	– –	5
Ethylene	– –	– –	–	–	–	– –	–	– –	– –	–
Propylene	– –	– –	5	–	–	– –	0	– –	– –	5
Normal Butylene	– –	– –	0	–	–	– –	0	– –	– –	-1
Isobutylene	– –	– –	–	–	–	– –	0	– –	– –	0
Other Liquids	**– –**	**35**	**– –**	**117**	**311**	**-3**	**12**	**375**	**16**	**57**
Hydrogen/Biofuels/Other Hydrocarbons	– –	35	– –	25	161	58	0	211	9	58
Hydrogen	– –	– –	– –	–	– –	41	– –	41	– –	0
Biofuels (including Fuel Ethanol)	– –	35	– –	25	161	17	0	170	9	58
Fuel Ethanol	– –	3	– –	–	129	17	-3	143	8	0
Biofuels (excluding Fuel Ethanol)[6]	– –	32	– –	25	32	– –	2	27	2	58
Other Hydrocarbons	– –	– –	– –	–	–	–	–	–	–	–
Unfinished Oils	– –	– –	– –	43	-1	– –	26	16	1	-1
Motor Gasoline Blend.Comp. (MGBC)	– –	0	– –	50	151	-60	-14	149	5	0
Reformulated	– –	0	– –	5	58	6	-19	89	0	0
Conventional	– –	0	– –	45	93	-67	5	60	5	0
Aviation Gasoline Blend. Comp.	– –	– –	– –	–	–	– –	–	–	–	–
Finished Petroleum Products	**– –**	**2**	**2,616**	**151**	**64**	**43**	**10**	**– –**	**299**	**2,568**
Finished Motor Gasoline	– –	2	1,401	16	2	43	-2	– –	30	1,437
Reformulated	– –	–	978	–	–	6	0	– –	–	984
Conventional	– –	2	423	16	2	38	-2	– –	30	453
Finished Aviation Gasoline	– –	– –	0	0	–	– –	-1	– –	–	1
Kerosene-Type Jet Fuel	– –	0	409	96	8	– –	5	– –	28	481
Kerosene	– –	–	0	–	–	– –	0	– –	0	0
Distillate Fuel Oil	– –	0	451	13	38	– –	1	– –	88	413
15 ppm sulfur and under	– –	0	425	13	38	– –	-1	– –	66	411
Greater than 15 ppm to 500 ppm sulfur	– –	–	11	–	–	– –	2	– –	6	4
Greater than 500 ppm sulfur	– –	–	15	–	–	– –	0	– –	17	-2
Residual Fuel Oil	– –	– –	72	17	–	– –	-4	– –	29	64
Less than 0.31 percent sulfur	– –	– –	2	3	–	– –	4	– –	NA	NA
0.31 to 1.00 percent sulfur	– –	– –	20	14	–	– –	-1	– –	NA	NA
Greater than 1.00 percent sulfur	– –	– –	50	0	–	– –	-7	– –	NA	NA
Petrochemical Feedstocks	– –	– –	0	1	–	– –	–	– –	1	1
Naphtha for Petro. Feed. Use	– –	– –	–	1	–	– –	–	– –	–	1
Other Oils for Petro. Feed. Use	– –	– –	0	–	–	– –	–	– –	1	0
Special Naphthas	– –	– –	1	1	–	– –	0	– –	–	2
Lubricants	– –	– –	13	1	-1	– –	2	– –	7	5
Waxes	– –	– –	–	0	–	– –	–	– –	0	0
Petroleum Coke	– –	– –	120	–	1	– –	0	– –	115	6
Marketable	– –	– –	93	–	1	– –	0	– –	115	-21
Catalyst	– –	– –	27	– –	– –	– –	– –	– –	– –	27
Asphalt and Road Oil	– –	– –	22	4	15	– –	9	– –	1	32
Still Gas	– –	– –	113	– –	– –	– –	– –	– –	– –	113
Miscellaneous Products	– –	– –	13	–	–	– –	0	– –	0	13
Total	**826**	**37**	**2,647**	**1,502**	**513**	**74**	**22**	**2,496**	**384**	**2,695**

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
2 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.
3 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. 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 biofuels 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 biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Data source: Energy Information Administration (EIA) 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 Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 25. Crude Oil Supply, Disposition, and Ending Stocks by PAD District, March 2023
(Thousand Barrels, Except Where Noted)

Process	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Supply							
Field Production	2,074	53,728	286,685	27,935	23,140	393,561	12,696
Alaskan	– –	– –	– –	– –	– –	13,492	435
Lower 48 States	– –	– –	– –	– –	– –	380,070	12,260
Imports (PAD District of Entry)	16,154	88,662	39,739	12,376	38,229	195,160	6,295
Commercial	16,154	88,662	39,739	12,376	38,229	195,160	6,295
Strategic Petroleum Reserve (SPR)	–	–	–	–	–	–	–
Net Receipts	2,039	-30,899	46,748	-20,339	2,451	–	–
Adjustments[1]	-1,592	384	32,292	-2,136	3,216	32,165	1,038
Disposition							
Stock Change[2]	-584	-6,185	-1,743	1,073	115	-7,324	-236
Commercial	-584	-6,185	-1,339	1,073	115	-6,920	-223
SPR	–	–	-404	–	–	-404	-13
Refinery Inputs	19,259	115,973	261,316	16,763	65,867	479,178	15,457
Exports	–	2,088	145,891	–	1,053	149,032	4,807
Ending Stocks							
Total	7,033	121,415	632,963	25,799	49,402	836,612	– –
Commercial	7,033	121,415	261,788	25,799	49,402	465,437	– –
Refinery	5,434	13,139	44,926	2,554	20,726	86,779	– –
Tank Farms and Pipelines	1,599	108,276	216,862	23,245	23,726	373,708	– –
Cushing, Oklahoma	– –	33,857	– –	– –	– –	33,857	– –
Lease	– –	– –	– –	– –	– –	– –	– –
Alaskan Crude Oil In-Transit by Water	– –	– –	– –	– –	4,950	4,950	– –
SPR	–	–	371,175	–	–	371,175	– –
SPR Stocks							
Percent of Total Crude Oil Stocks (Percent)	– –	– –	– –	– –	– –	44.4	– –
Percent of Total Petroleum Stocks (Percent)	– –	– –	– –	– –	– –	23.2	– –
Days of Total Petroleum Net Imports (Days)	– –	– –	– –	– –	– –	– –	– –
SPR Receipts Detail							
Receipts	–	–	–	–	–	–	–
Domestic	–	–	–	–	–	–	–
Imports	–	–	–	–	–	–	–
Imported by SPR	–	–	–	–	–	–	–
Imported for SPR by Others	–	–	–	–	–	–	–
Imports							
PAD District of Entry	16,154	88,662	39,739	12,376	38,229	195,160	6,295
PAD District of Processing	16,177	86,683	45,622	8,153	38,525	195,160	6,295

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

Table 26. Production of Crude Oil by PAD District and State, March 2023
(Thousand Barrels)

PAD District and State	March 2023		January-March 2023	
	Total	Daily Average	Total	Daily Average
PAD District 1	**2,074**	**67**	**6,128**	**68**
Florida	48	2	177	2
New York	23	1	65	1
Pennsylvania	392	13	1,151	13
Virginia	0	0	1	0
West Virginia	1,611	52	4,734	53
PAD District 2	**53,728**	**1,733**	**155,085**	**1,723**
Illinois	583	19	1,736	19
Indiana	130	4	381	4
Kansas	2,388	77	6,856	76
Kentucky	175	6	386	4
Michigan	372	12	1,095	12
Missouri	6	0	16	0
Nebraska	147	5	382	4
North Dakota	33,957	1,095	98,049	1,089
Ohio	2,586	83	7,453	83
Oklahoma	13,286	429	38,464	427
South Dakota	87	3	237	3
Tennessee	12	0	30	0
PAD District 3	**286,685**	**9,248**	**825,752**	**9,175**
Alabama	321	10	924	10
Arkansas	351	11	1,019	11
Louisiana	2,999	97	8,845	98
Mississippi	1,100	35	3,128	35
New Mexico	56,535	1,824	163,035	1,811
Texas	167,345	5,398	480,621	5,340
Federal Offshore PAD District 3	58,034	1,872	168,180	1,869
PAD District 4	**27,935**	**901**	**78,848**	**876**
Colorado	13,662	441	38,649	429
Idaho	3	0	9	0
Montana	2,097	68	5,928	66
Utah	4,169	134	11,854	132
Wyoming	8,003	258	22,408	249
PAD District 5	**23,140**	**746**	**68,072**	**756**
Alaska	13,492	435	39,887	443
South Alaska	269	9	791	9
North Slope	13,223	427	39,096	434
Arizona	0	0	1	0
California	9,468	305	27,648	307
Nevada	18	1	52	1
Federal Offshore PAD District 5	162	5	483	5
U.S. Total	**393,561**	**12,696**	**1,133,885**	**12,599**

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

Table 27. Natural Gas Plant Net Production and Stocks of Petroleum Products by PAD and Refining Districts, March 2023
(Thousand Barrels)

Commodity	Production						
	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	**1**	**20,859**	**20,860**	**6,142**	**12,540**	**16,964**	**35,646**
Natural Gas Liquids	1	20,859	20,860	6,142	12,540	16,964	35,646
Ethane	–	9,096	9,096	2,606	3,382	7,527	13,515
Propane	–	6,918	6,918	2,285	4,762	5,105	12,152
Normal Butane	1	2,076	2,077	375	1,986	1,630	3,991
Isobutane	–	927	927	546	638	934	2,118
Natural Gasoline	–	1,842	1,842	330	1,772	1,768	3,870

Commodity	Production								
	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	**93,738**	**4,910**	**5,564**	**360**	**13,462**	**118,034**	**15,878**	**2,135**	**192,553**
Natural Gas Liquids	93,738	4,910	5,564	360	13,462	118,034	15,878	2,135	192,553
Ethane	42,817	2,417	2,307	72	5,912	53,525	4,978	1	81,115
Propane	27,693	1,346	1,806	110	3,957	34,912	5,640	228	59,850
Normal Butane	9,294	-3,219	554	52	1,475	8,156	2,195	616	17,035
Isobutane	4,821	3,985	383	37	684	9,910	989	201	14,145
Natural Gasoline	9,113	381	514	89	1,434	11,531	2,076	1,089	20,408

Commodity	Stocks						
	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	**4**	**279**	**283**	**996**	**126**	**630**	**1,752**
Natural Gas Liquids	4	279	283	996	126	630	1,752
Ethane	–	–	–	33	2	176	211
Propane	1	147	148	605	42	232	879
Normal Butane	3	51	54	165	34	89	288
Isobutane	–	21	21	72	9	50	131
Natural Gasoline	–	60	60	121	39	83	243

Commodity	Stocks								
	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	**255**	**330**	**624**	**6**	**1**	**1,216**	**170**	**173**	**3,594**
Natural Gas Liquids	255	330	624	6	1	1,216	170	173	3,594
Ethane	45	19	–	–	–	64	4	–	279
Propane	66	44	14	2	–	126	75	15	1,243
Normal Butane	24	33	180	3	–	240	33	123	738
Isobutane	77	13	98	–	–	188	16	16	372
Natural Gasoline	43	221	332	1	1	598	42	19	962

– = No Data Reported.
Note: Refer to Appendix A for Refining District descriptions.
Data source: Energy Information Administration (EIA) Form EIA-816, "Monthly Natural Gas Liquids Report."

Table 28. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, March 2023
(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	**16,128**	**3,131**	**19,259**	**77,212**	**16,232**	**22,529**	**115,973**
Hydrocarbon Gas Liquids	**1,277**	**–**	**1,277**	**1,859**	**186**	**1,094**	**3,139**
Natural Gas Liquids	1,277	–	1,277	1,859	186	1,094	3,139
Normal Butane	844	–	844	152	104	237	493
Isobutane	117	–	117	1,275	74	354	1,703
Natural Gasoline	316	–	316	432	8	503	943
Other Liquids	**85,059**	**5,656**	**90,715**	**5,787**	**1,696**	**4,452**	**11,935**
Hydrogen/Biofuels/Other Hydrocarbons	9,986	788	10,774	5,546	1,384	1,953	8,883
Hydrogen	62	2	64	704	290	188	1,182
Biofuels (including Fuel Ethanol)	9,924	786	10,710	4,838	1,094	1,765	7,697
Fuel Ethanol	9,472	682	10,154	4,693	1,032	1,625	7,350
Biodiesel	452	104	556	145	62	69	276
Renewable Diesel Fuel	–	–	–	–	–	–	–
Other Biofuels[1]	–	–	–	–	–	71	71
Other Hydrocarbons	–	–	–	4	–	–	4
Unfinished Oils (net)	763	-55	708	-2,325	29	77	-2,219
Naphthas and Lighter	478	-12	466	-486	-12	-344	-842
Kerosene and Light Gas Oils	200	–	200	-1,011	-48	29	-1,030
Heavy Gas Oils	-623	-45	-668	-308	101	758	551
Residuum	708	2	710	-520	-12	-366	-898
Motor Gasoline Blend.Comp. (MGBC)(net)	74,310	4,923	79,233	2,566	283	2,422	5,271
Reformulated - RBOB	16,900	–	16,900	-426	1,046	789	1,409
Conventional	57,410	4,923	62,333	2,992	-763	1,633	3,862
CBOB	48,849	4,926	53,775	3,320	-856	1,445	3,909
GTAB	1,932	–	1,932	–	–	–	–
Other	6,629	-3	6,626	-328	93	188	-47
Aviation Gasoline Blend. Comp. (net)	–	–	–	–	–	–	–
Total Input	**102,464**	**8,787**	**111,251**	**84,858**	**18,114**	**28,075**	**131,047**

See footnotes at end of table.

Table 28. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, March 2023
(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	**19,921**	**138,190**	**93,973**	**7,528**	**1,704**	**261,316**	**16,763**	**65,867**	**479,178**
Hydrocarbon Gas Liquids	**611**	**8,022**	**2,833**	**106**	**43**	**11,615**	**541**	**2,352**	**18,924**
Natural Gas Liquids	611	8,022	2,833	106	43	11,615	541	2,352	18,924
Normal Butane	265	1,844	1,102	59	–	3,270	190	608	5,405
Isobutane	298	2,645	1,439	41	43	4,466	176	716	7,178
Natural Gasoline	48	3,533	292	6	–	3,879	175	1,028	6,341
Other Liquids	**10,617**	**-40,784**	**-28,019**	**7,375**	**375**	**-50,436**	**1,507**	**11,449**	**65,170**
Hydrogen/Biofuels/Other Hydrocarbons	2,335	2,642	2,035	1,099	210	8,321	1,127	6,749	35,854
Hydrogen	108	1,612	1,442	63	33	3,258	202	1,335	6,041
Biofuels (including Fuel Ethanol)	2,227	1,030	593	1,036	177	5,063	925	5,414	29,809
Fuel Ethanol	2,159	916	514	1,011	138	4,738	867	4,513	27,622
Biodiesel	68	112	30	25	11	246	26	405	1,509
Renewable Diesel Fuel	–	–	–	–	–	–	–	472	472
Other Biofuels[1]	–	2	49	–	28	79	32	24	206
Other Hydrocarbons	–	–	–	–	–	–	–	–	4
Unfinished Oils (net)	-686	-711	6,289	87	-163	4,816	-33	7	3,279
Naphthas and Lighter	-453	-6,947	230	8	80	-7,082	104	-375	-7,729
Kerosene and Light Gas Oils	-52	-1,016	480	-7	-61	-656	169	-467	-1,784
Heavy Gas Oils	-55	2,773	5,400	160	-182	8,096	-295	648	8,332
Residuum	-126	4,479	179	-74	–	4,458	-11	201	4,460
Motor Gasoline Blend.Comp. (MGBC)(net)	8,964	-42,715	-36,345	6,189	328	-63,579	413	4,693	26,031
Reformulated - RBOB	6,301	-7,990	-2,277	4	-117	-4,079	–	1,818	16,048
Conventional	2,663	-34,725	-34,068	6,185	445	-59,500	413	2,875	9,983
CBOB	2,621	-30,610	-32,105	6,255	415	-53,424	621	1,572	6,453
GTAB	–	–	–	–	–	–	–	–	1,932
Other	42	-4,115	-1,963	-70	30	-6,076	-208	1,303	1,598
Aviation Gasoline Blend. Comp. (net)	4	–	2	–	–	6	–	–	6
Total Input	**31,149**	**105,428**	**68,787**	**15,009**	**2,122**	**222,495**	**18,811**	**79,668**	**563,272**

– – = Not Applicable.
– = No Data Reported.
1 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
Note: Totals may not equal sum of components due to independent rounding.
Note: Refer to Appendix A for Refining District descriptions.
Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal Report."

Table 29. Refinery and Blender Net Production of Finished Petroleum Products by PAD and Refining Districts, March 2023
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	231	14	245	2,428	219	683	3,330
Natural Gas Liquids	178	14	192	1,542	103	511	2,156
Ethane	–	–	–	–	–	–	–
Propane	330	30	360	1,659	308	460	2,427
Normal Butane	-150	-2	-152	21	-148	76	-51
Isobutane	-2	-14	-16	-138	-57	-25	-220
Natural Gasoline	–	–	–	–	–	–	–
Refinery Olefins	53	–	53	886	116	172	1,174
Ethylene	–	–	–	–	–	–	–
Propylene	55	–	55	851	116	173	1,140
Normal Butylene	-2	–	-2	35	–	-1	34
Isobutylene	–	–	–	–	–	–	–
Finished Motor Gasoline	92,988	6,799	99,787	48,310	9,865	16,253	74,428
Reformulated	36,080	42	36,122	8,005	1,472	878	10,355
Reformulated Blended with Fuel Ethanol	36,079	42	36,121	8,005	1,471	878	10,354
Reformulated Other	1	–	1	–	1	–	1
Conventional	56,908	6,757	63,665	40,305	8,393	15,375	64,073
Conventional Blended with Fuel Ethanol	57,766	6,779	64,545	38,234	8,497	14,354	61,085
Ed55 and Lower	57,683	6,779	64,462	38,213	8,451	14,209	60,873
Greater than Ed55	83	–	83	21	46	145	212
Conventional Other	-858	-22	-880	2,071	-104	1,021	2,988
Finished Aviation Gasoline	–	–	–	–	–	–	–
Kerosene-Type Jet Fuel	2,609	–	2,609	6,308	914	1,115	8,337
Kerosene	-11	–	-11	27	–	-4	23
Distillate Fuel Oil	4,935	930	5,865	20,259	5,387	8,600	34,246
15 ppm sulfur and under	4,937	880	5,817	20,212	5,347	8,521	34,080
Greater than 15 ppm to 500 ppm sulfur	10	–	10	–	–	182	182
Greater than 500 ppm sulfur	-12	50	38	47	40	-103	-16
Residual Fuel Oil	750	8	758	673	164	138	975
Less than 0.31 percent sulfur	-30	7	-23	35	–	–	35
0.31 to 1.00 percent sulfur	673	1	674	245	83	43	371
Greater than 1.00 percent sulfur	107	–	107	393	81	95	569
Petrochemical Feedstocks	–	–	–	906	–	–	906
Naphtha for Petro. Feed. Use	–	–	–	529	–	–	529
Other Oils for Petro. Feed. Use	–	–	–	377	–	–	377
Special Naphthas	–	3	3	-16	–	13	-3
Lubricants	67	206	273	–	–	212	212
Waxes	–	-2	-2	–	–	43	43
Petroleum Coke	485	21	506	3,797	932	732	5,461
Marketable	254	–	254	2,789	768	506	4,063
Catalyst	231	21	252	1,008	164	226	1,398
Asphalt and Road Oil	403	717	1,120	3,463	1,179	333	4,975
Still Gas	658	50	708	2,546	638	939	4,123
Miscellaneous Products	38	24	62	326	125	37	488
Total	**103,153**	**8,770**	**111,923**	**89,027**	**19,423**	**29,094**	**137,544**
Processing Gain(-) or Loss(+)[1]	-689	17	-672	-4,169	-1,309	-1,019	-6,497

See footnotes at end of table.

Table 29. Refinery and Blender Net Production of Finished Petroleum Products by PAD and Refining Districts, March 2023
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	697	7,823	5,071	69	17	13,677	323	2,061	19,636
Natural Gas Liquids	364	4,366	2,931	47	17	7,725	204	1,908	12,185
Ethane	5	228	32	–	–	265	–	–	265
Propane	263	2,498	1,947	15	10	4,733	195	919	8,634
Normal Butane	113	1,961	837	32	7	2,950	-8	711	3,450
Isobutane	-17	-321	115	–	–	-223	17	278	-164
Natural Gasoline	–	–	–	–	–	–	–	–	–
Refinery Olefins	333	3,457	2,140	22	–	5,952	119	153	7,451
Ethylene	–	1	–	–	–	1	–	–	1
Propylene	369	3,632	2,224	22	–	6,247	51	170	7,663
Normal Butylene	-36	-176	-84	–	–	-296	68	-17	-213
Isobutylene	–	–	–	–	–	–	–	–	–
Finished Motor Gasoline	21,732	26,835	10,238	9,479	1,362	69,646	9,920	43,821	297,602
Reformulated	7,514	7,315	–	–	–	14,829	–	30,735	92,041
Reformulated Blended with Fuel Ethanol	7,511	7,315	–	–	–	14,826	–	30,735	92,036
Reformulated Other	3	–	–	–	–	3	–	–	5
Conventional	14,218	19,520	10,238	9,479	1,362	54,817	9,920	13,086	205,561
Conventional Blended with Fuel Ethanol	13,960	1,662	5,119	9,983	1,393	32,117	8,545	13,872	180,164
Ed55 and Lower	13,950	1,661	5,119	9,967	1,392	32,089	8,519	13,862	179,805
Greater than Ed55	10	1	–	16	1	28	26	10	359
Conventional Other	258	17,858	5,119	-504	-31	22,700	1,375	-786	25,397
Finished Aviation Gasoline	53	-4	88	–	–	137	6	10	153
Kerosene-Type Jet Fuel	1,480	15,119	10,340	137	0	27,076	1,071	12,964	52,057
Kerosene	-1	146	–	6	–	151	–	2	165
Distillate Fuel Oil	6,016	41,143	34,638	2,836	556	85,189	5,734	14,209	145,243
15 ppm sulfur and under	5,990	39,735	29,878	2,679	556	78,838	5,721	13,332	137,788
Greater than 15 ppm to 500 ppm sulfur	26	291	2,667	88	–	3,072	17	459	3,740
Greater than 500 ppm sulfur	–	1,117	2,093	69	–	3,279	-4	418	3,715
Residual Fuel Oil	289	2,343	1,700	-33	44	4,343	320	2,163	8,559
Less than 0.31 percent sulfur	249	–	865	–	–	1,114	163	53	1,342
0.31 to 1.00 percent sulfur	-2	733	422	-33	–	1,120	34	614	2,813
Greater than 1.00 percent sulfur	42	1,610	413	–	44	2,109	123	1,496	4,404
Petrochemical Feedstocks	19	3,820	2,526	–	21	6,386	–	38	7,330
Naphtha for Petro. Feed. Use	16	2,223	1,538	–	–	3,777	–	–	4,306
Other Oils for Petro. Feed. Use	3	1,597	988	–	21	2,609	–	38	3,024
Special Naphthas	29	643	–	249	–	921	–	28	949
Lubricants	-4	1,575	804	787	–	3,162	–	294	3,941
Waxes	–	34	58	23	–	115	–	–	156
Petroleum Coke	423	7,783	5,048	184	10	13,448	686	3,877	23,978
Marketable	188	5,921	4,073	168	–	10,350	501	3,084	18,252
Catalyst	235	1,862	975	16	10	3,098	185	793	5,726
Asphalt and Road Oil	217	401	505	1,034	72	2,229	868	680	9,872
Still Gas	756	5,645	3,550	266	71	10,288	650	3,739	19,508
Miscellaneous Products	116	879	485	18	6	1,504	103	390	2,547
Total	**31,822**	**114,185**	**75,051**	**15,055**	**2,159**	**238,272**	**19,681**	**84,276**	**591,696**
Processing Gain(-) or Loss(+)[1]	-673	-8,757	-6,264	-46	-37	-15,777	-870	-4,608	-28,424

– = No Data Reported.
[1] Represents the arithmetic difference between input and production.
Note: Refer to Appendix A for Refining District descriptions.
Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal Report."

Table 30. Refinery Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, March 2023
(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	**16,128**	**3,131**	**19,259**	**77,212**	**16,232**	**22,529**	**115,973**
Hydrocarbon Gas Liquids	**248**	**–**	**248**	**1,831**	**74**	**750**	**2,655**
Natural Gas Liquids	248	–	248	1,831	74	750	2,655
Normal Butane	131	–	131	128	–	–	128
Isobutane	117	–	117	1,275	74	354	1,703
Natural Gasoline	–	–	–	428	–	396	824
Other Liquids	**-6,676**	**184**	**-6,492**	**-38,175**	**-6,231**	**-8,859**	**-53,265**
Hydrogen/Biofuels/Other Hydrocarbons	129	173	302	939	471	433	1,843
Hydrogen	62	2	64	704	290	188	1,182
Biofuels (including Fuel Ethanol)	67	171	238	231	181	245	657
Fuel Ethanol	67	139	206	190	157	150	497
Biodiesel	–	32	32	41	24	24	89
Renewable Diesel Fuel	–	–	–	–	–	–	–
Other Biofuels[1]	–	–	–	–	–	71	71
Other Hydrocarbons	–	–	–	4	–	–	4
Unfinished Oils (net)	763	-55	708	-2,325	29	77	-2,219
Naphthas and Lighter	478	-12	466	-486	-12	-344	-842
Kerosene and Light Gas Oils	200	–	200	-1,011	-48	29	-1,030
Heavy Gas Oils	-623	-45	-668	-308	101	758	551
Residuum	708	2	710	-520	-12	-366	-898
Motor Gasoline Blend.Comp. (MGBC)(net)	-7,568	66	-7,502	-36,789	-6,731	-9,369	-52,889
Reformulated - RBOB	-4,575	–	-4,575	-7,125	-120	–	-7,245
Conventional	-2,993	66	-2,927	-29,664	-6,611	-9,369	-45,644
CBOB	-2,961	69	-2,892	-29,323	-6,648	-9,557	-45,528
GTAB	–	–	–	–	–	–	–
Other	-32	-3	-35	-341	37	188	-116
Aviation Gasoline Blend. Comp. (net)	–	–	–	–	–	–	–
Total Input to Refineries	**9,700**	**3,315**	**13,015**	**40,868**	**10,075**	**14,420**	**65,363**
Atmospheric Crude Oil Distillation							
Gross Input (daily average)	561	101	662	2,492	537	725	3,754
Operable Capacity (daily average)	780	98	878	2,729	549	928	4,206
Operable Utilization Rate (percent)[2]	72.0	102.8	75.5	91.3	97.7	78.1	89.3
Downstream Processing Fresh Feed Input (daily average)							
Catalytic Reforming	103	16	119	443	75	131	649
Catalytic Cracking	141	17	158	707	138	193	1,038
Catalytic Hydrocracking	43	–	43	169	62	50	281
Delayed and Fluid Coking	35	–	35	315	76	47	438
Crude Oil Qualities							
Sulfur Content, Weighted Average (percent)	0.82	1.76	0.98	1.50	1.74	0.47	1.33
API Gravity, Weighted Average (degrees)	35.92	31.64	35.20	33.60	28.37	40.65	34.16
Operable Capacity (daily average)	**780**	**98**	**878**	**2,729**	**549**	**928**	**4,206**
Operating	780	98	878	2,580	511	928	4,019
Idle	–	–	–	149	38	–	187
Alaskan Crude Oil Receipts	**–**	**–**	**–**	**–**	**–**	**–**	**–**

See footnotes at end of table.

Table 30. Refinery Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, March 2023
(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	**19,921**	**138,190**	**93,973**	**7,528**	**1,704**	**261,316**	**16,763**	**65,867**	**479,178**
Hydrocarbon Gas Liquids	**575**	**4,654**	**2,568**	**51**	**43**	**7,891**	**414**	**2,303**	**13,511**
Natural Gas Liquids	575	4,654	2,568	51	43	7,891	414	2,303	13,511
Normal Butane	233	1,273	837	6	–	2,349	110	559	3,277
Isobutane	298	2,645	1,439	41	43	4,466	173	716	7,175
Natural Gasoline	44	736	292	4	–	1,076	131	1,028	3,059
Other Liquids	**-8,740**	**-49,178**	**-30,910**	**-1,507**	**-911**	**-91,246**	**-4,330**	**-30,445**	**-185,778**
Hydrogen/Biofuels/Other Hydrocarbons	353	1,658	1,721	116	68	3,916	464	1,849	8,374
Hydrogen	108	1,612	1,442	63	33	3,258	202	1,335	6,041
Biofuels (including Fuel Ethanol)	245	46	279	53	35	658	262	514	2,329
Fuel Ethanol	195	44	200	52	5	496	224	142	1,565
Biodiesel	50	0	30	1	2	83	6	13	223
Renewable Diesel Fuel	–	–	–	–	–	–	–	335	335
Other Biofuels[1]	–	2	49	–	28	79	32	24	206
Other Hydrocarbons	–	–	–	–	–	–	–	–	4
Unfinished Oils (net)	-686	-711	6,289	87	-163	4,816	-33	7	3,279
Naphthas and Lighter	-453	-6,947	230	8	80	-7,082	104	-375	-7,729
Kerosene and Light Gas Oils	-52	-1,016	480	-7	-61	-656	169	-467	-1,784
Heavy Gas Oils	-55	2,773	5,400	160	-182	8,096	-295	648	8,332
Residuum	-126	4,479	179	-74	–	4,458	-11	201	4,460
Motor Gasoline Blend.Comp. (MGBC)(net)	-8,411	-50,125	-38,922	-1,710	-816	-99,984	-4,761	-32,301	-197,437
Reformulated - RBOB	-534	-13,880	-2,277	–	-117	-16,808	–	-24,718	-53,346
Conventional	-7,877	-36,245	-36,645	-1,710	-699	-83,176	-4,761	-7,583	-144,091
CBOB	-7,919	-27,365	-33,937	-1,640	-696	-71,557	-4,552	-8,402	-132,931
GTAB	–	–	–	–	–	–	–	–	–
Other	42	-8,880	-2,708	-70	-3	-11,619	-209	819	-11,160
Aviation Gasoline Blend. Comp. (net)	4	–	2	–	–	6	–	–	6
Total Input to Refineries	**11,756**	**93,666**	**65,631**	**6,072**	**836**	**177,961**	**12,847**	**37,725**	**306,911**
Atmospheric Crude Oil Distillation									
Gross Input (daily average)	653	4,639	3,172	214	55	8,734	539	2,336	16,026
Operable Capacity (daily average)	744	5,472	3,330	260	110	9,917	650	2,620	18,270
Operable Utilization Rate (percent)[2]	87.8	84.8	95.3	82.2	50.0	88.1	82.9	89.2	87.7
Downstream Processing Fresh Feed Input (daily average)									
Catalytic Reforming	133	730	542	38	12	1,455	85	391	2,699
Catalytic Cracking	168	1,315	768	18	11	2,280	141	522	4,140
Catalytic Hydrocracking	36	399	407	20	3	865	6	429	1,625
Delayed and Fluid Coking	27	711	489	31	–	1,258	60	402	2,192
Crude Oil Qualities									
Sulfur Content, Weighted Average (percent)	0.65	1.39	1.18	1.53	1.18	1.24	1.36	1.33	1.27
API Gravity, Weighted Average (degrees)	39.77	34.74	31.29	31.33	37.40	33.99	32.57	29.46	33.39
Operable Capacity (daily average)	**744**	**5,472**	**3,330**	**260**	**110**	**9,917**	**650**	**2,620**	**18,270**
Operating	744	5,472	3,330	260	110	9,917	574	2,620	18,007
Idle	–	–	–	–	–	–	77	–	264
Alaskan Crude Oil Receipts	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**13,704**	**13,704**

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
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.
Data source: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report."

Table 31. Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts, March 2023
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	231	14	245	2,428	219	683	3,330
Natural Gas Liquids	178	14	192	1,542	103	511	2,156
Ethane	–	–	–	–	–	–	–
Propane	330	30	360	1,659	308	460	2,427
Normal Butane	-150	-2	-152	21	-148	76	-51
Isobutane	-2	-14	-16	-138	-57	-25	-220
Natural Gasoline	–	–	–	–	–	–	–
Refinery Olefins	53	–	53	886	116	172	1,174
Ethylene	–	–	–	–	–	–	–
Propylene	55	–	55	851	116	173	1,140
Normal Butylene	-2	–	-2	35	–	-1	34
Isobutylene	–	–	–	–	–	–	–
Finished Motor Gasoline	669	1,399	2,068	4,426	1,866	2,644	8,936
Reformulated	669	–	669	–	–	2	2
Reformulated Blended with Fuel Ethanol	669	–	669	–	–	2	2
Reformulated Other	–	–	–	–	–	–	–
Conventional	–	1,399	1,399	4,426	1,866	2,642	8,934
Conventional Blended with Fuel Ethanol	–	1,395	1,395	1,923	1,538	1,532	4,993
Ed55 and Lower	–	1,395	1,395	1,923	1,538	1,532	4,993
Greater than Ed55	–	–	–	–	–	–	–
Conventional Other	–	4	4	2,503	328	1,110	3,941
Finished Aviation Gasoline	–	–	–	–	–	–	–
Kerosene-Type Jet Fuel	2,609	–	2,609	6,335	914	1,115	8,364
Kerosene	10	–	10	27	–	-4	23
Distillate Fuel Oil	4,438	858	5,296	20,126	5,347	8,555	34,028
15 ppm sulfur and under	4,440	808	5,248	20,079	5,307	8,476	33,862
Greater than 15 ppm to 500 ppm sulfur	10	–	10	–	–	86	86
Greater than 500 ppm sulfur	-12	50	38	47	40	-7	80
Residual Fuel Oil	779	8	787	673	164	139	976
Less than 0.31 percent sulfur	–	7	7	35	–	–	35
0.31 to 1.00 percent sulfur	673	1	674	245	83	44	372
Greater than 1.00 percent sulfur	106	–	106	393	81	95	569
Petrochemical Feedstocks	–	–	–	906	–	–	906
Naphtha for Petro. Feed. Use	–	–	–	529	–	–	529
Other Oils for Petro. Feed. Use	–	–	–	377	–	–	377
Special Naphthas	–	3	3	-16	–	13	-3
Lubricants	67	206	273	–	–	212	212
Waxes	–	-2	-2	–	–	43	43
Petroleum Coke	485	21	506	3,797	932	732	5,461
Marketable	254	–	254	2,789	768	506	4,063
Catalyst	231	21	252	1,008	164	226	1,398
Asphalt and Road Oil	403	717	1,120	3,463	1,179	330	4,972
Still Gas	658	50	708	2,546	638	939	4,123
Miscellaneous Products	38	24	62	326	125	37	488
Total	**10,387**	**3,298**	**13,685**	**45,037**	**11,384**	**15,438**	**71,859**
Processing Gain(-) or Loss(+)[1]	-687	17	-670	-4,169	-1,309	-1,018	-6,496

See footnotes at end of table.

Table 31. Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts, March 2023
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	697	7,823	5,071	69	17	13,677	323	2,061	19,636
Natural Gas Liquids	364	4,366	2,931	47	17	7,725	204	1,908	12,185
Ethane	5	228	32	–	–	265	–	–	265
Propane	263	2,498	1,947	15	10	4,733	195	919	8,634
Normal Butane	113	1,961	837	32	7	2,950	-8	711	3,450
Isobutane	-17	-321	115	–	–	-223	17	278	-164
Natural Gasoline	–	–	–	–	–	–	–	–	–
Refinery Olefins	333	3,457	2,140	22	–	5,952	119	153	7,451
Ethylene	–	1	–	–	–	1	–	–	1
Propylene	369	3,632	2,224	22	–	6,247	51	170	7,663
Normal Butylene	-36	-176	-84	–	–	-296	68	-17	-213
Isobutylene	–	–	–	–	–	–	–	–	–
Finished Motor Gasoline	2,358	15,133	7,082	565	84	25,222	3,976	2,394	42,596
Reformulated	–	–	–	–	–	–	–	677	1,348
Reformulated Blended with Fuel Ethanol	–	–	–	–	–	–	–	677	1,348
Reformulated Other	–	–	–	–	–	–	–	–	–
Conventional	2,358	15,133	7,082	565	84	25,222	3,976	1,717	41,248
Conventional Blended with Fuel Ethanol	1,970	440	1,983	547	54	4,994	2,269	738	14,389
Ed55 and Lower	1,970	440	1,983	547	54	4,994	2,269	738	14,389
Greater than Ed55	–	–	–	–	–	–	–	–	–
Conventional Other	388	14,693	5,099	18	30	20,228	1,707	979	26,859
Finished Aviation Gasoline	53	-4	88	–	–	137	6	10	153
Kerosene-Type Jet Fuel	1,479	15,073	10,335	137	–	27,024	997	12,965	51,959
Kerosene	-1	193	–	6	–	198	–	2	233
Distillate Fuel Oil	5,999	41,084	34,643	2,812	548	85,086	5,788	13,699	143,897
15 ppm sulfur and under	5,973	39,676	29,883	2,655	548	78,735	5,775	12,829	136,449
Greater than 15 ppm to 500 ppm sulfur	26	291	2,667	88	–	3,072	17	459	3,644
Greater than 500 ppm sulfur	–	1,117	2,093	69	–	3,279	-4	411	3,804
Residual Fuel Oil	289	2,343	1,699	-33	44	4,342	320	2,163	8,588
Less than 0.31 percent sulfur	249	–	865	–	–	1,114	163	53	1,372
0.31 to 1.00 percent sulfur	-2	733	422	-33	–	1,120	34	616	2,816
Greater than 1.00 percent sulfur	42	1,610	412	–	44	2,108	123	1,494	4,400
Petrochemical Feedstocks	19	3,820	2,526	–	21	6,386	–	38	7,330
Naphtha for Petro. Feed. Use	16	2,223	1,538	–	–	3,777	–	–	4,306
Other Oils for Petro. Feed. Use	3	1,597	988	–	21	2,609	–	38	3,024
Special Naphthas	29	643	–	249	–	921	–	28	949
Lubricants	-4	1,575	804	787	–	3,162	–	294	3,941
Waxes	–	34	58	23	–	115	–	–	156
Petroleum Coke	423	7,783	5,048	184	10	13,448	686	3,877	23,978
Marketable	188	5,921	4,073	168	–	10,350	501	3,084	18,252
Catalyst	235	1,862	975	16	10	3,098	185	793	5,726
Asphalt and Road Oil	217	401	506	1,034	72	2,230	868	680	9,870
Still Gas	756	5,645	3,550	266	71	10,288	650	3,739	19,508
Miscellaneous Products	116	879	485	18	6	1,504	103	390	2,547
Total	**12,430**	**102,425**	**71,895**	**6,117**	**873**	**193,740**	**13,717**	**42,340**	**335,341**
Processing Gain(-) or Loss(+)[1]	-674	-8,759	-6,264	-45	-37	-15,779	-870	-4,615	-28,430

– = No Data Reported.
[1] Represents the arithmetic difference between input and production.
Note: Refer to Appendix A for Refining District descriptions.
Data source: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report."

Table 32. Blender Net Inputs of Petroleum Products by PAD District, March 2023
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	**1,029**	**–**	**1,029**	**28**	**112**	**344**	**484**
Natural Gas Liquids	1,029	–	1,029	28	112	344	484
Normal Butane	713	–	713	24	104	237	365
Isobutane	–	–	–	–	–	–	–
Natural Gasoline	316	–	316	4	8	107	119
Other Liquids	**91,735**	**5,472**	**97,207**	**43,962**	**7,927**	**13,311**	**65,200**
Oxygenates/Renewables	9,857	615	10,472	4,607	913	1,520	7,040
Biofuels (including Fuel Ethanol)	9,857	615	10,472	4,607	913	1,520	7,040
Fuel Ethanol	9,405	543	9,948	4,503	875	1,475	6,853
Biodiesel	452	72	524	104	38	45	187
Renewable Diesel Fuel	–	–	–	–	–	–	–
Other Biofuels[1]	–	–	–	–	–	–	–
Unfinished Oils (net)	–	–	–	–	–	–	–
Naphthas and Lighter	–	–	–	–	–	–	–
Kerosene and Light Gas Oils	–	–	–	–	–	–	–
Heavy Gas Oils	–	–	–	–	–	–	–
Residuum	–	–	–	–	–	–	–
Motor Gasoline Blend.Comp. (MGBC)(net)	81,878	4,857	86,735	39,355	7,014	11,791	58,160
Reformulated - RBOB	21,475	–	21,475	6,699	1,166	789	8,654
Conventional	60,403	4,857	65,260	32,656	5,848	11,002	49,506
CBOB	51,810	4,857	56,667	32,643	5,792	11,002	49,437
GTAB	1,932	–	1,932	–	–	–	–
Other	6,661	–	6,661	13	56	–	69
Aviation Gasoline Blend. Comp. (net)	–	–	–	–	–	–	–
Total Input	**92,764**	**5,472**	**98,236**	**43,990**	**8,039**	**13,655**	**65,684**

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	**36**	**3,368**	**265**	**55**	**–**	**3,724**	**127**	**49**	**5,413**
Natural Gas Liquids	36	3,368	265	55	–	3,724	127	49	5,413
Normal Butane	32	571	265	53	–	921	80	49	2,128
Isobutane	–	–	–	–	–	–	3	–	3
Natural Gasoline	4	2,797	–	2	–	2,803	44	–	3,282
Other Liquids	**19,357**	**8,394**	**2,891**	**8,882**	**1,286**	**40,810**	**5,837**	**41,894**	**250,948**
Oxygenates/Renewables	1,982	984	314	983	142	4,405	663	4,900	27,480
Biofuels (including Fuel Ethanol)	1,982	984	314	983	142	4,405	663	4,900	27,480
Fuel Ethanol	1,964	872	314	959	133	4,242	643	4,371	26,057
Biodiesel	18	112	–	24	9	163	20	392	1,286
Renewable Diesel Fuel	–	–	–	–	–	–	–	137	137
Other Biofuels[1]	–	–	–	–	–	–	–	–	–
Unfinished Oils (net)	–	–	–	–	–	–	–	–	–
Naphthas and Lighter	–	–	–	–	–	–	–	–	–
Kerosene and Light Gas Oils	–	–	–	–	–	–	–	–	–
Heavy Gas Oils	–	–	–	–	–	–	–	–	–
Residuum	–	–	–	–	–	–	–	–	–
Motor Gasoline Blend.Comp. (MGBC)(net)	17,375	7,410	2,577	7,899	1,144	36,405	5,174	36,994	223,468
Reformulated - RBOB	6,835	5,890	–	4	–	12,729	–	26,536	69,394
Conventional	10,540	1,520	2,577	7,895	1,144	23,676	5,174	10,458	154,074
CBOB	10,540	-3,245	1,832	7,895	1,111	18,133	5,173	9,974	139,384
GTAB	–	–	–	–	–	–	–	–	1,932
Other	–	4,765	745	–	33	5,543	1	484	12,758
Aviation Gasoline Blend. Comp. (net)	–	–	–	–	–	–	–	–	–
Total Input	**19,393**	**11,762**	**3,156**	**8,937**	**1,286**	**44,534**	**5,964**	**41,943**	**256,361**

– – = Not Applicable.
– = No Data Reported.
1 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
Note: Refer to Appendix A for Refining District descriptions.
Data source: Energy Information Administration (EIA) Form EIA-815, "Monthly Bulk Terminal Report."

Table 33. Blender Net Production of Petroleum Products by PAD District, March 2023
(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	92,319	5,400	97,719	43,884	7,999	13,609	65,492
Reformulated	35,411	42	35,453	8,005	1,472	876	10,353
Reformulated Blended with Fuel Ethanol	35,410	42	35,452	8,005	1,471	876	10,352
Reformulated Other	1	–	1	–	1	–	1
Conventional	56,908	5,358	62,266	35,879	6,527	12,733	55,139
Conventional Blended with Fuel Ethanol	57,766	5,384	63,150	36,311	6,959	12,822	56,092
Ed55 and Lower	57,683	5,384	63,067	36,290	6,913	12,677	55,880
Greater than Ed55	83	–	83	21	46	145	212
Conventional Other	-858	-26	-884	-432	-432	-89	-953
Finished Aviation Gasoline	–	–	–	–	–	–	–
Kerosene-Type Jet Fuel	0	–	0	-27	–	0	-27
Kerosene	-21	–	-21	–	–	–	–
Distillate Fuel Oil	497	72	569	133	40	45	218
15 ppm sulfur and under	497	72	569	133	40	45	218
Greater than 15 ppm to 500 ppm sulfur	–	–	–	–	–	96	96
Greater than 500 ppm sulfur	0	–	0	–	–	-96	-96
Residual Fuel Oil	-29	–	-29	–	–	-1	-1
Less than 0.31 percent sulfur	-30	–	-30	–	–	–	–
0.31 to 1.00 percent sulfur	–	–	–	–	–	-1	-1
Greater than 1.00 percent sulfur	1	–	1	–	–	–	–
Special Naphthas	–	–	–	–	–	–	–
Lubricants	–	–	–	–	–	–	–
Asphalt and Road Oil	–	–	–	0	–	3	3
Miscellaneous Products	–	–	–	–	–	–	–
Total Production	**92,766**	**5,472**	**98,238**	**43,990**	**8,039**	**13,656**	**65,685**
Processing Gain(-) or Loss(+)[1]	-2	0	-2	0	0	-1	-1

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	19,374	11,702	3,156	8,914	1,278	44,424	5,944	41,427	255,006
Reformulated	7,514	7,315	–	–	–	14,829	–	30,058	90,693
Reformulated Blended with Fuel Ethanol	7,511	7,315	–	–	–	14,826	–	30,058	90,688
Reformulated Other	3	–	–	–	–	3	–	–	5
Conventional	11,860	4,387	3,156	8,914	1,278	29,595	5,944	11,369	164,313
Conventional Blended with Fuel Ethanol	11,990	1,222	3,136	9,436	1,339	27,123	6,276	13,134	165,775
Ed55 and Lower	11,980	1,221	3,136	9,420	1,338	27,095	6,250	13,124	165,416
Greater than Ed55	10	1	–	16	1	28	26	10	359
Conventional Other	-130	3,165	20	-522	-61	2,472	-332	-1,765	-1,462
Finished Aviation Gasoline	–	–	–	–	–	–	–	–	–
Kerosene-Type Jet Fuel	1	46	5	–	0	52	74	-1	98
Kerosene	–	-47	–	–	–	-47	–	–	-68
Distillate Fuel Oil	17	59	-5	24	8	103	-54	510	1,346
15 ppm sulfur and under	17	59	-5	24	8	103	-54	503	1,339
Greater than 15 ppm to 500 ppm sulfur	–	–	–	–	–	–	–	–	96
Greater than 500 ppm sulfur	–	–	–	–	–	–	–	7	-89
Residual Fuel Oil	–	–	1	–	–	1	–	0	-29
Less than 0.31 percent sulfur	–	–	–	–	–	–	–	–	-30
0.31 to 1.00 percent sulfur	–	–	–	–	–	–	–	-2	-3
Greater than 1.00 percent sulfur	–	–	1	–	–	1	–	2	4
Special Naphthas	–	–	–	–	–	–	–	–	–
Lubricants	–	–	–	–	–	–	–	–	–
Asphalt and Road Oil	–	–	-1	–	–	-1	–	–	2
Miscellaneous Products	–	–	–	–	–	–	–	–	–
Total Production	**19,392**	**11,760**	**3,156**	**8,938**	**1,286**	**44,532**	**5,964**	**41,936**	**256,355**
Processing Gain(-) or Loss(+)[1]	1	2	0	-1	0	2	0	7	6

– = No Data Reported.
[1] Represents the arithmetic difference between input and production.
Note: Refer to Appendix A for Refining District descriptions.
Data source: Energy Information Administration (EIA) Form EIA-815, "Monthly Bulk Terminal Report."

Table 34. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, March 2023
(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	**4,658**	**776**	**5,434**	**9,288**	**1,945**	**1,906**	**13,139**
Petroleum Products	**9,716**	**2,165**	**11,881**	**28,721**	**9,129**	**11,251**	**49,101**
Hydrocarbon Gas Liquids	409	21	430	1,737	230	1,053	3,020
Natural Gas Liquids	337	21	358	1,452	216	1,021	2,689
Ethane	–	–	–	–	–	–	–
Propane	101	5	106	444	41	377	862
Normal Butane	171	2	173	521	136	187	844
Isobutane	65	14	79	345	39	257	641
Natural Gasoline	–	–	–	142	–	200	342
Refinery Olefins	72	0	72	285	14	32	331
Ethylene	–	–	–	–	–	–	–
Propylene	30	0	30	254	14	32	300
Normal Butylene	42	0	42	31	0	0	31
Isobutylene	0	0	0	0	0	0	0
Biofuels/Other Hydrocarbons	42	91	133	46	71	27	144
Biofuels (including Fuel Ethanol)	42	91	133	26	71	27	124
Fuel Ethanol	42	85	127	21	56	22	99
Biodiesel	–	6	6	5	15	5	25
Renewable Diesel Fuel	–	–	–	–	–	–	–
Other Biofuels[1]	–	–	–	–	–	–	–
Other Hydrocarbons	–	–	–	20	–	–	20
Unfinished Oils	3,595	326	3,921	8,132	642	4,494	13,268
Naphthas and Lighter	606	186	792	2,120	164	1,385	3,669
Kerosene and Light Gas Oils	372	–	372	1,840	321	504	2,665
Heavy Gas Oils	2,047	137	2,184	2,847	145	1,502	4,494
Residuum	570	3	573	1,325	12	1,103	2,440
Motor Gasoline Blending Components (MGBC)	2,932	195	3,127	8,783	2,028	2,792	13,603
Reformulated - RBOB	1,090	–	1,090	1,021	–	–	1,021
Conventional	1,842	195	2,037	7,762	2,028	2,792	12,582
CBOB	266	168	434	3,115	1,201	2,020	6,336
GTAB	–	–	–	–	–	–	–
Other	1,576	27	1,603	4,647	827	772	6,246
Aviation Gasoline Blending Components	–	–	–	–	–	–	–
Finished Motor Gasoline	–	31	31	539	98	160	797
Reformulated	–	–	–	–	–	–	–
Reformulated Blended with Fuel Ethanol	–	–	–	–	–	–	–
Reformulated Other	–	–	–	–	–	–	–
Conventional	–	31	31	539	98	160	797
Conventional Blended with Fuel Ethanol	–	–	–	–	–	–	–
Ed55 and Lower	–	–	–	–	–	–	–
Greater than Ed55	–	–	–	–	–	–	–
Conventional Other	–	31	31	539	98	160	797
Finished Aviation Gasoline	–	–	–	–	33	–	33
Kerosene-Type Jet Fuel	400	–	400	1,657	266	260	2,183
Kerosene	172	4	176	66	–	43	109
Distillate Fuel Oil	1,208	230	1,438	3,301	1,069	1,701	6,071
15 ppm sulfur and under	875	144	1,019	3,179	980	1,501	5,660
Greater than 15 ppm to 500 ppm sulfur	43	65	108	–	–	153	153
Greater than 500 ppm sulfur	290	21	311	122	89	47	258
Residual Fuel Oil	263	14	277	507	213	72	792
Less than 0.31 percent sulfur	–	12	12	127	–	–	127
0.31 to 1.00 percent sulfur	85	2	87	73	74	32	179
Greater than 1.00 percent sulfur	178	–	178	307	139	40	486
Petrochemical Feedstocks	–	–	–	635	–	–	635
Naphtha for Petro. Feed. Use	–	–	–	523	–	–	523
Other Oils for Petro. Feed. Use	–	–	–	112	–	–	112
Special Naphthas	–	17	17	51	–	15	66
Lubricants	576	282	858	–	–	198	198
Waxes	–	301	301	–	–	56	56
Petroleum Coke	–	–	–	457	2,744	159	3,360
Marketable	–	–	–	457	2,744	159	3,360
Catalyst	–	–	–	–	–	–	–
Asphalt and Road Oil	103	612	715	2,744	1,713	214	4,671
Miscellaneous Products	16	41	57	66	22	7	95
Total Stocks, All Oils	**14,374**	**2,941**	**17,315**	**38,009**	**11,074**	**13,157**	**62,240**

See footnotes at end of table.

Table 34. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, March 2023
(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	**2,214**	**25,419**	**16,075**	**976**	**242**	**44,926**	**2,554**	**20,726**	**86,779**
Petroleum Products	**10,958**	**58,344**	**42,997**	**4,101**	**1,271**	**117,671**	**10,415**	**51,173**	**240,241**
Hydrocarbon Gas Liquids	2,782	1,772	1,262	17	30	5,863	383	1,418	11,114
Natural Gas Liquids	2,031	1,494	1,054	16	30	4,625	292	1,384	9,348
Ethane	22	2	–	–	–	24	–	–	24
Propane	546	379	74	3	2	1,004	41	123	2,136
Normal Butane	840	862	462	8	24	2,196	148	845	4,206
Isobutane	522	211	331	5	4	1,073	87	412	2,292
Natural Gasoline	101	40	187	–	–	328	16	4	690
Refinery Olefins	751	278	208	1	0	1,238	91	34	1,766
Ethylene	0	0	–	–	–	0	–	–	0
Propylene	690	52	59	1	0	802	3	16	1,151
Normal Butylene	61	226	149	0	0	436	88	18	615
Isobutylene	0	0	0	0	0	0	0	0	0
Biofuels/Other Hydrocarbons	36	956	161	25	7	1,185	104	845	2,411
Biofuels (including Fuel Ethanol)	36	956	161	25	7	1,185	104	845	2,391
Fuel Ethanol	29	917	108	18	3	1,075	93	132	1,526
Biodiesel	7	39	53	7	4	110	11	7	159
Renewable Diesel Fuel	–	–	–	–	–	–	–	706	706
Other Biofuels[1]	–	–	–	–	–	–	–	–	–
Other Hydrocarbons	–	–	–	–	–	–	–	–	20
Unfinished Oils	3,004	21,756	15,214	939	617	41,530	3,206	19,222	81,147
Naphthas and Lighter	1,292	5,948	1,948	278	123	9,589	718	3,392	18,160
Kerosene and Light Gas Oils	493	4,024	1,700	176	220	6,613	651	3,121	13,422
Heavy Gas Oils	620	8,738	9,027	436	274	19,095	1,394	9,737	36,904
Residuum	599	3,046	2,539	49	–	6,233	443	2,972	12,661
Motor Gasoline Blending Components (MGBC)	2,783	13,022	11,230	360	260	27,655	3,009	14,319	61,713
Reformulated - RBOB	113	1,479	534	–	22	2,148	–	5,005	9,264
Conventional	2,670	11,543	10,696	360	238	25,507	3,009	9,314	52,449
CBOB	1,387	3,835	5,969	257	56	11,504	1,674	2,954	22,902
GTAB	–	–	–	–	–	–	–	–	–
Other	1,283	7,708	4,727	103	182	14,003	1,335	6,360	29,547
Aviation Gasoline Blending Components	9	–	10	–	–	19	–	–	19
Finished Motor Gasoline	138	1,463	1,189	34	6	2,830	779	735	5,172
Reformulated	–	–	–	–	–	–	–	16	16
Reformulated Blended with Fuel Ethanol	–	–	–	–	–	–	–	16	16
Reformulated Other	–	–	–	–	–	–	–	–	–
Conventional	138	1,463	1,189	34	6	2,830	779	719	5,156
Conventional Blended with Fuel Ethanol	–	–	–	–	–	–	60	–	60
Ed55 and Lower	–	–	–	–	–	–	60	–	60
Greater than Ed55	–	–	–	–	–	–	–	–	–
Conventional Other	138	1,463	1,189	34	6	2,830	719	719	5,096
Finished Aviation Gasoline	26	141	203	–	–	370	9	125	537
Kerosene-Type Jet Fuel	353	2,853	1,983	113	–	5,302	233	3,619	11,737
Kerosene	28	34	1	2	–	65	1	3	354
Distillate Fuel Oil	951	7,120	5,614	653	49	14,387	1,498	5,480	28,874
15 ppm sulfur and under	904	6,028	4,541	471	49	11,993	1,352	4,741	24,765
Greater than 15 ppm to 500 ppm sulfur	47	195	266	26	–	534	93	340	1,228
Greater than 500 ppm sulfur	–	897	807	156	–	1,860	53	399	2,881
Residual Fuel Oil	229	2,426	1,285	13	121	4,074	229	2,069	7,441
Less than 0.31 percent sulfur	15	–	52	–	–	67	25	36	267
0.31 to 1.00 percent sulfur	92	631	265	13	–	1,001	5	350	1,622
Greater than 1.00 percent sulfur	122	1,795	968	–	121	3,006	199	1,683	5,552
Petrochemical Feedstocks	27	1,528	690	4	24	2,273	–	–	2,908
Naphtha for Petro. Feed. Use	24	1,002	669	4	–	1,699	–	–	2,222
Other Oils for Petro. Feed. Use	3	526	21	–	24	574	–	–	686
Special Naphthas	77	504	–	168	–	749	–	55	887
Lubricants	32	2,549	1,973	818	–	5,372	–	911	7,339
Waxes	–	83	106	72	–	261	–	–	618
Petroleum Coke	87	1,703	1,404	–	–	3,194	132	1,244	7,930
Marketable	87	1,703	1,404	–	–	3,194	132	1,244	7,930
Catalyst	–	–	–	–	–	–	–	–	–
Asphalt and Road Oil	347	186	612	883	155	2,183	818	1,061	9,448
Miscellaneous Products	49	248	60	–	2	359	14	67	592
Total Stocks, All Oils	**13,172**	**83,763**	**59,072**	**5,077**	**1,513**	**162,597**	**12,969**	**71,899**	**327,020**

– – = Not Applicable.
– = No Data Reported.
[1] Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
Note: Refer to Appendix A for Refining District descriptions.
Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal Report."

Table 35. Percent Yield of Petroleum Products by PAD and Refining Districts, March 2023

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	1.4	0.5	1.2	3.2	1.3	3.0	2.9
Finished Motor Gasoline[1]	46.7	38.8	45.5	51.9	50.6	48.8	51.1
Finished Aviation Gasoline[2]	–	–	–	–	–	–	–
Kerosene-Type Jet Fuel	15.4	–	13.0	8.4	5.5	4.9	7.3
Kerosene	0.1	–	0.1	0.0	–	0.0	0.0
Distillate Fuel Oil[3]	26.2	26.8	26.3	26.6	32.2	37.1	29.5
Residual Fuel Oil	4.6	0.3	3.9	0.9	1.0	0.6	0.9
Naphtha for Petro. Feed. Use	–	–	–	0.7	–	–	0.5
Other Oils for Petro. Feed. Use	–	–	–	0.5	–	–	0.3
Special Naphthas	–	0.1	0.0	0.0	–	0.1	0.0
Lubricants	0.4	6.7	1.4	–	–	0.9	0.2
Waxes	–	-0.1	0.0	–	–	0.2	0.0
Petroleum Coke	2.9	0.7	2.5	5.0	5.6	3.2	4.8
Asphalt and Road Oil	2.4	23.3	5.6	4.6	7.1	1.5	4.3
Still Gas	3.9	1.6	3.5	3.4	3.9	4.1	3.6
Miscellaneous Products	0.2	0.8	0.3	0.4	0.8	0.2	0.4
Processing Gain(-) or Loss(+)[4]	-4.1	0.6	-3.4	-5.5	-7.9	-4.5	-5.7

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	3.6	5.6	5.0	0.9	1.1	5.1	1.9	3.1	4.0
Finished Motor Gasoline[1]	51.7	43.5	42.5	28.3	54.1	43.4	47.8	48.0	46.1
Finished Aviation Gasoline[2]	0.3	0.0	0.1	–	–	0.1	0.0	0.0	0.0
Kerosene-Type Jet Fuel	7.7	10.8	10.2	1.8	–	10.0	5.9	19.3	10.6
Kerosene	0.0	0.1	–	0.1	–	0.1	–	0.0	0.1
Distillate Fuel Oil[3]	30.8	29.5	34.0	36.6	32.9	31.5	34.0	19.8	29.3
Residual Fuel Oil	1.5	1.7	1.7	-0.4	2.8	1.6	1.9	3.2	1.8
Naphtha for Petro. Feed. Use	0.1	1.6	1.5	–	–	1.4	–	–	0.9
Other Oils for Petro. Feed. Use	0.0	1.2	1.0	–	1.3	1.0	–	0.1	0.6
Special Naphthas	0.2	0.5	–	3.2	–	0.3	–	0.0	0.2
Lubricants	0.0	1.1	0.8	10.3	–	1.2	–	0.4	0.8
Waxes	–	0.0	0.1	0.3	–	0.0	–	–	0.0
Petroleum Coke	2.2	5.6	5.0	2.4	0.6	5.0	4.1	5.8	4.9
Asphalt and Road Oil	1.1	0.3	0.5	13.5	4.6	0.8	5.1	1.0	2.0
Still Gas	3.9	4.1	3.5	3.5	4.5	3.8	3.8	5.6	4.0
Miscellaneous Products	0.6	0.6	0.5	0.2	0.4	0.6	0.6	0.6	0.5
Processing Gain(-) or Loss(+)[4]	-3.5	-6.3	-6.2	-0.6	-2.4	-5.9	-5.1	-6.9	-5.8

– = No Data Reported.
[1] Based on net production of finished motor gasoline minus input of natural gas liquids, fuel ethanol, 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, renewable diesel fuel, and other biofuels.
[4] Represents the arithmetic difference between input and production.
Note: Percent yield is calculated as net production (or adjusted net production) divided by input of crude oil, hydrogen, "other" hydrocarbons, and net input of unfinished oils.
Note: Totals may not equal sum of components due to independent rounding.
Note: Refer to Appendix A for Refining District descriptions.
Data source: Calculated from data on Tables 30 and 31.

Table 36. Imports of Residual Fuel Oil by Sulfur Content and by PAD District and State of Entry, March 2023
(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	**525**	**546**	**963**	**2,034**
Connecticut	–	–	–	–
Delaware	204	–	–	204
Florida	–	129	834	963
Georgia	–	–	–	–
Maine	–	–	–	–
Maryland	–	–	–	–
Massachusetts	–	–	–	–
New Hampshire	–	–	–	–
New Jersey	–	417	80	497
New York	–	–	49	49
North Carolina	–	–	–	–
Pennsylvania	321	–	–	321
Rhode Island	–	–	–	–
South Carolina	–	–	–	–
Vermont	–	–	–	–
Virginia	–	–	–	–
West Virginia	–	–	–	–
PAD District 2	**–**	**7**	**25**	**32**
Illinois	–	–	–	–
Indiana	–	–	–	–
Michigan	–	–	–	–
Minnesota	–	3	–	3
North Dakota	–	4	25	29
Ohio	–	–	–	–
Wisconsin	–	–	–	–
PAD District 3	**–**	**–**	**1,328**	**1,328**
Alabama	–	–	–	–
Louisiana	–	–	–	–
Mississippi	–	–	300	300
New Mexico	–	–	–	–
Texas	–	–	1,028	1,028
PAD District 4	**–**	**4**	**–**	**4**
Idaho	–	4	–	4
Montana	–	–	–	–
PAD District 5	**–**	**–**	**–**	**–**
Alaska	–	–	–	–
California	–	–	–	–
Hawaii	–	–	–	–
Oregon	–	–	–	–
Washington	–	–	–	–
U.S. Total	**525**	**557**	**2,316**	**3,398**

– = No Data Reported.
Data source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 37. Imports of Crude Oil and Petroleum Products by PAD District, March 2023
(Thousand Barrels, Except Where Noted)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil[1,2]	**16,177**	**86,683**	**45,622**	**8,153**	**38,525**	**195,160**	**6,295**
Hydrocarbon Gas Liquids	**1,666**	**2,025**	**6**	**801**	**1,803**	**6,301**	**203**
Natural Gas Liquids	1,382	1,709	6	801	1,803	5,701	184
Ethane	–	–	–	–	–	–	–
Propane	1,374	954	–	800	1,159	4,287	138
Normal Butane	–	414	6	1	643	1,064	34
Isobutane	8	338	–	–	1	347	11
Natural Gasoline	–	3	–	–	–	3	0
Refinery Olefins	284	316	–	–	–	600	19
Ethylene	–	–	–	–	–	–	–
Propylene	284	164	–	–	–	448	14
Normal Butylene	–	152	–	–	–	152	5
Isobutylene	–	–	–	–	–	–	–
Other Liquids	**11,923**	**643**	**16,656**	**143**	**4,136**	**33,501**	**1,081**
Hydrogen/Biofuels/Other Hydrocarbons	441	119	271	14	857	1,702	55
Hydrogen	–	–	–	–	–	–	–
Biofuels (including Fuel Ethanol)	441	119	271	14	857	1,702	55
Fuel Ethanol	–	–	–	–	–	–	–
Biodiesel	441	119	218	14	124	916	30
Renewable Diesel Fuel	–	–	53	–	733	786	25
Other Biofuels[3]	–	–	–	–	–	–	–
Other Hydrocarbons	–	–	–	–	–	–	–
Unfinished Oils[1]	1,395	–	14,843	–	76	16,314	526
Naphthas and Lighter	728	–	–	–	–	728	23
Kerosene and Lighter Gas Oils	–	–	–	–	–	–	–
Heavy Gas Oils	–	–	7,163	–	38	7,201	232
Residuum	667	–	7,680	–	38	8,385	270
Motor Gasoline Blend.Comp. (MGBC)	10,087	524	1,542	129	3,203	15,485	500
Reformulated - RBOB	3,829	–	292	–	316	4,437	143
Conventional	6,258	524	1,250	129	2,887	11,048	356
CBOB	1,194	45	–	–	629	1,868	60
GTAB	1,403	–	–	–	401	1,804	58
Other	3,661	479	1,250	129	1,857	7,376	238
Aviation Gasoline Blend. Comp.	–	–	–	–	–	–	–
Finished Petroleum Products	**10,127**	**1,666**	**3,536**	**232**	**4,791**	**20,352**	**657**
Finished Motor Gasoline	1,883	–	–	–	1,019	2,902	94
Reformulated	–	–	–	–	–	–	–
Reformulated Blended with Fuel Ethanol	–	–	–	–	–	–	–
Reformulated Other	–	–	–	–	–	–	–
Conventional	1,883	–	–	–	1,019	2,902	94
Conventional Blended with Fuel Ethanol	–	–	–	–	–	–	–
Ed55 and Lower	–	–	–	–	–	–	–
Greater than Ed55	–	–	–	–	–	–	–
Conventional Other	1,883	–	–	–	1,019	2,902	94
Finished Aviation Gasoline	–	3	–	–	1	4	0
Kerosene-Type Jet Fuel	1,148	–	–	76	3,262	4,486	145
Bonded Aircraft Fuel	35	–	–	–	1,052	1,087	35
Other	1,113	–	–	76	2,210	3,399	110
Kerosene	–	–	–	–	–	–	–
Distillate Fuel Oil	3,958	258	240	49	308	4,813	155
15 ppm sulfur and under	3,956	221	240	49	308	4,774	154
Bonded	–	–	240	–	–	240	8
Other	3,956	221	–	49	308	4,534	146
Greater than 15 ppm to 500 ppm sulfur	2	7	–	–	–	9	0
Bonded	–	–	–	–	–	–	–
Other	2	7	–	–	–	9	0
Greater than 500 ppm to 2000 ppm sulfur	–	30	–	–	–	30	1
Bonded	–	–	–	–	–	–	–
Other	–	30	–	–	–	30	1
Greater than 2000 ppm	–	–	–	–	–	–	–
Bonded	–	–	–	–	–	–	–
Other	–	–	–	–	–	–	–
Residual Fuel Oil	2,034	32	1,328	4	–	3,398	110
Less than 0.31 percent sulfur	525	–	–	–	–	525	17
0.31 to 1.00 percent sulfur	546	7	–	4	–	557	18
Greater than 1.00 percent sulfur	963	25	1,328	–	–	2,316	75
Petrochemical Feedstocks	3	151	354	–	–	508	16
Naphtha for Petro. Feed. Use	2	86	233	–	–	321	10
Other Oils for Petro. Feed. Use	1	65	121	–	–	187	6
Special Naphthas	3	6	490	–	23	522	17
Lubricants	148	286	844	–	67	1,345	43
Waxes	107	10	16	–	7	140	5
Petroleum Coke (Marketable)	–	8	264	–	–	272	9
Asphalt and Road Oil	843	912	–	103	104	1,962	63
Miscellaneous Products	–	–	–	–	–	–	–
Total	**39,893**	**91,017**	**65,820**	**9,329**	**49,255**	**255,314**	**8,236**

– – = Not Applicable.
– = No Data Reported.
1 Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.
2 Includes crude oil imported for storage in the Strategic Petroleum Reserve.
3 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
Note: Totals may not equal sum of components due to independent rounding.
Data source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 38. Year-to-Date Imports of Crude Oil and Petroleum Products by PAD District, January-March 2023
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil[1,2]	**49,255**	**258,414**	**133,940**	**25,723**	**107,116**	**574,448**	**6,383**
Hydrocarbon Gas Liquids	**5,075**	**6,767**	**9**	**2,762**	**5,184**	**19,797**	**220**
Natural Gas Liquids	4,231	5,908	9	2,761	5,184	18,093	201
Ethane	–	–	–	–	–	–	–
Propane	4,169	3,820	–	2,658	3,595	14,242	158
Normal Butane	49	1,413	9	99	1,578	3,148	35
Isobutane	13	668	–	–	11	692	8
Natural Gasoline	–	7	–	4	–	11	0
Refinery Olefins	844	859	–	1	–	1,704	19
Ethylene	–	–	–	–	–	–	–
Propylene	844	499	–	1	–	1,344	15
Normal Butylene	–	360	–	–	–	360	4
Isobutylene	–	–	–	–	–	–	–
Other Liquids	**41,152**	**2,173**	**44,826**	**414**	**10,544**	**99,109**	**1,101**
Hydrogen/Biofuels/Other Hydrocarbons	1,512	301	689	34	2,242	4,778	53
Hydrogen	–	–	–	–	–	–	–
Biofuels (including Fuel Ethanol)	1,512	301	674	34	2,242	4,763	53
Fuel Ethanol	–	–	–	–	–	–	–
Biodiesel	1,512	301	621	34	330	2,798	31
Renewable Diesel Fuel	–	–	53	–	1,912	1,965	22
Other Biofuels[3]	–	–	–	–	–	–	–
Other Hydrocarbons	–	–	15	–	–	15	0
Unfinished Oils[1]	4,315	–	40,025	–	3,839	48,179	535
Naphthas and Lighter	1,879	–	317	–	–	2,196	24
Kerosene and Lighter Gas Oils	–	–	–	–	–	–	–
Heavy Gas Oils	1,330	–	21,643	–	3,547	26,520	295
Residuum	1,106	–	18,065	–	292	19,463	216
Motor Gasoline Blend.Comp. (MGBC)	35,325	1,872	4,112	380	4,463	46,152	513
Reformulated - RBOB	12,446	–	292	–	458	13,196	147
Conventional	22,879	1,872	3,820	380	4,005	32,956	366
CBOB	3,782	262	–	–	629	4,673	52
GTAB	4,218	–	–	–	401	4,619	51
Other	14,879	1,610	3,820	380	2,975	23,664	263
Aviation Gasoline Blend. Comp.	–	–	–	–	–	–	–
Finished Petroleum Products	40,759	4,707	11,835	494	13,618	71,413	793
Finished Motor Gasoline	6,893	–	5	–	1,480	8,378	93
Reformulated	–	–	–	–	–	–	–
Reformulated Blended with Fuel Ethanol	–	–	–	–	–	–	–
Reformulated Other	–	–	–	–	–	–	–
Conventional	6,893	–	5	–	1,480	8,378	93
Conventional Blended with Fuel Ethanol	–	–	–	–	–	–	–
Ed55 and Lower	–	–	–	–	–	–	–
Greater than Ed55	–	–	–	–	–	–	–
Conventional Other	6,893	–	5	–	1,480	8,378	93
Finished Aviation Gasoline	18	12	–	–	2	32	0
Kerosene-Type Jet Fuel	4,516	–	–	130	8,682	13,328	148
Bonded Aircraft Fuel	101	–	–	–	2,725	2,826	31
Other	4,415	–	–	130	5,957	10,502	117
Kerosene	504	–	–	–	–	504	6
Distillate Fuel Oil	18,963	910	540	85	1,208	21,706	241
15 ppm sulfur and under	18,830	851	540	85	1,208	21,514	239
Bonded	–	–	240	–	–	240	3
Other	18,830	851	300	85	1,208	21,274	236
Greater than 15 ppm to 500 ppm sulfur	2	12	–	–	–	14	0
Bonded	–	–	–	–	–	–	–
Other	2	12	–	–	–	14	0
Greater than 500 ppm to 2000 ppm sulfur	131	47	–	–	–	178	2
Bonded	–	–	–	–	–	–	–
Other	131	47	–	–	–	178	2
Greater than 2000 ppm	–	–	–	–	–	–	–
Bonded	–	–	–	–	–	–	–
Other	–	–	–	–	–	–	–
Residual Fuel Oil	6,842	222	5,543	15	1,559	14,181	158
Less than 0.31 percent sulfur	998	–	65	11	240	1,314	15
0.31 to 1.00 percent sulfur	2,020	22	570	4	1,282	3,898	43
Greater than 1.00 percent sulfur	3,824	200	4,908	–	37	8,969	100
Petrochemical Feedstocks	131	497	740	–	66	1,434	16
Naphtha for Petro. Feed. Use	97	279	409	–	66	851	9
Other Oils for Petro. Feed. Use	34	218	331	–	–	583	6
Special Naphthas	7	10	1,203	1	97	1,318	15
Lubricants	367	745	2,783	–	112	4,007	45
Waxes	277	37	24	–	26	364	4
Petroleum Coke (Marketable)	–	36	997	–	–	1,033	11
Asphalt and Road Oil	2,241	2,238	–	263	386	5,128	57
Miscellaneous Products	–	–	–	–	–	–	–
Total	136,241	272,061	190,610	29,393	136,462	764,767	8,497

– – = Not Applicable.
– = No Data Reported.
1 Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.
2 Includes crude oil imported for storage in the Strategic Petroleum Reserve.
3 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
Note: Totals may not equal sum of components due to independent rounding.
Data source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, March 2023
(Thousand Barrels)

Country of Origin	Crude Oil[1,2]	Natural Gas Liquids	Refinery Olefins	Unfinished Oils[1]	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reform-ulated	Conven-tional	Total	Reform-ulated	Conven-tional	Total
OPEC	**34,738**	**318**	**–**	**5,632**	**–**	**–**	**–**	**130**	**1,143**	**1,273**
Algeria	–	–	–	319	–	–	–	–	–	–
Angola	764	–	–	–	–	–	–	–	323	323
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–	–
Equatorial Guinea	863	318	–	–	–	–	–	–	–	–
Gabon	–	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–	–
Iraq	6,910	–	–	4,449	–	–	–	–	–	–
Kuwait	362	–	–	–	–	–	–	–	69	69
Libya	1,740	–	–	–	–	–	–	–	–	–
Nigeria	6,058	–	–	–	–	–	–	–	–	–
Saudi Arabia	13,230	–	–	864	–	–	–	–	751	751
United Arab Emirates	1,428	–	–	–	–	–	–	130	–	130
Venezuela	3,383	–	–	–	–	–	–	–	–	–
Non-OPEC	**160,422**	**5,383**	**600**	**10,682**	**–**	**2,902**	**2,902**	**4,307**	**9,905**	**14,212**
Argentina	1,388	–	–	50	–	–	–	–	317	317
Aruba	–	–	–	–	–	–	–	–	–	–
Australia	–	–	–	–	–	–	–	–	–	–
Bahamas	–	–	–	–	–	312	312	–	327	327
Bahrain	–	–	–	–	–	–	–	–	–	–
Belgium	–	–	–	1,383	–	–	–	148	190	338
Brazil	4,498	–	–	1,175	–	–	–	–	157	157
Brunei	–	–	–	–	–	–	–	–	–	–
Cameroon	–	–	–	–	–	–	–	–	–	–
Canada	118,511	5,383	600	76	–	360	360	2,503	1,889	4,392
Chad	–	–	–	–	–	–	–	–	–	–
China	–	–	–	–	–	323	323	–	–	–
Colombia	6,070	–	–	417	–	–	–	–	–	–
Denmark	–	–	–	–	–	–	–	–	–	–
Ecuador	3,087	–	–	352	–	–	–	–	–	–
Egypt	–	–	–	–	–	–	–	–	–	–
Estonia	–	–	–	–	–	–	–	–	–	–
Finland	–	–	–	–	–	–	–	–	–	–
France	–	–	–	139	–	296	296	–	483	483
Germany	–	–	–	–	–	–	–	–	37	37
Guatemala	–	–	–	–	–	–	–	–	–	–
India	–	–	–	132	–	–	–	232	1,942	2,174
Indonesia	–	–	–	–	–	–	–	–	–	–
Italy	–	–	–	–	–	15	15	–	311	311
Korea, South	–	–	–	–	–	565	565	–	802	802
Latvia	–	–	–	–	–	–	–	–	–	–
Lithuania	–	–	–	–	–	–	–	–	–	–
Malaysia	–	–	–	1,488	–	–	–	–	269	269
Mexico	22,359	–	–	4,403	–	–	–	–	–	–
Netherlands	–	–	–	–	–	639	639	642	432	1,074
Norway	7	–	–	–	–	–	–	–	–	–
Oman	–	–	–	–	–	–	–	–	185	185
Portugal	–	–	–	–	–	–	–	–	–	–
Qatar	517	–	–	–	–	–	–	–	–	–
Russia	–	–	–	–	–	–	–	–	–	–
Spain	–	–	–	117	–	328	328	–	793	793
Sweden	–	–	–	–	–	–	–	–	300	300
Syria	–	–	–	–	–	–	–	–	–	–
Trinidad and Tobago	525	–	–	–	–	–	–	–	–	–
United Kingdom	324	–	–	–	–	–	–	782	302	1,084
Vietnam	–	–	–	–	–	–	–	–	–	–
Virgin Islands, U.S.	–	–	–	–	–	–	–	–	–	–
Yemen	–	–	–	–	–	–	–	–	–	–
Other	3,136	0	0	950	–	64	64	0	1,169	1,169
Total	**195,160**	**5,701**	**600**	**16,314**	**–**	**2,902**	**2,902**	**4,437**	**11,048**	**15,485**
Persian Gulf[4]	**22,447**	**–**	**–**	**5,313**	**–**	**–**	**–**	**130**	**820**	**950**

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, March 2023
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels[3]	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	**–**	**–**	**–**	**–**	**308**	**–**	**–**	**–**	**308**	**–**	**–**
Algeria	–	–	–	–	–	–	–	–	–	–	–
Angola	–	–	–	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–	–	–
Equatorial Guinea	–	–	–	–	–	–	–	–	–	–	–
Gabon	–	–	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–	–	–
Iraq	–	–	–	–	–	–	–	–	–	–	–
Kuwait	–	–	–	–	–	–	–	–	–	–	–
Libya	–	–	–	–	–	–	–	–	–	–	–
Nigeria	–	–	–	–	308	–	–	–	308	–	–
Saudi Arabia	–	–	–	–	–	–	–	–	–	–	–
United Arab Emirates	–	–	–	–	–	–	–	–	–	–	–
Venezuela	–	–	–	–	–	–	–	–	–	–	–
Non-OPEC	**–**	**916**	**786**	**–**	**4,466**	**9**	**30**	**–**	**4,505**	**–**	**4**
Argentina	–	–	–	–	–	–	–	–	–	–	–
Aruba	–	–	–	–	–	–	–	–	–	–	–
Australia	–	–	–	–	–	–	–	–	–	–	–
Bahamas	–	–	–	–	–	–	–	–	–	–	–
Bahrain	–	–	–	–	–	–	–	–	–	–	–
Belgium	–	–	–	–	–	–	–	–	–	–	–
Brazil	–	90	–	–	–	–	–	–	–	–	–
Brunei	–	–	–	–	–	–	–	–	–	–	–
Cameroon	–	–	–	–	–	–	–	–	–	–	–
Canada	–	303	–	–	4,179	9	30	–	4,218	–	4
Chad	–	–	–	–	–	–	–	–	–	–	–
China	–	–	–	–	–	–	–	–	–	–	–
Colombia	–	–	–	–	240	–	–	–	240	–	–
Denmark	–	–	–	–	–	–	–	–	–	–	–
Ecuador	–	–	–	–	–	–	–	–	–	–	–
Egypt	–	–	–	–	–	–	–	–	–	–	–
Estonia	–	–	–	–	–	–	–	–	–	–	–
Finland	–	–	53	–	–	–	–	–	–	–	–
France	–	–	–	–	–	–	–	–	–	–	–
Germany	–	236	–	–	–	–	–	–	–	–	–
Guatemala	–	–	–	–	–	–	–	–	–	–	–
India	–	–	–	–	–	–	–	–	–	–	–
Indonesia	–	–	–	–	–	–	–	–	–	–	–
Italy	–	68	–	–	–	–	–	–	–	–	–
Korea, South	–	36	–	–	47	–	–	–	47	–	–
Latvia	–	–	–	–	–	–	–	–	–	–	–
Lithuania	–	–	–	–	–	–	–	–	–	–	–
Malaysia	–	–	–	–	–	–	–	–	–	–	–
Mexico	–	–	–	–	–	–	–	–	–	–	–
Netherlands	–	37	14	–	–	–	–	–	–	–	–
Norway	–	–	–	–	–	–	–	–	–	–	–
Oman	–	–	–	–	–	–	–	–	–	–	–
Portugal	–	–	–	–	–	–	–	–	–	–	–
Qatar	–	–	–	–	–	–	–	–	–	–	–
Russia	–	–	–	–	–	–	–	–	–	–	–
Spain	–	146	–	–	–	–	–	–	–	–	–
Sweden	–	–	–	–	–	–	–	–	–	–	–
Syria	–	–	–	–	–	–	–	–	–	–	–
Trinidad and Tobago	–	–	–	–	–	–	–	–	–	–	–
United Kingdom	–	–	–	–	–	–	–	–	–	–	–
Vietnam	–	–	–	–	–	–	–	–	–	–	–
Virgin Islands, U.S.	–	–	–	–	–	–	–	–	–	–	–
Yemen	–	–	–	–	–	–	–	–	–	–	–
Other	–	0	719	–	0	0	0	–	0	–	0
Total	**–**	**916**	**786**	**–**	**4,774**	**9**	**30**	**–**	**4,813**	**–**	**4**
Persian Gulf[4]	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**–**

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, March 2023
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
OPEC	**–**	**486**	**–**	**525**	**116**	**38**	**679**	**–**	**–**
Algeria	–	–	–	525	116	–	641	–	–
Angola	–	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–
Equatorial Guinea	–	–	–	–	–	–	–	–	–
Gabon	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–
Iraq	–	–	–	–	–	35	35	–	–
Kuwait	–	345	–	–	–	–	–	–	–
Libya	–	–	–	–	–	–	–	–	–
Nigeria	–	–	–	–	–	3	3	–	–
Saudi Arabia	–	141	–	–	–	–	–	–	–
United Arab Emirates	–	–	–	–	–	–	–	–	–
Venezuela	–	–	–	–	–	–	–	–	–
Non-OPEC	**–**	**4,000**	**522**	**–**	**441**	**2,278**	**2,719**	**321**	**187**
Argentina	–	–	–	–	–	–	–	–	–
Aruba	–	–	–	–	–	–	–	–	–
Australia	–	–	–	–	–	–	–	–	–
Bahamas	–	–	–	–	2	–	2	–	–
Bahrain	–	–	–	–	–	–	–	–	–
Belgium	–	–	–	–	–	–	–	–	–
Brazil	–	–	–	–	–	–	–	–	–
Brunei	–	–	–	–	–	–	–	–	–
Cameroon	–	–	–	–	–	–	–	–	–
Canada	–	350	202	–	104	105	209	88	66
Chad	–	–	–	–	–	–	–	–	–
China	–	330	–	–	–	–	–	–	–
Colombia	–	–	–	–	–	64	64	–	–
Denmark	–	–	–	–	–	–	–	–	–
Ecuador	–	–	–	–	–	2	2	–	–
Egypt	–	–	–	–	–	–	–	–	–
Estonia	–	–	–	–	–	–	–	–	–
Finland	–	–	–	–	–	–	–	–	–
France	–	–	24	–	–	–	–	–	8
Germany	–	–	–	–	–	–	–	–	–
Guatemala	–	–	–	–	–	–	–	–	–
India	–	351	–	–	–	49	49	136	–
Indonesia	–	–	–	–	–	–	–	–	–
Italy	–	49	–	–	–	–	–	–	–
Korea, South	–	2,111	202	–	–	–	–	–	–
Latvia	–	–	–	–	–	–	–	–	–
Lithuania	–	–	–	–	–	–	–	–	–
Malaysia	–	–	–	–	–	–	–	–	–
Mexico	–	8	–	–	–	1,977	1,977	54	113
Netherlands	–	–	94	–	–	60	60	–	–
Norway	–	–	–	–	–	–	–	–	–
Oman	–	–	–	–	–	–	–	–	–
Portugal	–	–	–	–	–	–	–	–	–
Qatar	–	–	–	–	–	–	–	–	–
Russia	–	–	–	–	–	–	–	–	–
Spain	–	–	–	–	–	–	–	–	–
Sweden	–	–	–	–	–	–	–	–	–
Syria	–	–	–	–	–	–	–	–	–
Trinidad and Tobago	–	–	–	–	–	–	–	–	–
United Kingdom	–	–	–	–	335	–	335	–	–
Vietnam	–	–	–	–	–	–	–	–	–
Virgin Islands, U.S.	–	–	–	–	–	–	–	–	–
Yemen	–	–	–	–	–	–	–	–	–
Other	–	801	0	0	0	21	21	43	0
Total	**–**	**4,486**	**522**	**525**	**557**	**2,316**	**3,398**	**321**	**187**
Persian Gulf[4]	**–**	**486**	**–**	**–**	**–**	**35**	**35**	**–**	**–**

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, March 2023
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
OPEC	**–**	**–**	**–**	**105**	**–**	**8,801**	**43,539**	**1,121**	**284**	**1,404**
Algeria	–	–	–	–	–	960	960	–	31	31
Angola	–	–	–	–	–	323	1,087	25	10	35
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–	–
Equatorial Guinea	–	–	–	–	–	318	1,181	28	10	38
Gabon	–	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–	–
Iraq	–	–	–	–	–	4,484	11,394	223	145	368
Kuwait	–	–	–	–	–	414	776	12	13	25
Libya	–	–	–	–	–	–	1,740	56	–	56
Nigeria	–	–	–	–	–	311	6,369	195	10	205
Saudi Arabia	–	–	–	–	–	1,756	14,986	427	57	483
United Arab Emirates	–	–	–	105	–	235	1,663	46	8	54
Venezuela	–	–	–	–	–	–	3,383	109	–	109
Non-OPEC	**140**	**272**	**1,962**	**1,240**	**–**	**51,353**	**211,775**	**5,175**	**1,657**	**6,831**
Argentina	–	216	–	–	–	583	1,971	45	19	64
Aruba	–	–	–	–	–	–	–	–	–	–
Australia	–	–	–	–	–	–	–	–	–	–
Bahamas	–	–	–	–	–	641	641	–	21	21
Bahrain	–	–	–	63	–	63	63	–	2	2
Belgium	–	–	–	1	–	1,722	1,722	–	56	56
Brazil	–	40	–	–	–	1,462	5,960	145	47	192
Brunei	–	–	–	–	–	–	–	–	–	–
Cameroon	–	–	–	–	–	–	–	–	–	–
Canada	82	8	1,931	374	–	18,646	137,157	3,823	601	4,424
Chad	–	–	–	–	–	–	–	–	–	–
China	28	–	–	–	–	681	681	–	22	22
Colombia	–	–	–	–	–	721	6,791	196	23	219
Denmark	–	–	–	–	–	–	–	–	–	–
Ecuador	–	–	–	–	–	354	3,441	100	11	111
Egypt	–	–	–	–	–	–	–	–	–	–
Estonia	–	–	–	–	–	–	–	–	–	–
Finland	–	–	–	–	–	53	53	–	2	2
France	–	–	–	8	–	958	958	–	31	31
Germany	–	–	–	19	–	292	292	–	9	9
Guatemala	–	–	–	–	–	–	–	–	–	–
India	–	–	–	–	–	2,842	2,842	–	92	92
Indonesia	–	–	–	75	–	75	75	–	2	2
Italy	–	–	31	9	–	483	483	–	16	16
Korea, South	1	–	–	522	–	4,286	4,286	–	138	138
Latvia	–	–	–	–	–	–	–	–	–	–
Lithuania	–	–	–	–	–	–	–	–	–	–
Malaysia	–	–	–	–	–	1,757	1,757	–	57	57
Mexico	–	–	–	–	–	6,555	28,914	721	211	933
Netherlands	–	–	–	50	–	1,968	1,968	–	63	63
Norway	–	–	–	–	–	–	7	0	–	0
Oman	–	–	–	–	–	185	185	–	6	6
Portugal	–	–	–	–	–	–	–	–	–	–
Qatar	–	–	–	118	–	118	635	17	4	20
Russia	–	–	–	–	–	–	–	–	–	–
Spain	1	–	–	–	–	1,385	1,385	–	45	45
Sweden	–	–	–	1	–	301	301	–	10	10
Syria	–	–	–	–	–	–	–	–	–	–
Trinidad and Tobago	–	–	–	–	–	–	525	17	–	17
United Kingdom	–	8	–	–	–	1,427	1,751	10	46	56
Vietnam	–	–	–	–	–	–	–	–	–	–
Virgin Islands, U.S.	–	–	–	–	–	–	–	–	–	–
Yemen	–	–	–	–	–	–	–	–	–	–
Other	28	0	0	0	–	3,795	6,931	101	123	223
Total	**140**	**272**	**1,962**	**1,345**	**–**	**60,154**	**255,314**	**6,295**	**1,940**	**8,236**
Persian Gulf[4]	**–**	**–**	**–**	**286**	**–**	**7,070**	**29,517**	**724**	**228**	**952**

– – = Not Applicable.
– = 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 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
4 Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.
Note: Totals may not equal sum of components due to independent rounding.
Data source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-March 2023
(Thousand Barrels)

Country of Origin	Crude Oil[1,2]	Natural Gas Liquids	Refinery Olefins	Unfinished Oils[1]	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reform-ulated	Conven-tional	Total	Reform-ulated	Conven-tional	Total
OPEC	**94,070**	**875**	**–**	**19,189**	**–**	**–**	**–**	**130**	**1,734**	**1,864**
Algeria	1,258	–	–	1,446	–	–	–	–	–	–
Angola	1,006	–	–	–	–	–	–	–	597	597
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–	–
Equatorial Guinea	863	875	–	–	–	–	–	–	–	–
Gabon	–	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–	–
Iraq	23,085	–	–	11,426	–	–	–	–	–	–
Kuwait	1,227	–	–	577	–	–	–	–	70	70
Libya	5,171	–	–	–	–	–	–	–	–	–
Nigeria	16,450	–	–	–	–	–	–	–	316	316
Saudi Arabia	37,328	–	–	5,370	–	–	–	–	751	751
United Arab Emirates	1,428	–	–	370	–	–	–	130	–	130
Venezuela	6,254	–	–	–	–	–	–	–	–	–
Non-OPEC	**480,378**	**17,218**	**1,704**	**28,990**	**–**	**8,378**	**8,378**	**13,066**	**31,222**	**44,288**
Argentina	4,009	–	–	294	–	–	–	–	845	845
Aruba	–	–	–	–	–	–	–	–	–	–
Australia	–	–	–	–	–	–	–	–	–	–
Bahamas	–	–	–	–	–	2,182	2,182	100	651	751
Bahrain	–	–	–	–	–	–	–	–	–	–
Belgium	–	–	–	2,057	–	315	315	148	530	678
Brazil	11,575	–	–	2,403	–	–	–	–	235	235
Brunei	–	–	–	–	–	–	–	–	–	–
Cameroon	617	–	–	–	–	–	–	–	–	–
Canada	352,265	17,107	1,704	357	–	963	963	6,888	5,836	12,724
Chad	–	–	–	–	–	–	–	–	–	–
China	–	–	–	–	–	323	323	–	–	–
Colombia	16,907	–	–	452	–	–	–	–	67	67
Denmark	–	–	–	–	–	–	–	–	–	–
Ecuador	11,280	–	–	1,596	–	–	–	–	–	–
Egypt	–	–	–	47	–	–	–	–	–	–
Estonia	–	–	–	–	–	–	–	–	–	–
Finland	–	–	–	–	–	338	338	–	589	589
France	–	–	–	200	–	1,146	1,146	294	935	1,229
Germany	–	–	–	9	–	–	–	–	80	80
Guatemala	–	–	–	–	–	–	–	–	–	–
India	–	–	–	2,081	–	54	54	232	4,926	5,158
Indonesia	–	–	–	134	–	–	–	–	–	–
Italy	–	–	–	480	–	18	18	311	3,413	3,724
Korea, South	–	–	–	–	–	990	990	–	1,575	1,575
Latvia	–	–	–	–	–	–	–	–	–	–
Lithuania	–	–	–	–	–	–	–	–	–	–
Malaysia	–	–	–	3,248	–	–	–	–	269	269
Mexico	66,646	–	–	10,787	–	–	–	–	230	230
Netherlands	–	–	–	764	–	734	734	2,028	2,427	4,455
Norway	127	–	–	–	–	495	495	–	974	974
Oman	–	–	–	–	–	–	–	–	185	185
Portugal	–	–	–	–	–	–	–	–	1,432	1,432
Qatar	517	–	–	–	–	–	–	–	–	–
Russia	–	–	–	–	–	–	–	–	–	–
Spain	–	–	–	434	–	328	328	–	2,651	2,651
Sweden	–	–	–	199	–	322	322	–	350	350
Syria	–	–	–	–	–	–	–	–	–	–
Trinidad and Tobago	1,416	111	–	–	–	–	–	–	–	–
United Kingdom	3,341	–	–	708	–	21	21	3,065	683	3,748
Vietnam	–	–	–	–	–	–	–	–	–	–
Virgin Islands, U.S.	–	–	–	–	–	–	–	–	–	–
Yemen	–	–	–	–	–	–	–	–	–	–
Other	11,678	0	0	2,740	–	149	149	0	2,339	2,339
Total	**574,448**	**18,093**	**1,704**	**48,179**	**–**	**8,378**	**8,378**	**13,196**	**32,956**	**46,152**
Persian Gulf[4]	**63,585**	**–**	**–**	**17,743**	**–**	**–**	**–**	**130**	**821**	**951**

See footnotes at end of table.

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-March 2023
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels[3]	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	**–**	**–**	**–**	**–**	**1,111**	**–**	**–**	**–**	**1,111**	**–**	**–**
Algeria	–	–	–	–	–	–	–	–	–	–	–
Angola	–	–	–	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–	–	–
Equatorial Guinea	–	–	–	–	–	–	–	–	–	–	–
Gabon	–	–	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–	–	–
Iraq	–	–	–	–	–	–	–	–	–	–	–
Kuwait	–	–	–	–	–	–	–	–	–	–	–
Libya	–	–	–	–	–	–	–	–	–	–	–
Nigeria	–	–	–	–	308	–	–	–	308	–	–
Saudi Arabia	–	–	–	–	750	–	–	–	750	–	–
United Arab Emirates	–	–	–	–	53	–	–	–	53	–	–
Venezuela	–	–	–	–	–	–	–	–	–	–	–
Non-OPEC	**–**	**2,798**	**1,965**	**–**	**20,403**	**14**	**178**	**–**	**20,595**	**504**	**32**
Argentina	–	–	–	–	–	–	–	–	–	–	–
Aruba	–	–	–	–	–	–	–	–	–	–	–
Australia	–	–	–	–	–	–	–	–	–	–	–
Bahamas	–	–	–	–	–	–	–	–	–	–	–
Bahrain	–	–	–	–	–	–	–	–	–	–	–
Belgium	–	–	–	–	70	–	–	–	70	–	–
Brazil	–	90	–	–	–	–	–	–	–	–	–
Brunei	–	–	–	–	–	–	–	–	–	–	–
Cameroon	–	–	–	–	–	–	–	–	–	–	–
Canada	–	816	–	–	14,018	14	47	–	14,079	–	14
Chad	–	–	–	–	–	–	–	–	–	–	–
China	–	–	–	–	–	–	–	–	–	–	–
Colombia	–	–	–	–	560	–	–	–	560	–	–
Denmark	–	–	–	–	–	–	–	–	–	–	–
Ecuador	–	–	–	–	–	–	–	–	–	–	–
Egypt	–	–	–	–	–	–	–	–	–	–	–
Estonia	–	–	–	–	–	–	–	–	–	–	–
Finland	–	–	53	–	–	–	–	–	–	–	–
France	–	–	–	–	–	–	–	–	–	–	–
Germany	–	1,083	–	–	–	–	–	–	–	–	–
Guatemala	–	–	–	–	–	–	–	–	–	–	–
India	–	–	–	–	3,088	–	–	–	3,088	504	–
Indonesia	–	–	–	–	–	–	–	–	–	–	–
Italy	–	278	–	–	–	–	–	–	–	–	–
Korea, South	–	86	–	–	452	–	–	–	452	–	–
Latvia	–	–	–	–	–	–	–	–	–	–	–
Lithuania	–	–	–	–	–	–	–	–	–	–	–
Malaysia	–	–	–	–	–	–	–	–	–	–	–
Mexico	–	–	–	–	300	–	–	–	300	–	–
Netherlands	–	37	61	–	55	–	117	–	172	–	18
Norway	–	–	–	–	–	–	14	–	14	–	–
Oman	–	–	–	–	–	–	–	–	–	–	–
Portugal	–	–	–	–	–	–	–	–	–	–	–
Qatar	–	–	–	–	1,106	–	–	–	1,106	–	–
Russia	–	–	–	–	–	–	–	–	–	–	–
Spain	–	408	–	–	–	–	–	–	–	–	–
Sweden	–	–	–	–	–	–	–	–	–	–	–
Syria	–	–	–	–	–	–	–	–	–	–	–
Trinidad and Tobago	–	–	–	–	–	–	–	–	–	–	–
United Kingdom	–	–	–	–	–	–	–	–	–	–	–
Vietnam	–	–	–	–	–	–	–	–	–	–	–
Virgin Islands, U.S.	–	–	–	–	–	–	–	–	–	–	–
Yemen	–	–	–	–	–	–	–	–	–	–	–
Other	–	0	1,851	–	754	0	0	–	754	0	0
Total	**–**	**2,798**	**1,965**	**–**	**21,514**	**14**	**178**	**–**	**21,706**	**504**	**32**
Persian Gulf[4]	**–**	**–**	**–**	**–**	**1,909**	**–**	**–**	**–**	**1,909**	**–**	**–**

See footnotes at end of table.

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-March 2023
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
OPEC	**–**	**2,162**	**–**	**998**	**355**	**795**	**2,148**	**–**	**–**
Algeria	–	–	–	998	229	–	1,227	–	–
Angola	–	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	126	–	126	–	–
Equatorial Guinea	–	–	–	–	–	–	–	–	–
Gabon	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–
Iraq	–	4	–	–	–	523	523	–	–
Kuwait	–	1,720	–	–	–	–	–	–	–
Libya	–	–	–	–	–	–	–	–	–
Nigeria	–	–	–	–	–	3	3	–	–
Saudi Arabia	–	279	–	–	–	269	269	–	–
United Arab Emirates	–	159	–	–	–	–	–	–	–
Venezuela	–	–	–	–	–	–	–	–	–
Non-OPEC	**–**	**11,166**	**1,318**	**316**	**3,543**	**8,174**	**12,033**	**851**	**583**
Argentina	–	–	–	–	–	–	–	–	50
Aruba	–	–	–	–	–	–	–	–	–
Australia	–	–	–	–	–	–	–	–	–
Bahamas	–	–	–	–	20	–	20	–	–
Bahrain	–	–	–	–	–	–	–	–	–
Belgium	–	–	–	–	301	–	301	–	–
Brazil	–	–	–	–	–	657	657	–	–
Brunei	–	–	–	–	–	–	–	–	–
Cameroon	–	–	–	–	–	–	–	–	–
Canada	–	747	335	76	236	520	832	285	221
Chad	–	–	–	–	–	–	–	–	–
China	–	935	–	–	–	–	–	–	–
Colombia	–	–	–	–	–	1,023	1,023	–	–
Denmark	–	–	–	–	33	–	33	–	–
Ecuador	–	–	–	–	110	2	112	–	–
Egypt	–	–	–	–	–	–	–	–	–
Estonia	–	–	–	–	–	–	–	–	–
Finland	–	–	–	–	19	–	19	–	–
France	–	–	24	–	–	–	–	–	8
Germany	–	–	14	–	53	–	53	–	–
Guatemala	–	–	–	–	–	–	–	–	–
India	–	1,375	–	240	–	49	289	136	–
Indonesia	–	–	–	–	–	–	–	–	–
Italy	–	49	–	–	–	–	–	91	–
Korea, South	–	6,063	760	–	–	–	–	67	–
Latvia	–	–	–	–	–	–	–	–	–
Lithuania	–	–	–	–	–	–	–	–	–
Malaysia	–	13	–	–	–	69	69	–	–
Mexico	–	13	–	–	8	5,057	5,065	150	304
Netherlands	–	–	170	–	332	109	441	–	–
Norway	–	15	–	–	–	–	–	–	–
Oman	–	–	–	–	–	–	–	–	–
Portugal	–	–	–	–	–	–	–	–	–
Qatar	–	–	–	–	–	–	–	13	–
Russia	–	–	–	–	–	–	–	–	–
Spain	–	–	–	–	–	–	–	–	–
Sweden	–	–	–	–	–	–	–	–	–
Syria	–	–	–	–	–	–	–	–	–
Trinidad and Tobago	–	–	–	–	–	–	–	–	–
United Kingdom	–	–	–	–	652	–	652	–	–
Vietnam	–	–	–	–	–	–	–	–	–
Virgin Islands, U.S.	–	–	–	–	–	–	–	–	–
Yemen	–	–	–	–	–	–	–	–	–
Other	–	1,956	15	0	1,779	688	2,467	109	0
Total	**–**	**13,328**	**1,318**	**1,314**	**3,898**	**8,969**	**14,181**	**851**	**583**
Persian Gulf[4]	**–**	**2,162**	**–**	**–**	**–**	**792**	**792**	**13**	**–**

See footnotes at end of table.

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-March 2023
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneo-us Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
OPEC	**–**	**–**	**–**	**367**	**–**	**27,716**	**121,786**	**1,045**	**308**	**1,353**
Algeria	–	–	–	–	–	2,673	3,931	14	30	44
Angola	–	–	–	–	–	597	1,603	11	7	18
Congo (Brazzaville)	–	–	–	–	–	126	126	–	1	1
Equatorial Guinea	–	–	–	–	–	875	1,738	10	10	19
Gabon	–	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–	–
Iraq	–	–	–	–	–	11,953	35,038	257	133	389
Kuwait	–	–	–	–	–	2,367	3,594	14	26	40
Libya	–	–	–	–	–	–	5,171	57	–	57
Nigeria	–	–	–	–	–	627	17,077	183	7	190
Saudi Arabia	–	–	–	–	–	7,419	44,747	415	82	497
United Arab Emirates	–	–	–	367	–	1,079	2,507	16	12	28
Venezuela	–	–	–	–	–	–	6,254	69	–	69
Non-OPEC	**364**	**1,033**	**5,128**	**3,640**	**–**	**162,603**	**642,981**	**5,338**	**1,807**	**7,144**
Argentina	–	449	–	4	–	1,642	5,651	45	18	63
Aruba	–	–	–	–	–	–	–	–	–	–
Australia	–	–	–	–	–	–	–	–	–	–
Bahamas	–	–	–	–	–	2,953	2,953	–	33	33
Bahrain	–	–	–	202	–	202	202	–	2	2
Belgium	–	–	–	7	–	3,428	3,428	–	38	38
Brazil	–	40	–	–	–	3,425	15,000	129	38	167
Brunei	–	–	–	–	–	–	–	–	–	–
Cameroon	–	–	–	–	–	–	617	7	–	7
Canada	268	36	4,917	983	–	56,388	408,653	3,914	627	4,541
Chad	–	–	–	–	–	–	–	–	–	–
China	36	–	–	–	–	1,294	1,294	–	14	14
Colombia	–	196	72	–	–	2,370	19,277	188	26	214
Denmark	–	–	–	–	–	33	33	–	0	0
Ecuador	–	–	–	–	–	1,708	12,988	125	19	144
Egypt	–	–	–	–	–	47	47	–	1	1
Estonia	–	–	–	–	–	–	–	–	–	–
Finland	–	–	–	–	–	999	999	–	11	11
France	–	–	–	28	–	2,635	2,635	–	29	29
Germany	–	–	–	39	–	1,278	1,278	–	14	14
Guatemala	–	–	–	–	–	–	–	–	–	–
India	–	–	–	–	–	12,685	12,685	–	141	141
Indonesia	–	–	–	286	–	420	420	–	5	5
Italy	–	–	31	22	–	4,693	4,693	–	52	52
Korea, South	2	–	–	1,088	–	11,083	11,083	–	123	123
Latvia	–	–	–	–	–	–	–	–	–	–
Lithuania	–	–	–	–	–	–	–	–	–	–
Malaysia	8	–	–	–	–	3,607	3,607	–	40	40
Mexico	–	–	–	–	–	16,849	83,495	741	187	928
Netherlands	–	140	–	206	–	7,198	7,198	–	80	80
Norway	–	–	–	–	–	1,498	1,625	1	17	18
Oman	–	–	–	–	–	185	185	–	2	2
Portugal	–	–	–	–	–	1,432	1,432	–	16	16
Qatar	–	–	–	771	–	1,890	2,407	6	21	27
Russia	–	–	–	–	–	–	–	–	–	–
Spain	1	–	108	–	–	3,930	3,930	–	44	44
Sweden	–	–	–	2	–	873	873	–	10	10
Syria	–	–	–	–	–	–	–	–	–	–
Trinidad and Tobago	–	–	–	–	–	111	1,527	16	1	17
United Kingdom	–	8	–	–	–	5,137	8,478	37	57	94
Vietnam	–	–	–	–	–	–	–	–	–	–
Virgin Islands, U.S.	–	–	–	–	–	–	–	–	–	–
Yemen	–	–	–	–	–	–	–	–	–	–
Other	49	164	0	2	–	12,610	24,288	129	141	269
Total	**364**	**1,033**	**5,128**	**4,007**	**–**	**190,319**	**764,767**	**6,383**	**2,115**	**8,497**
Persian Gulf[4]	**–**	**–**	**–**	**1,340**	**–**	**24,910**	**88,495**	**707**	**277**	**983**

– – = Not Applicable.
– = 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 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
4 Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.
Note: Totals may not equal sum of components due to independent rounding.
Data source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, March 2023
(Thousand Barrels)

Country of Origin	Crude Oil[1,2]	Natural Gas Liquids	Refinery Olefins	Unfinished Oils[1]	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reform-ulated	Conven-tional	Total	Reform-ulated	Conven-tional	Total
OPEC	**8,582**	**257**	**–**	**–**	**–**	**–**	**–**	**–**	**979**	**979**
Algeria	–	–	–	–	–	–	–	–	–	–
Angola	764	–	–	–	–	–	–	–	323	323
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–	–
Equatorial Guinea	–	257	–	–	–	–	–	–	–	–
Gabon	–	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–	–
Iraq	–	–	–	–	–	–	–	–	–	–
Kuwait	–	–	–	–	–	–	–	–	–	–
Libya	699	–	–	–	–	–	–	–	–	–
Nigeria	6,058	–	–	–	–	–	–	–	–	–
Saudi Arabia	1,061	–	–	–	–	–	–	–	656	656
United Arab Emirates	–	–	–	–	–	–	–	–	–	–
Venezuela	–	–	–	–	–	–	–	–	–	–
Non-OPEC	**7,595**	**1,125**	**284**	**1,395**	**–**	**1,883**	**1,883**	**3,829**	**5,279**	**9,108**
Argentina	474	–	–	50	–	–	–	–	317	317
Aruba	–	–	–	–	–	–	–	–	–	–
Australia	–	–	–	–	–	–	–	–	–	–
Bahamas	–	–	–	–	–	312	312	–	–	–
Bahrain	–	–	–	–	–	–	–	–	–	–
Belgium	–	–	–	250	–	–	–	148	–	148
Brazil	–	–	–	120	–	–	–	–	143	143
Brunei	–	–	–	–	–	–	–	–	–	–
Cameroon	–	–	–	–	–	–	–	–	–	–
Canada	3,979	1,125	284	–	–	293	293	2,503	1,194	3,697
Chad	–	–	–	–	–	–	–	–	–	–
China	–	–	–	–	–	–	–	–	–	–
Colombia	501	–	–	417	–	–	–	–	–	–
Denmark	–	–	–	–	–	–	–	–	–	–
Ecuador	–	–	–	–	–	–	–	–	–	–
Egypt	–	–	–	–	–	–	–	–	–	–
Estonia	–	–	–	–	–	–	–	–	–	–
Finland	–	–	–	–	–	–	–	–	–	–
France	–	–	–	139	–	296	296	–	483	483
Germany	–	–	–	–	–	–	–	–	–	–
Guatemala	–	–	–	–	–	–	–	–	–	–
India	–	–	–	–	–	–	–	70	796	866
Indonesia	–	–	–	–	–	–	–	–	–	–
Italy	–	–	–	–	–	15	15	–	311	311
Korea, South	–	–	–	–	–	–	–	–	–	–
Latvia	–	–	–	–	–	–	–	–	–	–
Lithuania	–	–	–	–	–	–	–	–	–	–
Malaysia	–	–	–	–	–	–	–	–	192	192
Mexico	2,491	–	–	–	–	–	–	–	–	–
Netherlands	–	–	–	–	–	639	639	326	308	634
Norway	7	–	–	–	–	–	–	–	–	–
Oman	–	–	–	–	–	–	–	–	–	–
Portugal	–	–	–	–	–	–	–	–	–	–
Qatar	–	–	–	–	–	–	–	–	–	–
Russia	–	–	–	–	–	–	–	–	–	–
Spain	–	–	–	117	–	328	328	–	793	793
Sweden	–	–	–	–	–	–	–	–	300	300
Syria	–	–	–	–	–	–	–	–	–	–
Trinidad and Tobago	–	–	–	–	–	–	–	–	–	–
United Kingdom	–	–	–	–	–	–	–	782	–	782
Vietnam	–	–	–	–	–	–	–	–	–	–
Virgin Islands, U.S.	–	–	–	–	–	–	–	–	–	–
Yemen	–	–	–	–	–	–	–	–	–	–
Other	143	0	0	302	–	0	0	0	442	442
Total	**16,177**	**1,382**	**284**	**1,395**	**–**	**1,883**	**1,883**	**3,829**	**6,258**	**10,087**
Persian Gulf[4]	**1,061**	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**656**	**656**

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, March 2023
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels[3]	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	**–**	**–**	**–**	**–**	**308**	**–**	**–**	**–**	**308**	**–**	**–**
Algeria	–	–	–	–	–	–	–	–	–	–	–
Angola	–	–	–	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–	–	–
Equatorial Guinea	–	–	–	–	–	–	–	–	–	–	–
Gabon	–	–	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–	–	–
Iraq	–	–	–	–	–	–	–	–	–	–	–
Kuwait	–	–	–	–	–	–	–	–	–	–	–
Libya	–	–	–	–	–	–	–	–	–	–	–
Nigeria	–	–	–	–	308	–	–	–	308	–	–
Saudi Arabia	–	–	–	–	–	–	–	–	–	–	–
United Arab Emirates	–	–	–	–	–	–	–	–	–	–	–
Venezuela	–	–	–	–	–	–	–	–	–	–	–
Non-OPEC	**–**	**441**	**–**	**–**	**3,648**	**2**	**–**	**–**	**3,650**	**–**	**–**
Argentina	–	–	–	–	–	–	–	–	–	–	–
Aruba	–	–	–	–	–	–	–	–	–	–	–
Australia	–	–	–	–	–	–	–	–	–	–	–
Bahamas	–	–	–	–	–	–	–	–	–	–	–
Bahrain	–	–	–	–	–	–	–	–	–	–	–
Belgium	–	–	–	–	–	–	–	–	–	–	–
Brazil	–	90	–	–	–	–	–	–	–	–	–
Brunei	–	–	–	–	–	–	–	–	–	–	–
Cameroon	–	–	–	–	–	–	–	–	–	–	–
Canada	–	82	–	–	3,648	2	–	–	3,650	–	–
Chad	–	–	–	–	–	–	–	–	–	–	–
China	–	–	–	–	–	–	–	–	–	–	–
Colombia	–	–	–	–	–	–	–	–	–	–	–
Denmark	–	–	–	–	–	–	–	–	–	–	–
Ecuador	–	–	–	–	–	–	–	–	–	–	–
Egypt	–	–	–	–	–	–	–	–	–	–	–
Estonia	–	–	–	–	–	–	–	–	–	–	–
Finland	–	–	–	–	–	–	–	–	–	–	–
France	–	–	–	–	–	–	–	–	–	–	–
Germany	–	129	–	–	–	–	–	–	–	–	–
Guatemala	–	–	–	–	–	–	–	–	–	–	–
India	–	–	–	–	–	–	–	–	–	–	–
Indonesia	–	–	–	–	–	–	–	–	–	–	–
Italy	–	68	–	–	–	–	–	–	–	–	–
Korea, South	–	–	–	–	–	–	–	–	–	–	–
Latvia	–	–	–	–	–	–	–	–	–	–	–
Lithuania	–	–	–	–	–	–	–	–	–	–	–
Malaysia	–	–	–	–	–	–	–	–	–	–	–
Mexico	–	–	–	–	–	–	–	–	–	–	–
Netherlands	–	–	–	–	–	–	–	–	–	–	–
Norway	–	–	–	–	–	–	–	–	–	–	–
Oman	–	–	–	–	–	–	–	–	–	–	–
Portugal	–	–	–	–	–	–	–	–	–	–	–
Qatar	–	–	–	–	–	–	–	–	–	–	–
Russia	–	–	–	–	–	–	–	–	–	–	–
Spain	–	72	–	–	–	–	–	–	–	–	–
Sweden	–	–	–	–	–	–	–	–	–	–	–
Syria	–	–	–	–	–	–	–	–	–	–	–
Trinidad and Tobago	–	–	–	–	–	–	–	–	–	–	–
United Kingdom	–	–	–	–	–	–	–	–	–	–	–
Vietnam	–	–	–	–	–	–	–	–	–	–	–
Virgin Islands, U.S.	–	–	–	–	–	–	–	–	–	–	–
Yemen	–	–	–	–	–	–	–	–	–	–	–
Other	–	0	–	–	0	0	–	–	0	–	–
Total	**–**	**441**	**–**	**–**	**3,956**	**2**	**–**	**–**	**3,958**	**–**	**–**
Persian Gulf[4]	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**–**

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, March 2023
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
OPEC	**–**	**486**	**–**	**525**	**116**	**38**	**679**	**–**	**–**
Algeria	–	–	–	525	116	–	641	–	–
Angola	–	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–
Equatorial Guinea	–	–	–	–	–	–	–	–	–
Gabon	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–
Iraq	–	–	–	–	–	35	35	–	–
Kuwait	–	345	–	–	–	–	–	–	–
Libya	–	–	–	–	–	–	–	–	–
Nigeria	–	–	–	–	–	3	3	–	–
Saudi Arabia	–	141	–	–	–	–	–	–	–
United Arab Emirates	–	–	–	–	–	–	–	–	–
Venezuela	–	–	–	–	–	–	–	–	–
Non-OPEC	**–**	**662**	**3**	**–**	**430**	**925**	**1,355**	**2**	**1**
Argentina	–	–	–	–	–	–	–	–	–
Aruba	–	–	–	–	–	–	–	–	–
Australia	–	–	–	–	–	–	–	–	–
Bahamas	–	–	–	–	2	–	2	–	–
Bahrain	–	–	–	–	–	–	–	–	–
Belgium	–	–	–	–	–	–	–	–	–
Brazil	–	–	–	–	–	–	–	–	–
Brunei	–	–	–	–	–	–	–	–	–
Cameroon	–	–	–	–	–	–	–	–	–
Canada	–	254	3	–	93	80	173	2	1
Chad	–	–	–	–	–	–	–	–	–
China	–	–	–	–	–	–	–	–	–
Colombia	–	–	–	–	–	64	64	–	–
Denmark	–	–	–	–	–	–	–	–	–
Ecuador	–	–	–	–	–	2	2	–	–
Egypt	–	–	–	–	–	–	–	–	–
Estonia	–	–	–	–	–	–	–	–	–
Finland	–	–	–	–	–	–	–	–	–
France	–	–	–	–	–	–	–	–	–
Germany	–	–	–	–	–	–	–	–	–
Guatemala	–	–	–	–	–	–	–	–	–
India	–	351	–	–	–	49	49	–	–
Indonesia	–	–	–	–	–	–	–	–	–
Italy	–	49	–	–	–	–	–	–	–
Korea, South	–	–	–	–	–	–	–	–	–
Latvia	–	–	–	–	–	–	–	–	–
Lithuania	–	–	–	–	–	–	–	–	–
Malaysia	–	–	–	–	–	–	–	–	–
Mexico	–	8	–	–	–	649	649	–	–
Netherlands	–	–	–	–	–	60	60	–	–
Norway	–	–	–	–	–	–	–	–	–
Oman	–	–	–	–	–	–	–	–	–
Portugal	–	–	–	–	–	–	–	–	–
Qatar	–	–	–	–	–	–	–	–	–
Russia	–	–	–	–	–	–	–	–	–
Spain	–	–	–	–	–	–	–	–	–
Sweden	–	–	–	–	–	–	–	–	–
Syria	–	–	–	–	–	–	–	–	–
Trinidad and Tobago	–	–	–	–	–	–	–	–	–
United Kingdom	–	–	–	–	335	–	335	–	–
Vietnam	–	–	–	–	–	–	–	–	–
Virgin Islands, U.S.	–	–	–	–	–	–	–	–	–
Yemen	–	–	–	–	–	–	–	–	–
Other	–	0	0	0	0	21	21	0	0
Total	**–**	**1,148**	**3**	**525**	**546**	**963**	**2,034**	**2**	**1**
Persian Gulf[4]	**–**	**486**	**–**	**–**	**–**	**35**	**35**	**–**	**–**

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, March 2023
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
OPEC	**–**	**–**	**–**	**–**	**–**	**2,709**	**11,291**	**277**	**87**	**364**
Algeria	–	–	–	–	–	641	641	–	21	21
Angola	–	–	–	–	–	323	1,087	25	10	35
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–	–
Equatorial Guinea	–	–	–	–	–	257	257	–	8	8
Gabon	–	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–	–
Iraq	–	–	–	–	–	35	35	–	1	1
Kuwait	–	–	–	–	–	345	345	–	11	11
Libya	–	–	–	–	–	–	699	23	–	23
Nigeria	–	–	–	–	–	311	6,369	195	10	205
Saudi Arabia	–	–	–	–	–	797	1,858	34	26	60
United Arab Emirates	–	–	–	–	–	–	–	–	–	–
Venezuela	–	–	–	–	–	–	–	–	–	–
Non-OPEC	**107**	**–**	**843**	**148**	**–**	**21,007**	**28,602**	**245**	**678**	**923**
Argentina	–	–	–	–	–	367	841	15	12	27
Aruba	–	–	–	–	–	–	–	–	–	–
Australia	–	–	–	–	–	–	–	–	–	–
Bahamas	–	–	–	–	–	314	314	–	10	10
Bahrain	–	–	–	–	–	–	–	–	–	–
Belgium	–	–	–	–	–	398	398	–	13	13
Brazil	–	–	–	–	–	353	353	–	11	11
Brunei	–	–	–	–	–	–	–	–	–	–
Cameroon	–	–	–	–	–	–	–	–	–	–
Canada	73	–	812	83	–	10,532	14,511	128	340	468
Chad	–	–	–	–	–	–	–	–	–	–
China	28	–	–	–	–	28	28	–	1	1
Colombia	–	–	–	–	–	481	982	16	16	32
Denmark	–	–	–	–	–	–	–	–	–	–
Ecuador	–	–	–	–	–	2	2	–	0	0
Egypt	–	–	–	–	–	–	–	–	–	–
Estonia	–	–	–	–	–	–	–	–	–	–
Finland	–	–	–	–	–	–	–	–	–	–
France	–	–	–	5	–	923	923	–	30	30
Germany	–	–	–	13	–	142	142	–	5	5
Guatemala	–	–	–	–	–	–	–	–	–	–
India	–	–	–	–	–	1,266	1,266	–	41	41
Indonesia	–	–	–	–	–	–	–	–	–	–
Italy	–	–	31	–	–	474	474	–	15	15
Korea, South	1	–	–	46	–	47	47	–	2	2
Latvia	–	–	–	–	–	–	–	–	–	–
Lithuania	–	–	–	–	–	–	–	–	–	–
Malaysia	–	–	–	–	–	192	192	–	6	6
Mexico	–	–	–	–	–	657	3,148	80	21	102
Netherlands	–	–	–	1	–	1,334	1,334	–	43	43
Norway	–	–	–	–	–	–	7	0	–	0
Oman	–	–	–	–	–	–	–	–	–	–
Portugal	–	–	–	–	–	–	–	–	–	–
Qatar	–	–	–	–	–	–	–	–	–	–
Russia	–	–	–	–	–	–	–	–	–	–
Spain	1	–	–	–	–	1,311	1,311	–	42	42
Sweden	–	–	–	–	–	300	300	–	10	10
Syria	–	–	–	–	–	–	–	–	–	–
Trinidad and Tobago	–	–	–	–	–	–	–	–	–	–
United Kingdom	–	–	–	–	–	1,117	1,117	–	36	36
Vietnam	–	–	–	–	–	–	–	–	–	–
Virgin Islands, U.S.	–	–	–	–	–	–	–	–	–	–
Yemen	–	–	–	–	–	–	–	–	–	–
Other	4	–	0	0	–	769	912	6	24	29
Total	**107**	**–**	**843**	**148**	**–**	**23,716**	**39,893**	**522**	**765**	**1,287**
Persian Gulf[4]	**–**	**–**	**–**	**–**	**–**	**1,177**	**2,238**	**34**	**38**	**72**

– – = Not Applicable.
– = 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 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
4 Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.
Note: Totals may not equal sum of components due to independent rounding.
Data source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, March 2023
(Thousand Barrels)

Country of Origin	Crude Oil[1,2]	Natural Gas Liquids	Refinery Olefins	Unfinished Oils[1]	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reform-ulated	Conven-tional	Total	Reform-ulated	Conven-tional	Total
OPEC	–	–	–	–	–	–	–	–	–	–
Algeria	–	–	–	–	–	–	–	–	–	–
Angola	–	–	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–	–
Equatorial Guinea	–	–	–	–	–	–	–	–	–	–
Gabon	–	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–	–
Iraq	–	–	–	–	–	–	–	–	–	–
Kuwait	–	–	–	–	–	–	–	–	–	–
Libya	–	–	–	–	–	–	–	–	–	–
Nigeria	–	–	–	–	–	–	–	–	–	–
Saudi Arabia	–	–	–	–	–	–	–	–	–	–
United Arab Emirates	–	–	–	–	–	–	–	–	–	–
Venezuela	–	–	–	–	–	–	–	–	–	–
Non-OPEC	**86,683**	**1,709**	**316**	**–**	**–**	**–**	**–**	**–**	**524**	**524**
Argentina	–	–	–	–	–	–	–	–	–	–
Aruba	–	–	–	–	–	–	–	–	–	–
Australia	–	–	–	–	–	–	–	–	–	–
Bahamas	–	–	–	–	–	–	–	–	–	–
Bahrain	–	–	–	–	–	–	–	–	–	–
Belgium	–	–	–	–	–	–	–	–	–	–
Brazil	–	–	–	–	–	–	–	–	–	–
Brunei	–	–	–	–	–	–	–	–	–	–
Cameroon	–	–	–	–	–	–	–	–	–	–
Canada	86,683	1,709	316	–	–	–	–	–	524	524
Chad	–	–	–	–	–	–	–	–	–	–
China	–	–	–	–	–	–	–	–	–	–
Colombia	–	–	–	–	–	–	–	–	–	–
Denmark	–	–	–	–	–	–	–	–	–	–
Ecuador	–	–	–	–	–	–	–	–	–	–
Egypt	–	–	–	–	–	–	–	–	–	–
Estonia	–	–	–	–	–	–	–	–	–	–
Finland	–	–	–	–	–	–	–	–	–	–
France	–	–	–	–	–	–	–	–	–	–
Germany	–	–	–	–	–	–	–	–	–	–
Guatemala	–	–	–	–	–	–	–	–	–	–
India	–	–	–	–	–	–	–	–	–	–
Indonesia	–	–	–	–	–	–	–	–	–	–
Italy	–	–	–	–	–	–	–	–	–	–
Korea, South	–	–	–	–	–	–	–	–	–	–
Latvia	–	–	–	–	–	–	–	–	–	–
Lithuania	–	–	–	–	–	–	–	–	–	–
Malaysia	–	–	–	–	–	–	–	–	–	–
Mexico	–	–	–	–	–	–	–	–	–	–
Netherlands	–	–	–	–	–	–	–	–	–	–
Norway	–	–	–	–	–	–	–	–	–	–
Oman	–	–	–	–	–	–	–	–	–	–
Portugal	–	–	–	–	–	–	–	–	–	–
Qatar	–	–	–	–	–	–	–	–	–	–
Russia	–	–	–	–	–	–	–	–	–	–
Spain	–	–	–	–	–	–	–	–	–	–
Sweden	–	–	–	–	–	–	–	–	–	–
Syria	–	–	–	–	–	–	–	–	–	–
Trinidad and Tobago	–	–	–	–	–	–	–	–	–	–
United Kingdom	–	–	–	–	–	–	–	–	–	–
Vietnam	–	–	–	–	–	–	–	–	–	–
Virgin Islands, U.S.	–	–	–	–	–	–	–	–	–	–
Yemen	–	–	–	–	–	–	–	–	–	–
Other	0	0	0	–	–	–	–	–	0	0
Total	**86,683**	**1,709**	**316**	**–**	**–**	**–**	**–**	**–**	**524**	**524**
Persian Gulf[4]	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**–**

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, March 2023
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels[3]	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	–	–	–	–	–	–	–	–	–	–	–
Algeria	–	–	–	–	–	–	–	–	–	–	–
Angola	–	–	–	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–	–	–
Equatorial Guinea	–	–	–	–	–	–	–	–	–	–	–
Gabon	–	–	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–	–	–
Iraq	–	–	–	–	–	–	–	–	–	–	–
Kuwait	–	–	–	–	–	–	–	–	–	–	–
Libya	–	–	–	–	–	–	–	–	–	–	–
Nigeria	–	–	–	–	–	–	–	–	–	–	–
Saudi Arabia	–	–	–	–	–	–	–	–	–	–	–
United Arab Emirates	–	–	–	–	–	–	–	–	–	–	–
Venezuela	–	–	–	–	–	–	–	–	–	–	–
Non-OPEC	–	**119**	–	–	**221**	**7**	**30**	–	**258**	–	**3**
Argentina	–	–	–	–	–	–	–	–	–	–	–
Aruba	–	–	–	–	–	–	–	–	–	–	–
Australia	–	–	–	–	–	–	–	–	–	–	–
Bahamas	–	–	–	–	–	–	–	–	–	–	–
Bahrain	–	–	–	–	–	–	–	–	–	–	–
Belgium	–	–	–	–	–	–	–	–	–	–	–
Brazil	–	–	–	–	–	–	–	–	–	–	–
Brunei	–	–	–	–	–	–	–	–	–	–	–
Cameroon	–	–	–	–	–	–	–	–	–	–	–
Canada	–	119	–	–	221	7	30	–	258	–	3
Chad	–	–	–	–	–	–	–	–	–	–	–
China	–	–	–	–	–	–	–	–	–	–	–
Colombia	–	–	–	–	–	–	–	–	–	–	–
Denmark	–	–	–	–	–	–	–	–	–	–	–
Ecuador	–	–	–	–	–	–	–	–	–	–	–
Egypt	–	–	–	–	–	–	–	–	–	–	–
Estonia	–	–	–	–	–	–	–	–	–	–	–
Finland	–	–	–	–	–	–	–	–	–	–	–
France	–	–	–	–	–	–	–	–	–	–	–
Germany	–	–	–	–	–	–	–	–	–	–	–
Guatemala	–	–	–	–	–	–	–	–	–	–	–
India	–	–	–	–	–	–	–	–	–	–	–
Indonesia	–	–	–	–	–	–	–	–	–	–	–
Italy	–	–	–	–	–	–	–	–	–	–	–
Korea, South	–	–	–	–	–	–	–	–	–	–	–
Latvia	–	–	–	–	–	–	–	–	–	–	–
Lithuania	–	–	–	–	–	–	–	–	–	–	–
Malaysia	–	–	–	–	–	–	–	–	–	–	–
Mexico	–	–	–	–	–	–	–	–	–	–	–
Netherlands	–	–	–	–	–	–	–	–	–	–	–
Norway	–	–	–	–	–	–	–	–	–	–	–
Oman	–	–	–	–	–	–	–	–	–	–	–
Portugal	–	–	–	–	–	–	–	–	–	–	–
Qatar	–	–	–	–	–	–	–	–	–	–	–
Russia	–	–	–	–	–	–	–	–	–	–	–
Spain	–	–	–	–	–	–	–	–	–	–	–
Sweden	–	–	–	–	–	–	–	–	–	–	–
Syria	–	–	–	–	–	–	–	–	–	–	–
Trinidad and Tobago	–	–	–	–	–	–	–	–	–	–	–
United Kingdom	–	–	–	–	–	–	–	–	–	–	–
Vietnam	–	–	–	–	–	–	–	–	–	–	–
Virgin Islands, U.S.	–	–	–	–	–	–	–	–	–	–	–
Yemen	–	–	–	–	–	–	–	–	–	–	–
Other	–	0	–	–	0	0	0	–	0	–	0
Total	–	**119**	–	–	**221**	**7**	**30**	–	**258**	–	**3**
Persian Gulf[4]	–	–	–	–	–	–	–	–	–	–	–

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, March 2023
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
OPEC	–	–	–	–	–	–	–	–	–
Algeria	–	–	–	–	–	–	–	–	–
Angola	–	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–
Equatorial Guinea	–	–	–	–	–	–	–	–	–
Gabon	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–
Iraq	–	–	–	–	–	–	–	–	–
Kuwait	–	–	–	–	–	–	–	–	–
Libya	–	–	–	–	–	–	–	–	–
Nigeria	–	–	–	–	–	–	–	–	–
Saudi Arabia	–	–	–	–	–	–	–	–	–
United Arab Emirates	–	–	–	–	–	–	–	–	–
Venezuela	–	–	–	–	–	–	–	–	–
Non-OPEC	–	–	**6**	–	**7**	**25**	**32**	**86**	**65**
Argentina	–	–	–	–	–	–	–	–	–
Aruba	–	–	–	–	–	–	–	–	–
Australia	–	–	–	–	–	–	–	–	–
Bahamas	–	–	–	–	–	–	–	–	–
Bahrain	–	–	–	–	–	–	–	–	–
Belgium	–	–	–	–	–	–	–	–	–
Brazil	–	–	–	–	–	–	–	–	–
Brunei	–	–	–	–	–	–	–	–	–
Cameroon	–	–	–	–	–	–	–	–	–
Canada	–	–	6	–	7	25	32	86	65
Chad	–	–	–	–	–	–	–	–	–
China	–	–	–	–	–	–	–	–	–
Colombia	–	–	–	–	–	–	–	–	–
Denmark	–	–	–	–	–	–	–	–	–
Ecuador	–	–	–	–	–	–	–	–	–
Egypt	–	–	–	–	–	–	–	–	–
Estonia	–	–	–	–	–	–	–	–	–
Finland	–	–	–	–	–	–	–	–	–
France	–	–	–	–	–	–	–	–	–
Germany	–	–	–	–	–	–	–	–	–
Guatemala	–	–	–	–	–	–	–	–	–
India	–	–	–	–	–	–	–	–	–
Indonesia	–	–	–	–	–	–	–	–	–
Italy	–	–	–	–	–	–	–	–	–
Korea, South	–	–	–	–	–	–	–	–	–
Latvia	–	–	–	–	–	–	–	–	–
Lithuania	–	–	–	–	–	–	–	–	–
Malaysia	–	–	–	–	–	–	–	–	–
Mexico	–	–	–	–	–	–	–	–	–
Netherlands	–	–	–	–	–	–	–	–	–
Norway	–	–	–	–	–	–	–	–	–
Oman	–	–	–	–	–	–	–	–	–
Portugal	–	–	–	–	–	–	–	–	–
Qatar	–	–	–	–	–	–	–	–	–
Russia	–	–	–	–	–	–	–	–	–
Spain	–	–	–	–	–	–	–	–	–
Sweden	–	–	–	–	–	–	–	–	–
Syria	–	–	–	–	–	–	–	–	–
Trinidad and Tobago	–	–	–	–	–	–	–	–	–
United Kingdom	–	–	–	–	–	–	–	–	–
Vietnam	–	–	–	–	–	–	–	–	–
Virgin Islands, U.S.	–	–	–	–	–	–	–	–	–
Yemen	–	–	–	–	–	–	–	–	–
Other	–	–	0	–	0	0	0	0	0
Total	–	–	**6**	–	**7**	**25**	**32**	**86**	**65**
Persian Gulf[4]	–	–	–	–	–	–	–	–	–

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, March 2023
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
OPEC	–	–	–	–	–	–	–	–	–	–
Algeria	–	–	–	–	–	–	–	–	–	–
Angola	–	–	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–	–
Equatorial Guinea	–	–	–	–	–	–	–	–	–	–
Gabon	–	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–	–
Iraq	–	–	–	–	–	–	–	–	–	–
Kuwait	–	–	–	–	–	–	–	–	–	–
Libya	–	–	–	–	–	–	–	–	–	–
Nigeria	–	–	–	–	–	–	–	–	–	–
Saudi Arabia	–	–	–	–	–	–	–	–	–	–
United Arab Emirates	–	–	–	–	–	–	–	–	–	–
Venezuela	–	–	–	–	–	–	–	–	–	–
Non-OPEC	**10**	**8**	**912**	**286**	**–**	**4,334**	**91,017**	**2,796**	**140**	**2,936**
Argentina	–	–	–	–	–	–	–	–	–	–
Aruba	–	–	–	–	–	–	–	–	–	–
Australia	–	–	–	–	–	–	–	–	–	–
Bahamas	–	–	–	–	–	–	–	–	–	–
Bahrain	–	–	–	–	–	–	–	–	–	–
Belgium	–	–	–	–	–	–	–	–	–	–
Brazil	–	–	–	–	–	–	–	–	–	–
Brunei	–	–	–	–	–	–	–	–	–	–
Cameroon	–	–	–	–	–	–	–	–	–	–
Canada	9	8	912	285	–	4,332	91,015	2,796	140	2,936
Chad	–	–	–	–	–	–	–	–	–	–
China	–	–	–	–	–	–	–	–	–	–
Colombia	–	–	–	–	–	–	–	–	–	–
Denmark	–	–	–	–	–	–	–	–	–	–
Ecuador	–	–	–	–	–	–	–	–	–	–
Egypt	–	–	–	–	–	–	–	–	–	–
Estonia	–	–	–	–	–	–	–	–	–	–
Finland	–	–	–	–	–	–	–	–	–	–
France	–	–	–	–	–	–	–	–	–	–
Germany	–	–	–	1	–	1	1	–	0	0
Guatemala	–	–	–	–	–	–	–	–	–	–
India	–	–	–	–	–	–	–	–	–	–
Indonesia	–	–	–	–	–	–	–	–	–	–
Italy	–	–	–	–	–	–	–	–	–	–
Korea, South	–	–	–	–	–	–	–	–	–	–
Latvia	–	–	–	–	–	–	–	–	–	–
Lithuania	–	–	–	–	–	–	–	–	–	–
Malaysia	–	–	–	–	–	–	–	–	–	–
Mexico	–	–	–	–	–	–	–	–	–	–
Netherlands	–	–	–	–	–	–	–	–	–	–
Norway	–	–	–	–	–	–	–	–	–	–
Oman	–	–	–	–	–	–	–	–	–	–
Portugal	–	–	–	–	–	–	–	–	–	–
Qatar	–	–	–	–	–	–	–	–	–	–
Russia	–	–	–	–	–	–	–	–	–	–
Spain	–	–	–	–	–	–	–	–	–	–
Sweden	–	–	–	–	–	–	–	–	–	–
Syria	–	–	–	–	–	–	–	–	–	–
Trinidad and Tobago	–	–	–	–	–	–	–	–	–	–
United Kingdom	–	–	–	–	–	–	–	–	–	–
Vietnam	–	–	–	–	–	–	–	–	–	–
Virgin Islands, U.S.	–	–	–	–	–	–	–	–	–	–
Yemen	–	–	–	–	–	–	–	–	–	–
Other	1	0	0	0	–	1	1	0	0	0
Total	**10**	**8**	**912**	**286**	**–**	**4,334**	**91,017**	**2,796**	**140**	**2,936**
Persian Gulf[4]	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**–**

– – = Not Applicable.
– = 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 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
4 Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.
Note: Totals may not equal sum of components due to independent rounding.
Data source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, March 2023
(Thousand Barrels)

Country of Origin	Crude Oil[1,2]	Natural Gas Liquids	Refinery Olefins	Unfinished Oils[1]	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reform-ulated	Conven-tional	Total	Reform-ulated	Conven-tional	Total
OPEC	**10,157**	**–**	**–**	**5,632**	**–**	**–**	**–**	**130**	**164**	**294**
Algeria	–	–	–	319	–	–	–	–	–	–
Angola	–	–	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–	–
Equatorial Guinea	–	–	–	–	–	–	–	–	–	–
Gabon	–	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–	–
Iraq	973	–	–	4,449	–	–	–	–	–	–
Kuwait	362	–	–	–	–	–	–	–	69	69
Libya	–	–	–	–	–	–	–	–	–	–
Nigeria	–	–	–	–	–	–	–	–	–	–
Saudi Arabia	5,439	–	–	864	–	–	–	–	95	95
United Arab Emirates	–	–	–	–	–	–	–	130	–	130
Venezuela	3,383	–	–	–	–	–	–	–	–	–
Non-OPEC	**35,465**	**6**	**–**	**9,211**	**–**	**–**	**–**	**162**	**1,086**	**1,248**
Argentina	–	–	–	–	–	–	–	–	–	–
Aruba	–	–	–	–	–	–	–	–	–	–
Australia	–	–	–	–	–	–	–	–	–	–
Bahamas	–	–	–	–	–	–	–	–	–	–
Bahrain	–	–	–	–	–	–	–	–	–	–
Belgium	–	–	–	1,133	–	–	–	–	190	190
Brazil	964	–	–	1,055	–	–	–	–	14	14
Brunei	–	–	–	–	–	–	–	–	–	–
Cameroon	–	–	–	–	–	–	–	–	–	–
Canada	10,662	6	–	–	–	–	–	–	–	–
Chad	–	–	–	–	–	–	–	–	–	–
China	–	–	–	–	–	–	–	–	–	–
Colombia	4,331	–	–	–	–	–	–	–	–	–
Denmark	–	–	–	–	–	–	–	–	–	–
Ecuador	–	–	–	352	–	–	–	–	–	–
Egypt	–	–	–	–	–	–	–	–	–	–
Estonia	–	–	–	–	–	–	–	–	–	–
Finland	–	–	–	–	–	–	–	–	–	–
France	–	–	–	–	–	–	–	–	–	–
Germany	–	–	–	–	–	–	–	–	37	37
Guatemala	–	–	–	–	–	–	–	–	–	–
India	–	–	–	132	–	–	–	162	511	673
Indonesia	–	–	–	–	–	–	–	–	–	–
Italy	–	–	–	–	–	–	–	–	–	–
Korea, South	–	–	–	–	–	–	–	–	105	105
Latvia	–	–	–	–	–	–	–	–	–	–
Lithuania	–	–	–	–	–	–	–	–	–	–
Malaysia	–	–	–	1,488	–	–	–	–	–	–
Mexico	18,659	–	–	4,403	–	–	–	–	–	–
Netherlands	–	–	–	–	–	–	–	–	–	–
Norway	–	–	–	–	–	–	–	–	–	–
Oman	–	–	–	–	–	–	–	–	185	185
Portugal	–	–	–	–	–	–	–	–	–	–
Qatar	–	–	–	–	–	–	–	–	–	–
Russia	–	–	–	–	–	–	–	–	–	–
Spain	–	–	–	–	–	–	–	–	–	–
Sweden	–	–	–	–	–	–	–	–	–	–
Syria	–	–	–	–	–	–	–	–	–	–
Trinidad and Tobago	525	–	–	–	–	–	–	–	–	–
United Kingdom	324	–	–	–	–	–	–	–	–	–
Vietnam	–	–	–	–	–	–	–	–	–	–
Virgin Islands, U.S.	–	–	–	–	–	–	–	–	–	–
Yemen	–	–	–	–	–	–	–	–	–	–
Other	0	0	–	648	–	–	–	0	44	44
Total	**45,622**	**6**	**–**	**14,843**	**–**	**–**	**–**	**292**	**1,250**	**1,542**
Persian Gulf[4]	**6,774**	**–**	**–**	**5,313**	**–**	**–**	**–**	**130**	**164**	**294**

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, March 2023
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels[3]	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	–	–	–	–	–	–	–	–	–	–	–
Algeria	–	–	–	–	–	–	–	–	–	–	–
Angola	–	–	–	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–	–	–
Equatorial Guinea	–	–	–	–	–	–	–	–	–	–	–
Gabon	–	–	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–	–	–
Iraq	–	–	–	–	–	–	–	–	–	–	–
Kuwait	–	–	–	–	–	–	–	–	–	–	–
Libya	–	–	–	–	–	–	–	–	–	–	–
Nigeria	–	–	–	–	–	–	–	–	–	–	–
Saudi Arabia	–	–	–	–	–	–	–	–	–	–	–
United Arab Emirates	–	–	–	–	–	–	–	–	–	–	–
Venezuela	–	–	–	–	–	–	–	–	–	–	–
Non-OPEC	–	**218**	**53**	–	**240**	–	–	–	**240**	–	–
Argentina	–	–	–	–	–	–	–	–	–	–	–
Aruba	–	–	–	–	–	–	–	–	–	–	–
Australia	–	–	–	–	–	–	–	–	–	–	–
Bahamas	–	–	–	–	–	–	–	–	–	–	–
Bahrain	–	–	–	–	–	–	–	–	–	–	–
Belgium	–	–	–	–	–	–	–	–	–	–	–
Brazil	–	–	–	–	–	–	–	–	–	–	–
Brunei	–	–	–	–	–	–	–	–	–	–	–
Cameroon	–	–	–	–	–	–	–	–	–	–	–
Canada	–	–	–	–	–	–	–	–	–	–	–
Chad	–	–	–	–	–	–	–	–	–	–	–
China	–	–	–	–	–	–	–	–	–	–	–
Colombia	–	–	–	–	240	–	–	–	240	–	–
Denmark	–	–	–	–	–	–	–	–	–	–	–
Ecuador	–	–	–	–	–	–	–	–	–	–	–
Egypt	–	–	–	–	–	–	–	–	–	–	–
Estonia	–	–	–	–	–	–	–	–	–	–	–
Finland	–	–	53	–	–	–	–	–	–	–	–
France	–	–	–	–	–	–	–	–	–	–	–
Germany	–	107	–	–	–	–	–	–	–	–	–
Guatemala	–	–	–	–	–	–	–	–	–	–	–
India	–	–	–	–	–	–	–	–	–	–	–
Indonesia	–	–	–	–	–	–	–	–	–	–	–
Italy	–	–	–	–	–	–	–	–	–	–	–
Korea, South	–	–	–	–	–	–	–	–	–	–	–
Latvia	–	–	–	–	–	–	–	–	–	–	–
Lithuania	–	–	–	–	–	–	–	–	–	–	–
Malaysia	–	–	–	–	–	–	–	–	–	–	–
Mexico	–	–	–	–	–	–	–	–	–	–	–
Netherlands	–	37	–	–	–	–	–	–	–	–	–
Norway	–	–	–	–	–	–	–	–	–	–	–
Oman	–	–	–	–	–	–	–	–	–	–	–
Portugal	–	–	–	–	–	–	–	–	–	–	–
Qatar	–	–	–	–	–	–	–	–	–	–	–
Russia	–	–	–	–	–	–	–	–	–	–	–
Spain	–	74	–	–	–	–	–	–	–	–	–
Sweden	–	–	–	–	–	–	–	–	–	–	–
Syria	–	–	–	–	–	–	–	–	–	–	–
Trinidad and Tobago	–	–	–	–	–	–	–	–	–	–	–
United Kingdom	–	–	–	–	–	–	–	–	–	–	–
Vietnam	–	–	–	–	–	–	–	–	–	–	–
Virgin Islands, U.S.	–	–	–	–	–	–	–	–	–	–	–
Yemen	–	–	–	–	–	–	–	–	–	–	–
Other	–	0	0	–	0	–	–	–	0	–	–
Total	–	**218**	**53**	–	**240**	–	–	–	**240**	–	–
Persian Gulf[4]	–	–	–	–	–	–	–	–	–	–	–

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, March 2023
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
OPEC	–	–	–	–	–	–	–	–	–
Algeria	–	–	–	–	–	–	–	–	–
Angola	–	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–
Equatorial Guinea	–	–	–	–	–	–	–	–	–
Gabon	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–
Iraq	–	–	–	–	–	–	–	–	–
Kuwait	–	–	–	–	–	–	–	–	–
Libya	–	–	–	–	–	–	–	–	–
Nigeria	–	–	–	–	–	–	–	–	–
Saudi Arabia	–	–	–	–	–	–	–	–	–
United Arab Emirates	–	–	–	–	–	–	–	–	–
Venezuela	–	–	–	–	–	–	–	–	–
Non-OPEC	–	–	**490**	–	–	**1,328**	**1,328**	**233**	**121**
Argentina	–	–	–	–	–	–	–	–	–
Aruba	–	–	–	–	–	–	–	–	–
Australia	–	–	–	–	–	–	–	–	–
Bahamas	–	–	–	–	–	–	–	–	–
Bahrain	–	–	–	–	–	–	–	–	–
Belgium	–	–	–	–	–	–	–	–	–
Brazil	–	–	–	–	–	–	–	–	–
Brunei	–	–	–	–	–	–	–	–	–
Cameroon	–	–	–	–	–	–	–	–	–
Canada	–	–	170	–	–	–	–	–	–
Chad	–	–	–	–	–	–	–	–	–
China	–	–	–	–	–	–	–	–	–
Colombia	–	–	–	–	–	–	–	–	–
Denmark	–	–	–	–	–	–	–	–	–
Ecuador	–	–	–	–	–	–	–	–	–
Egypt	–	–	–	–	–	–	–	–	–
Estonia	–	–	–	–	–	–	–	–	–
Finland	–	–	–	–	–	–	–	–	–
France	–	–	24	–	–	–	–	–	8
Germany	–	–	–	–	–	–	–	–	–
Guatemala	–	–	–	–	–	–	–	–	–
India	–	–	–	–	–	–	–	136	–
Indonesia	–	–	–	–	–	–	–	–	–
Italy	–	–	–	–	–	–	–	–	–
Korea, South	–	–	202	–	–	–	–	–	–
Latvia	–	–	–	–	–	–	–	–	–
Lithuania	–	–	–	–	–	–	–	–	–
Malaysia	–	–	–	–	–	–	–	–	–
Mexico	–	–	–	–	–	1,328	1,328	54	113
Netherlands	–	–	94	–	–	–	–	–	–
Norway	–	–	–	–	–	–	–	–	–
Oman	–	–	–	–	–	–	–	–	–
Portugal	–	–	–	–	–	–	–	–	–
Qatar	–	–	–	–	–	–	–	–	–
Russia	–	–	–	–	–	–	–	–	–
Spain	–	–	–	–	–	–	–	–	–
Sweden	–	–	–	–	–	–	–	–	–
Syria	–	–	–	–	–	–	–	–	–
Trinidad and Tobago	–	–	–	–	–	–	–	–	–
United Kingdom	–	–	–	–	–	–	–	–	–
Vietnam	–	–	–	–	–	–	–	–	–
Virgin Islands, U.S.	–	–	–	–	–	–	–	–	–
Yemen	–	–	–	–	–	–	–	–	–
Other	–	–	0	–	–	0	0	43	0
Total	–	–	**490**	–	–	**1,328**	**1,328**	**233**	**121**
Persian Gulf[4]	–	–	–	–	–	–	–	–	–

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, March 2023
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
OPEC	**–**	**–**	**–**	**105**	**–**	**6,031**	**16,188**	**328**	**195**	**522**
Algeria	–	–	–	–	–	319	319	–	10	10
Angola	–	–	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–	–
Equatorial Guinea	–	–	–	–	–	–	–	–	–	–
Gabon	–	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–	–
Iraq	–	–	–	–	–	4,449	5,422	31	144	175
Kuwait	–	–	–	–	–	69	431	12	2	14
Libya	–	–	–	–	–	–	–	–	–	–
Nigeria	–	–	–	–	–	–	–	–	–	–
Saudi Arabia	–	–	–	–	–	959	6,398	175	31	206
United Arab Emirates	–	–	–	105	–	235	235	–	8	8
Venezuela	–	–	–	–	–	–	3,383	109	–	109
Non-OPEC	**16**	**264**	**–**	**739**	**–**	**14,167**	**49,632**	**1,144**	**457**	**1,601**
Argentina	–	216	–	–	–	216	216	–	7	7
Aruba	–	–	–	–	–	–	–	–	–	–
Australia	–	–	–	–	–	–	–	–	–	–
Bahamas	–	–	–	–	–	–	–	–	–	–
Bahrain	–	–	–	63	–	63	63	–	2	2
Belgium	–	–	–	1	–	1,324	1,324	–	43	43
Brazil	–	40	–	–	–	1,109	2,073	31	36	67
Brunei	–	–	–	–	–	–	–	–	–	–
Cameroon	–	–	–	–	–	–	–	–	–	–
Canada	–	–	–	–	–	176	10,838	344	6	350
Chad	–	–	–	–	–	–	–	–	–	–
China	–	–	–	–	–	–	–	–	–	–
Colombia	–	–	–	–	–	240	4,571	140	8	147
Denmark	–	–	–	–	–	–	–	–	–	–
Ecuador	–	–	–	–	–	352	352	–	11	11
Egypt	–	–	–	–	–	–	–	–	–	–
Estonia	–	–	–	–	–	–	–	–	–	–
Finland	–	–	–	–	–	53	53	–	2	2
France	–	–	–	3	–	35	35	–	1	1
Germany	–	–	–	5	–	149	149	–	5	5
Guatemala	–	–	–	–	–	–	–	–	–	–
India	–	–	–	–	–	941	941	–	30	30
Indonesia	–	–	–	75	–	75	75	–	2	2
Italy	–	–	–	9	–	9	9	–	0	0
Korea, South	–	–	–	446	–	753	753	–	24	24
Latvia	–	–	–	–	–	–	–	–	–	–
Lithuania	–	–	–	–	–	–	–	–	–	–
Malaysia	–	–	–	–	–	1,488	1,488	–	48	48
Mexico	–	–	–	–	–	5,898	24,557	602	190	792
Netherlands	–	–	–	49	–	180	180	–	6	6
Norway	–	–	–	–	–	–	–	–	–	–
Oman	–	–	–	–	–	185	185	–	6	6
Portugal	–	–	–	–	–	–	–	–	–	–
Qatar	–	–	–	87	–	87	87	–	3	3
Russia	–	–	–	–	–	–	–	–	–	–
Spain	–	–	–	–	–	74	74	–	2	2
Sweden	–	–	–	1	–	1	1	–	0	0
Syria	–	–	–	–	–	–	–	–	–	–
Trinidad and Tobago	–	–	–	–	–	–	525	17	–	17
United Kingdom	–	8	–	–	–	8	332	10	0	11
Vietnam	–	–	–	–	–	–	–	–	–	–
Virgin Islands, U.S.	–	–	–	–	–	–	–	–	–	–
Yemen	–	–	–	–	–	–	–	–	–	–
Other	16	0	–	0	–	751	751	0	25	25
Total	**16**	**264**	**–**	**844**	**–**	**20,198**	**65,820**	**1,472**	**652**	**2,123**
Persian Gulf[4]	**–**	**–**	**–**	**255**	**–**	**5,862**	**12,636**	**219**	**189**	**408**

– – = Not Applicable.
– = 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 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
4 Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.
Note: Totals may not equal sum of components due to independent rounding.
Data source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, March 2023
(Thousand Barrels)

Country of Origin	Crude Oil[1,2]	Natural Gas Liquids	Refinery Olefins	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	–	–	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–	–
Iraq	–	–	–	–	–	–	–	–	–	–
Kuwait	–	–	–	–	–	–	–	–	–	–
Libya	–	–	–	–	–	–	–	–	–	–
Nigeria	–	–	–	–	–	–	–	–	–	–
Saudi Arabia	–	–	–	–	–	–	–	–	–	–
United Arab Emirates	–	–	–	–	–	–	–	–	–	–
Venezuela	–	–	–	–	–	–	–	–	–	–
Non-OPEC	**8,153**	**801**	–	–	–	–	–	–	**129**	**129**
Canada	8,153	801	–	–	–	–	–	–	129	129
Ecuador	–	–	–	–	–	–	–	–	–	–
Qatar	–	–	–	–	–	–	–	–	–	–
Other	0	0	–	–	–	–	–	–	0	0
Total	**8,153**	**801**	–	–	–	–	–	–	**129**	**129**
	PAD District 5									
OPEC	**15,999**	**61**	–	–	–	–	–	–	–	–
Algeria	–	–	–	–	–	–	–	–	–	–
Angola	–	–	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–	–
Iraq	5,937	–	–	–	–	–	–	–	–	–
Kuwait	–	–	–	–	–	–	–	–	–	–
Libya	1,041	–	–	–	–	–	–	–	–	–
Nigeria	–	–	–	–	–	–	–	–	–	–
Saudi Arabia	6,730	–	–	–	–	–	–	–	–	–
United Arab Emirates	1,428	–	–	–	–	–	–	–	–	–
Venezuela	–	–	–	–	–	–	–	–	–	–
Non-OPEC	**22,526**	**1,742**	–	**76**	–	**1,019**	**1,019**	**316**	**2,887**	**3,203**
Argentina	914	–	–	–	–	–	–	–	–	–
Aruba	–	–	–	–	–	–	–	–	–	–
Australia	–	–	–	–	–	–	–	–	–	–
Brazil	3,534	–	–	–	–	–	–	–	–	–
Brunei	–	–	–	–	–	–	–	–	–	–
Canada	9,034	1,742	–	76	–	67	67	–	42	42
China	–	–	–	–	–	323	323	–	–	–
Colombia	1,238	–	–	–	–	–	–	–	–	–
Ecuador	3,087	–	–	–	–	–	–	–	–	–
Finland	–	–	–	–	–	–	–	–	–	–
Germany	–	–	–	–	–	–	–	–	–	–
Indonesia	–	–	–	–	–	–	–	–	–	–
Japan	–	–	–	–	–	64	64	–	229	229
Korea, South	–	–	–	–	–	565	565	–	697	697
Malaysia	–	–	–	–	–	–	–	–	77	77
Mexico	1,209	–	–	–	–	–	–	–	–	–
Netherlands	–	–	–	–	–	–	–	316	124	440
Oman	–	–	–	–	–	–	–	–	–	–
Papua New Guinea	–	–	–	–	–	–	–	–	–	–
Peru	–	–	–	–	–	–	–	–	–	–
Qatar	517	–	–	–	–	–	–	–	–	–
Singapore	–	–	–	–	–	–	–	–	295	295
Sweden	–	–	–	–	–	–	–	–	–	–
Taiwan	–	–	–	–	–	–	–	–	159	159
United Kingdom	–	–	–	–	–	–	–	–	302	302
Vietnam	–	–	–	–	–	–	–	–	–	–
Virgin Islands, U.S.	–	–	–	–	–	–	–	–	–	–
Other	2,993	0	–	0	–	0	0	0	962	962
Total	**38,525**	**1,803**	–	**76**	–	**1,019**	**1,019**	**316**	**2,887**	**3,203**
Persian Gulf[4]	**14,612**	–	–	–	–	–	–	–	–	–

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, March 2023
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels[3]	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
	PAD District 4										
OPEC	–	–	–	–	–	–	–	–	–	–	–
Algeria	–	–	–	–	–	–	–	–	–	–	–
Angola	–	–	–	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–	–	–
Iraq	–	–	–	–	–	–	–	–	–	–	–
Kuwait	–	–	–	–	–	–	–	–	–	–	–
Libya	–	–	–	–	–	–	–	–	–	–	–
Nigeria	–	–	–	–	–	–	–	–	–	–	–
Saudi Arabia	–	–	–	–	–	–	–	–	–	–	–
United Arab Emirates	–	–	–	–	–	–	–	–	–	–	–
Venezuela	–	–	–	–	–	–	–	–	–	–	–
Non-OPEC	–	**14**	–	–	**49**	–	–	–	**49**	–	–
Canada	–	14	–	–	49	–	–	–	49	–	–
Ecuador	–	–	–	–	–	–	–	–	–	–	–
Qatar	–	–	–	–	–	–	–	–	–	–	–
Other	–	0	–	–	0	–	–	–	0	–	–
Total	–	**14**	–	–	**49**	–	–	–	**49**	–	–
	PAD District 5										
OPEC	–	–	–	–	–	–	–	–	–	–	–
Algeria	–	–	–	–	–	–	–	–	–	–	–
Angola	–	–	–	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–	–	–
Iraq	–	–	–	–	–	–	–	–	–	–	–
Kuwait	–	–	–	–	–	–	–	–	–	–	–
Libya	–	–	–	–	–	–	–	–	–	–	–
Nigeria	–	–	–	–	–	–	–	–	–	–	–
Saudi Arabia	–	–	–	–	–	–	–	–	–	–	–
United Arab Emirates	–	–	–	–	–	–	–	–	–	–	–
Venezuela	–	–	–	–	–	–	–	–	–	–	–
Non-OPEC	–	**124**	**733**	–	**308**	–	–	–	**308**	–	**1**
Argentina	–	–	–	–	–	–	–	–	–	–	–
Aruba	–	–	–	–	–	–	–	–	–	–	–
Australia	–	–	–	–	–	–	–	–	–	–	–
Brazil	–	–	–	–	–	–	–	–	–	–	–
Brunei	–	–	–	–	–	–	–	–	–	–	–
Canada	–	88	–	–	261	–	–	–	261	–	1
China	–	–	–	–	–	–	–	–	–	–	–
Colombia	–	–	–	–	–	–	–	–	–	–	–
Ecuador	–	–	–	–	–	–	–	–	–	–	–
Finland	–	–	–	–	–	–	–	–	–	–	–
Germany	–	–	–	–	–	–	–	–	–	–	–
Indonesia	–	–	–	–	–	–	–	–	–	–	–
Japan	–	–	–	–	–	–	–	–	–	–	–
Korea, South	–	36	–	–	47	–	–	–	47	–	–
Malaysia	–	–	–	–	–	–	–	–	–	–	–
Mexico	–	–	–	–	–	–	–	–	–	–	–
Netherlands	–	–	14	–	–	–	–	–	–	–	–
Oman	–	–	–	–	–	–	–	–	–	–	–
Papua New Guinea	–	–	–	–	–	–	–	–	–	–	–
Peru	–	–	–	–	–	–	–	–	–	–	–
Qatar	–	–	–	–	–	–	–	–	–	–	–
Singapore	–	–	719	–	–	–	–	–	–	–	–
Sweden	–	–	–	–	–	–	–	–	–	–	–
Taiwan	–	–	–	–	–	–	–	–	–	–	–
United Kingdom	–	–	–	–	–	–	–	–	–	–	–
Vietnam	–	–	–	–	–	–	–	–	–	–	–
Virgin Islands, U.S.	–	–	–	–	–	–	–	–	–	–	–
Other	–	0	0	–	0	–	–	–	0	–	0
Total	–	**124**	**733**	–	**308**	–	–	–	**308**	–	**1**
Persian Gulf[4]	–	–	–	–	–	–	–	–	–	–	–

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, March 2023
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
	PAD District 4								
OPEC	–	–	–	–	–	–	–	–	–
Algeria	–	–	–	–	–	–	–	–	–
Angola	–	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–
Iraq	–	–	–	–	–	–	–	–	–
Kuwait	–	–	–	–	–	–	–	–	–
Libya	–	–	–	–	–	–	–	–	–
Nigeria	–	–	–	–	–	–	–	–	–
Saudi Arabia	–	–	–	–	–	–	–	–	–
United Arab Emirates	–	–	–	–	–	–	–	–	–
Venezuela	–	–	–	–	–	–	–	–	–
Non-OPEC	–	**76**	–	–	**4**	–	**4**	–	–
Canada	–	76	–	–	4	–	4	–	–
Ecuador	–	–	–	–	–	–	–	–	–
Qatar	–	–	–	–	–	–	–	–	–
Other	–	0	–	–	0	–	0	–	–
Total	–	**76**	–	–	**4**	–	**4**	–	–
	PAD District 5								
OPEC	–	–	–	–	–	–	–	–	–
Algeria	–	–	–	–	–	–	–	–	–
Angola	–	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–
Iraq	–	–	–	–	–	–	–	–	–
Kuwait	–	–	–	–	–	–	–	–	–
Libya	–	–	–	–	–	–	–	–	–
Nigeria	–	–	–	–	–	–	–	–	–
Saudi Arabia	–	–	–	–	–	–	–	–	–
United Arab Emirates	–	–	–	–	–	–	–	–	–
Venezuela	–	–	–	–	–	–	–	–	–
Non-OPEC	–	**3,262**	**23**	–	–	–	–	–	–
Argentina	–	–	–	–	–	–	–	–	–
Aruba	–	–	–	–	–	–	–	–	–
Australia	–	–	–	–	–	–	–	–	–
Brazil	–	–	–	–	–	–	–	–	–
Brunei	–	–	–	–	–	–	–	–	–
Canada	–	20	23	–	–	–	–	–	–
China	–	330	–	–	–	–	–	–	–
Colombia	–	–	–	–	–	–	–	–	–
Ecuador	–	–	–	–	–	–	–	–	–
Finland	–	–	–	–	–	–	–	–	–
Germany	–	–	–	–	–	–	–	–	–
Indonesia	–	–	–	–	–	–	–	–	–
Japan	–	193	–	–	–	–	–	–	–
Korea, South	–	2,111	–	–	–	–	–	–	–
Malaysia	–	–	–	–	–	–	–	–	–
Mexico	–	–	–	–	–	–	–	–	–
Netherlands	–	–	–	–	–	–	–	–	–
Oman	–	–	–	–	–	–	–	–	–
Papua New Guinea	–	–	–	–	–	–	–	–	–
Peru	–	–	–	–	–	–	–	–	–
Qatar	–	–	–	–	–	–	–	–	–
Singapore	–	–	–	–	–	–	–	–	–
Sweden	–	–	–	–	–	–	–	–	–
Taiwan	–	74	–	–	–	–	–	–	–
United Kingdom	–	–	–	–	–	–	–	–	–
Vietnam	–	–	–	–	–	–	–	–	–
Virgin Islands, U.S.	–	–	–	–	–	–	–	–	–
Other	–	534	0	–	–	–	–	–	–
Total	–	**3,262**	**23**	–	–	–	–	–	–
Persian Gulf[4]	–	–	–	–	–	–	–	–	–

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, March 2023
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
	PAD District 4									
OPEC	–	–	–	–	–	–	–	–	–	–
Algeria	–	–	–	–	–	–	–	–	–	–
Angola	–	–	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–	–
Iraq	–	–	–	–	–	–	–	–	–	–
Kuwait	–	–	–	–	–	–	–	–	–	–
Libya	–	–	–	–	–	–	–	–	–	–
Nigeria	–	–	–	–	–	–	–	–	–	–
Saudi Arabia	–	–	–	–	–	–	–	–	–	–
United Arab Emirates	–	–	–	–	–	–	–	–	–	–
Venezuela	–	–	–	–	–	–	–	–	–	–
Non-OPEC	–	–	**103**	–	–	**1,176**	**9,329**	**263**	**38**	**301**
Canada	–	–	103	–	–	1,176	9,329	263	38	301
Ecuador	–	–	–	–	–	–	–	–	–	–
Qatar	–	–	–	–	–	–	–	–	–	–
Other	–	–	0	–	–	0	0	0	0	0
Total	–	–	**103**	–	–	**1,176**	**9,329**	**263**	**38**	**301**
	PAD District 5									
OPEC	–	–	–	–	–	**61**	**16,060**	**516**	**2**	**518**
Algeria	–	–	–	–	–	–	–	–	–	–
Angola	–	–	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–	–
Iraq	–	–	–	–	–	–	5,937	192	–	192
Kuwait	–	–	–	–	–	–	–	–	–	–
Libya	–	–	–	–	–	–	1,041	34	–	34
Nigeria	–	–	–	–	–	–	–	–	–	–
Saudi Arabia	–	–	–	–	–	–	6,730	217	–	217
United Arab Emirates	–	–	–	–	–	–	1,428	46	–	46
Venezuela	–	–	–	–	–	–	–	–	–	–
Non-OPEC	**7**	–	**104**	**67**	–	**10,669**	**33,195**	**727**	**344**	**1,071**
Argentina	–	–	–	–	–	–	914	29	–	29
Aruba	–	–	–	–	–	–	–	–	–	–
Australia	–	–	–	–	–	–	–	–	–	–
Brazil	–	–	–	–	–	–	3,534	114	–	114
Brunei	–	–	–	–	–	–	–	–	–	–
Canada	–	–	104	6	–	2,430	11,464	291	78	370
China	–	–	–	–	–	653	653	–	21	21
Colombia	–	–	–	–	–	–	1,238	40	–	40
Ecuador	–	–	–	–	–	–	3,087	100	–	100
Finland	–	–	–	–	–	–	–	–	–	–
Germany	–	–	–	–	–	–	–	–	–	–
Indonesia	–	–	–	–	–	–	–	–	–	–
Japan	–	–	–	–	–	486	486	–	16	16
Korea, South	–	–	–	30	–	3,486	3,486	–	112	112
Malaysia	–	–	–	–	–	77	77	–	2	2
Mexico	–	–	–	–	–	–	1,209	39	–	39
Netherlands	–	–	–	–	–	454	454	–	15	15
Oman	–	–	–	–	–	–	–	–	–	–
Papua New Guinea	–	–	–	–	–	–	–	–	–	–
Peru	–	–	–	–	–	–	–	–	–	–
Qatar	–	–	–	31	–	31	548	17	1	18
Singapore	–	–	–	–	–	1,014	1,014	–	33	33
Sweden	–	–	–	–	–	–	–	–	–	–
Taiwan	7	–	–	–	–	240	240	–	8	8
United Kingdom	–	–	–	–	–	302	302	–	10	10
Vietnam	–	–	–	–	–	–	–	–	–	–
Virgin Islands, U.S.	–	–	–	–	–	–	–	–	–	–
Other	0	–	0	0	–	1,496	4,489	97	48	144
Total	**7**	–	**104**	**67**	–	**10,730**	**49,255**	**1,243**	**346**	**1,589**
Persian Gulf[4]	–	–	–	**31**	–	**31**	**14,643**	**471**	**1**	**472**

– – = Not Applicable.
– = 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 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
4 Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.
Note: Totals may not equal sum of components due to independent rounding.
Data source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-March 2023
(Thousand Barrels)

Country of Origin	Crude Oil[1,2]	Natural Gas Liquids	Refinery Olefins	Unfinished Oils[1]	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reform-ulated	Conven-tional	Total	Reform-ulated	Conven-tional	Total
OPEC	**25,994**	**759**	**–**	**139**	**–**	**–**	**–**	**–**	**1,570**	**1,570**
Algeria	1,258	–	–	139	–	–	–	–	–	–
Angola	1,006	–	–	–	–	–	–	–	597	597
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–	–
Equatorial Guinea	–	759	–	–	–	–	–	–	–	–
Gabon	–	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–	–
Iraq	–	–	–	–	–	–	–	–	–	–
Kuwait	–	–	–	–	–	–	–	–	1	–
Libya	2,051	–	–	–	–	–	–	–	–	–
Nigeria	16,450	–	–	–	–	–	–	–	316	316
Saudi Arabia	5,229	–	–	–	–	–	–	–	656	656
United Arab Emirates	–	–	–	–	–	–	–	–	–	–
Venezuela	–	–	–	–	–	–	–	–	–	–
Non-OPEC	**23,261**	**3,472**	**844**	**4,176**	**–**	**6,893**	**6,893**	**12,446**	**21,309**	**33,755**
Argentina	1,132	–	–	294	–	–	–	–	824	824
Aruba	–	–	–	–	–	–	–	–	–	–
Australia	–	–	–	–	–	–	–	–	–	–
Bahamas	–	–	–	–	–	2,182	2,182	100	324	424
Bahrain	–	–	–	–	–	–	–	–	–	–
Belgium	–	–	–	250	–	315	315	148	–	148
Brazil	627	–	–	120	–	–	–	–	143	143
Brunei	–	–	–	–	–	–	–	–	–	–
Cameroon	–	–	–	–	–	–	–	–	–	–
Canada	11,382	3,472	844	–	–	860	860	6,888	3,526	10,414
Chad	–	–	–	–	–	–	–	–	–	–
China	–	–	–	–	–	–	–	–	–	–
Colombia	501	–	–	452	–	–	–	–	35	35
Denmark	–	–	–	–	–	–	–	–	–	–
Ecuador	–	–	–	–	–	–	–	–	–	–
Egypt	–	–	–	–	–	–	–	–	–	–
Estonia	–	–	–	–	–	–	–	–	–	–
Finland	–	–	–	–	–	338	338	–	589	589
France	–	–	–	200	–	1,146	1,146	294	935	1,229
Germany	–	–	–	9	–	–	–	–	22	22
Guatemala	–	–	–	–	–	–	–	–	–	–
India	–	–	–	–	–	54	54	70	2,703	2,773
Indonesia	–	–	–	–	–	–	–	–	–	–
Italy	–	–	–	205	–	18	18	311	3,413	3,724
Korea, South	–	–	–	–	–	–	–	–	–	–
Latvia	–	–	–	–	–	–	–	–	–	–
Lithuania	–	–	–	–	–	–	–	–	–	–
Malaysia	–	–	–	–	–	–	–	–	192	192
Mexico	7,531	–	–	1,330	–	–	–	–	–	–
Netherlands	–	–	–	454	–	734	734	1,570	2,089	3,659
Norway	127	–	–	–	–	495	495	–	974	974
Oman	–	–	–	–	–	–	–	–	–	–
Portugal	–	–	–	–	–	–	–	–	1,432	1,432
Qatar	–	–	–	–	–	–	–	–	–	–
Russia	–	–	–	–	–	–	–	–	–	–
Spain	–	–	–	117	–	328	328	–	2,345	2,345
Sweden	–	–	–	–	–	322	322	–	300	300
Syria	–	–	–	–	–	–	–	–	–	–
Trinidad and Tobago	–	–	–	–	–	–	–	–	–	–
United Kingdom	1,198	–	–	300	–	16	16	3,065	330	3,395
Vietnam	–	–	–	–	–	–	–	–	–	–
Virgin Islands, U.S.	–	–	–	–	–	–	–	–	–	–
Yemen	–	–	–	–	–	–	–	–	–	–
Other	763	0	0	445	–	85	85	0	1,133	1,133
Total	**49,255**	**4,231**	**844**	**4,315**	**–**	**6,893**	**6,893**	**12,446**	**22,879**	**35,325**
Persian Gulf[4]	**5,229**	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**657**	**657**

See footnotes at end of table.

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-March 2023
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels[3]	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	**–**	**–**	**–**	**–**	**1,111**	**–**	**–**	**–**	**1,111**	**–**	**–**
Algeria	–	–	–	–	–	–	–	–	–	–	–
Angola	–	–	–	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–	–	–
Equatorial Guinea	–	–	–	–	–	–	–	–	–	–	–
Gabon	–	–	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–	–	–
Iraq	–	–	–	–	–	–	–	–	–	–	–
Kuwait	–	–	–	–	–	–	–	–	–	–	–
Libya	–	–	–	–	–	–	–	–	–	–	–
Nigeria	–	–	–	–	308	–	–	–	308	–	–
Saudi Arabia	–	–	–	–	750	–	–	–	750	–	–
United Arab Emirates	–	–	–	–	53	–	–	–	53	–	–
Venezuela	–	–	–	–	–	–	–	–	–	–	–
Non-OPEC	**–**	**1,512**	**–**	**–**	**17,719**	**2**	**131**	**–**	**17,852**	**504**	**18**
Argentina	–	–	–	–	–	–	–	–	–	–	–
Aruba	–	–	–	–	–	–	–	–	–	–	–
Australia	–	–	–	–	–	–	–	–	–	–	–
Bahamas	–	–	–	–	–	–	–	–	–	–	–
Bahrain	–	–	–	–	–	–	–	–	–	–	–
Belgium	–	–	–	–	70	–	–	–	70	–	–
Brazil	–	90	–	–	–	–	–	–	–	–	–
Brunei	–	–	–	–	–	–	–	–	–	–	–
Cameroon	–	–	–	–	–	–	–	–	–	–	–
Canada	–	237	–	–	12,326	2	–	–	12,328	–	–
Chad	–	–	–	–	–	–	–	–	–	–	–
China	–	–	–	–	–	–	–	–	–	–	–
Colombia	–	–	–	–	320	–	–	–	320	–	–
Denmark	–	–	–	–	–	–	–	–	–	–	–
Ecuador	–	–	–	–	–	–	–	–	–	–	–
Egypt	–	–	–	–	–	–	–	–	–	–	–
Estonia	–	–	–	–	–	–	–	–	–	–	–
Finland	–	–	–	–	–	–	–	–	–	–	–
France	–	–	–	–	–	–	–	–	–	–	–
Germany	–	734	–	–	–	–	–	–	–	–	–
Guatemala	–	–	–	–	–	–	–	–	–	–	–
India	–	–	–	–	3,088	–	–	–	3,088	504	–
Indonesia	–	–	–	–	–	–	–	–	–	–	–
Italy	–	209	–	–	–	–	–	–	–	–	–
Korea, South	–	–	–	–	–	–	–	–	–	–	–
Latvia	–	–	–	–	–	–	–	–	–	–	–
Lithuania	–	–	–	–	–	–	–	–	–	–	–
Malaysia	–	–	–	–	–	–	–	–	–	–	–
Mexico	–	–	–	–	–	–	–	–	–	–	–
Netherlands	–	–	–	–	55	–	117	–	172	–	18
Norway	–	–	–	–	–	–	14	–	14	–	–
Oman	–	–	–	–	–	–	–	–	–	–	–
Portugal	–	–	–	–	–	–	–	–	–	–	–
Qatar	–	–	–	–	1,106	–	–	–	1,106	–	–
Russia	–	–	–	–	–	–	–	–	–	–	–
Spain	–	242	–	–	–	–	–	–	–	–	–
Sweden	–	–	–	–	–	–	–	–	–	–	–
Syria	–	–	–	–	–	–	–	–	–	–	–
Trinidad and Tobago	–	–	–	–	–	–	–	–	–	–	–
United Kingdom	–	–	–	–	–	–	–	–	–	–	–
Vietnam	–	–	–	–	–	–	–	–	–	–	–
Virgin Islands, U.S.	–	–	–	–	–	–	–	–	–	–	–
Yemen	–	–	–	–	–	–	–	–	–	–	–
Other	–	0	–	–	754	0	0	–	754	0	0
Total	**–**	**1,512**	**–**	**–**	**18,830**	**2**	**131**	**–**	**18,963**	**504**	**18**
Persian Gulf[4]	**–**	**–**	**–**	**–**	**1,909**	**–**	**–**	**–**	**1,909**	**–**	**–**

See footnotes at end of table.

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-March 2023
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
OPEC	**–**	**2,162**	**–**	**998**	**355**	**633**	**1,986**	**–**	**–**
Algeria	–	–	–	998	229	–	1,227	–	–
Angola	–	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	126	–	126	–	–
Equatorial Guinea	–	–	–	–	–	–	–	–	–
Gabon	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–
Iraq	–	4	–	–	–	361	361	–	–
Kuwait	–	1,720	–	–	–	–	–	–	–
Libya	–	–	–	–	–	–	–	–	–
Nigeria	–	–	–	–	–	3	3	–	–
Saudi Arabia	–	279	–	–	–	269	269	–	–
United Arab Emirates	–	159	–	–	–	–	–	–	–
Venezuela	–	–	–	–	–	–	–	–	–
Non-OPEC	**–**	**2,354**	**7**	**–**	**1,665**	**3,191**	**4,856**	**97**	**34**
Argentina	–	–	–	–	–	–	–	–	31
Aruba	–	–	–	–	–	–	–	–	–
Australia	–	–	–	–	–	–	–	–	–
Bahamas	–	–	–	–	20	–	20	–	–
Bahrain	–	–	–	–	–	–	–	–	–
Belgium	–	–	–	–	301	–	301	–	–
Brazil	–	–	–	–	–	88	88	–	–
Brunei	–	–	–	–	–	–	–	–	–
Cameroon	–	–	–	–	–	–	–	–	–
Canada	–	574	7	–	93	256	349	6	3
Chad	–	–	–	–	–	–	–	–	–
China	–	–	–	–	–	–	–	–	–
Colombia	–	–	–	–	–	1,023	1,023	–	–
Denmark	–	–	–	–	33	–	33	–	–
Ecuador	–	–	–	–	110	2	112	–	–
Egypt	–	–	–	–	–	–	–	–	–
Estonia	–	–	–	–	–	–	–	–	–
Finland	–	–	–	–	19	–	19	–	–
France	–	–	–	–	–	–	–	–	–
Germany	–	–	–	–	53	–	53	–	–
Guatemala	–	–	–	–	–	–	–	–	–
India	–	1,375	–	–	–	49	49	–	–
Indonesia	–	–	–	–	–	–	–	–	–
Italy	–	49	–	–	–	–	–	91	–
Korea, South	–	315	–	–	–	–	–	–	–
Latvia	–	–	–	–	–	–	–	–	–
Lithuania	–	–	–	–	–	–	–	–	–
Malaysia	–	13	–	–	–	–	–	–	–
Mexico	–	13	–	–	8	976	984	–	–
Netherlands	–	–	–	–	332	109	441	–	–
Norway	–	15	–	–	–	–	–	–	–
Oman	–	–	–	–	–	–	–	–	–
Portugal	–	–	–	–	–	–	–	–	–
Qatar	–	–	–	–	–	–	–	–	–
Russia	–	–	–	–	–	–	–	–	–
Spain	–	–	–	–	–	–	–	–	–
Sweden	–	–	–	–	–	–	–	–	–
Syria	–	–	–	–	–	–	–	–	–
Trinidad and Tobago	–	–	–	–	–	–	–	–	–
United Kingdom	–	–	–	–	652	–	652	–	–
Vietnam	–	–	–	–	–	–	–	–	–
Virgin Islands, U.S.	–	–	–	–	–	–	–	–	–
Yemen	–	–	–	–	–	–	–	–	–
Other	–	0	0	0	44	688	732	0	0
Total	**–**	**4,516**	**7**	**998**	**2,020**	**3,824**	**6,842**	**97**	**34**
Persian Gulf[4]	**–**	**2,162**	**–**	**–**	**–**	**630**	**630**	**–**	**–**

See footnotes at end of table.

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-March 2023
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
OPEC	**–**	**–**	**–**	**38**	**–**	**7,765**	**33,759**	**289**	**86**	**375**
Algeria	–	–	–	–	–	1,366	2,624	14	15	29
Angola	–	–	–	–	–	597	1,603	11	7	18
Congo (Brazzaville)	–	–	–	–	–	126	126	–	1	1
Equatorial Guinea	–	–	–	–	–	759	759	–	8	8
Gabon	–	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–	–
Iraq	–	–	–	–	–	365	365	–	4	4
Kuwait	–	–	–	–	–	1,721	1,721	–	19	19
Libya	–	–	–	–	–	–	2,051	23	–	23
Nigeria	–	–	–	–	–	627	17,077	183	7	190
Saudi Arabia	–	–	–	–	–	1,954	7,183	58	22	80
United Arab Emirates	–	–	–	38	–	250	250	–	3	3
Venezuela	–	–	–	–	–	–	–	–	–	–
Non-OPEC	**277**	**–**	**2,241**	**329**	**–**	**79,221**	**102,482**	**258**	**880**	**1,139**
Argentina	–	–	–	–	–	1,149	2,281	13	13	25
Aruba	–	–	–	–	–	–	–	–	–	–
Australia	–	–	–	–	–	–	–	–	–	–
Bahamas	–	–	–	–	–	2,626	2,626	–	29	29
Bahrain	–	–	–	–	–	–	–	–	–	–
Belgium	–	–	–	2	–	1,086	1,086	–	12	12
Brazil	–	–	–	–	–	441	1,068	7	5	12
Brunei	–	–	–	–	–	–	–	–	–	–
Cameroon	–	–	–	–	–	–	–	–	–	–
Canada	233	–	2,138	227	–	31,692	43,074	126	352	479
Chad	–	–	–	–	–	–	–	–	–	–
China	36	–	–	–	–	36	36	–	0	0
Colombia	–	–	72	–	–	1,902	2,403	6	21	27
Denmark	–	–	–	–	–	33	33	–	0	0
Ecuador	–	–	–	–	–	112	112	–	1	1
Egypt	–	–	–	–	–	–	–	–	–	–
Estonia	–	–	–	–	–	–	–	–	–	–
Finland	–	–	–	–	–	946	946	–	11	11
France	–	–	–	19	–	2,594	2,594	–	29	29
Germany	–	–	–	30	–	848	848	–	9	9
Guatemala	–	–	–	–	–	–	–	–	–	–
India	–	–	–	–	–	7,843	7,843	–	87	87
Indonesia	–	–	–	–	–	–	–	–	–	–
Italy	–	–	31	2	–	4,329	4,329	–	48	48
Korea, South	2	–	–	46	–	363	363	–	4	4
Latvia	–	–	–	–	–	–	–	–	–	–
Lithuania	–	–	–	–	–	–	–	–	–	–
Malaysia	–	–	–	–	–	205	205	–	2	2
Mexico	–	–	–	–	–	2,327	9,858	84	26	110
Netherlands	–	–	–	1	–	5,479	5,479	–	61	61
Norway	–	–	–	–	–	1,498	1,625	1	17	18
Oman	–	–	–	–	–	–	–	–	–	–
Portugal	–	–	–	–	–	1,432	1,432	–	16	16
Qatar	–	–	–	–	–	1,106	1,106	–	12	12
Russia	–	–	–	–	–	–	–	–	–	–
Spain	1	–	–	–	–	3,033	3,033	–	34	34
Sweden	–	–	–	1	–	623	623	–	7	7
Syria	–	–	–	–	–	–	–	–	–	–
Trinidad and Tobago	–	–	–	–	–	–	–	–	–	–
United Kingdom	–	–	–	–	–	4,363	5,561	13	48	62
Vietnam	–	–	–	–	–	–	–	–	–	–
Virgin Islands, U.S.	–	–	–	–	–	–	–	–	–	–
Yemen	–	–	–	–	–	–	–	–	–	–
Other	5	–	0	1	–	3,155	3,918	8	36	44
Total	**277**	**–**	**2,241**	**367**	**–**	**86,986**	**136,241**	**547**	**967**	**1,514**
Persian Gulf[4]	**–**	**–**	**–**	**38**	**–**	**5,396**	**10,625**	**58**	**60**	**118**

– – = Not Applicable.
– = 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 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
4 Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.
Note: Totals may not equal sum of components due to independent rounding.
Data source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-March 2023
(Thousand Barrels)

Country of Origin	Crude Oil[1,2]	Natural Gas Liquids	Refinery Olefins	Unfinished Oils[1]	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reform-ulated	Conven-tional	Total	Reform-ulated	Conven-tional	Total
OPEC	–	–	–	–	–	–	–	–	–	–
Algeria	–	–	–	–	–	–	–	–	–	–
Angola	–	–	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–	–
Equatorial Guinea	–	–	–	–	–	–	–	–	–	–
Gabon	–	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–	–
Iraq	–	–	–	–	–	–	–	–	–	–
Kuwait	–	–	–	–	–	–	–	–	–	–
Libya	–	–	–	–	–	–	–	–	–	–
Nigeria	–	–	–	–	–	–	–	–	–	–
Saudi Arabia	–	–	–	–	–	–	–	–	–	–
United Arab Emirates	–	–	–	–	–	–	–	–	–	–
Venezuela	–	–	–	–	–	–	–	–	–	–
Non-OPEC	**258,414**	**5,908**	**859**	**–**	**–**	**–**	**–**	**–**	**1,872**	**1,872**
Argentina	–	–	–	–	–	–	–	–	–	–
Aruba	–	–	–	–	–	–	–	–	–	–
Australia	–	–	–	–	–	–	–	–	–	–
Bahamas	–	–	–	–	–	–	–	–	–	–
Bahrain	–	–	–	–	–	–	–	–	–	–
Belgium	–	–	–	–	–	–	–	–	–	–
Brazil	–	–	–	–	–	–	–	–	–	–
Brunei	–	–	–	–	–	–	–	–	–	–
Cameroon	–	–	–	–	–	–	–	–	–	–
Canada	258,414	5,908	859	–	–	–	–	–	1,872	1,872
Chad	–	–	–	–	–	–	–	–	–	–
China	–	–	–	–	–	–	–	–	–	–
Colombia	–	–	–	–	–	–	–	–	–	–
Denmark	–	–	–	–	–	–	–	–	–	–
Ecuador	–	–	–	–	–	–	–	–	–	–
Egypt	–	–	–	–	–	–	–	–	–	–
Estonia	–	–	–	–	–	–	–	–	–	–
Finland	–	–	–	–	–	–	–	–	–	–
France	–	–	–	–	–	–	–	–	–	–
Germany	–	–	–	–	–	–	–	–	–	–
Guatemala	–	–	–	–	–	–	–	–	–	–
India	–	–	–	–	–	–	–	–	–	–
Indonesia	–	–	–	–	–	–	–	–	–	–
Italy	–	–	–	–	–	–	–	–	–	–
Korea, South	–	–	–	–	–	–	–	–	–	–
Latvia	–	–	–	–	–	–	–	–	–	–
Lithuania	–	–	–	–	–	–	–	–	–	–
Malaysia	–	–	–	–	–	–	–	–	–	–
Mexico	–	–	–	–	–	–	–	–	–	–
Netherlands	–	–	–	–	–	–	–	–	–	–
Norway	–	–	–	–	–	–	–	–	–	–
Oman	–	–	–	–	–	–	–	–	–	–
Portugal	–	–	–	–	–	–	–	–	–	–
Qatar	–	–	–	–	–	–	–	–	–	–
Russia	–	–	–	–	–	–	–	–	–	–
Spain	–	–	–	–	–	–	–	–	–	–
Sweden	–	–	–	–	–	–	–	–	–	–
Syria	–	–	–	–	–	–	–	–	–	–
Trinidad and Tobago	–	–	–	–	–	–	–	–	–	–
United Kingdom	–	–	–	–	–	–	–	–	–	–
Vietnam	–	–	–	–	–	–	–	–	–	–
Virgin Islands, U.S.	–	–	–	–	–	–	–	–	–	–
Yemen	–	–	–	–	–	–	–	–	–	–
Other	0	0	0	–	–	–	–	–	0	0
Total	**258,414**	**5,908**	**859**	**–**	**–**	**–**	**–**	**–**	**1,872**	**1,872**
Persian Gulf[4]	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**–**

See footnotes at end of table.

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-March 2023
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels[3]	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	–	–	–	–	–	–	–	–	–	–	–
Algeria	–	–	–	–	–	–	–	–	–	–	–
Angola	–	–	–	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–	–	–
Equatorial Guinea	–	–	–	–	–	–	–	–	–	–	–
Gabon	–	–	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–	–	–
Iraq	–	–	–	–	–	–	–	–	–	–	–
Kuwait	–	–	–	–	–	–	–	–	–	–	–
Libya	–	–	–	–	–	–	–	–	–	–	–
Nigeria	–	–	–	–	–	–	–	–	–	–	–
Saudi Arabia	–	–	–	–	–	–	–	–	–	–	–
United Arab Emirates	–	–	–	–	–	–	–	–	–	–	–
Venezuela	–	–	–	–	–	–	–	–	–	–	–
Non-OPEC	–	**301**	–	–	**851**	**12**	**47**	–	**910**	–	**12**
Argentina	–	–	–	–	–	–	–	–	–	–	–
Aruba	–	–	–	–	–	–	–	–	–	–	–
Australia	–	–	–	–	–	–	–	–	–	–	–
Bahamas	–	–	–	–	–	–	–	–	–	–	–
Bahrain	–	–	–	–	–	–	–	–	–	–	–
Belgium	–	–	–	–	–	–	–	–	–	–	–
Brazil	–	–	–	–	–	–	–	–	–	–	–
Brunei	–	–	–	–	–	–	–	–	–	–	–
Cameroon	–	–	–	–	–	–	–	–	–	–	–
Canada	–	301	–	–	851	12	47	–	910	–	12
Chad	–	–	–	–	–	–	–	–	–	–	–
China	–	–	–	–	–	–	–	–	–	–	–
Colombia	–	–	–	–	–	–	–	–	–	–	–
Denmark	–	–	–	–	–	–	–	–	–	–	–
Ecuador	–	–	–	–	–	–	–	–	–	–	–
Egypt	–	–	–	–	–	–	–	–	–	–	–
Estonia	–	–	–	–	–	–	–	–	–	–	–
Finland	–	–	–	–	–	–	–	–	–	–	–
France	–	–	–	–	–	–	–	–	–	–	–
Germany	–	–	–	–	–	–	–	–	–	–	–
Guatemala	–	–	–	–	–	–	–	–	–	–	–
India	–	–	–	–	–	–	–	–	–	–	–
Indonesia	–	–	–	–	–	–	–	–	–	–	–
Italy	–	–	–	–	–	–	–	–	–	–	–
Korea, South	–	–	–	–	–	–	–	–	–	–	–
Latvia	–	–	–	–	–	–	–	–	–	–	–
Lithuania	–	–	–	–	–	–	–	–	–	–	–
Malaysia	–	–	–	–	–	–	–	–	–	–	–
Mexico	–	–	–	–	–	–	–	–	–	–	–
Netherlands	–	–	–	–	–	–	–	–	–	–	–
Norway	–	–	–	–	–	–	–	–	–	–	–
Oman	–	–	–	–	–	–	–	–	–	–	–
Portugal	–	–	–	–	–	–	–	–	–	–	–
Qatar	–	–	–	–	–	–	–	–	–	–	–
Russia	–	–	–	–	–	–	–	–	–	–	–
Spain	–	–	–	–	–	–	–	–	–	–	–
Sweden	–	–	–	–	–	–	–	–	–	–	–
Syria	–	–	–	–	–	–	–	–	–	–	–
Trinidad and Tobago	–	–	–	–	–	–	–	–	–	–	–
United Kingdom	–	–	–	–	–	–	–	–	–	–	–
Vietnam	–	–	–	–	–	–	–	–	–	–	–
Virgin Islands, U.S.	–	–	–	–	–	–	–	–	–	–	–
Yemen	–	–	–	–	–	–	–	–	–	–	–
Other	–	0	–	–	0	0	0	–	0	–	0
Total	–	**301**	–	–	**851**	**12**	**47**	–	**910**	–	**12**
Persian Gulf[4]	–	–	–	–	–	–	–	–	–	–	–

See footnotes at end of table.

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-March 2023
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
OPEC	–	–	–	–	–	–	–	–	–
Algeria	–	–	–	–	–	–	–	–	–
Angola	–	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–
Equatorial Guinea	–	–	–	–	–	–	–	–	–
Gabon	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–
Iraq	–	–	–	–	–	–	–	–	–
Kuwait	–	–	–	–	–	–	–	–	–
Libya	–	–	–	–	–	–	–	–	–
Nigeria	–	–	–	–	–	–	–	–	–
Saudi Arabia	–	–	–	–	–	–	–	–	–
United Arab Emirates	–	–	–	–	–	–	–	–	–
Venezuela	–	–	–	–	–	–	–	–	–
Non-OPEC	–	–	**10**	–	**22**	**200**	**222**	**279**	**218**
Argentina	–	–	–	–	–	–	–	–	–
Aruba	–	–	–	–	–	–	–	–	–
Australia	–	–	–	–	–	–	–	–	–
Bahamas	–	–	–	–	–	–	–	–	–
Bahrain	–	–	–	–	–	–	–	–	–
Belgium	–	–	–	–	–	–	–	–	–
Brazil	–	–	–	–	–	–	–	–	–
Brunei	–	–	–	–	–	–	–	–	–
Cameroon	–	–	–	–	–	–	–	–	–
Canada	–	–	10	–	22	200	222	279	218
Chad	–	–	–	–	–	–	–	–	–
China	–	–	–	–	–	–	–	–	–
Colombia	–	–	–	–	–	–	–	–	–
Denmark	–	–	–	–	–	–	–	–	–
Ecuador	–	–	–	–	–	–	–	–	–
Egypt	–	–	–	–	–	–	–	–	–
Estonia	–	–	–	–	–	–	–	–	–
Finland	–	–	–	–	–	–	–	–	–
France	–	–	–	–	–	–	–	–	–
Germany	–	–	–	–	–	–	–	–	–
Guatemala	–	–	–	–	–	–	–	–	–
India	–	–	–	–	–	–	–	–	–
Indonesia	–	–	–	–	–	–	–	–	–
Italy	–	–	–	–	–	–	–	–	–
Korea, South	–	–	–	–	–	–	–	–	–
Latvia	–	–	–	–	–	–	–	–	–
Lithuania	–	–	–	–	–	–	–	–	–
Malaysia	–	–	–	–	–	–	–	–	–
Mexico	–	–	–	–	–	–	–	–	–
Netherlands	–	–	–	–	–	–	–	–	–
Norway	–	–	–	–	–	–	–	–	–
Oman	–	–	–	–	–	–	–	–	–
Portugal	–	–	–	–	–	–	–	–	–
Qatar	–	–	–	–	–	–	–	–	–
Russia	–	–	–	–	–	–	–	–	–
Spain	–	–	–	–	–	–	–	–	–
Sweden	–	–	–	–	–	–	–	–	–
Syria	–	–	–	–	–	–	–	–	–
Trinidad and Tobago	–	–	–	–	–	–	–	–	–
United Kingdom	–	–	–	–	–	–	–	–	–
Vietnam	–	–	–	–	–	–	–	–	–
Virgin Islands, U.S.	–	–	–	–	–	–	–	–	–
Yemen	–	–	–	–	–	–	–	–	–
Other	–	–	0	–	0	0	0	0	0
Total	–	–	**10**	–	**22**	**200**	**222**	**279**	**218**
Persian Gulf[4]	–	–	–	–	–	–	–	–	–

See footnotes at end of table.

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-March 2023
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
OPEC	–	–	–	–	–	–	–	–	–	–
Algeria	–	–	–	–	–	–	–	–	–	–
Angola	–	–	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–	–
Equatorial Guinea	–	–	–	–	–	–	–	–	–	–
Gabon	–	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–	–
Iraq	–	–	–	–	–	–	–	–	–	–
Kuwait	–	–	–	–	–	–	–	–	–	–
Libya	–	–	–	–	–	–	–	–	–	–
Nigeria	–	–	–	–	–	–	–	–	–	–
Saudi Arabia	–	–	–	–	–	–	–	–	–	–
United Arab Emirates	–	–	–	–	–	–	–	–	–	–
Venezuela	–	–	–	–	–	–	–	–	–	–
Non-OPEC	**37**	**36**	**2,238**	**745**	**–**	**13,647**	**272,061**	**2,871**	**152**	**3,023**
Argentina	–	–	–	–	–	–	–	–	–	–
Aruba	–	–	–	–	–	–	–	–	–	–
Australia	–	–	–	–	–	–	–	–	–	–
Bahamas	–	–	–	–	–	–	–	–	–	–
Bahrain	–	–	–	–	–	–	–	–	–	–
Belgium	–	–	–	–	–	–	–	–	–	–
Brazil	–	–	–	–	–	–	–	–	–	–
Brunei	–	–	–	–	–	–	–	–	–	–
Cameroon	–	–	–	–	–	–	–	–	–	–
Canada	35	36	2,238	743	–	13,643	272,057	2,871	152	3,023
Chad	–	–	–	–	–	–	–	–	–	–
China	–	–	–	–	–	–	–	–	–	–
Colombia	–	–	–	–	–	–	–	–	–	–
Denmark	–	–	–	–	–	–	–	–	–	–
Ecuador	–	–	–	–	–	–	–	–	–	–
Egypt	–	–	–	–	–	–	–	–	–	–
Estonia	–	–	–	–	–	–	–	–	–	–
Finland	–	–	–	–	–	–	–	–	–	–
France	–	–	–	–	–	–	–	–	–	–
Germany	–	–	–	2	–	2	2	–	0	0
Guatemala	–	–	–	–	–	–	–	–	–	–
India	–	–	–	–	–	–	–	–	–	–
Indonesia	–	–	–	–	–	–	–	–	–	–
Italy	–	–	–	–	–	–	–	–	–	–
Korea, South	–	–	–	–	–	–	–	–	–	–
Latvia	–	–	–	–	–	–	–	–	–	–
Lithuania	–	–	–	–	–	–	–	–	–	–
Malaysia	–	–	–	–	–	–	–	–	–	–
Mexico	–	–	–	–	–	–	–	–	–	–
Netherlands	–	–	–	–	–	–	–	–	–	–
Norway	–	–	–	–	–	–	–	–	–	–
Oman	–	–	–	–	–	–	–	–	–	–
Portugal	–	–	–	–	–	–	–	–	–	–
Qatar	–	–	–	–	–	–	–	–	–	–
Russia	–	–	–	–	–	–	–	–	–	–
Spain	–	–	–	–	–	–	–	–	–	–
Sweden	–	–	–	–	–	–	–	–	–	–
Syria	–	–	–	–	–	–	–	–	–	–
Trinidad and Tobago	–	–	–	–	–	–	–	–	–	–
United Kingdom	–	–	–	–	–	–	–	–	–	–
Vietnam	–	–	–	–	–	–	–	–	–	–
Virgin Islands, U.S.	–	–	–	–	–	–	–	–	–	–
Yemen	–	–	–	–	–	–	–	–	–	–
Other	2	0	0	0	–	2	2	0	0	0
Total	**37**	**36**	**2,238**	**745**	**–**	**13,647**	**272,061**	**2,871**	**152**	**3,023**
Persian Gulf[4]	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**–**

– – = Not Applicable.
– = 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 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
4 Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.
Note: Totals may not equal sum of components due to independent rounding.
Data source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-March 2023
(Thousand Barrels)

Country of Origin	Crude Oil[1,2]	Natural Gas Liquids	Refinery Olefins	Unfinished Oils[1]	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reform-ulated	Conven-tional	Total	Reform-ulated	Conven-tional	Total
OPEC	**28,593**	**–**	**–**	**17,808**	**–**	**–**	**–**	**130**	**164**	**294**
Algeria	–	–	–	319	–	–	–	–	–	–
Angola	–	–	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–	–
Equatorial Guinea	–	–	–	–	–	–	–	–	–	–
Gabon	–	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–	–
Iraq	3,790	–	–	11,426	–	–	–	–	–	–
Kuwait	1,227	–	–	577	–	–	–	–	69	69
Libya	–	–	–	–	–	–	–	–	–	–
Nigeria	–	–	–	–	–	–	–	–	–	–
Saudi Arabia	17,322	–	–	5,116	–	–	–	–	95	95
United Arab Emirates	–	–	–	370	–	–	–	130	–	130
Venezuela	6,254	–	–	–	–	–	–	–	–	–
Non-OPEC	**105,347**	**9**	**–**	**22,217**	**–**	**5**	**5**	**162**	**3,656**	**3,818**
Argentina	–	–	–	–	–	–	–	–	21	21
Aruba	–	–	–	–	–	–	–	–	–	–
Australia	–	–	–	–	–	–	–	–	–	–
Bahamas	–	–	–	–	–	–	–	–	–	–
Bahrain	–	–	–	–	–	–	–	–	–	–
Belgium	–	–	–	1,807	–	–	–	–	190	190
Brazil	1,579	–	–	2,283	–	–	–	–	92	92
Brunei	–	–	–	–	–	–	–	–	–	–
Cameroon	617	–	–	–	–	–	–	–	–	–
Canada	30,198	9	–	–	–	–	–	–	–	–
Chad	–	–	–	–	–	–	–	–	–	–
China	–	–	–	–	–	–	–	–	–	–
Colombia	12,696	–	–	–	–	–	–	–	32	32
Denmark	–	–	–	–	–	–	–	–	–	–
Ecuador	–	–	–	1,596	–	–	–	–	–	–
Egypt	–	–	–	47	–	–	–	–	–	–
Estonia	–	–	–	–	–	–	–	–	–	–
Finland	–	–	–	–	–	–	–	–	–	–
France	–	–	–	–	–	–	–	–	–	–
Germany	–	–	–	–	–	–	–	–	37	37
Guatemala	–	–	–	–	–	–	–	–	–	–
India	–	–	–	670	–	–	–	162	1,588	1,750
Indonesia	–	–	–	–	–	–	–	–	–	–
Italy	–	–	–	275	–	–	–	–	–	–
Korea, South	–	–	–	–	–	–	–	–	409	409
Latvia	–	–	–	–	–	–	–	–	–	–
Lithuania	–	–	–	–	–	–	–	–	–	–
Malaysia	–	–	–	3,117	–	–	–	–	–	–
Mexico	56,698	–	–	9,457	–	–	–	–	230	230
Netherlands	–	–	–	310	–	–	–	–	–	–
Norway	–	–	–	–	–	–	–	–	–	–
Oman	–	–	–	–	–	–	–	–	185	185
Portugal	–	–	–	–	–	–	–	–	–	–
Qatar	–	–	–	–	–	–	–	–	–	–
Russia	–	–	–	–	–	–	–	–	–	–
Spain	–	–	–	317	–	–	–	–	306	306
Sweden	–	–	–	199	–	–	–	–	50	50
Syria	–	–	–	–	–	–	–	–	–	–
Trinidad and Tobago	1,416	–	–	–	–	–	–	–	–	–
United Kingdom	2,143	–	–	408	–	5	5	–	–	–
Vietnam	–	–	–	–	–	–	–	–	–	–
Virgin Islands, U.S.	–	–	–	–	–	–	–	–	–	–
Yemen	–	–	–	–	–	–	–	–	–	–
Other	0	0	–	1,731	–	0	0	0	516	516
Total	**133,940**	**9**	**–**	**40,025**	**–**	**5**	**5**	**292**	**3,820**	**4,112**
Persian Gulf[4]	**22,339**	**–**	**–**	**17,489**	**–**	**–**	**–**	**130**	**164**	**294**

See footnotes at end of table.

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-March 2023
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels[3]	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	–	–	–	–	–	–	–	–	–	–	–
Algeria	–	–	–	–	–	–	–	–	–	–	–
Angola	–	–	–	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–	–	–
Equatorial Guinea	–	–	–	–	–	–	–	–	–	–	–
Gabon	–	–	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–	–	–
Iraq	–	–	–	–	–	–	–	–	–	–	–
Kuwait	–	–	–	–	–	–	–	–	–	–	–
Libya	–	–	–	–	–	–	–	–	–	–	–
Nigeria	–	–	–	–	–	–	–	–	–	–	–
Saudi Arabia	–	–	–	–	–	–	–	–	–	–	–
United Arab Emirates	–	–	–	–	–	–	–	–	–	–	–
Venezuela	–	–	–	–	–	–	–	–	–	–	–
Non-OPEC	–	**621**	**53**	–	**540**	–	–	–	**540**	–	–
Argentina	–	–	–	–	–	–	–	–	–	–	–
Aruba	–	–	–	–	–	–	–	–	–	–	–
Australia	–	–	–	–	–	–	–	–	–	–	–
Bahamas	–	–	–	–	–	–	–	–	–	–	–
Bahrain	–	–	–	–	–	–	–	–	–	–	–
Belgium	–	–	–	–	–	–	–	–	–	–	–
Brazil	–	–	–	–	–	–	–	–	–	–	–
Brunei	–	–	–	–	–	–	–	–	–	–	–
Cameroon	–	–	–	–	–	–	–	–	–	–	–
Canada	–	–	–	–	–	–	–	–	–	–	–
Chad	–	–	–	–	–	–	–	–	–	–	–
China	–	–	–	–	–	–	–	–	–	–	–
Colombia	–	–	–	–	240	–	–	–	240	–	–
Denmark	–	–	–	–	–	–	–	–	–	–	–
Ecuador	–	–	–	–	–	–	–	–	–	–	–
Egypt	–	–	–	–	–	–	–	–	–	–	–
Estonia	–	–	–	–	–	–	–	–	–	–	–
Finland	–	–	53	–	–	–	–	–	–	–	–
France	–	–	–	–	–	–	–	–	–	–	–
Germany	–	349	–	–	–	–	–	–	–	–	–
Guatemala	–	–	–	–	–	–	–	–	–	–	–
India	–	–	–	–	–	–	–	–	–	–	–
Indonesia	–	–	–	–	–	–	–	–	–	–	–
Italy	–	69	–	–	–	–	–	–	–	–	–
Korea, South	–	–	–	–	–	–	–	–	–	–	–
Latvia	–	–	–	–	–	–	–	–	–	–	–
Lithuania	–	–	–	–	–	–	–	–	–	–	–
Malaysia	–	–	–	–	–	–	–	–	–	–	–
Mexico	–	–	–	–	300	–	–	–	300	–	–
Netherlands	–	37	–	–	–	–	–	–	–	–	–
Norway	–	–	–	–	–	–	–	–	–	–	–
Oman	–	–	–	–	–	–	–	–	–	–	–
Portugal	–	–	–	–	–	–	–	–	–	–	–
Qatar	–	–	–	–	–	–	–	–	–	–	–
Russia	–	–	–	–	–	–	–	–	–	–	–
Spain	–	166	–	–	–	–	–	–	–	–	–
Sweden	–	–	–	–	–	–	–	–	–	–	–
Syria	–	–	–	–	–	–	–	–	–	–	–
Trinidad and Tobago	–	–	–	–	–	–	–	–	–	–	–
United Kingdom	–	–	–	–	–	–	–	–	–	–	–
Vietnam	–	–	–	–	–	–	–	–	–	–	–
Virgin Islands, U.S.	–	–	–	–	–	–	–	–	–	–	–
Yemen	–	–	–	–	–	–	–	–	–	–	–
Other	–	0	0	–	0	–	–	–	0	–	–
Total	–	**621**	**53**	–	**540**	–	–	–	**540**	–	–
Persian Gulf[4]	–	–	–	–	–	–	–	–	–	–	–

See footnotes at end of table.

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-March 2023
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
OPEC	**–**	**–**	**–**	**–**	**–**	**162**	**162**	**–**	**–**
Algeria	–	–	–	–	–	–	–	–	–
Angola	–	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–
Equatorial Guinea	–	–	–	–	–	–	–	–	–
Gabon	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–
Iraq	–	–	–	–	–	162	162	–	–
Kuwait	–	–	–	–	–	–	–	–	–
Libya	–	–	–	–	–	–	–	–	–
Nigeria	–	–	–	–	–	–	–	–	–
Saudi Arabia	–	–	–	–	–	–	–	–	–
United Arab Emirates	–	–	–	–	–	–	–	–	–
Venezuela	–	–	–	–	–	–	–	–	–
Non-OPEC	**–**	**–**	**1,203**	**65**	**570**	**4,746**	**5,381**	**409**	**331**
Argentina	–	–	–	–	–	–	–	–	19
Aruba	–	–	–	–	–	–	–	–	–
Australia	–	–	–	–	–	–	–	–	–
Bahamas	–	–	–	–	–	–	–	–	–
Bahrain	–	–	–	–	–	–	–	–	–
Belgium	–	–	–	–	–	–	–	–	–
Brazil	–	–	–	–	–	569	569	–	–
Brunei	–	–	–	–	–	–	–	–	–
Cameroon	–	–	–	–	–	–	–	–	–
Canada	–	–	220	65	–	27	92	–	–
Chad	–	–	–	–	–	–	–	–	–
China	–	–	–	–	–	–	–	–	–
Colombia	–	–	–	–	–	–	–	–	–
Denmark	–	–	–	–	–	–	–	–	–
Ecuador	–	–	–	–	–	–	–	–	–
Egypt	–	–	–	–	–	–	–	–	–
Estonia	–	–	–	–	–	–	–	–	–
Finland	–	–	–	–	–	–	–	–	–
France	–	–	24	–	–	–	–	–	8
Germany	–	–	14	–	–	–	–	–	–
Guatemala	–	–	–	–	–	–	–	–	–
India	–	–	–	–	–	–	–	136	–
Indonesia	–	–	–	–	–	–	–	–	–
Italy	–	–	–	–	–	–	–	–	–
Korea, South	–	–	760	–	–	–	–	67	–
Latvia	–	–	–	–	–	–	–	–	–
Lithuania	–	–	–	–	–	–	–	–	–
Malaysia	–	–	–	–	–	69	69	–	–
Mexico	–	–	–	–	–	4,081	4,081	150	304
Netherlands	–	–	170	–	–	–	–	–	–
Norway	–	–	–	–	–	–	–	–	–
Oman	–	–	–	–	–	–	–	–	–
Portugal	–	–	–	–	–	–	–	–	–
Qatar	–	–	–	–	–	–	–	13	–
Russia	–	–	–	–	–	–	–	–	–
Spain	–	–	–	–	–	–	–	–	–
Sweden	–	–	–	–	–	–	–	–	–
Syria	–	–	–	–	–	–	–	–	–
Trinidad and Tobago	–	–	–	–	–	–	–	–	–
United Kingdom	–	–	–	–	–	–	–	–	–
Vietnam	–	–	–	–	–	–	–	–	–
Virgin Islands, U.S.	–	–	–	–	–	–	–	–	–
Yemen	–	–	–	–	–	–	–	–	–
Other	–	–	15	0	570	0	570	43	0
Total	**–**	**–**	**1,203**	**65**	**570**	**4,908**	**5,543**	**409**	**331**
Persian Gulf[4]	**–**	**–**	**–**	**–**	**–**	**162**	**162**	**13**	**–**

See footnotes at end of table.

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-March 2023
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
OPEC	**–**	**–**	**–**	**329**	**–**	**18,593**	**47,186**	**318**	**207**	**524**
Algeria	–	–	–	–	–	319	319	–	4	4
Angola	–	–	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–	–
Equatorial Guinea	–	–	–	–	–	–	–	–	–	–
Gabon	–	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–	–
Iraq	–	–	–	–	–	11,588	15,378	42	129	171
Kuwait	–	–	–	–	–	646	1,873	14	7	21
Libya	–	–	–	–	–	–	–	–	–	–
Nigeria	–	–	–	–	–	–	–	–	–	–
Saudi Arabia	–	–	–	–	–	5,211	22,533	192	58	250
United Arab Emirates	–	–	–	329	–	829	829	–	9	9
Venezuela	–	–	–	–	–	–	6,254	69	–	69
Non-OPEC	**24**	**997**	**–**	**2,454**	**–**	**38,077**	**143,424**	**1,171**	**423**	**1,594**
Argentina	–	449	–	4	–	493	493	–	5	5
Aruba	–	–	–	–	–	–	–	–	–	–
Australia	–	–	–	–	–	–	–	–	–	–
Bahamas	–	–	–	–	–	–	–	–	–	–
Bahrain	–	–	–	202	–	202	202	–	2	2
Belgium	–	–	–	5	–	2,002	2,002	–	22	22
Brazil	–	40	–	–	–	2,984	4,563	18	33	51
Brunei	–	–	–	–	–	–	–	–	–	–
Cameroon	–	–	–	–	–	–	617	7	–	7
Canada	–	–	–	–	–	321	30,519	336	4	339
Chad	–	–	–	–	–	–	–	–	–	–
China	–	–	–	–	–	–	–	–	–	–
Colombia	–	196	–	–	–	468	13,164	141	5	146
Denmark	–	–	–	–	–	–	–	–	–	–
Ecuador	–	–	–	–	–	1,596	1,596	–	18	18
Egypt	–	–	–	–	–	47	47	–	1	1
Estonia	–	–	–	–	–	–	–	–	–	–
Finland	–	–	–	–	–	53	53	–	1	1
France	–	–	–	9	–	41	41	–	0	0
Germany	–	–	–	7	–	407	407	–	5	5
Guatemala	–	–	–	–	–	–	–	–	–	–
India	–	–	–	–	–	2,556	2,556	–	28	28
Indonesia	–	–	–	286	–	286	286	–	3	3
Italy	–	–	–	20	–	364	364	–	4	4
Korea, South	–	–	–	1,012	–	2,248	2,248	–	25	25
Latvia	–	–	–	–	–	–	–	–	–	–
Lithuania	–	–	–	–	–	–	–	–	–	–
Malaysia	8	–	–	–	–	3,194	3,194	–	35	35
Mexico	–	–	–	–	–	14,522	71,220	630	161	791
Netherlands	–	140	–	205	–	862	862	–	10	10
Norway	–	–	–	–	–	–	–	–	–	–
Oman	–	–	–	–	–	185	185	–	2	2
Portugal	–	–	–	–	–	–	–	–	–	–
Qatar	–	–	–	702	–	715	715	–	8	8
Russia	–	–	–	–	–	–	–	–	–	–
Spain	–	–	–	–	–	789	789	–	9	9
Sweden	–	–	–	1	–	250	250	–	3	3
Syria	–	–	–	–	–	–	–	–	–	–
Trinidad and Tobago	–	–	–	–	–	–	1,416	16	–	16
United Kingdom	–	8	–	–	–	421	2,564	24	5	28
Vietnam	–	–	–	–	–	–	–	–	–	–
Virgin Islands, U.S.	–	–	–	–	–	–	–	–	–	–
Yemen	–	–	–	–	–	–	–	–	–	–
Other	16	164	–	1	–	3,071	3,071	-1	34	35
Total	**24**	**997**	**–**	**2,783**	**–**	**56,670**	**190,610**	**1,488**	**630**	**2,118**
Persian Gulf[4]	**–**	**–**	**–**	**1,233**	**–**	**19,191**	**41,530**	**248**	**213**	**461**

– – = Not Applicable.
– = 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 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
4 Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.
Note: Totals may not equal sum of components due to independent rounding.
Data source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-March 2023
(Thousand Barrels)

Country of Origin	Crude Oil[1,2]	Natural Gas Liquids	Refinery Olefins	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	–	–	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–	–
Iraq	–	–	–	–	–	–	–	–	–	–
Kuwait	–	–	–	–	–	–	–	–	–	–
Libya	–	–	–	–	–	–	–	–	–	–
Nigeria	–	–	–	–	–	–	–	–	–	–
Saudi Arabia	–	–	–	–	–	–	–	–	–	–
United Arab Emirates	–	–	–	–	–	–	–	–	–	–
Venezuela	–	–	–	–	–	–	–	–	–	–
Non-OPEC	**25,723**	**2,761**	**1**	**–**	**–**	**–**	**–**	**–**	**380**	**380**
Canada	25,723	2,761	1	–	–	–	–	–	380	380
Ecuador	–	–	–	–	–	–	–	–	–	–
Qatar	–	–	–	–	–	–	–	–	–	–
Other	0	0	0	–	–	–	–	–	0	0
Total	**25,723**	**2,761**	**1**	**–**	**–**	**–**	**–**	**–**	**380**	**380**
	PAD District 5									
OPEC	**39,483**	**116**	**–**	**1,242**	**–**	**–**	**–**	**–**	**–**	**–**
Algeria	–	–	–	988	–	–	–	–	–	–
Angola	–	–	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–	–
Iraq	19,295	–	–	–	–	–	–	–	–	–
Kuwait	–	–	–	–	–	–	–	–	–	–
Libya	3,120	–	–	–	–	–	–	–	–	–
Nigeria	–	–	–	–	–	–	–	–	–	–
Saudi Arabia	14,777	–	–	254	–	–	–	–	–	–
United Arab Emirates	1,428	–	–	–	–	–	–	–	–	–
Venezuela	–	–	–	–	–	–	–	–	–	–
Non-OPEC	**67,633**	**5,068**	**–**	**2,597**	**–**	**1,480**	**1,480**	**458**	**4,005**	**4,463**
Argentina	2,877	–	–	–	–	–	–	–	–	–
Aruba	–	–	–	–	–	–	–	–	–	–
Australia	–	–	–	–	–	–	–	–	–	–
Brazil	9,369	–	–	–	–	–	–	–	–	–
Brunei	–	–	–	–	–	–	–	–	–	–
Canada	26,548	4,957	–	357	–	103	103	–	58	58
China	–	–	–	–	–	323	323	–	–	–
Colombia	3,710	–	–	–	–	–	–	–	–	–
Ecuador	11,280	–	–	–	–	–	–	–	–	–
Finland	–	–	–	–	–	–	–	–	–	–
Germany	–	–	–	–	–	–	–	–	21	21
Indonesia	–	–	–	134	–	–	–	–	–	–
Japan	–	–	–	46	–	64	64	–	229	229
Korea, South	–	–	–	–	–	990	990	–	1,166	1,166
Malaysia	–	–	–	131	–	–	–	–	77	77
Mexico	2,417	–	–	–	–	–	–	–	–	–
Netherlands	–	–	–	–	–	–	–	458	338	796
Oman	–	–	–	–	–	–	–	–	–	–
Papua New Guinea	–	–	–	–	–	–	–	–	–	–
Peru	–	–	–	–	–	–	–	–	–	–
Qatar	517	–	–	–	–	–	–	–	–	–
Singapore	–	–	–	87	–	–	–	–	295	295
Sweden	–	–	–	–	–	–	–	–	–	–
Taiwan	–	–	–	–	–	–	–	–	159	159
United Kingdom	–	–	–	–	–	–	–	–	353	353
Vietnam	–	–	–	–	–	–	–	–	–	–
Virgin Islands, U.S.	–	–	–	–	–	–	–	–	–	–
Other	10,915	111	–	1,842	–	0	0	0	1,309	1,309
Total	**107,116**	**5,184**	**–**	**3,839**	**–**	**1,480**	**1,480**	**458**	**4,005**	**4,463**
Persian Gulf[4]	**36,017**	**–**	**–**	**254**	**–**	**–**	**–**	**–**	**–**	**–**

See footnotes at end of table.

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-March 2023
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels[3]	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
	PAD District 4										
OPEC	–	–	–	–	–	–	–	–	–	–	–
Algeria	–	–	–	–	–	–	–	–	–	–	–
Angola	–	–	–	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–	–	–
Iraq	–	–	–	–	–	–	–	–	–	–	–
Kuwait	–	–	–	–	–	–	–	–	–	–	–
Libya	–	–	–	–	–	–	–	–	–	–	–
Nigeria	–	–	–	–	–	–	–	–	–	–	–
Saudi Arabia	–	–	–	–	–	–	–	–	–	–	–
United Arab Emirates	–	–	–	–	–	–	–	–	–	–	–
Venezuela	–	–	–	–	–	–	–	–	–	–	–
Non-OPEC	–	**34**	–	–	**85**	–	–	–	**85**	–	–
Canada	–	34	–	–	85	–	–	–	85	–	–
Ecuador	–	–	–	–	–	–	–	–	–	–	–
Qatar	–	–	–	–	–	–	–	–	–	–	–
Other	–	0	–	–	0	–	–	–	0	–	–
Total	–	**34**	–	–	**85**	–	–	–	**85**	–	–
	PAD District 5										
OPEC	–	–	–	–	–	–	–	–	–	–	–
Algeria	–	–	–	–	–	–	–	–	–	–	–
Angola	–	–	–	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–	–	–
Iraq	–	–	–	–	–	–	–	–	–	–	–
Kuwait	–	–	–	–	–	–	–	–	–	–	–
Libya	–	–	–	–	–	–	–	–	–	–	–
Nigeria	–	–	–	–	–	–	–	–	–	–	–
Saudi Arabia	–	–	–	–	–	–	–	–	–	–	–
United Arab Emirates	–	–	–	–	–	–	–	–	–	–	–
Venezuela	–	–	–	–	–	–	–	–	–	–	–
Non-OPEC	–	**330**	**1,912**	–	**1,208**	–	–	–	**1,208**	–	**2**
Argentina	–	–	–	–	–	–	–	–	–	–	–
Aruba	–	–	–	–	–	–	–	–	–	–	–
Australia	–	–	–	–	–	–	–	–	–	–	–
Brazil	–	–	–	–	–	–	–	–	–	–	–
Brunei	–	–	–	–	–	–	–	–	–	–	–
Canada	–	244	–	–	756	–	–	–	756	–	2
China	–	–	–	–	–	–	–	–	–	–	–
Colombia	–	–	–	–	–	–	–	–	–	–	–
Ecuador	–	–	–	–	–	–	–	–	–	–	–
Finland	–	–	–	–	–	–	–	–	–	–	–
Germany	–	–	–	–	–	–	–	–	–	–	–
Indonesia	–	–	–	–	–	–	–	–	–	–	–
Japan	–	–	–	–	–	–	–	–	–	–	–
Korea, South	–	86	–	–	452	–	–	–	452	–	–
Malaysia	–	–	–	–	–	–	–	–	–	–	–
Mexico	–	–	–	–	–	–	–	–	–	–	–
Netherlands	–	–	61	–	–	–	–	–	–	–	–
Oman	–	–	–	–	–	–	–	–	–	–	–
Papua New Guinea	–	–	–	–	–	–	–	–	–	–	–
Peru	–	–	–	–	–	–	–	–	–	–	–
Qatar	–	–	–	–	–	–	–	–	–	–	–
Singapore	–	–	1,851	–	–	–	–	–	–	–	–
Sweden	–	–	–	–	–	–	–	–	–	–	–
Taiwan	–	–	–	–	–	–	–	–	–	–	–
United Kingdom	–	–	–	–	–	–	–	–	–	–	–
Vietnam	–	–	–	–	–	–	–	–	–	–	–
Virgin Islands, U.S.	–	–	–	–	–	–	–	–	–	–	–
Other	–	0	0	–	0	–	–	–	0	–	0
Total	–	**330**	**1,912**	–	**1,208**	–	–	–	**1,208**	–	**2**
Persian Gulf[4]	–	–	–	–	–	–	–	–	–	–	–

See footnotes at end of table.

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-March 2023
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
	PAD District 4								
OPEC	–	–	–	–	–	–	–	–	–
Algeria	–	–	–	–	–	–	–	–	–
Angola	–	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–
Iraq	–	–	–	–	–	–	–	–	–
Kuwait	–	–	–	–	–	–	–	–	–
Libya	–	–	–	–	–	–	–	–	–
Nigeria	–	–	–	–	–	–	–	–	–
Saudi Arabia	–	–	–	–	–	–	–	–	–
United Arab Emirates	–	–	–	–	–	–	–	–	–
Venezuela	–	–	–	–	–	–	–	–	–
Non-OPEC	–	**130**	**1**	**11**	**4**	–	**15**	–	–
Canada	–	130	1	11	4	–	15	–	–
Ecuador	–	–	–	–	–	–	–	–	–
Qatar	–	–	–	–	–	–	–	–	–
Other	–	0	0	0	0	–	0	–	–
Total	–	**130**	**1**	**11**	**4**	–	**15**	–	–
	PAD District 5								
OPEC	–	–	–	–	–	–	–	–	–
Algeria	–	–	–	–	–	–	–	–	–
Angola	–	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–
Iraq	–	–	–	–	–	–	–	–	–
Kuwait	–	–	–	–	–	–	–	–	–
Libya	–	–	–	–	–	–	–	–	–
Nigeria	–	–	–	–	–	–	–	–	–
Saudi Arabia	–	–	–	–	–	–	–	–	–
United Arab Emirates	–	–	–	–	–	–	–	–	–
Venezuela	–	–	–	–	–	–	–	–	–
Non-OPEC	–	**8,682**	**97**	**240**	**1,282**	**37**	**1,559**	**66**	–
Argentina	–	–	–	–	–	–	–	–	–
Aruba	–	–	–	–	–	–	–	–	–
Australia	–	–	–	–	–	–	–	–	–
Brazil	–	–	–	–	–	–	–	–	–
Brunei	–	–	–	–	–	–	–	–	–
Canada	–	43	97	–	117	37	154	–	–
China	–	935	–	–	–	–	–	–	–
Colombia	–	–	–	–	–	–	–	–	–
Ecuador	–	–	–	–	–	–	–	–	–
Finland	–	–	–	–	–	–	–	–	–
Germany	–	–	–	–	–	–	–	–	–
Indonesia	–	–	–	–	–	–	–	–	–
Japan	–	608	–	–	–	–	–	–	–
Korea, South	–	5,748	–	–	–	–	–	–	–
Malaysia	–	–	–	–	–	–	–	–	–
Mexico	–	–	–	–	–	–	–	–	–
Netherlands	–	–	–	–	–	–	–	–	–
Oman	–	–	–	–	–	–	–	–	–
Papua New Guinea	–	–	–	–	–	–	–	–	–
Peru	–	–	–	–	–	–	–	–	–
Qatar	–	–	–	–	–	–	–	–	–
Singapore	–	–	–	–	–	–	–	–	–
Sweden	–	–	–	–	–	–	–	–	–
Taiwan	–	304	–	–	–	–	–	66	–
United Kingdom	–	–	–	–	–	–	–	–	–
Vietnam	–	–	–	–	–	–	–	–	–
Virgin Islands, U.S.	–	–	–	–	–	–	–	–	–
Other	–	1,044	0	240	1,165	0	1,405	0	–
Total	–	**8,682**	**97**	**240**	**1,282**	**37**	**1,559**	**66**	–
Persian Gulf[4]	–	–	–	–	–	–	–	–	–

See footnotes at end of table.

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-March 2023
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
	PAD District 4									
OPEC	–	–	–	–	–	–	–	–	–	–
Algeria	–	–	–	–	–	–	–	–	–	–
Angola	–	–	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–	–
Iraq	–	–	–	–	–	–	–	–	–	–
Kuwait	–	–	–	–	–	–	–	–	–	–
Libya	–	–	–	–	–	–	–	–	–	–
Nigeria	–	–	–	–	–	–	–	–	–	–
Saudi Arabia	–	–	–	–	–	–	–	–	–	–
United Arab Emirates	–	–	–	–	–	–	–	–	–	–
Venezuela	–	–	–	–	–	–	–	–	–	–
Non-OPEC	–	–	**263**	–	–	**3,670**	**29,393**	**286**	**41**	**327**
Canada	–	–	263	–	–	3,670	29,393	286	41	327
Ecuador	–	–	–	–	–	–	–	–	–	–
Qatar	–	–	–	–	–	–	–	–	–	–
Other	–	–	0	–	–	0	0	0	0	0
Total	–	–	**263**	–	–	**3,670**	**29,393**	**286**	**41**	**327**
	PAD District 5									
OPEC	–	–	–	–	–	**1,358**	**40,841**	**439**	**15**	**454**
Algeria	–	–	–	–	–	988	988	–	11	11
Angola	–	–	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–	–
Iraq	–	–	–	–	–	–	19,295	214	–	214
Kuwait	–	–	–	–	–	–	–	–	–	–
Libya	–	–	–	–	–	–	3,120	35	–	35
Nigeria	–	–	–	–	–	–	–	–	–	–
Saudi Arabia	–	–	–	–	–	254	15,031	164	3	167
United Arab Emirates	–	–	–	–	–	–	1,428	16	–	16
Venezuela	–	–	–	–	–	–	–	–	–	–
Non-OPEC	**26**	–	**386**	**112**	–	**27,988**	**95,621**	**751**	**311**	**1,062**
Argentina	–	–	–	–	–	–	2,877	32	–	32
Aruba	–	–	–	–	–	–	–	–	–	–
Australia	–	–	–	–	–	–	–	–	–	–
Brazil	–	–	–	–	–	–	9,369	104	–	104
Brunei	–	–	–	–	–	–	–	–	–	–
Canada	–	–	278	13	–	7,062	33,610	295	78	373
China	–	–	–	–	–	1,258	1,258	–	14	14
Colombia	–	–	–	–	–	–	3,710	41	–	41
Ecuador	–	–	–	–	–	–	11,280	125	–	125
Finland	–	–	–	–	–	–	–	–	–	–
Germany	–	–	–	–	–	21	21	–	0	0
Indonesia	–	–	–	–	–	134	134	–	1	1
Japan	–	–	–	–	–	947	947	–	11	11
Korea, South	–	–	–	30	–	8,472	8,472	–	94	94
Malaysia	–	–	–	–	–	208	208	–	2	2
Mexico	–	–	–	–	–	–	2,417	27	–	27
Netherlands	–	–	–	–	–	857	857	–	10	10
Oman	–	–	–	–	–	–	–	–	–	–
Papua New Guinea	–	–	–	–	–	–	–	–	–	–
Peru	–	–	–	–	–	–	–	–	–	–
Qatar	–	–	–	69	–	69	586	6	1	7
Singapore	–	–	–	–	–	2,233	2,233	–	25	25
Sweden	–	–	–	–	–	–	–	–	–	–
Taiwan	26	–	–	–	–	555	555	–	6	6
United Kingdom	–	–	–	–	–	353	353	–	4	4
Vietnam	–	–	–	–	–	–	–	–	–	–
Virgin Islands, U.S.	–	–	–	–	–	–	–	–	–	–
Other	0	–	108	0	–	5,819	16,734	121	65	186
Total	**26**	–	**386**	**112**	–	**29,346**	**136,462**	**1,190**	**326**	**1,516**
Persian Gulf[4]	–	–	–	**69**	–	**323**	**36,340**	**400**	**4**	**404**

– – = Not Applicable.
– = 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 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
4 Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.
Note: Totals may not equal sum of components due to independent rounding.
Data source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 49. Exports of Crude Oil and Petroleum Products by PAD District, March 2023
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil[1]	**–**	**2,088**	**145,891**	**–**	**1,053**	**149,032**	**4,807**
Hydrocarbon Gas Liquids	**8,545**	**6,018**	**70,862**	**8**	**2,623**	**88,056**	**2,841**
Natural Gas Liquids	8,545	6,018	70,862	8	2,623	88,056	2,841
Ethane	2,444	1,922	12,272	–	–	16,639	537
Propane	4,206	145	46,795	2	1,393	52,541	1,695
Normal Butane	1,851	74	11,532	0	1,225	14,682	474
Isobutane	1	2	174	–	3	180	6
Natural Gasoline	43	3,876	89	6	2	4,015	130
Other Liquids	**202**	**3,370**	**11,079**	**37**	**445**	**15,133**	**488**
Hydrogen/Biofuels/Other Hydrocarbons	181	1,048	1,935	37	217	3,418	110
Hydrogen	– –	– –	– –	– –	– –	– –	– –
Biofuels	181	1,048	1,935	37	217	3,418	110
Fuel Ethanol	176	888	1,903	37	153	3,158	102
Biodiesel	5	159	32	–	64	261	8
Renewable Diesel Fuel	NA	NA	NA	NA	NA	NA	NA
Other Biofuels[2]	NA	NA	NA	NA	NA	NA	NA
Other Hydrocarbons	–	–	–	–	–	–	–
Unfinished Oils	18	2,309	6,829	–	41	9,197	297
Naphthas and Lighter	7	2,297	6,552	–	20	8,877	286
Kerosene and Light Gas Oils	11	12	276	–	21	321	10
Heavy Gas Oils	–	–	–	–	–	–	–
Residuum	–	–	–	–	–	–	–
Motor Gasoline Blend.Comp. (MGBC)	2	13	2,316	–	186	2,518	81
Reformulated	0	–	34	–	1	36	1
Conventional	2	13	2,282	–	185	2,482	80
Aviation Gasoline Blend. Comp.	–	–	–	–	–	–	–
Finished Petroleum Products	**3,399**	**759**	**83,383**	**17**	**9,606**	**97,164**	**3,134**
Finished Motor Gasoline	374	285	25,469	1	591	26,720	862
Reformulated	–	–	–	–	–	–	–
Conventional	374	285	25,469	1	591	26,720	862
Finished Aviation Gasoline	–	–	–	–	–	–	–
Kerosene-Type Jet Fuel	37	27	5,613	–	853	6,530	211
Kerosene	4	1	47	–	0	53	2
Distillate Fuel Oil	1,110	31	31,591	–	2,652	35,383	1,141
15 ppm sulfur and under	932	4	27,077	–	1,907	29,921	965
Greater than 15 ppm to 500 ppm sulfur	27	1	3,150	–	193	3,371	109
Greater than 500 ppm sulfur	150	25	1,364	–	552	2,091	67
Residual Fuel Oil	1,139	–	3,393	–	1,508	6,039	195
Naphtha for Petro. Feed. Use	–	–	–	–	–	–	–
Other Oils for Petro. Feed. Use	4	–	2,174	–	–	2,178	70
Special Naphthas	–	–	–	–	–	–	–
Lubricants	337	196	3,225	14	323	4,095	132
Waxes	69	38	21	0	5	134	4
Petroleum Coke	233	110	11,442	–	3,647	15,432	498
Asphalt and Road Oil	74	70	327	2	28	501	16
Miscellaneous Products	18	1	80	–	0	99	3
Total	**12,145**	**12,235**	**311,216**	**62**	**13,728**	**349,386**	**11,271**

– – = Not Applicable.
– = No Data Reported.
1 On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.
2 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
Note: Totals may not equal sum of components due to independent rounding.
Data source: U.S. Census Bureau and EIA estimates.

Table 50. Year-to-Date Exports of Crude Oil and Petroleum Products by PAD District, January-March 2023
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil[1]	**1,440**	**8,114**	**359,291**	**–**	**1,053**	**369,898**	**4,110**
Hydrocarbon Gas Liquids	**21,027**	**19,520**	**195,844**	**25**	**5,234**	**241,651**	**2,685**
Natural Gas Liquids	21,027	19,520	195,844	25	5,234	241,651	2,685
Ethane	7,195	6,199	31,446	0	–	44,841	498
Propane	10,466	355	127,291	3	3,068	141,182	1,569
Normal Butane	3,235	280	36,237	0	2,113	41,865	465
Isobutane	3	5	353	–	4	365	4
Natural Gasoline	129	12,682	518	21	48	13,398	149
Other Liquids	**539**	**10,167**	**25,749**	**90**	**1,422**	**37,967**	**422**
Hydrogen/Biofuels/Other Hydrocarbons	463	2,864	4,672	89	848	8,937	99
Hydrogen	– –	– –	– –	– –	– –	– –	– –
Biofuels	463	2,864	4,672	89	848	8,937	99
Fuel Ethanol	452	2,596	4,617	89	699	8,453	94
Biodiesel	12	268	55	–	149	484	5
Renewable Diesel Fuel	NA	NA	NA	NA	NA	NA	NA
Other Biofuels[2]	NA	NA	NA	NA	NA	NA	NA
Other Hydrocarbons	–	–	–	–	–	–	–
Unfinished Oils	65	7,136	16,085	0	81	23,368	260
Naphthas and Lighter	26	7,105	14,752	0	22	21,904	243
Kerosene and Light Gas Oils	40	32	1,333	–	59	1,464	16
Heavy Gas Oils	–	–	–	–	–	–	–
Residuum	–	–	–	–	–	–	–
Motor Gasoline Blend.Comp. (MGBC)	10	167	4,992	2	492	5,662	63
Reformulated	1	–	109	–	3	113	1
Conventional	9	167	4,883	2	489	5,550	62
Aviation Gasoline Blend. Comp.	–	–	–	–	–	–	–
Finished Petroleum Products	**7,168**	**1,879**	**226,853**	**56**	**26,879**	**262,835**	**2,920**
Finished Motor Gasoline	487	654	72,231	2	2,722	76,096	846
Reformulated	–	–	–	–	–	–	–
Conventional	487	654	72,231	2	2,722	76,096	846
Finished Aviation Gasoline	–	–	–	–	–	–	–
Kerosene-Type Jet Fuel	745	87	14,354	–	2,485	17,671	196
Kerosene	9	3	555	–	1	568	6
Distillate Fuel Oil	1,996	131	80,030	0	7,930	90,088	1,001
15 ppm sulfur and under	1,374	6	67,869	0	5,937	75,187	835
Greater than 15 ppm to 500 ppm sulfur	469	27	7,800	–	506	8,802	98
Greater than 500 ppm sulfur	152	98	4,361	–	1,487	6,098	68
Residual Fuel Oil	1,354	0	9,231	–	2,632	13,217	147
Naphtha for Petro. Feed. Use	–	–	–	–	–	–	–
Other Oils for Petro. Feed. Use	6	–	2,984	–	50	3,040	34
Special Naphthas	–	–	–	–	–	–	–
Lubricants	668	529	7,300	47	626	9,171	102
Waxes	197	117	62	1	14	390	4
Petroleum Coke	1,422	175	38,586	0	10,341	50,524	561
Asphalt and Road Oil	235	177	1,325	5	77	1,820	20
Miscellaneous Products	50	7	194	–	0	252	3
Total	**30,175**	**39,680**	**807,737**	**171**	**34,588**	**912,351**	**10,137**

– – = Not Applicable.
– = No Data Reported.
1 On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.
2 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
Note: Totals may not equal sum of components due to independent rounding.
Data source: U.S. Census Bureau and EIA estimates.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, March 2023
(Thousand Barrels)

Destination	Crude Oil[1]	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reform-ulated	Conven-tional	Total	Reform-ulated	Conven-tional	Total
Argentina	–	–	–	122	–	79	79	–	–	–
Australia	2,261	0	–	1	–	–	–	1	0	1
Bahamas	–	44	–	321	–	48	48	–	300	300
Bahrain	–	–	–	–	–	–	–	–	–	–
Belgium	–	2,270	–	666	–	–	–	–	–	–
Belize	–	26	–	–	–	46	46	–	–	–
Brazil	3,497	587	–	1,067	–	–	–	–	0	0
Canada	9,139	6,136	–	2,418	–	840	840	–	1,348	1,348
Cayman Islands	–	0	–	–	–	33	33	–	0	0
Chile	–	820	–	121	–	845	845	–	–	–
China	28,345	15,423	–	13	–	–	–	–	–	–
Colombia	1,274	66	–	1,290	–	300	300	–	–	–
Costa Rica	–	42	–	12	–	615	615	–	–	–
Denmark	3,473	–	–	–	–	–	–	0	–	0
Dominican Republic	448	1,838	–	80	–	519	519	–	–	–
Ecuador	–	1,078	–	299	–	600	600	–	–	–
Egypt	–	1,819	–	–	–	–	–	–	–	–
El Salvador	–	239	–	0	–	490	490	–	–	–
Finland	734	1,044	–	–	–	–	–	–	–	–
France	6,814	1,141	–	17	–	–	–	–	–	–
Germany	3,480	72	–	5	–	–	–	–	–	–
Ghana	–	0	–	–	–	–	–	–	–	–
Gibraltar	–	158	–	–	–	–	–	–	–	–
Greece	–	–	–	–	–	0	0	–	–	–
Guatemala	–	827	–	1	–	2,250	2,250	–	–	–
Honduras	–	1,156	–	–	–	682	682	–	–	–
Hong Kong	–	–	–	4	–	–	–	–	–	–
India	7,668	2,574	–	0	–	–	–	–	–	–
Indonesia	630	2,712	–	0	–	–	–	–	–	–
Ireland	619	–	–	–	–	–	–	–	–	–
Israel	–	0	–	0	–	0	0	–	–	–
Italy	4,268	–	–	8	–	–	–	–	–	–
Jamaica	–	110	–	–	–	233	233	–	–	–
Japan	–	17,692	–	329	–	0	0	0	–	0
Korea, South	10,675	5,453	–	3	–	0	0	–	0	0
Lebanon	–	–	–	–	–	–	–	–	–	–
Mexico	–	8,364	–	806	–	16,704	16,704	34	816	850
Montenegro	–	–	–	–	–	–	–	–	–	–
Morocco	–	2,039	–	–	–	–	–	–	–	–
Mozambique	–	–	–	–	–	–	–	–	–	–
Netherlands	21,630	3,006	–	1,167	–	323	323	–	–	–
New Zealand	–	–	–	–	–	–	–	–	–	–
Nicaragua	550	–	–	–	–	101	101	–	–	–
Nigeria	–	612	–	0	–	–	–	–	–	–
Norway	1,015	1,523	–	–	–	–	–	–	–	–
Pakistan	–	–	–	–	–	0	0	–	–	–
Panama	2,789	317	–	–	–	628	628	0	16	16
Peru	1,109	482	–	285	–	866	866	–	–	–
Philippines	–	–	–	0	–	–	–	–	–	–
Portugal	796	414	–	–	–	–	–	–	–	–
Puerto Rico	–	7	–	0	–	3	3	–	0	0
Romania	–	–	–	–	–	–	–	–	–	–
Saudi Arabia	–	–	–	0	–	–	–	–	–	–
Serbia (Excludes Kosovo)	–	–	–	–	–	–	–	–	–	–
Singapore	2,099	12	–	1	–	–	–	–	–	–
South Africa	–	824	–	–	–	–	–	–	–	–
Spain	6,897	–	–	25	–	–	–	–	–	–
Switzerland	–	–	–	–	–	–	–	–	–	–
Taiwan	7,569	–	–	1	–	1	1	0	–	0
Thailand	3,029	0	–	2	–	–	–	–	–	–
Trinidad and Tobago	–	0	–	0	–	0	0	–	–	–
Turkiye	829	249	–	–	–	–	–	–	–	–
United Arab Emirates	–	0	–	–	–	0	0	0	–	0
United Kingdom	11,688	1,817	–	50	–	1	1	–	–	–
Venezuela	–	0	–	–	–	0	0	0	–	0
Other	5,707	5,063	–	83	–	513	513	1	2	3
Total	**149,032**	**88,056**	**–**	**9,197**	**–**	**26,720**	**26,720**	**36**	**2,482**	**2,518**

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, March 2023
(Thousand Barrels) — Continued

Destination	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel[2]	Other Biofuels[2,3]	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
Argentina	0	–	NA	NA	324	307	600	–	1,231	–	–
Australia	0	–	NA	NA	–	–	–	–	–	–	–
Bahamas	–	–	NA	NA	299	–	469	–	768	5	–
Bahrain	–	–	NA	NA	–	–	–	–	–	–	–
Belgium	1	–	NA	NA	0	–	–	–	0	–	–
Belize	0	–	NA	NA	2	35	1	–	38	–	–
Brazil	0	–	NA	NA	1,355	–	–	–	1,355	–	–
Canada	1,349	224	NA	NA	4	221	28	–	252	4	–
Cayman Islands	0	–	NA	NA	102	–	–	–	102	–	–
Chile	–	–	NA	NA	5,003	–	–	–	5,003	0	–
China	0	–	NA	NA	–	–	–	–	–	–	–
Colombia	57	–	NA	NA	814	–	–	–	814	0	–
Costa Rica	0	–	NA	NA	744	–	–	–	744	0	–
Denmark	–	–	NA	NA	0	–	–	–	0	–	–
Dominican Republic	0	–	NA	NA	625	–	245	–	870	0	–
Ecuador	0	–	NA	NA	2,508	285	–	–	2,794	–	–
Egypt	–	–	NA	NA	–	–	–	–	–	–	–
El Salvador	0	–	NA	NA	82	326	–	–	408	0	–
Finland	–	–	NA	NA	–	–	–	–	–	–	–
France	0	–	NA	NA	1	–	–	–	1	–	–
Germany	0	2	NA	NA	–	–	–	–	–	0	–
Ghana	–	–	NA	NA	–	–	–	–	–	–	–
Gibraltar	–	–	NA	NA	327	–	–	–	327	–	–
Greece	0	–	NA	NA	–	–	–	–	–	–	–
Guatemala	–	–	NA	NA	183	1,284	–	–	1,467	0	–
Honduras	–	–	NA	NA	130	355	–	–	485	0	–
Hong Kong	0	–	NA	NA	–	–	–	–	–	–	–
India	542	–	NA	NA	0	–	–	–	0	–	–
Indonesia	–	–	NA	NA	–	–	–	–	–	–	–
Ireland	–	–	NA	NA	–	–	–	–	–	–	–
Israel	0	–	NA	NA	–	–	–	–	–	–	–
Italy	–	–	NA	NA	–	–	–	–	–	–	–
Jamaica	50	–	NA	NA	80	–	–	–	80	–	–
Japan	0	–	NA	NA	0	–	–	–	0	0	–
Korea, South	123	0	NA	NA	4	–	–	–	4	0	–
Lebanon	–	–	NA	NA	–	–	–	–	–	–	–
Mexico	139	0	NA	NA	11,489	1	2	–	11,492	2	–
Montenegro	–	–	NA	NA	–	–	–	–	–	–	–
Morocco	–	–	NA	NA	–	–	–	–	–	–	–
Mozambique	–	–	NA	NA	–	–	–	–	–	–	–
Netherlands	270	–	NA	NA	310	–	–	–	310	0	–
New Zealand	–	–	NA	NA	–	–	–	–	–	–	–
Nicaragua	–	–	NA	NA	443	–	–	–	443	40	–
Nigeria	–	–	NA	NA	0	–	–	–	0	–	–
Norway	33	1	NA	NA	–	–	–	–	–	–	–
Pakistan	–	–	NA	NA	–	–	–	–	–	–	–
Panama	0	0	NA	NA	1,508	139	49	–	1,695	–	–
Peru	188	31	NA	NA	1,156	–	–	–	1,156	0	–
Philippines	52	–	NA	NA	–	–	–	–	–	–	–
Portugal	–	–	NA	NA	–	–	–	–	–	–	–
Puerto Rico	5	–	NA	NA	175	1	–	–	177	–	–
Romania	–	–	NA	NA	–	–	–	–	–	–	–
Saudi Arabia	81	–	NA	NA	3	–	–	–	3	0	–
Serbia (Excludes Kosovo)	–	–	NA	NA	–	–	–	–	–	–	–
Singapore	24	1	NA	NA	30	–	547	–	577	0	–
South Africa	–	–	NA	NA	–	–	–	–	–	–	–
Spain	0	–	NA	NA	–	–	–	–	–	–	–
Switzerland	1	–	NA	NA	–	–	–	–	–	–	–
Taiwan	0	–	NA	NA	0	–	–	–	0	0	–
Thailand	–	–	NA	NA	–	–	–	–	–	–	–
Trinidad and Tobago	–	–	NA	NA	140	–	–	–	140	–	–
Turkiye	–	–	NA	NA	–	–	–	–	–	–	–
United Arab Emirates	0	–	NA	NA	0	–	–	–	0	0	–
United Kingdom	206	–	NA	NA	1,545	–	–	–	1,545	–	–
Venezuela	0	–	NA	NA	–	–	–	–	–	–	–
Other	37	2	NA	NA	535	417	150	–	1,102	2	–
Total	**3,158**	**261**	NA	NA	**29,921**	**3,371**	**2,091**	**–**	**35,383**	**53**	**–**

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, March 2023
(Thousand Barrels) — Continued

Destination	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks		Waxes	Petroleum Coke
					Naphtha	Other Oils		
Argentina	–	–	–	0	–	–	0	119
Australia	–	–	–	–	–	–	1	154
Bahamas	–	45	–	18	–	–	–	–
Bahrain	–	–	–	–	–	–	–	–
Belgium	–	–	–	–	–	–	0	73
Belize	–	10	–	–	–	–	–	–
Brazil	–	–	–	–	–	–	1	1,916
Canada	–	1,012	–	677	–	4	100	434
Cayman Islands	–	10	–	0	–	–	–	–
Chile	–	1,144	–	285	–	–	0	–
China	–	–	–	4	–	–	3	2,025
Colombia	–	–	–	–	–	–	0	1
Costa Rica	–	249	–	–	–	–	0	–
Denmark	–	–	–	387	–	–	0	–
Dominican Republic	–	450	–	1	–	–	1	180
Ecuador	–	–	–	–	–	–	0	0
Egypt	–	–	–	–	–	176	–	–
El Salvador	–	66	–	–	–	–	–	–
Finland	–	–	–	–	–	–	–	–
France	–	–	–	–	–	–	0	182
Germany	–	–	–	–	–	–	2	0
Ghana	–	–	–	–	–	–	–	–
Gibraltar	–	–	–	–	–	–	–	–
Greece	–	–	–	–	–	–	–	571
Guatemala	–	70	–	–	–	–	0	269
Honduras	–	36	–	–	–	–	–	193
Hong Kong	–	–	–	–	–	–	–	–
India	–	0	–	–	–	1,407	1	2,004
Indonesia	–	–	–	–	–	–	0	–
Ireland	–	–	–	–	–	–	–	0
Israel	–	–	–	–	–	–	0	–
Italy	–	–	–	–	–	67	0	232
Jamaica	–	160	–	–	–	–	0	0
Japan	–	–	–	0	–	–	1	1,579
Korea, South	–	–	–	274	–	–	0	0
Lebanon	–	–	–	–	–	–	–	–
Mexico	–	1,834	–	208	–	80	19	1,648
Montenegro	–	–	–	–	–	–	–	–
Morocco	–	–	–	–	–	–	–	507
Mozambique	–	–	–	–	–	–	–	96
Netherlands	–	–	–	1,441	–	–	1	363
New Zealand	–	–	–	–	–	–	0	0
Nicaragua	–	0	–	–	–	–	–	–
Nigeria	–	–	–	–	–	–	–	–
Norway	–	–	–	–	–	–	–	67
Pakistan	–	–	–	–	–	–	–	–
Panama	–	606	–	1,197	–	–	–	–
Peru	–	140	–	–	–	–	–	–
Philippines	–	–	–	–	–	–	0	–
Portugal	–	–	–	450	–	–	–	383
Puerto Rico	–	131	–	–	–	–	0	–
Romania	–	–	–	–	–	–	–	–
Saudi Arabia	–	–	–	–	–	–	0	–
Serbia (Excludes Kosovo)	–	–	–	–	–	–	–	–
Singapore	–	–	–	–	–	–	–	–
South Africa	–	–	–	–	–	136	–	96
Spain	–	–	–	–	–	–	0	497
Switzerland	–	–	–	–	–	–	0	–
Taiwan	–	–	–	–	–	–	0	–
Thailand	–	–	–	–	–	307	0	–
Trinidad and Tobago	–	–	–	65	–	–	–	–
Turkiye	–	–	–	–	–	–	–	786
United Arab Emirates	–	–	–	494	–	–	0	1
United Kingdom	–	0	–	–	–	–	0	–
Venezuela	–	–	–	–	–	–	0	–
Other	–	567	–	538	–	1	4	1,056
Total	**–**	**6,530**	**–**	**6,039**	**–**	**2,178**	**134**	**15,432**

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, March 2023
(Thousand Barrels) — Continued

Destination	Asphalt and Road Oil	Lubricants	Miscellanous Products	Total Products	Total Crude Oil and Products	Daily Average		
						Crude Oil	Products	Total
Argentina	1	42	0	1,595	1,595	–	51	51
Australia	0	6	1	164	2,426	73	5	78
Bahamas	4	4	0	1,558	1,558	–	50	50
Bahrain	–	0	–	0	0	–	0	0
Belgium	0	412	1	3,424	3,424	–	110	110
Belize	–	0	–	120	120	–	4	4
Brazil	0	324	1	5,251	8,748	113	169	282
Canada	137	272	8	15,214	24,352	295	491	786
Cayman Islands	1	1	–	148	148	–	5	5
Chile	0	125	–	8,343	8,343	–	269	269
China	3	9	0	17,482	45,826	914	564	1,478
Colombia	0	79	0	2,608	3,882	41	84	125
Costa Rica	33	15	–	1,711	1,711	–	55	55
Denmark	–	–	–	388	3,861	112	13	125
Dominican Republic	42	27	0	4,008	4,457	14	129	144
Ecuador	–	47	8	4,826	4,826	–	156	156
Egypt	–	0	–	1,996	1,996	–	64	64
El Salvador	–	7	–	1,212	1,212	–	39	39
Finland	–	0	–	1,045	1,779	24	34	57
France	–	80	–	1,420	8,234	220	46	266
Germany	1	3	0	85	3,566	112	3	115
Ghana	–	0	–	0	0	–	0	0
Gibraltar	–	–	–	485	485	–	16	16
Greece	–	0	–	571	571	–	18	18
Guatemala	–	22	–	4,905	4,905	–	158	158
Honduras	–	11	0	2,562	2,562	–	83	83
Hong Kong	–	1	0	5	5	–	0	0
India	1	41	1	6,571	14,238	247	212	459
Indonesia	1	2	–	2,716	3,346	20	88	108
Ireland	–	0	–	0	619	20	0	20
Israel	–	352	1	353	353	–	11	11
Italy	–	0	0	307	4,574	138	10	148
Jamaica	–	5	–	638	638	–	21	21
Japan	3	5	3	19,614	19,614	–	633	633
Korea, South	1	15	0	5,874	16,549	344	189	534
Lebanon	–	0	–	0	0	–	0	0
Mexico	202	1,408	33	43,791	43,791	–	1,413	1,413
Montenegro	–	–	–	–	–	–	–	–
Morocco	–	0	–	2,546	2,546	–	82	82
Mozambique	–	0	–	96	96	–	3	3
Netherlands	0	155	0	7,036	28,667	698	227	925
New Zealand	59	1	–	60	60	–	2	2
Nicaragua	–	5	–	589	1,139	18	19	37
Nigeria	0	102	–	714	714	–	23	23
Norway	–	0	–	1,624	2,639	33	52	85
Pakistan	–	0	–	0	0	–	0	0
Panama	–	27	–	4,486	7,275	90	145	235
Peru	0	110	39	3,297	4,406	36	106	142
Philippines	–	1	0	53	53	–	2	2
Portugal	–	0	–	1,246	2,043	26	40	66
Puerto Rico	1	20	0	345	345	–	11	11
Romania	–	0	–	0	0	–	0	0
Saudi Arabia	–	13	0	96	96	–	3	3
Serbia (Excludes Kosovo)	–	–	–	–	–	–	–	–
Singapore	–	3	–	618	2,717	68	20	88
South Africa	0	51	–	1,108	1,108	–	36	36
Spain	–	2	–	524	7,421	222	17	239
Switzerland	–	0	–	1	1	–	0	0
Taiwan	0	4	0	7	7,576	244	0	244
Thailand	1	4	0	314	3,343	98	10	108
Trinidad and Tobago	–	4	0	209	209	–	7	7
Turkiye	–	49	–	1,085	1,914	27	35	62
United Arab Emirates	2	54	0	552	552	–	18	18
United Kingdom	–	4	–	3,623	15,310	377	117	494
Venezuela	–	14	–	15	15	–	0	0
Other	8	157	3	9,120	14,827	183	295	478
Total	**501**	**4,095**	**99**	**200,354**	**349,386**	**4,807**	**6,463**	**11,271**

– – = Not Applicable.
– = No Data Reported.
1 On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.
2 EIA is unable to report exports of renewable diesel fuel and other biofuels because of limitations of product classification information available in export data from the U.S. Census Bureau.
3 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
Note: Totals may not equal sum of components due to independent rounding.
Data source: U.S. Census Bureau and EIA estimates.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-March 2023
(Thousand Barrels)

Destination	Crude Oil[1]	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reform-ulated	Conven-tional	Total	Reform-ulated	Conven-tional	Total
Argentina	–	0	–	260	–	390	390	–	–	–
Australia	3,858	554	–	8	–	0	0	1	0	1
Bahamas	–	140	–	468	–	1,299	1,299	–	1,055	1,055
Bahrain	–	–	–	0	–	–	–	–	–	–
Belgium	–	6,292	–	1,013	–	–	–	–	–	–
Belize	–	89	–	–	–	93	93	–	–	–
Brazil	5,101	916	–	3,024	–	428	428	–	0	0
Canada	29,140	19,795	–	7,267	–	2,389	2,389	–	2,557	2,557
Cayman Islands	–	7	–	–	–	51	51	0	0	0
Chile	1,419	3,267	–	223	–	2,361	2,361	–	–	–
China	49,268	37,744	–	21	–	–	–	–	0	0
Colombia	3,749	190	–	2,825	–	1,800	1,800	–	–	–
Costa Rica	–	257	–	37	–	3,033	3,033	0	–	0
Denmark	7,371	–	–	56	–	–	–	0	–	0
Dominican Republic	1,450	3,681	–	266	–	1,696	1,696	0	0	0
Ecuador	–	3,182	–	611	–	1,540	1,540	–	–	–
Egypt	–	4,750	–	–	–	–	–	–	–	–
El Salvador	–	782	–	0	–	1,101	1,101	–	1	1
Finland	2,176	1,179	–	–	–	–	–	–	–	–
France	17,958	2,201	–	58	–	0	0	–	–	–
Germany	10,675	183	–	12	–	–	–	–	–	–
Ghana	–	242	–	0	–	–	–	–	–	–
Gibraltar	–	1,214	–	–	–	–	–	–	–	–
Greece	–	–	–	–	–	0	0	–	–	–
Guatemala	–	1,240	–	4	–	5,598	5,598	–	–	–
Honduras	–	2,120	–	10	–	2,046	2,046	–	1	1
Hong Kong	–	–	–	4	–	1	1	–	–	–
India	12,684	9,841	–	15	–	–	–	–	–	–
Indonesia	2,329	9,380	–	1	–	–	–	–	–	–
Ireland	4,606	–	–	–	–	0	0	1	–	1
Israel	746	1	–	3	–	0	0	–	–	–
Italy	12,155	1,335	–	8	–	–	–	–	–	–
Jamaica	–	315	–	–	–	497	497	0	–	0
Japan	1,025	50,783	–	658	–	0	0	2	–	2
Korea, South	32,658	15,382	–	4	–	1	1	0	2	2
Lebanon	–	–	–	–	–	0	0	–	–	–
Mexico	–	20,129	–	2,386	–	44,973	44,973	108	1,602	1,710
Montenegro	–	–	–	–	–	–	–	–	–	–
Morocco	–	5,682	–	–	–	–	–	–	–	–
Mozambique	–	–	–	–	–	–	–	–	–	–
Netherlands	47,534	7,125	–	1,606	–	324	324	–	–	–
New Zealand	–	0	–	0	–	0	0	–	–	–
Nicaragua	1,096	155	–	0	–	215	215	–	–	–
Nigeria	–	1,540	–	0	–	–	–	–	–	–
Norway	4,280	4,853	–	423	–	–	–	–	–	–
Pakistan	–	–	–	–	–	0	0	–	–	–
Panama	4,772	857	–	300	–	2,326	2,326	0	16	16
Peru	1,915	1,141	–	291	–	2,512	2,512	–	0	0
Philippines	–	–	–	2	–	–	–	–	–	–
Portugal	1,760	679	–	–	–	–	–	–	–	–
Puerto Rico	–	15	–	2	–	6	6	–	0	0
Romania	–	–	–	1	–	–	–	–	–	–
Saudi Arabia	–	–	–	2	–	–	–	–	–	–
Serbia (Excludes Kosovo)	–	–	–	–	–	–	–	–	–	–
Singapore	24,323	1,271	–	8	–	134	134	0	–	0
South Africa	–	1,463	–	3	–	–	–	–	315	315
Spain	13,949	1,748	–	37	–	–	–	–	–	–
Switzerland	–	–	–	0	–	–	–	–	–	–
Taiwan	19,476	–	–	3	–	1	1	0	–	0
Thailand	6,399	0	–	4	–	–	–	–	–	–
Trinidad and Tobago	–	2	–	0	–	0	0	–	–	–
Turkiye	829	2,035	–	0	–	–	–	0	–	0
United Arab Emirates	–	1	–	0	–	3	3	0	–	0
United Kingdom	29,131	3,350	–	275	–	2	2	–	–	–
Venezuela	–	1	–	898	–	0	0	0	–	0
Other	16,066	12,542	–	271	–	1,276	1,276	1	1	1
Total	**369,898**	**241,651**	**–**	**23,368**	**–**	**76,096**	**76,096**	**113**	**5,550**	**5,662**

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-March 2023
(Thousand Barrels) — Continued

Destination	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel[2]	Other Biofuels[2,3]	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
Argentina	0	–	NA	NA	1,622	307	1,568	–	3,498	0	–
Australia	0	–	NA	NA	0	–	–	–	0	–	–
Bahamas	0	–	NA	NA	618	–	899	–	1,518	5	–
Bahrain	1	–	NA	NA	–	–	–	–	–	–	–
Belgium	1	–	NA	NA	325	–	–	–	325	171	–
Belize	0	–	NA	NA	56	113	1	–	169	–	–
Brazil	1	–	NA	NA	4,732	275	–	–	5,007	295	–
Canada	3,488	417	NA	NA	6	656	109	–	771	9	–
Cayman Islands	0	–	NA	NA	195	–	–	–	195	–	–
Chile	0	–	NA	NA	10,221	–	–	–	10,221	0	–
China	3	–	NA	NA	3	–	–	–	3	–	–
Colombia	208	–	NA	NA	1,348	–	–	–	1,348	0	–
Costa Rica	0	–	NA	NA	2,128	–	–	–	2,128	0	–
Denmark	–	–	NA	NA	0	–	–	–	0	–	–
Dominican Republic	1	–	NA	NA	1,693	–	435	–	2,128	0	–
Ecuador	0	–	NA	NA	6,092	855	280	–	7,227	–	–
Egypt	–	–	NA	NA	0	–	–	–	0	–	–
El Salvador	0	–	NA	NA	199	917	–	–	1,116	0	–
Finland	16	–	NA	NA	–	–	–	–	–	–	–
France	0	–	NA	NA	1	–	–	–	1	0	–
Germany	0	6	NA	NA	–	–	–	–	–	0	–
Ghana	–	–	NA	NA	–	–	–	–	–	–	–
Gibraltar	–	–	NA	NA	327	–	–	–	327	–	–
Greece	33	–	NA	NA	–	–	–	–	–	–	–
Guatemala	0	–	NA	NA	1,532	2,300	103	–	3,935	0	–
Honduras	0	–	NA	NA	508	755	131	–	1,393	0	–
Hong Kong	0	–	NA	NA	–	–	–	–	–	–	–
India	744	–	NA	NA	130	–	0	–	130	–	–
Indonesia	0	0	NA	NA	–	–	–	–	–	–	–
Ireland	–	–	NA	NA	–	–	–	–	–	–	–
Israel	2	–	NA	NA	–	–	–	–	–	–	–
Italy	0	–	NA	NA	–	–	–	–	–	–	–
Jamaica	213	–	NA	NA	389	–	50	–	439	–	–
Japan	1	–	NA	NA	0	–	–	–	0	0	–
Korea, South	713	0	NA	NA	5	–	–	–	5	0	–
Lebanon	–	–	NA	NA	–	–	–	–	–	–	–
Mexico	381	1	NA	NA	27,706	422	8	–	28,136	3	–
Montenegro	–	–	NA	NA	–	–	–	–	–	–	–
Morocco	–	–	NA	NA	–	–	–	–	–	–	–
Mozambique	–	–	NA	NA	–	–	–	–	–	–	–
Netherlands	528	–	NA	NA	1,477	331	–	–	1,809	0	–
New Zealand	–	–	NA	NA	–	–	–	–	–	–	–
Nicaragua	–	–	NA	NA	766	173	–	–	939	80	–
Nigeria	135	–	NA	NA	0	–	–	–	0	–	–
Norway	66	2	NA	NA	148	–	–	–	148	–	–
Pakistan	–	–	NA	NA	–	–	–	–	–	–	–
Panama	0	0	NA	NA	3,846	643	100	–	4,589	1	–
Peru	345	55	NA	NA	4,496	–	–	–	4,496	0	–
Philippines	189	–	NA	NA	–	–	–	–	–	0	–
Portugal	–	–	NA	NA	–	–	–	–	–	–	–
Puerto Rico	13	–	NA	NA	469	1	–	–	470	–	–
Romania	0	–	NA	NA	–	–	–	–	–	–	–
Saudi Arabia	160	–	NA	NA	3	–	–	–	3	0	–
Serbia (Excludes Kosovo)	–	–	NA	NA	–	–	–	–	–	–	–
Singapore	49	3	NA	NA	298	123	1,474	–	1,894	0	–
South Africa	–	–	NA	NA	–	–	–	–	–	–	–
Spain	59	–	NA	NA	–	–	–	–	–	–	–
Switzerland	5	–	NA	NA	–	–	–	–	–	–	–
Taiwan	1	–	NA	NA	0	–	–	–	0	0	–
Thailand	0	–	NA	NA	–	–	–	–	–	–	–
Trinidad and Tobago	–	–	NA	NA	383	–	–	–	383	–	–
Turkiye	–	–	NA	NA	–	–	–	–	–	–	–
United Arab Emirates	121	–	NA	NA	0	–	–	–	0	2	–
United Kingdom	864	0	NA	NA	1,645	–	–	–	1,645	–	–
Venezuela	0	–	NA	NA	2	–	–	–	2	–	–
Other	112	–	NA	NA	1,818	931	940	–	3,690	2	–
Total	**8,453**	**484**	NA	NA	**75,187**	**8,802**	**6,098**	**–**	**90,088**	**568**	**–**

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-March 2023
(Thousand Barrels) — Continued

Destination	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks		Waxes	Petroleum Coke
					Naphtha	Other Oils		
Argentina	–	–	–	0	–	71	1	119
Australia	–	–	–	–	–	–	3	365
Bahamas	–	219	–	919	–	–	–	–
Bahrain	–	–	–	–	–	–	–	116
Belgium	–	–	–	–	–	–	0	430
Belize	–	25	–	–	–	–	–	–
Brazil	–	309	–	268	–	–	6	5,031
Canada	–	2,969	–	1,293	–	6	291	1,800
Cayman Islands	–	82	–	0	–	–	–	–
Chile	–	1,845	–	1,175	–	–	0	0
China	–	–	–	9	–	–	11	9,462
Colombia	–	–	–	–	–	–	0	1
Costa Rica	–	622	–	114	–	–	0	182
Denmark	–	–	–	387	–	–	0	–
Dominican Republic	–	765	–	311	–	–	1	392
Ecuador	–	–	–	–	–	–	0	365
Egypt	–	–	–	0	–	354	–	275
El Salvador	–	132	–	–	–	–	0	275
Finland	–	–	–	–	–	–	–	–
France	–	–	–	270	–	–	1	361
Germany	–	–	–	–	–	–	6	0
Ghana	–	–	–	–	–	–	–	46
Gibraltar	–	–	–	–	–	–	–	–
Greece	–	–	–	–	–	–	–	987
Guatemala	–	442	–	–	–	–	0	1,005
Honduras	–	140	–	–	–	–	0	483
Hong Kong	–	–	–	–	–	–	0	598
India	–	0	–	0	–	1,710	2	7,697
Indonesia	–	–	–	–	–	–	0	–
Ireland	–	–	–	–	–	–	–	0
Israel	–	334	–	–	–	–	0	325
Italy	–	–	–	–	–	182	0	1,459
Jamaica	–	540	–	101	–	–	0	0
Japan	–	–	–	1	–	–	2	3,670
Korea, South	–	–	–	559	–	–	1	292
Lebanon	–	–	–	–	–	–	–	–
Mexico	–	5,313	–	886	–	138	54	4,342
Montenegro	–	–	–	–	–	–	–	–
Morocco	–	–	–	–	–	–	–	1,642
Mozambique	–	–	–	–	–	–	–	245
Netherlands	–	–	–	2,028	–	–	2	575
New Zealand	–	–	–	–	–	–	0	99
Nicaragua	–	0	–	–	–	–	–	–
Nigeria	–	–	–	–	–	–	0	–
Norway	–	–	–	–	–	–	0	269
Pakistan	–	–	–	–	–	–	–	–
Panama	–	1,562	–	2,135	–	–	0	–
Peru	–	542	–	0	–	–	0	0
Philippines	–	–	–	–	–	–	0	269
Portugal	–	–	–	450	–	–	0	383
Puerto Rico	–	267	–	–	–	–	0	–
Romania	–	–	–	–	–	–	–	138
Saudi Arabia	–	–	–	–	–	–	0	1
Serbia (Excludes Kosovo)	–	–	–	–	–	–	–	–
Singapore	–	10	–	–	–	50	0	–
South Africa	–	–	–	0	–	136	–	239
Spain	–	–	–	–	–	–	1	1,069
Switzerland	–	–	–	–	–	–	0	–
Taiwan	–	–	–	–	–	–	0	–
Thailand	–	–	–	0	–	394	0	0
Trinidad and Tobago	–	–	–	65	–	–	–	0
Turkiye	–	–	–	1	–	–	0	2,369
United Arab Emirates	–	–	–	494	–	–	0	305
United Kingdom	–	0	–	0	–	–	0	200
Venezuela	–	0	–	–	–	–	0	–
Other	–	1,553	–	1,751	–	0	8	2,643
Total	**–**	**17,671**	**–**	**13,217**	**–**	**3,040**	**390**	**50,524**

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-March 2023
(Thousand Barrels) — Continued

Destination	Asphalt and Road Oil	Lubricants	Miscellanous Products	Total Products	Total Crude Oil and Products	Daily Average		
						Crude Oil	Products	Total
Argentina	73	118	24	4,553	4,553	–	51	51
Australia	0	16	1	949	4,807	43	11	53
Bahamas	8	9	2	5,642	5,642	–	63	63
Bahrain	0	1	–	117	117	–	1	1
Belgium	1	1,012	3	9,248	9,248	–	103	103
Belize	–	1	–	377	377	–	4	4
Brazil	0	949	1	16,235	21,336	57	180	237
Canada	401	761	25	44,239	73,379	324	492	815
Cayman Islands	3	3	–	342	342	–	4	4
Chile	82	205	0	19,379	20,799	16	215	231
China	8	25	2	47,288	96,556	547	525	1,073
Colombia	1	253	1	6,626	10,375	42	74	115
Costa Rica	110	46	–	6,529	6,529	–	73	73
Denmark	–	0	–	444	7,815	82	5	87
Dominican Republic	132	64	0	9,438	10,888	16	105	121
Ecuador	0	122	17	13,064	13,064	–	145	145
Egypt	–	0	–	5,379	5,379	–	60	60
El Salvador	–	66	–	3,473	3,473	–	39	39
Finland	–	1	–	1,195	3,372	24	13	37
France	–	149	–	3,040	20,998	200	34	233
Germany	9	7	0	223	10,898	119	2	121
Ghana	–	0	–	289	289	–	3	3
Gibraltar	–	–	–	1,541	1,541	–	17	17
Greece	–	1	–	1,021	1,021	–	11	11
Guatemala	–	45	23	12,293	12,293	–	137	137
Honduras	34	26	0	6,254	6,254	–	69	69
Hong Kong	–	1	0	605	605	–	7	7
India	1	129	1	20,271	32,955	141	225	366
Indonesia	2	4	0	9,386	11,715	26	104	130
Ireland	–	0	–	1	4,606	51	0	51
Israel	–	390	1	1,055	1,801	8	12	20
Italy	–	1	0	2,985	15,140	135	33	168
Jamaica	–	12	0	2,117	2,117	–	24	24
Japan	5	24	10	55,157	56,183	11	613	624
Korea, South	1	42	1	17,004	49,662	363	189	552
Lebanon	–	2	–	2	2	–	0	0
Mexico	432	3,202	93	112,178	112,178	–	1,246	1,246
Montenegro	–	–	–	–	–	–	–	–
Morocco	–	0	–	7,324	7,324	–	81	81
Mozambique	–	0	–	245	245	–	3	3
Netherlands	2	243	0	14,242	61,776	528	158	686
New Zealand	232	2	–	334	334	–	4	4
Nicaragua	–	10	–	1,400	2,496	12	16	28
Nigeria	182	167	–	2,024	2,024	–	22	22
Norway	–	1	–	5,763	10,043	48	64	112
Pakistan	–	0	–	0	0	–	0	0
Panama	43	55	–	11,884	16,656	53	132	185
Peru	0	187	39	9,607	11,522	21	107	128
Philippines	–	2	1	462	462	–	5	5
Portugal	–	0	–	1,512	3,271	20	17	36
Puerto Rico	2	43	0	818	818	–	9	9
Romania	–	0	–	139	139	–	2	2
Saudi Arabia	–	30	0	196	196	–	2	2
Serbia (Excludes Kosovo)	–	–	–	–	–	–	–	–
Singapore	0	18	0	3,438	27,761	270	38	308
South Africa	0	161	–	2,318	2,318	–	26	26
Spain	–	7	–	2,920	16,869	155	32	187
Switzerland	1	0	–	6	6	–	0	0
Taiwan	0	8	1	15	19,491	216	0	217
Thailand	2	14	0	415	6,814	71	5	76
Trinidad and Tobago	0	8	0	459	459	–	5	5
Turkiye	1	96	–	4,501	5,330	9	50	59
United Arab Emirates	4	166	0	1,097	1,097	–	12	12
United Kingdom	–	8	0	6,345	35,476	324	70	394
Venezuela	–	29	–	931	931	–	10	10
Other	48	229	6	24,119	40,184	178	268	449
Total	**1,820**	**9,171**	**252**	**542,453**	**912,351**	**4,110**	**6,027**	**10,137**

– – = Not Applicable.
– = No Data Reported.
1 On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.
2 EIA is unable to report exports of renewable diesel fuel and other biofuels because of limitations of product classification information available in export data from the U.S. Census Bureau.
3 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
Note: Totals may not equal sum of components due to independent rounding.
Data source: U.S. Census Bureau and EIA estimates.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, March 2023
(Thousand Barrels per Day)

Country of Origin	Crude Oil[1]	Natural Gas Liquids	Refinery Olefins[2]	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reform-ulated	Conven-tional	Total	Reform-ulated	Conven-tional	Total
OPEC	**1,121**	**-10**	**–**	**182**	**–**	**0**	**0**	**4**	**37**	**41**
Algeria	–	–	–	10	–	–	–	–	–	–
Angola	25	–	–	–	–	–	–	–	10	10
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–	–
Equatorial Guinea	28	10	–	–	–	–	–	–	–	–
Gabon	–	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–	–
Iraq	223	–	–	144	–	–	–	–	–	–
Kuwait	12	–	–	–	–	–	–	–	2	2
Libya	56	–	–	–	–	–	–	–	–	–
Nigeria	195	-20	–	0	–	–	–	–	–	–
Saudi Arabia	427	–	–	28	–	–	–	–	24	24
United Arab Emirates	46	0	–	–	–	0	0	4	–	4
Venezuela	109	0	–	–	–	0	0	0	–	0
Non-OPEC	**367**	**-2,647**	**19**	**48**	**–**	**-768**	**-768**	**138**	**239**	**377**
Argentina	45	–	–	-2	–	-3	-3	–	10	10
Aruba	–	0	–	0	–	-2	-2	–	–	–
Australia	-73	0	–	0	–	–	–	0	0	0
Bahamas	–	-1	–	-10	–	9	9	–	1	1
Bahrain	–	–	–	–	–	–	–	–	–	–
Belgium	–	-73	–	23	–	–	–	5	6	11
Brazil	32	-19	–	3	–	–	–	–	5	5
Brunei	–	–	–	–	–	–	–	–	–	–
Cameroon	–	–	–	–	–	–	–	–	–	–
Canada	3,528	-24	19	-76	–	-15	-15	81	17	98
Chad	–	–	–	–	–	–	–	–	–	–
China	-914	-498	–	0	–	10	10	–	–	–
Colombia	155	-2	–	-28	–	-10	-10	–	–	–
Denmark	-112	–	–	–	–	–	–	0	–	0
Dominican Republic	-14	-59	–	-3	–	-17	-17	–	–	–
Ecuador	100	-35	–	2	–	-19	-19	–	–	–
Estonia	–	–	–	–	–	-3	-3	–	–	–
Finland	-24	-34	–	–	–	–	–	–	–	–
France	-220	-37	–	4	–	10	10	–	16	16
Germany	-112	-2	–	0	–	–	–	–	1	1
Guatemala	–	-27	–	0	–	-73	-73	–	–	–
Honduras	–	-37	–	–	–	-22	-22	–	–	–
India	-247	-83	–	4	–	–	–	7	63	70
Indonesia	-20	-87	–	0	–	–	–	–	–	–
Italy	-138	–	–	0	–	0	0	–	10	10
Japan	–	-571	–	-11	–	2	2	0	7	7
Korea, South	-344	-176	–	0	–	18	18	–	26	26
Latvia	–	–	–	–	–	–	–	–	–	–
Lithuania	-48	–	–	–	–	–	–	–	–	–
Malaysia	-20	–	–	48	–	0	0	–	9	9
Mexico	721	-270	–	116	–	-539	-539	-1	-26	-27
Netherlands	-698	-97	–	-38	–	10	10	21	14	35
Norway	-33	-49	–	–	–	–	–	–	–	–
Oman	–	–	–	–	–	–	–	–	6	6
Panama	-90	-10	–	–	–	-20	-20	0	-1	-1
Portugal	-26	-13	–	–	–	–	–	–	–	–
Puerto Rico	–	0	–	0	–	0	0	–	0	0
Qatar	17	0	–	0	–	–	–	–	–	–
Russia	–	–	–	–	–	–	–	–	–	–
Spain	-222	–	–	3	–	11	11	–	26	26
Sweden	-44	-88	–	-3	–	–	–	–	10	10
Trinidad and Tobago	17	0	–	0	–	0	0	–	–	–
United Kingdom	-367	-59	–	-2	–	0	0	25	10	35
Vietnam	–	–	–	0	–	–	–	–	–	–
Virgin Islands, U.S.	-45	-5	–	–	–	-10	-10	–	–	–
Yemen	–	–	–	–	–	–	–	–	–	–
Other	-437	-291	0	18	–	-105	-105	0	29	29
Total	**1,488**	**-2,657**	**19**	**230**	**–**	**-768**	**-768**	**142**	**276**	**418**
Persian Gulf[5]	**724**	**0**	**–**	**171**	**–**	**0**	**0**	**4**	**26**	**31**

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, March 2023
(Thousand Barrels per Day) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel[2]	Other Biofuels[2,3]	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	**-3**	**–**	**–**	**–**	**10**	**–**	**–**	**–**	**10**	**0**	**–**
Algeria	–	–	–	–	–	–	–	–	–	–	–
Angola	–	–	–	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–	–	–
Equatorial Guinea	–	–	–	–	–	–	–	–	–	–	–
Gabon	–	–	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–	–	–
Iraq	–	–	–	–	–	–	–	–	–	–	–
Kuwait	–	–	–	–	–	–	–	–	–	–	–
Libya	–	–	–	–	–	–	–	–	–	–	–
Nigeria	–	–	–	–	10	–	–	–	10	–	–
Saudi Arabia	-3	–	–	–	0	–	–	–	0	0	–
United Arab Emirates	0	–	–	–	0	–	–	–	0	0	–
Venezuela	0	–	–	–	–	–	–	–	–	–	–
Non-OPEC	**-99**	**21**	**25**	**–**	**-821**	**-108**	**-66**	**–**	**-996**	**-2**	**0**
Argentina	0	–	–	–	-10	-10	-19	–	-40	–	–
Aruba	–	–	–	–	0	–	–	–	0	–	–
Australia	0	–	–	–	–	–	–	–	–	–	–
Bahamas	–	–	–	–	-10	–	-15	–	-25	0	–
Bahrain	–	–	–	–	–	–	–	–	–	–	–
Belgium	0	–	–	–	0	–	–	–	0	–	–
Brazil	0	3	–	–	-44	–	–	–	-44	–	–
Brunei	–	–	–	–	–	–	–	–	–	–	–
Cameroon	–	–	–	–	–	–	–	–	–	–	–
Canada	-44	3	–	–	135	-7	0	–	128	0	0
Chad	–	–	–	–	–	–	–	–	–	–	–
China	0	–	–	–	–	–	–	–	–	–	–
Colombia	-2	–	–	–	-19	–	–	–	-19	0	–
Denmark	–	–	–	–	0	–	–	–	0	–	–
Dominican Republic	0	–	–	–	-20	–	-8	–	-28	0	–
Ecuador	0	–	–	–	-81	-9	–	–	-90	–	–
Estonia	–	–	–	–	–	–	–	–	–	–	–
Finland	–	–	2	–	–	–	–	–	–	–	–
France	0	–	–	–	0	–	–	–	0	–	–
Germany	0	8	–	–	–	–	–	–	–	0	–
Guatemala	–	–	–	–	-6	-41	–	–	-47	0	–
Honduras	–	–	–	–	-4	-11	–	–	-16	0	–
India	-17	–	–	–	0	–	–	–	0	–	–
Indonesia	–	–	–	–	–	–	–	–	–	–	–
Italy	–	2	–	–	–	–	–	–	–	–	–
Japan	0	–	–	–	0	–	–	–	0	0	–
Korea, South	-4	1	–	–	1	–	–	–	1	0	–
Latvia	–	–	–	–	–	–	–	–	–	–	–
Lithuania	–	–	–	–	–	–	–	–	–	–	–
Malaysia	–	–	–	–	–	–	–	–	–	–	–
Mexico	-4	0	–	–	-371	0	0	–	-371	0	–
Netherlands	-9	1	0	–	-10	–	–	–	-10	0	–
Norway	-1	0	–	–	–	–	–	–	–	–	–
Oman	–	–	–	–	–	–	–	–	–	–	–
Panama	0	0	–	–	-49	-4	-2	–	-55	–	–
Portugal	–	–	–	–	–	–	–	–	–	–	–
Puerto Rico	0	–	–	–	-6	0	–	–	-6	–	–
Qatar	–	–	–	–	–	–	–	–	–	–	–
Russia	–	–	–	–	–	–	–	–	–	–	–
Spain	0	5	–	–	–	–	–	–	–	–	–
Sweden	-1	–	–	–	-8	–	–	–	-8	–	–
Trinidad and Tobago	–	–	–	–	-5	–	–	–	-5	–	–
United Kingdom	-7	–	–	–	-50	–	–	–	-50	–	–
Vietnam	–	–	–	–	–	–	–	–	–	–	–
Virgin Islands, U.S.	–	–	–	–	-3	–	-1	–	-5	–	–
Yemen	–	–	–	–	–	–	–	–	–	–	–
Other	-10	-2	23	–	-261	-26	-21	–	-306	-2	0
Total	**-102**	**21**	**25**	**–**	**-811**	**-108**	**-66**	**–**	**-986**	**-2**	**0**
Persian Gulf[5]	**-3**	**–**	**–**	**–**	**0**	**–**	**–**	**–**	**0**	**0**	**–**

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, March 2023
(Thousand Barrels per Day) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks[2]		Waxes	Petroleum Coke
					Naphtha	Other Oils		
OPEC	**–**	**16**	**–**	**6**	**–**	**–**	**0**	**0**
Algeria	–	–	–	21	–	–	–	–
Angola	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	–	–	–	–
Equatorial Guinea	–	–	–	–	–	–	–	–
Gabon	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–
Iraq	–	–	–	1	–	–	–	–
Kuwait	–	11	–	–	–	–	–	–
Libya	–	–	–	–	–	–	–	–
Nigeria	–	–	–	0	–	–	–	–
Saudi Arabia	–	5	–	–	–	–	0	–
United Arab Emirates	–	–	–	-16	–	–	0	0
Venezuela	–	–	–	–	–	–	0	–
Non-OPEC	**–**	**-82**	**17**	**-91**	**10**	**-64**	**0**	**-489**
Argentina	–	–	–	0	–	–	0	3
Aruba	–	-2	–	0	–	–	–	–
Australia	–	–	–	–	–	–	0	-5
Bahamas	–	-1	–	-1	–	–	–	–
Bahrain	–	–	–	–	–	–	–	–
Belgium	–	–	–	–	–	–	0	-2
Brazil	–	–	–	–	–	–	0	-61
Brunei	–	–	–	–	–	–	–	–
Cameroon	–	–	–	–	–	–	–	–
Canada	–	-21	7	-15	3	2	-1	-14
Chad	–	–	–	–	–	–	–	–
China	–	11	–	0	–	–	1	-65
Colombia	–	–	–	2	–	–	0	0
Denmark	–	–	–	-12	–	–	0	–
Dominican Republic	–	-15	–	0	–	–	0	-6
Ecuador	–	–	–	0	–	–	0	0
Estonia	–	–	–	–	–	–	–	–
Finland	–	–	–	–	–	–	–	–
France	–	–	1	–	–	0	0	-6
Germany	–	–	–	–	–	–	0	0
Guatemala	–	-2	–	–	–	–	0	-9
Honduras	–	-1	–	–	–	–	–	-6
India	–	11	–	2	4	-45	0	-65
Indonesia	–	–	–	–	–	–	0	–
Italy	–	2	–	–	–	-2	0	-7
Japan	–	6	–	0	–	–	0	-51
Korea, South	–	68	7	-9	–	–	0	0
Latvia	–	–	–	–	–	–	–	–
Lithuania	–	–	–	–	–	–	–	–
Malaysia	–	–	–	–	–	–	0	–
Mexico	–	-59	–	57	2	1	-1	-53
Netherlands	–	–	3	-45	–	–	0	-12
Norway	–	–	–	–	–	–	–	-2
Oman	–	–	–	–	–	–	–	-13
Panama	–	-20	–	-39	–	–	–	–
Portugal	–	–	–	-15	–	–	–	-12
Puerto Rico	–	-4	–	–	–	–	0	–
Qatar	–	–	–	–	–	–	–	–
Russia	–	–	–	–	–	–	–	–
Spain	–	–	–	–	–	–	0	-16
Sweden	–	–	–	–	–	–	0	–
Trinidad and Tobago	–	–	–	-2	–	–	–	–
United Kingdom	–	0	–	11	–	–	0	0
Vietnam	–	–	–	–	–	–	0	–
Virgin Islands, U.S.	–	-13	–	-14	–	–	–	–
Yemen	–	–	–	–	–	–	–	–
Other	–	-42	-1	-11	1	-20	1	-87
Total	**–**	**-66**	**17**	**-85**	**10**	**-64**	**0**	**-489**
Persian Gulf[5]	**–**	**16**	**–**	**-15**	**–**	**–**	**0**	**0**

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, March 2023
(Thousand Barrels per Day) — Continued

Country of Origin	Asphalt and Road Oil	Lubricants	Miscellanous Products	Total Products[4]	Total Crude Oil and Products[4]
OPEC	**0**	**-4**	**0**	**238**	**1,359**
Algeria	–	–	–	31	31
Angola	–	-1	–	9	34
Congo (Brazzaville)	–	–	–	–	0
Equatorial Guinea	–	0	–	10	38
Gabon	–	–	–	–	–
Iran	–	–	–	–	–
Iraq	–	0	–	145	368
Kuwait	–	0	0	13	25
Libya	–	0	–	0	56
Nigeria	0	-3	–	-13	182
Saudi Arabia	–	0	0	54	480
United Arab Emirates	0	2	0	-10	36
Venezuela	–	0	–	0	109
Non-OPEC	**47**	**-85**	**-3**	**-4,761**	**-4,394**
Argentina	0	-1	0	-33	12
Aruba	–	0	–	-5	-5
Australia	0	0	0	-5	-78
Bahamas	0	0	0	-30	-30
Bahrain	–	2	–	2	2
Belgium	0	-13	0	-55	-55
Brazil	0	-10	0	-122	-90
Brunei	–	–	–	–	–
Cameroon	–	–	–	–	–
Canada	58	3	0	111	3,639
Chad	–	0	–	0	0
China	0	0	0	-542	-1,456
Colombia	0	-3	0	-61	94
Denmark	–	–	–	-13	-125
Dominican Republic	-1	-1	0	-129	-144
Ecuador	–	-2	0	-144	-45
Estonia	–	–	–	-3	-3
Finland	–	0	–	-32	-56
France	–	-2	–	-15	-235
Germany	0	1	0	7	-106
Guatemala	–	-1	–	-158	-158
Honduras	–	0	0	-83	-83
India	0	-1	0	-120	-368
Indonesia	0	2	–	-85	-106
Italy	1	0	0	6	-132
Japan	0	0	0	-617	-617
Korea, South	0	16	0	-51	-396
Latvia	–	–	–	–	–
Lithuania	–	0	–	0	-48
Malaysia	0	0	–	57	37
Mexico	-7	-45	-1	-1,201	-480
Netherlands	0	-3	0	-163	-861
Norway	–	0	–	-52	-85
Oman	–	0	–	-7	-7
Panama	–	-1	–	-145	-235
Portugal	–	0	–	-40	-66
Puerto Rico	0	-1	0	-11	-11
Qatar	–	4	–	4	20
Russia	–	–	–	–	–
Spain	–	0	–	28	-195
Sweden	–	0	–	-90	-134
Trinidad and Tobago	–	0	0	-7	10
United Kingdom	–	0	–	-71	-437
Vietnam	–	0	0	0	0
Virgin Islands, U.S.	0	-3	–	-50	-95
Yemen	–	0	–	0	0
Other	-4	-26	-2	-836	-1,266
Total	**47**	**-89**	**-3**	**-4,523**	**-3,035**
Persian Gulf[5]	**0**	**7**	**0**	**207**	**931**

– – = Not Applicable.
– = No Data Reported.
1 On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.
2 Quantities are gross imports because exports are excluded from EIA data.
3 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
4 Includes gross imports of refinery olefins, renewable diesel, other biofuels, and petrochemical feedstocks. See footnote 2.
5 Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.
Note: Totals may not equal sum of components due to independent rounding.
Data source: U.S. Census Bureau and EIA estimates.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-March 2023
(Thousand Barrels per Day)

Country of Origin	Crude Oil[1]	Natural Gas Liquids	Refinery Olefins[2]	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reform-ulated	Conven-tional	Total	Reform-ulated	Conven-tional	Total
OPEC	**1,045**	**-7**	**–**	**203**	**–**	**0**	**0**	**1**	**19**	**21**
Algeria	14	–	–	16	–	–	–	–	–	–
Angola	11	–	–	–	–	–	–	–	7	7
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–	–
Equatorial Guinea	10	10	–	–	–	–	–	–	–	–
Gabon	–	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–	–
Iraq	257	–	–	127	–	–	–	–	–	–
Kuwait	14	–	–	6	–	0	0	–	1	1
Libya	57	–	–	–	–	–	–	–	–	–
Nigeria	183	-17	–	0	–	–	–	–	4	4
Saudi Arabia	415	–	–	60	–	–	–	–	8	8
United Arab Emirates	16	0	–	4	–	0	0	1	–	1
Venezuela	69	0	–	-10	–	0	0	0	–	0
Non-OPEC	**1,228**	**-2,477**	**19**	**72**	**–**	**-752**	**-752**	**144**	**285**	**429**
Argentina	45	0	–	0	–	-4	-4	–	9	9
Aruba	–	0	–	0	–	-1	-1	–	–	–
Australia	-43	-6	–	0	–	0	0	0	0	0
Bahamas	–	-2	–	-5	–	10	10	1	-4	-3
Bahrain	–	–	–	0	–	–	–	–	–	–
Belgium	–	-70	–	12	–	4	4	2	6	8
Brazil	72	-10	–	-7	–	-5	-5	–	3	3
Brunei	–	–	–	–	–	–	–	–	–	–
Cameroon	7	–	–	–	–	–	–	–	–	–
Canada	3,590	-30	19	-77	–	-16	-16	77	36	113
Chad	–	–	–	–	–	–	–	–	–	–
China	-547	-419	–	0	–	4	4	–	0	0
Colombia	146	-2	–	-26	–	-20	-20	–	1	1
Denmark	-82	–	–	-1	–	–	–	0	–	0
Dominican Republic	-16	-41	–	-3	–	-19	-19	0	0	0
Ecuador	125	-35	–	11	–	-17	-17	–	–	–
Estonia	–	–	–	–	–	-1	-1	–	–	–
Finland	-24	-13	–	–	–	4	4	–	7	7
France	-200	-24	–	2	–	13	13	3	10	14
Germany	-119	-2	–	0	–	–	–	–	1	1
Guatemala	–	-14	–	0	–	-62	-62	–	–	–
Honduras	–	-24	–	0	–	-23	-23	–	0	0
India	-141	-109	–	23	–	1	1	3	55	57
Indonesia	-26	-104	–	1	–	–	–	–	–	–
Italy	-135	-15	–	5	–	0	0	3	38	41
Japan	-11	-564	–	-7	–	1	1	0	3	3
Korea, South	-363	-171	–	0	–	11	11	0	17	17
Latvia	–	–	–	–	–	–	–	–	–	–
Lithuania	-33	–	–	–	–	–	–	0	–	0
Malaysia	-14	–	–	36	–	0	0	–	3	3
Mexico	741	-224	–	93	–	-500	-500	-1	-15	-16
Netherlands	-528	-79	–	-9	–	5	5	23	27	50
Norway	-46	-54	–	-5	–	6	6	–	11	11
Oman	–	–	–	0	–	–	–	–	2	2
Panama	-53	-10	–	-3	–	-26	-26	0	0	0
Portugal	-20	-8	–	–	–	–	–	–	16	16
Puerto Rico	–	0	–	0	–	0	0	–	0	0
Qatar	6	0	–	0	–	–	–	–	–	–
Russia	–	–	–	0	–	–	–	–	–	–
Spain	-155	-19	–	4	–	4	4	–	29	29
Sweden	-51	-75	–	0	–	4	4	–	4	4
Trinidad and Tobago	16	1	–	0	–	0	0	–	–	–
United Kingdom	-287	-37	–	5	–	0	0	34	8	42
Vietnam	–	0	–	0	–	–	–	–	–	–
Virgin Islands, U.S.	-16	-6	–	0	–	-11	-11	–	–	–
Yemen	–	–	–	–	–	–	–	–	–	–
Other	-610	-311	0	23	–	-114	-114	-1	18	17
Total	**2,273**	**-2,484**	**19**	**276**	**–**	**-752**	**-752**	**145**	**305**	**450**
Persian Gulf[5]	**707**	**0**	**–**	**197**	**–**	**0**	**0**	**1**	**9**	**11**

See footnotes at end of table.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-March 2023
(Thousand Barrels per Day) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel[2]	Other Biofuels[2,3]	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	**-5**	**–**	**–**	**–**	**12**	**–**	**–**	**–**	**12**	**0**	**–**
Algeria	–	–	–	–	0	–	–	–	0	–	–
Angola	–	–	–	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	–	–	–	–	–	–	–
Equatorial Guinea	–	–	–	–	–	–	–	–	–	–	–
Gabon	–	–	–	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–	–	–	–
Iraq	–	–	–	–	–	–	–	–	–	–	–
Kuwait	0	–	–	–	–	–	–	–	–	–	–
Libya	–	–	–	–	–	–	–	–	–	–	–
Nigeria	-1	–	–	–	3	–	–	–	3	–	–
Saudi Arabia	-2	–	–	–	8	–	–	–	8	0	–
United Arab Emirates	-1	–	–	–	1	–	–	–	1	0	–
Venezuela	0	–	–	–	0	–	–	–	0	–	–
Non-OPEC	**-89**	**26**	**22**	**–**	**-609**	**-98**	**-66**	**–**	**-772**	**-1**	**0**
Argentina	0	–	–	–	-18	-3	-17	–	-39	0	–
Aruba	0	–	–	–	-1	–	–	–	-1	0	–
Australia	0	–	–	–	0	–	–	–	0	–	–
Bahamas	0	–	–	–	-7	–	-10	–	-17	0	–
Bahrain	0	–	–	–	–	–	–	–	–	–	–
Belgium	0	–	–	–	-3	–	–	–	-3	-2	–
Brazil	0	1	–	–	-53	-3	–	–	-56	-3	–
Brunei	–	–	–	–	–	–	–	–	–	–	–
Cameroon	–	–	–	–	–	–	–	–	–	–	–
Canada	-39	4	–	–	156	-7	-1	–	148	0	0
Chad	–	–	–	–	–	–	–	–	–	–	–
China	0	–	–	–	0	–	–	–	0	–	–
Colombia	-2	–	–	–	-9	–	–	–	-9	0	–
Denmark	–	–	–	–	0	–	–	–	0	–	–
Dominican Republic	0	–	–	–	-19	–	-5	–	-24	0	–
Ecuador	0	–	–	–	-68	-9	-3	–	-80	–	–
Estonia	–	–	–	–	–	–	–	–	–	–	–
Finland	0	–	1	–	–	–	–	–	–	–	–
France	0	–	–	–	0	–	–	–	0	0	–
Germany	0	12	–	–	–	–	–	–	–	0	–
Guatemala	0	–	–	–	-17	-26	-1	–	-44	0	–
Honduras	0	–	–	–	-6	-8	-1	–	-15	0	–
India	-8	–	–	–	33	–	0	–	33	6	–
Indonesia	0	0	–	–	–	–	–	–	–	–	–
Italy	0	3	–	–	–	–	–	–	–	–	–
Japan	0	–	–	–	0	–	–	–	0	0	–
Korea, South	-8	1	–	–	5	–	–	–	5	0	–
Latvia	–	–	–	–	–	–	–	–	–	–	–
Lithuania	–	–	–	–	–	–	–	–	–	–	–
Malaysia	0	–	–	–	–	–	–	–	–	–	–
Mexico	-4	0	–	–	-305	-5	0	–	-309	0	–
Netherlands	-6	0	1	–	-16	-4	1	–	-18	0	0
Norway	-1	0	–	–	-2	–	0	–	-1	–	–
Oman	–	–	–	–	–	–	–	–	–	–	–
Panama	0	0	–	–	-43	-7	-1	–	-51	0	–
Portugal	–	–	–	–	–	–	–	–	–	–	–
Puerto Rico	0	–	–	–	-5	0	–	–	-5	–	–
Qatar	–	–	–	–	12	–	–	–	12	–	–
Russia	–	–	–	–	–	–	–	–	–	–	–
Spain	-1	5	–	–	–	–	–	–	–	–	–
Sweden	-1	–	–	–	-3	–	–	–	-3	–	–
Trinidad and Tobago	–	–	–	–	-4	–	–	–	-4	–	–
United Kingdom	-10	0	–	–	-18	–	–	–	-18	–	–
Vietnam	–	–	–	–	–	–	–	–	–	–	–
Virgin Islands, U.S.	–	–	–	–	-7	–	-7	–	-13	0	–
Yemen	–	–	–	–	–	–	–	–	–	–	–
Other	-9	0	20	–	-211	-26	-21	–	-260	-2	0
Total	**-94**	**26**	**22**	**–**	**-596**	**-98**	**-66**	**–**	**-760**	**-1**	**0**
Persian Gulf[5]	**-3**	**–**	**–**	**–**	**21**	**–**	**–**	**–**	**21**	**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-March 2023
(Thousand Barrels per Day) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks[2]		Waxes	Petroleum Coke
					Naphtha	Other Oils		
OPEC	**–**	**24**	**–**	**18**	**–**	**–**	**0**	**-6**
Algeria	–	–	–	14	–	–	–	–
Angola	–	–	–	–	–	–	–	–
Congo (Brazzaville)	–	–	–	–	–	–	–	–
Equatorial Guinea	–	–	–	–	–	–	–	–
Gabon	–	–	–	–	–	–	–	–
Iran	–	–	–	–	–	–	–	–
Iraq	–	0	–	6	–	–	–	–
Kuwait	–	19	–	–	–	–	–	-2
Libya	–	–	–	–	–	–	0	–
Nigeria	–	–	–	0	–	–	0	–
Saudi Arabia	–	3	–	3	–	–	0	0
United Arab Emirates	–	2	–	-5	–	–	0	-3
Venezuela	–	0	–	–	–	–	0	–
Non-OPEC	**–**	**-72**	**15**	**-8**	**9**	**-27**	**0**	**-544**
Argentina	–	–	–	0	–	0	0	4
Aruba	–	-2	–	0	–	–	–	–
Australia	–	–	–	–	–	–	0	-4
Bahamas	–	-2	–	-10	–	–	–	–
Bahrain	–	–	–	–	–	–	–	-1
Belgium	–	–	–	3	–	–	0	-5
Brazil	–	-3	–	4	–	–	0	-55
Brunei	–	–	–	–	–	–	–	–
Cameroon	–	–	–	–	–	–	–	–
Canada	–	-25	4	-5	3	2	0	-20
Chad	–	–	–	–	–	–	–	–
China	–	10	–	0	–	–	0	-105
Colombia	–	–	–	11	–	–	0	2
Denmark	–	–	–	-4	–	–	0	–
Dominican Republic	–	-9	–	-3	–	–	0	-4
Ecuador	–	–	–	1	–	–	0	-4
Estonia	–	–	–	–	–	–	–	–
Finland	–	–	–	0	–	–	–	–
France	–	–	0	-3	–	0	0	-4
Germany	–	–	0	1	–	–	0	0
Guatemala	–	-5	–	–	–	–	0	-11
Honduras	–	-2	–	–	–	–	0	-5
India	–	15	–	3	2	-19	0	-86
Indonesia	–	–	–	–	–	–	0	–
Italy	–	1	–	–	1	-2	0	-16
Japan	–	7	–	0	–	–	0	-41
Korea, South	–	67	8	-6	1	–	0	-3
Latvia	–	–	–	–	–	–	–	–
Lithuania	–	–	–	–	–	–	0	–
Malaysia	–	0	–	1	–	–	0	0
Mexico	–	-59	–	46	2	2	-1	-48
Netherlands	–	–	2	-18	–	–	0	-5
Norway	–	0	–	–	–	–	0	-3
Oman	–	–	–	–	–	–	–	-5
Panama	–	-17	–	-24	–	–	0	–
Portugal	–	–	–	-5	–	–	0	-4
Puerto Rico	–	-3	–	–	–	–	0	–
Qatar	–	–	–	–	0	–	–	-1
Russia	–	–	–	–	–	–	–	–
Spain	–	–	–	–	–	–	0	-12
Sweden	–	–	–	–	–	–	0	–
Trinidad and Tobago	–	–	–	-1	–	–	–	0
United Kingdom	–	0	–	7	–	–	0	-2
Vietnam	–	0	–	–	–	–	0	–
Virgin Islands, U.S.	–	-12	–	-15	–	–	–	–
Yemen	–	–	–	–	–	–	–	–
Other	–	-33	1	9	0	-10	1	-106
Total	**–**	**-48**	**15**	**11**	**9**	**-27**	**0**	**-550**
Persian Gulf[5]	**–**	**24**	**–**	**3**	**0**	**–**	**0**	**-8**

See footnotes at end of table.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-March 2023
(Thousand Barrels per Day) — Continued

Country of Origin	Asphalt and Road Oil	Lubricants	Miscellanous Products	Total Products[4]	Total Crude Oil and Products[4]
OPEC	**-2**	**-1**	**0**	**258**	**1,303**
Algeria	–	–	–	30	44
Angola	–	0	–	6	17
Congo (Brazzaville)	–	–	–	–	1
Equatorial Guinea	–	0	–	10	19
Gabon	–	–	–	–	–
Iran	–	–	–	–	–
Iraq	0	0	–	133	389
Kuwait	–	0	0	24	38
Libya	–	0	–	0	57
Nigeria	-2	-2	–	-16	167
Saudi Arabia	–	0	0	80	495
United Arab Emirates	0	2	0	0	16
Venezuela	–	0	–	-10	59
Non-OPEC	**39**	**-57**	**-3**	**-4,171**	**-2,943**
Argentina	-1	-1	0	-32	12
Aruba	–	0	–	-4	-4
Australia	0	0	0	-11	-53
Bahamas	0	0	0	-30	-30
Bahrain	0	2	–	1	1
Belgium	0	-11	0	-65	-65
Brazil	0	-11	0	-142	-70
Brunei	–	0	–	0	0
Cameroon	–	0	–	0	7
Canada	50	2	0	135	3,725
Chad	–	0	–	0	0
China	0	0	0	-511	-1,058
Colombia	1	-3	0	-47	99
Denmark	–	0	–	-5	-86
Dominican Republic	-1	-1	0	-105	-121
Ecuador	0	-1	0	-126	-1
Estonia	–	–	–	-1	-1
Finland	–	0	–	-2	-26
France	–	-1	–	-4	-204
Germany	0	0	0	12	-107
Guatemala	–	-1	0	-137	-137
Honduras	0	0	0	-69	-69
India	0	-1	0	-84	-225
Indonesia	0	3	0	-100	-126
Italy	0	0	0	19	-116
Japan	0	0	0	-602	-613
Korea, South	0	12	0	-66	-429
Latvia	–	0	–	0	0
Lithuania	–	0	0	0	-33
Malaysia	0	0	0	40	26
Mexico	-5	-36	-1	-1,059	-319
Netherlands	0	0	0	-78	-606
Norway	–	0	–	-47	-94
Oman	–	0	–	-3	-3
Panama	0	-1	–	-132	-185
Portugal	–	0	–	-1	-20
Puerto Rico	0	0	0	-9	-9
Qatar	–	9	–	20	25
Russia	–	0	–	0	0
Spain	1	0	–	11	-144
Sweden	–	0	–	-71	-123
Trinidad and Tobago	0	0	0	-4	12
United Kingdom	–	0	0	-13	-300
Vietnam	–	0	0	0	0
Virgin Islands, U.S.	0	-1	–	-59	-75
Yemen	–	0	–	0	0
Other	-6	-16	-2	-790	-1,398
Total	**37**	**-57**	**-3**	**-3,913**	**-1,640**
Persian Gulf[5]	**0**	**13**	**0**	**258**	**964**

– – = Not Applicable.
– = No Data Reported.
1 On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.
2 Quantities are gross imports because exports are excluded from EIA data.
3 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
4 Includes gross imports of refinery olefins, renewable diesel, other biofuels, and petrochemical feedstocks. See footnote 2.
5 Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.
Note: Totals may not equal sum of components due to independent rounding.
Data source: U.S. Census Bureau and EIA estimates.

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, March 2023
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Crude Oil	**7,033**	**121,415**	**632,963**	**25,799**	**49,402**	**836,612**
Refinery	5,434	13,139	44,926	2,554	20,726	86,779
Tank Farms and Pipelines (Includes Cushing, OK)	1,599	108,276	216,862	23,245	23,726	373,708
Cushing, Oklahoma	– –	33,857	– –	– –	– –	33,857
Leases	– –	– –	– –	– –	– –	– –
Strategic Petroleum Reserve[1]	–	–	371,175	–	–	371,175
Alaskan In Transit	– –	– –	– –	– –	4,950	4,950
Total Stocks, All Oils (excluding Crude Oil)[2]	**125,219**	**168,727**	**352,967**	**24,793**	**93,648**	**765,354**
Refinery	11,881	49,101	117,671	10,415	51,173	240,241
Bulk Terminal	87,184	82,365	175,532	7,438	37,611	390,130
Pipeline	25,871	35,509	58,548	6,770	4,691	131,389
Natural Gas Processing Plant	283	1,752	1,216	170	173	3,594
Natural Gas Liquids	**7,756**	**36,527**	**120,436**	**5,350**	**2,462**	**172,531**
Refinery	358	2,689	4,625	292	1,384	9,348
Bulk Terminal	4,826	14,556	90,675	378	905	111,340
Pipeline	2,289	17,530	23,920	4,510	–	48,249
Natural Gas Processing Plant	283	1,752	1,216	170	173	3,594
Ethane	**888**	**6,957**	**45,297**	**1,157**	**–**	**54,299**
Refinery	–	–	24	–	–	24
Bulk Terminal	324	2,979	35,783	–	–	39,086
Pipeline	564	3,767	9,426	1,153	–	14,910
Natural Gas Processing Plant	–	211	64	4	–	279
Propane	**4,953**	**11,963**	**36,654**	**1,826**	**416**	**55,812**
Refinery	106	862	1,004	41	123	2,136
Bulk Terminal	3,332	6,100	28,783	59	278	38,552
Pipeline	1,367	4,122	6,741	1,651	–	13,881
Natural Gas Processing Plant	148	879	126	75	15	1,243
Normal Butane	**1,538**	**4,979**	**18,247**	**1,158**	**1,592**	**27,514**
Refinery	173	844	2,196	148	845	4,206
Bulk Terminal	1,037	2,986	13,340	310	624	18,297
Pipeline	274	861	2,471	667	–	4,273
Natural Gas Processing Plant	54	288	240	33	123	738
Isobutane	**144**	**2,323**	**8,720**	**437**	**428**	**12,052**
Refinery	79	641	1,073	87	412	2,292
Bulk Terminal	–	777	5,940	–	–	6,717
Pipeline	44	774	1,519	334	–	2,671
Natural Gas Processing Plant	21	131	188	16	16	372
Natural Gasoline	**233**	**10,305**	**11,518**	**772**	**26**	**22,854**
Refinery	–	342	328	16	4	690
Bulk Terminal	133	1,714	6,829	9	3	8,688
Pipeline	40	8,006	3,763	705	–	12,514
Natural Gas Processing Plant	60	243	598	42	19	962
Refinery Olefins	**72**	**331**	**1,238**	**91**	**34**	**1,766**
Refinery	72	331	1,238	91	34	1,766
Ethylene	**–**	**–**	**0**	**–**	**–**	**0**
Refinery	–	–	0	–	–	0
Propylene	**30**	**300**	**802**	**3**	**16**	**1,151**
Refinery	30	300	802	3	16	1,151
Normal Butylene	**42**	**31**	**436**	**88**	**18**	**615**
Refinery	42	31	436	88	18	615
Isobutylene	**0**	**0**	**0**	**0**	**0**	**0**
Refinery	0	0	0	0	0	0
Other Hydrocarbons	**–**	**20**	**–**	**–**	**–**	**20**
Refinery	–	20	–	–	–	20
Biofuels (Including Fuel Ethanol)[2]	**8,967**	**12,019**	**6,969**	**629**	**5,684**	**34,268**
Refinery	133	124	1,185	104	845	2,391
Bulk Terminal	8,804	11,895	5,784	522	4,839	31,844
Pipeline	30	–	–	3	–	33
Fuel Ethanol	**7,452**	**10,447**	**4,349**	**361**	**2,341**	**24,951**
Refinery	127	99	1,075	93	132	1,526
Bulk Terminal	7,295	10,348	3,274	265	2,209	23,392
Pipeline	30	–	–	3	–	33
Biodiesel	**1,515**	**1,421**	**1,127**	**28**	**963**	**5,055**
Refinery	6	25	110	11	7	159
Bulk Terminal	1,509	1,396	1,017	17	956	4,896
Pipeline	– –	– –	– –	– –	– –	– –
Renewable Diesel Fuel	**–**	**122**	**1,313**	**187**	**2,297**	**3,919**
Refinery	–	–	–	–	706	706
Bulk Terminal	–	122	1,313	187	1,591	3,213
Pipeline	– –	– –	– –	– –	– –	– –
Other Biofuels[3]	**–**	**29**	**179**	**53**	**82**	**343**
Refinery	–	–	–	–	–	–
Bulk Terminal	–	29	179	53	82	343
Pipeline	– –	– –	– –	– –	– –	– –

See footnotes at end of table.

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, March 2023
(Thousand Barrels) — Continued

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Unfinished Oils	**3,928**	**13,516**	**47,051**	**3,206**	**20,850**	**88,551**
Naphthas and Lighter	**792**	**3,675**	**10,734**	**718**	**3,639**	**19,558**
Refinery	792	3,669	9,589	718	3,392	18,160
Bulk Terminal	– –	– –	– –	– –	– –	– –
Kerosene and Light Gas Oils	**372**	**2,665**	**9,190**	**651**	**3,191**	**16,069**
Refinery	372	2,665	6,613	651	3,121	13,422
Bulk Terminal	–	–	2,577	–	70	2,647
Heavy Gas Oils	**2,191**	**4,736**	**20,894**	**1,394**	**11,048**	**40,263**
Refinery	2,184	4,494	19,095	1,394	9,737	36,904
Bulk Terminal	7	242	1,799	–	1,311	3,359
Residuum	**573**	**2,440**	**6,233**	**443**	**2,972**	**12,661**
Refinery	573	2,440	6,233	443	2,972	12,661
Bulk Terminal	–	–	–	–	–	–
Motor Gasoline Blending Components[2]	**50,959**	**45,929**	**78,161**	**6,465**	**29,112**	**210,626**
Refinery	3,127	13,603	27,655	3,009	14,319	61,713
Bulk Terminal	36,985	24,734	32,659	2,351	12,440	109,169
Pipeline	10,847	7,592	17,847	1,105	2,353	39,744
Reformulated - RBOB	**18,797**	**5,667**	**10,869**	**–**	**13,634**	**48,968**
Refinery	1,090	1,021	2,148	–	5,005	9,264
Bulk Terminal	14,225	3,860	4,275	–	7,206	29,567
Pipeline	3,482	786	4,446	–	1,423	10,137
Conventional	**32,162**	**40,262**	**67,292**	**6,465**	**15,477**	**161,658**
Refinery	2,037	12,582	25,507	3,009	9,314	52,449
Bulk Terminal	22,760	20,874	28,384	2,351	5,233	79,602
Pipeline	7,365	6,806	13,401	1,105	930	29,607
CBOB	**23,730**	**32,190**	**35,770**	**5,127**	**8,179**	**104,996**
Refinery	434	6,336	11,504	1,674	2,954	22,902
Bulk Terminal	16,136	19,122	11,526	2,348	4,296	53,428
Pipeline	7,160	6,732	12,740	1,105	929	28,666
GTAB	**873**	**–**	**99**	**–**	**–**	**972**
Refinery	–	–	–	–	–	–
Bulk Terminal	873	–	99	–	–	972
Pipeline	–	–	–	–	–	–
Other	**7,559**	**8,072**	**31,423**	**1,338**	**7,298**	**55,690**
Refinery	1,603	6,246	14,003	1,335	6,360	29,547
Bulk Terminal	5,751	1,752	16,759	3	937	25,202
Pipeline	205	74	661	–	1	941
Aviation Gasoline Blending Components	**–**	**–**	**19**	**–**	**–**	**19**
Refinery	–	–	19	–	–	19
Bulk Terminal	–	–	–	–	–	–
Finished Motor Gasoline	**1,790**	**3,548**	**5,950**	**1,379**	**2,040**	**14,707**
Refinery	31	797	2,830	779	735	5,172
Bulk Terminal	452	774	2,633	422	1,291	5,572
Pipeline	1,307	1,977	487	178	14	3,963
Reformulated	**4**	**–**	**–**	**–**	**16**	**21**
Refinery	–	–	–	–	16	16
Bulk Terminal	4	–	–	1	–	5
Pipeline	–	–	–	–	–	–
Reformulated (Blended with Fuel Ethanol)	**4**	**–**	**–**	**1**	**16**	**21**
Refinery	–	–	–	–	16	16
Bulk Terminal	4	–	–	1	–	5
Pipeline	–	–	–	–	–	–
Reformulated (Other)	**–**	**–**	**–**	**–**	**–**	**–**
Refinery	–	–	–	–	–	–
Bulk Terminal	–	–	–	–	–	–
Pipeline	–	–	–	–	–	–
Conventional	**1,786**	**3,548**	**5,950**	**1,378**	**2,024**	**14,686**
Refinery	31	797	2,830	779	719	5,156
Bulk Terminal	448	774	2,633	421	1,291	5,567
Pipeline	1,307	1,977	487	178	14	3,963
Conventional (Blended with Fuel Ethanol)	**–**	**120**	**–**	**61**	**38**	**219**
Refinery	–	–	–	60	–	60
Bulk Terminal	–	120	–	1	38	159
Pipeline	–	–	–	–	–	–
Ed55 and Lower	**–**	**120**	**–**	**61**	**–**	**181**
Refinery	–	–	–	60	–	60
Bulk Terminal	–	120	–	1	–	121
Pipeline	–	–	–	–	–	–
Greater than Ed55	**–**	**0**	**–**	**–**	**38**	**38**
Refinery	–	–	–	–	–	–
Bulk Terminal	–	0	–	–	38	38
Pipeline	–	–	–	–	–	–
Conventional (Other)	**1,786**	**3,428**	**5,950**	**1,317**	**1,986**	**14,467**
Refinery	31	797	2,830	719	719	5,096
Bulk Terminal	448	654	2,633	420	1,253	5,408
Pipeline	1,307	1,977	487	178	14	3,963

See footnotes at end of table.

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, March 2023
(Thousand Barrels) — Continued

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Finished Aviation Gasoline	**222**	**181**	**530**	**9**	**221**	**1,163**
Refinery	–	33	370	9	125	537
Bulk Terminal	222	148	160	–	96	626
Pipeline	–	–	–	–	–	–
Kerosene-Type Jet Fuel	**8,945**	**6,491**	**12,327**	**628**	**9,358**	**37,749**
Refinery	400	2,183	5,302	233	3,619	11,737
Bulk Terminal	3,822	2,867	2,423	264	4,947	14,323
Pipeline	4,723	1,441	4,602	131	792	11,689
Kerosene	**652**	**114**	**521**	**1**	**9**	**1,297**
Refinery	176	109	65	1	3	354
Bulk Terminal	458	5	434	–	6	903
Pipeline	18	–	22	–	–	40
Distillate Fuel Oil[2]	**27,075**	**29,304**	**38,438**	**4,059**	**13,416**	**112,292**
Refinery	1,438	6,071	14,387	1,498	5,480	28,874
Bulk Terminal	18,980	16,264	12,381	1,718	6,404	55,747
Pipeline	6,657	6,969	11,670	843	1,532	27,671
15 ppm sulfur and Under	**25,400**	**28,720**	**32,635**	**3,870**	**12,324**	**102,949**
Refinery	1,019	5,660	11,993	1,352	4,741	24,765
Bulk Terminal	17,781	16,223	9,511	1,675	6,148	51,338
Pipeline	6,600	6,837	11,131	843	1,435	26,846
Greater than 15 ppm to 500 ppm sulfur	**623**	**298**	**1,150**	**136**	**389**	**2,596**
Refinery	108	153	534	93	340	1,228
Bulk Terminal	515	21	398	43	1	978
Pipeline	–	124	218	–	48	390
Greater than 500 ppm sulfur	**1,052**	**286**	**4,653**	**53**	**703**	**6,747**
Refinery	311	258	1,860	53	399	2,881
Bulk Terminal	684	20	2,472	–	255	3,431
Pipeline	57	8	321	–	49	435
Residual Fuel Oil	**4,851**	**909**	**18,865**	**229**	**4,709**	**29,563**
Refinery	277	792	4,074	229	2,069	7,441
Bulk Terminal	4,574	117	14,791	–	2,640	22,122
Pipeline	–	–	–	–	–	–
Less than 0.31% Sulfur	**236**	**140**	**1,450**	**25**	**1,082**	**2,933**
Refinery	12	127	67	25	36	267
Bulk Terminal	224	13	1,383	–	1,046	2,666
0.31% to 1.00% Sulfur	**829**	**182**	**5,195**	**5**	**741**	**6,952**
Refinery	87	179	1,001	5	350	1,622
Bulk Terminal	742	3	4,194	–	391	5,330
Greater than 1.00% Percent Sulfur	**3,786**	**587**	**12,220**	**199**	**2,886**	**19,678**
Refinery	178	486	3,006	199	1,683	5,552
Bulk Terminal	3,608	101	9,214	–	1,203	14,126
Petrochemical Feedstocks	**–**	**635**	**2,273**	**–**	**–**	**2,908**
Refinery	–	635	2,273	–	–	2,908
Naphtha for Petrochemical Feedstock Use	–	523	1,699	–	–	2,222
Other Oils for Petrochemical Feedstock Use	–	112	574	–	–	686
Special Naphthas	**39**	**125**	**760**	**–**	**55**	**979**
Refinery	17	66	749	–	55	887
Bulk Terminal	22	59	11	–	–	92
Lubricants	**1,310**	**746**	**9,227**	**–**	**1,172**	**12,455**
Refinery	858	198	5,372	–	911	7,339
Bulk Terminal	452	548	3,855	–	261	5,116
Waxes	**301**	**56**	**261**	**–**	**–**	**618**
Refinery	301	56	261	–	–	618
Petroleum Coke	**–**	**3,360**	**3,194**	**132**	**1,244**	**7,930**
Refinery	–	3,360	3,194	132	1,244	7,930
Asphalt and Road Oil	**8,296**	**14,729**	**6,261**	**2,600**	**3,216**	**35,102**
Refinery	715	4,671	2,183	818	1,061	9,448
Bulk Terminal	7,581	10,058	4,078	1,782	2,155	25,654
Miscellaneous Products	**57**	**187**	**486**	**14**	**67**	**811**
Refinery	57	95	359	14	67	592
Bulk Terminal	–	92	127	–	–	219
Pipeline	–	–	–	–	–	–
Total Stocks, All Oils	**132,252**	**290,142**	**985,930**	**50,592**	**143,050**	**1,601,966**

– – = Not Applicable.
– = No Data Reported.
1 Crude oil stocks in the Strategic Petroleum Reserve include non-U.S. stocks held under foreign or commercial storage agreements.
2 Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D. Includes stocks held at biofuel production facilities.
3 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene."

Table 56. Refinery, Bulk Terminal, and Natural Gas Plant Stocks of Selected Petroleum Products by PAD District and State, March 2023
(Thousand Barrels)

Commodity	Motor Gasoline			Motor Gasoline Blending Components[1]			Kerosene
	Reformulated	Conventional	Total	Reformulated	Conventional	Total	
PAD District 1	**4**	**479**	**483**	**15,315**	**24,797**	**40,112**	**634**
Connecticut	–	–	–	1,146	22	1,168	19
Delaware	–	–	–	873	696	1,569	161
District of Columbia	–	–	–	–	–	–	–
Florida	–	265	265	–	5,010	5,010	–
Georgia	–	44	44	–	2,424	2,424	–
Maine	–	–	–	56	401	457	87
Maryland	–	–	–	1,183	65	1,248	12
Massachusetts	3	–	3	1,062	–	1,062	–
New Hampshire	–	–	–	–	–	–	–
New Jersey	–	–	–	7,239	7,907	15,146	33
New York	1	–	1	981	1,152	2,133	201
North Carolina	–	45	45	34	2,162	2,196	6
Pennsylvania	–	–	–	563	3,245	3,808	59
Rhode Island	–	–	–	603	2	605	–
South Carolina	–	74	74	–	830	830	14
Vermont	–	–	–	–	28	28	2
Virginia	–	8	8	1,575	753	2,328	40
West Virginia	–	43	43	–	100	100	–
PAD District 2	**–**	**1,571**	**1,571**	**4,881**	**33,456**	**38,337**	**114**
Illinois	–	23	23	2,737	4,718	7,455	49
Indiana	–	80	80	821	4,734	5,555	1
Iowa	–	27	27	0	1,932	1,932	–
Kansas	–	138	138	–	2,883	2,883	19
Kentucky	–	61	61	383	1,370	1,753	–
Michigan	–	9	9	96	2,322	2,418	–
Minnesota	–	229	229	0	2,724	2,724	–
Missouri	–	110	110	297	627	924	–
Nebraska	–	33	33	–	541	541	–
North Dakota	–	25	25	–	922	922	–
Ohio	–	550	550	–	3,711	3,711	19
Oklahoma	–	151	151	–	3,150	3,150	24
South Dakota	–	35	35	–	510	510	–
Tennessee	–	30	30	–	1,634	1,634	–
Wisconsin	–	70	70	547	1,678	2,225	2
PAD District 3	**–**	**5,463**	**5,463**	**6,423**	**53,891**	**60,314**	**499**
Alabama	–	71	71	4	1,009	1,013	2
Arkansas	–	86	86	–	734	734	–
Louisiana	–	919	919	553	12,299	12,852	1
Mississippi	–	713	713	3	1,904	1,907	–
New Mexico	–	28	28	22	523	545	–
Texas	–	3,646	3,646	5,841	37,422	43,263	496
PAD District 4	**1**	**1,200**	**1,201**	**–**	**5,360**	**5,360**	**1**
Colorado	–	269	269	–	1,524	1,524	–
Idaho	–	41	41	–	437	437	–
Montana	–	295	295	–	1,223	1,223	–
Utah	1	104	105	–	1,229	1,229	1
Wyoming	–	491	491	–	947	947	–
PAD District 5	**16**	**2,010**	**2,026**	**12,211**	**14,547**	**26,759**	**9**
Alaska	–	308	308	–	679	679	6
Arizona	–	61	61	620	188	808	–
California	16	323	339	11,395	7,015	18,411	3
Hawaii	–	564	564	–	424	424	–
Nevada	–	151	151	13	351	364	–
Oregon	–	51	51	–	1,802	1,802	–
Washington	–	552	552	183	4,088	4,271	–
U.S. Total	**21**	**10,723**	**10,744**	**38,831**	**132,051**	**170,882**	**1,257**

See footnotes at end of table.

Table 56. Refinery, Bulk Terminal, and Natural Gas Plant Stocks of Selected Petroleum Products by PAD District and State, March 2023
(Thousand Barrels) — Continued

Commodity	Distillate Fuel Oil[1]				Residual Fuel Oil	Propane
	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	Greater than 500 ppm	Total		
PAD District 1	**18,800**	**623**	**995**	**20,418**	**4,851**	**3,586**
Connecticut	1,197	–	–	1,197	10	–
Delaware	440	40	35	515	502	8
District of Columbia	–	–	–	–	–	–
Florida	1,909	92	–	2,001	1,098	65
Georgia	1,339	–	–	1,339	158	12
Maine	860	1	–	861	53	–
Maryland	723	–	–	723	165	–
Massachusetts	786	2	–	788	97	–
New Hampshire	384	–	–	384	27	113
New Jersey	3,943	129	532	4,604	2,040	99
New York	1,892	–	101	1,993	269	489
North Carolina	876	–	–	876	20	289
Pennsylvania	2,169	–	132	2,301	256	2,100
Rhode Island	542	–	–	542	–	–
South Carolina	655	–	–	655	57	238
Vermont	7	–	–	7	–	–
Virginia	985	294	195	1,474	99	4
West Virginia	93	65	–	158	–	106
PAD District 2	**21,883**	**174**	**278**	**22,335**	**909**	**7,841**
Illinois	3,607	–	3	3,610	252	627
Indiana	2,491	–	53	2,544	140	283
Iowa	2,068	1	–	2,069	1	186
Kansas	2,053	–	–	2,053	27	4,319
Kentucky	854	–	–	854	–	119
Michigan	1,284	–	–	1,284	100	1,211
Minnesota	1,784	–	89	1,873	190	110
Missouri	737	15	2	754	–	57
Nebraska	608	–	–	608	–	111
North Dakota	755	–	–	755	22	35
Ohio	1,814	5	77	1,896	89	631
Oklahoma	1,449	153	54	1,656	58	103
South Dakota	602	–	–	602	–	13
Tennessee	874	–	–	874	29	1
Wisconsin	902	–	–	902	1	35
PAD District 3	**21,504**	**932**	**4,332**	**26,768**	**18,865**	**29,913**
Alabama	983	6	53	1,042	367	15
Arkansas	660	–	–	660	–	43
Louisiana	4,717	412	1,220	6,349	8,743	2,642
Mississippi	940	212	66	1,218	471	796
New Mexico	204	–	–	204	121	2
Texas	14,000	302	2,993	17,295	9,163	26,415
PAD District 4	**3,027**	**136**	**53**	**3,216**	**229**	**175**
Colorado	576	–	–	576	3	18
Idaho	233	–	–	233	–	–
Montana	1,023	81	–	1,104	62	31
Utah	518	11	53	582	73	66
Wyoming	677	44	–	721	91	60
PAD District 5	**10,889**	**341**	**654**	**11,884**	**4,709**	**416**
Alaska	1,106	–	30	1,136	119	2
Arizona	594	–	–	594	–	11
California	5,110	340	419	5,869	2,872	143
Hawaii	318	1	200	519	794	39
Nevada	260	–	5	265	–	–
Oregon	1,186	–	–	1,186	186	–
Washington	2,315	–	–	2,315	738	221
U.S. Total	**76,103**	**2,206**	**6,312**	**84,621**	**29,563**	**41,931**

– = 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. Includes stocks held at biofuel production facilities.
Note: Totals may not equal sum of components due to independent rounding.
Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene."

Table 57. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail [1] Between PAD Districts, March 2023
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	**477**	**18**	**0**	**770**	**61,938**	**5,453**	**2,451**	**1,764**	**15,169**
Petroleum Products	**17,090**	**64**	**0**	**19,920**	**53,354**	**14,462**	**5,122**	**104,391**	**19,161**
Natural Gas Liquids	7,708	54	0	6,165	40,246	10,125	624	1,966	11,301
Ethane	5,762	0	–	412	17,954	2,580	–	0	1,152
Propane	970	0	0	3,537	13,160	3,925	363	1,966	1,437
Normal Butane	242	44	0	2,073	4,302	1,649	215	0	299
Isobutane	496	10	0	143	1,687	583	46	0	836
Natural Gasoline	238	0	–	0	3,143	1,388	–	0	7,576
Refinery Olefins	0	0	–	200	608	–	–	0	0
Ethylene	–	–	–	–	–	–	–	–	–
Propylene	0	0	–	200	608	–	–	0	0
Normal Butylene	–	–	–	–	–	–	–	–	–
Isobutylene	–	–	–	–	–	–	–	–	–
Unfinished Oils	40	0	0	0	1,311	–	0	20	761
Motor Gasoline Blending Components	6,389	0	0	1,304	1,384	2,163	0	61,031	2,408
Reformulated - RBOB	0	0	0	0	0	–	0	6,235	113
Conventional	6,389	0	0	1,304	1,384	2,163	0	54,796	2,295
CBOB	6,389	0	0	1,304	1,222	2,163	0	54,244	2,195
GTAB	–	–	–	–	–	–	–	–	–
Other	0	0	0	0	162	–	0	552	100
Biofuels (including Fuel Ethanol)	0	0	0	9,644	6,344	487	4,272	0	0
Fuel Ethanol	0	0	0	9,421	6,001	466	3,864	0	0
Biodiesel	0	0	0	222	343	21	408	0	0
Renewable Diesel Fuel	–	0	0	–	0	–	0	–	–
Other Biofuels[2]	–	–	–	–	–	–	–	–	–
Finished Motor Gasoline	45	0	0	420	111	112	0	1,411	538
Reformulated	–	–	–	–	–	–	–	–	–
Reformulated Blended with Fuel Ethanol	–	–	–	–	–	–	–	–	–
Reformulated Other	–	–	–	–	–	–	–	–	–
Conventional	45	0	0	420	111	112	0	1,411	538
Conventional Blended with Fuel Ethanol	–	–	–	–	–	–	–	–	–
Ed55 and Lower	–	–	–	–	–	–	–	–	–
Greater than Ed55	–	–	–	–	–	–	–	–	–
Conventional Other	45	0	0	420	111	112	0	1,411	538
Finished Aviation Gasoline	0	0	–	0	0	–	–	40	25
Kerosene-Type Jet Fuel	369	0	0	153	105	858	0	13,645	1,016
Kerosene	–	–	–	–	–	–	–	–	–
Distillate Fuel Oil	2,487	10	0	1,189	836	641	0	25,331	2,600
15 ppm sulfur and under	2,487	10	0	1,189	784	641	0	25,105	2,472
Greater than 15 ppm to 500 ppm sulfur	0	0	–	–	52	–	–	–	128
Greater than 500 ppm sulfur	–	0	–	0	0	–	–	226	–
Residual Fuel Oil	0	0	–	–	832	–	–	–	0
Petrochemical Feedstocks	0	0	–	–	40	–	–	–	0
Naphtha for Petrochemical Feedstock Use	–	–	–	–	–	–	–	–	–
Other Oils for Petrochemical Feedstock Use	0	0	–	–	40	–	–	–	0
Special Naphthas	0	0	–	–	0	–	–	–	29
Lubricants	0	0	0	0	9	–	0	626	286
Waxes	–	–	–	–	–	–	–	–	–
Marketable Petroleum Coke	0	0	0	101	1,223	7	23	3	25
Asphalt and Road Oil	53	0	0	744	305	70	203	318	159
Miscellaneous Products	0	0	–	–	0	–	–	–	13
Total	**17,567**	**82**	**0**	**20,690**	**115,292**	**19,915**	**7,572**	**106,155**	**34,330**

See footnotes at end of table.

Table 57. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail [1] Between PAD Districts, March 2023
(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**	**24,067**	**1,725**	**0**	**0**	**0**	**0**
Petroleum Products	**8**	**5,263**	**5**	**21,629**	**4,443**	**2,189**	**9**	**183**	**17**
Natural Gas Liquids	0	14	0	20,440	4,134	151	0	0	0
Ethane	0	–	0	6,150	1,339	–	0	0	0
Propane	0	0	0	7,452	1,391	66	0	0	0
Normal Butane	0	7	0	3,077	514	76	0	0	0
Isobutane	0	7	0	1,179	316	9	0	0	0
Natural Gasoline	0	–	0	2,582	574	–	0	0	0
Refinery Olefins	–	–	0	0	0	–	0	0	–
Ethylene	–	–	–	–	–	–	–	–	–
Propylene	–	–	0	0	0	–	0	0	–
Normal Butylene	–	–	–	–	–	–	–	–	–
Isobutylene	–	–	–	–	–	–	–	–	–
Unfinished Oils	–	0	0	0	0	0	0	70	–
Motor Gasoline Blending Components	0	3,139	0	166	0	1,207	0	0	0
Reformulated - RBOB	–	1,521	0	0	0	0	0	0	–
Conventional	0	1,618	0	166	0	1,207	0	0	0
CBOB	0	1,460	0	166	0	1,207	0	0	0
GTAB	–	–	–	–	–	–	–	–	–
Other	–	158	0	0	0	0	0	0	–
Biofuels (including Fuel Ethanol)	0	1,037	0	0	0	112	0	0	0
Fuel Ethanol	0	443	0	0	0	112	0	0	0
Biodiesel	0	15	0	0	0	0	0	0	0
Renewable Diesel Fuel	–	578	–	–	0	0	–	0	–
Other Biofuels[2]	–	–	–	–	–	–	–	–	–
Finished Motor Gasoline	0	0	0	339	0	75	0	0	0
Reformulated	–	–	–	–	–	–	–	–	–
Reformulated Blended with Fuel Ethanol	–	–	–	–	–	–	–	–	–
Reformulated Other	–	–	–	–	–	–	–	–	–
Conventional	0	0	0	339	0	75	0	0	0
Conventional Blended with Fuel Ethanol	–	–	–	–	–	–	–	–	–
Ed55 and Lower	–	–	–	–	–	–	–	–	–
Greater than Ed55	–	–	–	–	–	–	–	–	–
Conventional Other	0	0	0	339	0	75	0	0	0
Finished Aviation Gasoline	–	–	0	0	0	–	0	0	–
Kerosene-Type Jet Fuel	0	235	0	12	0	30	0	0	0
Kerosene	–	–	–	–	–	–	–	–	–
Distillate Fuel Oil	0	734	0	310	0	357	0	0	0
15 ppm sulfur and under	0	734	0	310	0	357	0	0	0
Greater than 15 ppm to 500 ppm sulfur	–	–	–	0	0	–	–	0	–
Greater than 500 ppm sulfur	–	–	0	–	0	–	0	0	–
Residual Fuel Oil	–	–	–	0	0	–	–	0	–
Petrochemical Feedstocks	–	–	–	0	0	–	–	0	–
Naphtha for Petrochemical Feedstock Use	–	–	–	–	–	–	–	–	–
Other Oils for Petrochemical Feedstock Use	–	–	–	0	0	–	–	0	–
Special Naphthas	–	–	–	0	0	–	–	0	–
Lubricants	–	7	0	0	0	0	0	87	–
Waxes	–	–	–	–	–	–	–	–	–
Marketable Petroleum Coke	0	0	0	190	144	101	6	26	6
Asphalt and Road Oil	8	98	5	172	164	157	3	0	10
Miscellaneous Products	–	–	–	0	0	–	–	0	–
Total	**8**	**5,263**	**5**	**45,696**	**6,168**	**2,189**	**9**	**183**	**17**

– = No Data Reported.
[1] Movements of crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil include movements by rail. Movements of other products are by pipeline, tanker and barge only.
[2] Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
Data source: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-817, "Monthly Tanker and Barge Movements Report." Rail net movements estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 58. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, March 2023
(Thousand Barrels)

Commodity	From 1 to		From 2 to			From 3 to			
	2	3	1	3	4	1	2	4	5
Crude Oil	**145**	**18**	**254**	**61,805**	**5,453**	**114**	**15,169**	**0**	**–**
Petroleum Products	**16,617**	**0**	**6,645**	**41,700**	**13,899**	**80,115**	**17,131**	**0**	**3,950**
Natural Gas Liquids	7,327	0	4,507	39,746	10,125	1,742	11,038	0	–
Ethane	5,762	0	412	17,954	2,580	0	1,152	0	–
Propane	930	0	2,349	12,864	3,925	1,742	1,390	0	–
Normal Butane	119	0	1,746	4,176	1,649	0	292	0	–
Isobutane	278	0	0	1,609	583	0	628	0	–
Natural Gasoline	238	0	0	3,143	1,388	0	7,576	0	–
Motor Gasoline Blending Components	6,389	0	779	1,138	2,163	47,292	2,308	0	2,981
Reformulated - RBOB	0	0	0	0	–	6,235	113	–	1,521
Conventional	6,389	0	779	1,138	2,163	41,057	2,195	0	1,460
CBOB	6,389	0	779	1,138	2,163	40,505	2,195	0	1,460
GTAB	–	–	–	–	–	–	–	–	–
Other	–	0	0	0	–	552	–	–	–
Biofuels (including Fuel Ethanol)	–	–	–	–	–	–	–	–	–
Fuel Ethanol	–	–	–	–	–	–	–	–	–
Biodiesel	– –	– –	– –	– –	– –	– –	– –	– –	– –
Renewable Diesel Fuel	– –	– –	– –	– –	– –	– –	– –	– –	– –
Other Biofuels[1]	– –	– –	– –	– –	– –	– –	– –	– –	– –
Finished Motor Gasoline	45	0	390	0	112	997	463	0	0
Reformulated	–	–	–	–	–	–	–	–	–
Reformulated Blended with Fuel Ethanol	–	–	–	–	–	–	–	–	–
Reformulated Other	–	–	–	–	–	–	–	–	–
Conventional	45	0	390	0	112	997	463	0	0
Conventional Blended with Fuel Ethanol	–	–	–	–	–	–	–	–	–
Ed55 and Lower	–	–	–	–	–	–	–	–	–
Greater than Ed55	–	–	–	–	–	–	–	–	–
Conventional Other	45	0	390	0	112	997	463	0	0
Finished Aviation Gasoline	–	–	–	–	–	–	–	–	–
Kerosene-Type Jet Fuel	369	0	127	83	858	9,365	866	0	235
Kerosene	–	–	–	–	–	–	–	–	–
Distillate Fuel Oil	2,487	0	842	733	641	20,719	2,456	0	734
15 ppm sulfur and under	2,487	0	842	733	641	20,575	2,328	0	734
Greater than 15 ppm to 500 ppm sulfur	0	0	–	0	–	–	128	–	–
Greater than 500 ppm sulfur	– –	– –	– –	– –	– –	– –	– –	– –	– –
Residual Fuel Oil	–	–	–	–	–	–	–	–	–
Miscellaneous Products	–	–	–	–	–	–	–	–	–
Total	**16,762**	**18**	**6,899**	**103,505**	**19,352**	**80,229**	**32,300**	**0**	**3,950**

See footnotes at end of table.

Table 58. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, March 2023
(Thousand Barrels) — Continued

Commodity	From 4 to				From 5 to	
	1	2	3	5	3	4
Crude Oil	**0**	**24,067**	**275**	**–**	**0**	**0**
Petroleum Products	**0**	**21,267**	**4,134**	**1,669**	**0**	**0**
Natural Gas Liquids	0	20,440	4,134	–	0	0
Ethane	0	6,150	1,339	–	0	0
Propane	0	7,452	1,391	–	0	0
Normal Butane	0	3,077	514	–	0	0
Isobutane	0	1,179	316	–	0	0
Natural Gasoline	0	2,582	574	–	0	0
Motor Gasoline Blending Components	0	166	0	1,207	0	0
Reformulated - RBOB	0	0	0	0	0	–
Conventional	0	166	0	1,207	0	0
CBOB	0	166	0	1,207	0	0
GTAB	–	–	–	–	–	–
Other	0	–	0	–	0	–
Biofuels (including Fuel Ethanol)	–	–	–	–	–	–
Fuel Ethanol	–	–	–	–	–	–
Biodiesel	– –	– –	– –	– –	– –	– –
Renewable Diesel Fuel	– –	– –	– –	– –	– –	– –
Other Biofuels[1]	– –	– –	– –	– –	– –	– –
Finished Motor Gasoline	0	339	0	75	0	0
Reformulated	–	–	–	–	–	–
Reformulated Blended with Fuel Ethanol	–	–	–	–	–	–
Reformulated Other	–	–	–	–	–	–
Conventional	0	339	0	75	0	0
Conventional Blended with Fuel Ethanol	–	–	–	–	–	–
Ed55 and Lower	–	–	–	–	–	–
Greater than Ed55	–	–	–	–	–	–
Conventional Other	0	339	0	75	0	0
Finished Aviation Gasoline	–	–	–	–	–	–
Kerosene-Type Jet Fuel	0	12	0	30	0	0
Kerosene	–	–	–	–	–	–
Distillate Fuel Oil	0	310	0	357	0	0
15 ppm sulfur and under	0	310	0	357	0	0
Greater than 15 ppm to 500 ppm sulfur	–	0	0	–	0	–
Greater than 500 ppm sulfur	– –	– –	– –	– –	– –	– –
Residual Fuel Oil	–	–	–	–	–	–
Miscellaneous Products	–	–	–	–	–	–
Total	**0**	**45,334**	**4,409**	**1,669**	**0**	**0**

– – = Not Applicable.
– = No Data Reported.
[1] Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
Data source: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report."

Table 59. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, March 2023
(Thousand Barrels)

Commodity	From 1 to			From 2 to		
	2	3	5	1	3	5
Crude Oil	**332**	**0**	**–**	**261**	**123**	**–**
Petroleum Products	**40**	**10**	**0**	**1,185**	**3,324**	**0**
Natural Gas Liquids	–	0	–	0	0	–
Ethane	–	–	–	–	–	–
Propane	–	0	–	0	0	–
Normal Butane	–	–	–	–	–	–
Isobutane	–	–	–	–	–	–
Natural Gasoline	–	–	–	–	–	–
Unfinished Oils	40	0	0	0	1,311	0
Motor Gasoline Blending Components	0	0	0	525	246	0
Reformulated - RBOB	–	–	–	–	–	–
Conventional	0	0	0	525	246	0
CBOB	0	0	–	525	84	–
GTAB	–	–	–	–	–	–
Other	0	0	0	–	162	0
Biofuels (including Fuel Ethanol)	0	0	0	208	525	0
Fuel Ethanol	0	0	–	208	485	–
Biodiesel	0	0	–	–	40	–
Renewable Diesel Fuel	–	0	0	–	0	0
Other Biofuels[1]	–	–	–	–	–	–
Finished Motor Gasoline	0	0	–	30	111	–
Reformulated	–	–	–	–	–	–
Reformulated Blended with Fuel Ethanol	–	–	–	–	–	–
Reformulated Other	–	–	–	–	–	–
Conventional	0	0	–	30	111	–
Conventional Blended with Fuel Ethanol	–	–	–	–	–	–
Ed55 and Lower	–	–	–	–	–	–
Greater than Ed55	–	–	–	–	–	–
Conventional Other	0	0	–	30	111	–
Finished Aviation Gasoline	0	0	–	0	0	–
Kerosene-Type Jet Fuel	0	0	–	26	22	–
Kerosene	–	–	–	–	–	–
Distillate Fuel Oil	0	10	–	347	103	–
15 ppm sulfur and under	0	10	–	347	51	–
Greater than 15 ppm to 500 ppm sulfur	0	0	–	–	52	–
Greater than 500 ppm sulfur	–	0	–	0	0	–
Residual Fuel Oil	0	0	–	–	832	–
Less than 0.31 percent sulfur	0	0	–	–	81	–
0.31 to 1.00 percent sulfur	0	0	–	–	238	–
Greater than 1.00 percent sulfur	0	0	–	–	513	–
Petrochemical Feedstocks	0	0	–	–	40	–
Naphtha for Petrochemical Feedstock Use	–	–	–	–	–	–
Other Oils for Petrochemical Feedstock Use	0	0	–	–	40	–
Special Naphthas	0	0	–	–	0	–
Lubricants	0	0	0	0	9	0
Waxes	–	–	–	–	–	–
Marketable Petroleum Coke	–	–	–	–	–	–
Asphalt and Road Oil	0	0	–	49	125	–
Miscellaneous Products	0	0	–	–	0	–
Total	**372**	**10**	**0**	**1,446**	**3,447**	**0**

See footnotes at end of table.

Table 59. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, March 2023
(Thousand Barrels) — Continued

Commodity	From 3 to						From 5 to		
	1	New England	Central Atlantic	Lower Atlantic	2	5	1	2	3
Crude Oil	**1,650**	**–**	**1,650**	**–**	**0**	**–**	**0**	**0**	**0**
Petroleum Products	**24,008**	**–**	**391**	**23,617**	**1,694**	**743**	**0**	**0**	**157**
Natural Gas Liquids	57	–	–	57	–	–	0	–	0
Ethane	–	–	–	–	–	–	–	–	–
Propane	57	–	–	57	–	–	0	–	0
Normal Butane	–	–	–	–	–	–	–	–	–
Isobutane	–	–	–	–	–	–	–	–	–
Natural Gasoline	–	–	–	–	–	–	–	–	–
Unfinished Oils	20	–	20	–	761	0	0	0	70
Motor Gasoline Blending Components	13,739	–	–	13,739	100	158	0	0	0
Reformulated - RBOB	–	–	–	–	–	–	–	–	–
Conventional	13,739	–	–	13,739	100	158	0	0	0
CBOB	13,739	–	–	13,739	0	–	0	0	0
GTAB	–	–	–	–	–	–	–	–	–
Other	–	–	–	–	100	158	–	0	0
Biofuels (including Fuel Ethanol)	0	–	–	–	0	578	0	0	0
Fuel Ethanol	0	–	–	–	0	–	0	0	0
Biodiesel	–	–	–	–	0	–	–	0	0
Renewable Diesel Fuel	–	–	–	–	–	578	–	–	0
Other Biofuels[1]	–	–	–	–	–	–	–	–	–
Finished Motor Gasoline	414	–	–	414	75	–	0	0	0
Reformulated	–	–	–	–	–	–	–	–	–
Reformulated Blended with Fuel Ethanol	–	–	–	–	–	–	–	–	–
Reformulated Other	–	–	–	–	–	–	–	–	–
Conventional	414	–	–	414	75	–	0	0	0
Conventional Blended with Fuel Ethanol	–	–	–	–	–	–	–	–	–
Ed55 and Lower	–	–	–	–	–	–	–	–	–
Greater than Ed55	–	–	–	–	–	–	–	–	–
Conventional Other	414	–	–	414	75	–	0	0	0
Finished Aviation Gasoline	40	–	–	40	25	–	0	0	0
Kerosene-Type Jet Fuel	4,280	–	–	4,280	150	–	0	0	0
Kerosene	–	–	–	–	–	–	–	–	–
Distillate Fuel Oil	4,612	–	–	4,612	144	–	0	0	0
15 ppm sulfur and under	4,530	–	–	4,530	144	–	0	0	0
Greater than 15 ppm to 500 ppm sulfur	–	–	–	–	0	–	–	0	0
Greater than 500 ppm sulfur	82	–	–	82	–	–	0	–	0
Residual Fuel Oil	–	–	–	–	0	–	–	0	0
Less than 0.31 percent sulfur	–	–	–	–	0	–	–	0	0
0.31 to 1.00 percent sulfur	–	–	–	–	0	–	–	0	0
Greater than 1.00 percent sulfur	–	–	–	–	0	–	–	0	0
Petrochemical Feedstocks	–	–	–	–	0	–	–	0	0
Naphtha for Petrochemical Feedstock Use	–	–	–	–	–	–	–	–	–
Other Oils for Petrochemical Feedstock Use	–	–	–	–	0	–	–	0	0
Special Naphthas	–	–	–	–	29	–	–	0	0
Lubricants	626	–	371	255	286	7	0	0	87
Waxes	–	–	–	–	–	–	–	–	–
Marketable Petroleum Coke	–	–	–	–	–	–	–	–	–
Asphalt and Road Oil	220	–	–	220	111	–	0	0	0
Miscellaneous Products	–	–	–	–	13	–	–	0	0
Total	**25,658**	**–**	**2,041**	**23,617**	**1,694**	**743**	**0**	**0**	**157**

– = No Data Reported.
[1] Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
Data source: Energy Information Administration (EIA) Form EIA-817, "Monthly Tanker and Barge Movements Report."

Table 60. Movements of Crude Oil and Selected Products by Rail Between PAD Districts, March 2023
(Thousand Barrels)

Commodity	From 1 to				From 2 to			
	2	3	4	5	1	3	4	5
Crude Oil	0	0	0	0	255	10	0	2,451
Propane	40	0	0	0	1,188	296	0	363
Propylene	0	0	–	–	200	608	–	–
Normal Butane	123	44	0	0	327	126	0	215
Isobutane	218	10	0	0	143	78	0	46
Fuel Ethanol	0	0	0	0	9,213	5,516	466	3,864
Biodiesel	0	0	0	0	222	303	21	408
Marketable Petroleum Coke	0	0	0	0	101	1,223	7	23
Asphalt and Road Oil	53	0	0	0	695	180	70	203

Commodity	From 3 to				From 4 to			
	1	2	4	5	1	2	3	5
Crude Oil	0	0	0	0	0	0	1,450	0
Propane	167	47	0	0	0	0	0	66
Propylene	0	0	–	–	0	0	0	–
Normal Butane	0	7	0	7	0	0	0	76
Isobutane	0	208	0	7	0	0	0	9
Fuel Ethanol	0	0	0	443	0	0	0	112
Biodiesel	0	0	0	15	0	0	0	0
Marketable Petroleum Coke	3	25	0	0	0	190	144	101
Asphalt and Road Oil	98	48	8	98	5	172	164	157

Commodity	From 5 to			
	1	2	3	4
Crude Oil	0	0	0	0
Propane	0	0	0	0
Propylene	0	0	0	–
Normal Butane	0	0	0	0
Isobutane	0	0	0	0
Fuel Ethanol	0	0	0	0
Biodiesel	0	0	0	0
Marketable Petroleum Coke	6	13	26	6
Asphalt and Road Oil	3	0	0	10

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

Table 61. Movements of Crude Oil by Pipeline, Tanker, Barge and Rail between PAD Districts, March 2023
(Thousand Barrels)

PADD	Pipeline	Tanker and Barge	Rail	Total
From 1 to				
2	145	332	0	477
3	18	0	0	18
4	0	–	0	0
5	–	–	0	0
From 2 to				
1	254	261	255	770
3	61,805	123	10	61,938
4	5,453	–	0	5,453
5	–	–	2,451	2,451
From 3 to				
1	114	1,650	0	1,764
2	15,169	0	0	15,169
4	0	–	0	0
5	–	–	0	0
From 4 to				
1	0	0	0	0
2	24,067	0	0	24,067
3	275	0	1,450	1,725
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.
Data source: Energy Information Administration (EIA) Forms EIA-813, "Monthly Crude Oil Report," EIA-817, "Monthly Tanker and Barge Movements Report." Rail movements estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 62. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge and Rail [1] Between PAD Districts, March 2023
(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	**2,534**	**495**	**2,039**	**39,713**	**70,612**	**-30,899**	**63,681**	**16,933**	**46,748**
Petroleum Products	**124,325**	**17,155**	**107,170**	**57,893**	**92,858**	**-34,966**	**58,044**	**128,822**	**-70,778**
Natural Gas Liquids	8,131	7,762	369	39,448	57,160	-17,711	44,434	13,281	31,154
Ethane	412	5,762	-5,350	13,064	20,946	-7,882	19,293	1,152	18,141
Propane	5,503	970	4,533	9,859	20,986	-11,126	14,551	3,403	11,148
Normal Butane	2,073	286	1,786	3,618	8,239	-4,621	4,860	306	4,554
Isobutane	143	506	-363	2,511	2,458	53	2,013	843	1,170
Natural Gasoline	0	238	-238	10,396	4,531	5,865	3,717	7,576	-3,859
Refinery Olefins	200	0	200	0	808	-808	608	0	608
Ethylene	–	–	–	–	–	–	0	0	–
Propylene	200	0	200	0	808	-808	608	0	608
Normal Butylene	0	0	–	0	0	–	0	0	–
Isobutylene	0	0	–	0	0	–	0	0	–
Unfinished Oils	20	40	-20	801	1,311	-510	1,381	781	600
Motor Gasoline Blending Components	62,335	6,389	55,946	8,963	4,851	4,112	1,384	66,578	-65,194
Reformulated - RBOB	6,235	0	6,235	113	0	113	0	7,869	-7,869
Conventional	56,100	6,389	49,711	8,850	4,851	3,999	1,384	58,709	-57,325
CBOB	55,548	6,389	49,159	8,750	4,689	4,061	1,222	57,899	-56,677
GTAB	0	0	–	–	–	–	0	0	–
Other	552	0	552	100	162	-62	162	810	-648
Biofuels (including Fuel Ethanol)	9,644	0	9,644	0	20,747	-20,747	6,344	1,037	5,308
Fuel Ethanol	9,421	0	9,421	0	19,753	-19,753	6,001	443	5,558
Biodiesel	222	0	222	0	994	-994	343	15	328
Renewable Diesel Fuel	–	–	–	0	0	–	0	578	-578
Other Biofuels[2]	–	–	–	0	0	–	0	0	–
Finished Motor Gasoline	1,831	45	1,786	922	643	279	111	1,949	-1,838
Reformulated	0	0	–	0	0	–	0	0	–
Reformulated Blended with Fuel Ethanol	0	0	–	0	0	–	0	0	–
Reformulated Other	0	0	–	0	0	–	0	0	–
Conventional	1,831	45	1,786	922	643	279	111	1,949	-1,838
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	1,831	45	1,786	922	643	279	111	1,949	-1,838
Finished Aviation Gasoline	40	0	40	25	0	25	0	65	-65
Kerosene-Type Jet Fuel	13,798	369	13,429	1,397	1,116	281	105	14,896	-14,791
Kerosene	0	0	–	0	0	–	0	0	–
Distillate Fuel Oil	26,520	2,497	24,023	5,397	2,666	2,731	846	28,665	-27,819
15 ppm sulfur and under	26,294	2,497	23,797	5,269	2,614	2,655	794	28,311	-27,517
Greater than 15 ppm to 500 ppm sulfur	0	0	–	128	52	76	52	128	-76
Greater than 500 ppm sulfur	226	0	226	0	0	–	0	226	-226
Residual Fuel Oil	0	0	–	0	832	-832	832	0	832
Petrochemical Feedstocks	0	0	–	0	40	-40	40	0	40
Naphtha for Petrochemical Feedstock Use	0	0	–	0	0	–	0	0	–
Other Oils for Petrochemical Feedstock Use	0	0	–	0	40	-40	40	0	40
Special Naphthas	0	0	–	29	0	29	0	29	-29
Lubricants	626	0	626	286	9	277	96	919	-823
Waxes	0	0	–	0	0	–	0	0	–
Marketable Petroleum Coke	111	0	111	228	1,353	-1,125	1,392	29	1,364
Asphalt and Road Oil	1,070	53	1,017	383	1,322	-939	470	582	-112
Miscellaneous Products	0	0	–	13	0	13	0	13	-13
Total	**126,859**	**17,650**	**109,209**	**97,606**	**163,470**	**-65,864**	**121,725**	**145,755**	**-24,030**

See footnotes at end of table.

Table 62. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge and Rail [1] Between PAD Districts, March 2023
(Thousand Barrels) — Continued

Commodity	PAD District 4			PAD District 5		
	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts
Crude Oil	**5,453**	**25,792**	**-20,339**	**2,451**	**0**	**2,451**
Petroleum Products	**14,487**	**28,266**	**-13,779**	**12,574**	**221**	**12,353**
Natural Gas Liquids	10,125	24,725	-14,600	788	0	788
Ethane	2,580	7,489	-4,909	0	0	–
Propane	3,925	8,909	-4,984	429	0	429
Normal Butane	1,649	3,667	-2,018	298	0	298
Isobutane	583	1,504	-921	62	0	62
Natural Gasoline	1,388	3,156	-1,768	0	0	–
Refinery Olefins	0	0	–	0	0	–
Ethylene	–	–	–	–	–	–
Propylene	0	0	–	0	0	–
Normal Butylene	0	0	–	0	0	–
Isobutylene	0	0	–	0	0	–
Unfinished Oils	0	0	–	0	70	-70
Motor Gasoline Blending Components	2,163	1,373	790	4,346	0	4,346
Reformulated - RBOB	–	–	–	1,521	0	1,521
Conventional	2,163	1,373	790	2,825	0	2,825
CBOB	2,163	1,373	790	2,667	0	2,667
GTAB	–	–	–	0	0	–
Other	0	0	–	158	0	158
Biofuels (including Fuel Ethanol)	487	112	376	5,420	0	5,420
Fuel Ethanol	466	112	355	4,419	0	4,419
Biodiesel	21	0	21	423	0	423
Renewable Diesel Fuel	0	0	–	578	0	578
Other Biofuels[2]	0	0	–	0	0	–
Finished Motor Gasoline	112	414	-302	75	0	75
Reformulated	0	0	–	0	0	–
Reformulated Blended with Fuel Ethanol	0	0	–	0	0	–
Reformulated Other	–	–	–	–	–	–
Conventional	112	414	-302	75	0	75
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	112	414	-302	75	0	75
Finished Aviation Gasoline	0	0	–	0	0	–
Kerosene-Type Jet Fuel	858	42	816	265	0	265
Kerosene	0	0	–	0	0	–
Distillate Fuel Oil	641	667	-26	1,091	0	1,091
15 ppm sulfur and under	641	667	-26	1,091	0	1,091
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	–	–	–	–	–	–
Other Oils for Petrochemical Feedstock Use	–	–	–	0	0	–
Special Naphthas	–	–	–	0	0	–
Lubricants	0	0	–	7	87	-80
Waxes	0	0	–	0	0	–
Marketable Petroleum Coke	13	435	-422	124	51	73
Asphalt and Road Oil	87	498	-411	458	13	445
Miscellaneous Products	0	0	–	0	0	–
Total	**19,940**	**54,058**	**-34,118**	**15,025**	**221**	**14,804**

– = No Data Reported.
[1] Movements of crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil include movements by rail. Movements of other products are by pipeline, tanker and barge only.
[2] Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
Data source: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-817, "Monthly Tanker and Barge Movements Report." Rail net movements estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Appendix A

District Descriptions and Maps

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

PAD District I

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

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

Sub-PAD District I

New England: The States of Connecticut, Maine, Massachusetts, NewHampshire, 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.

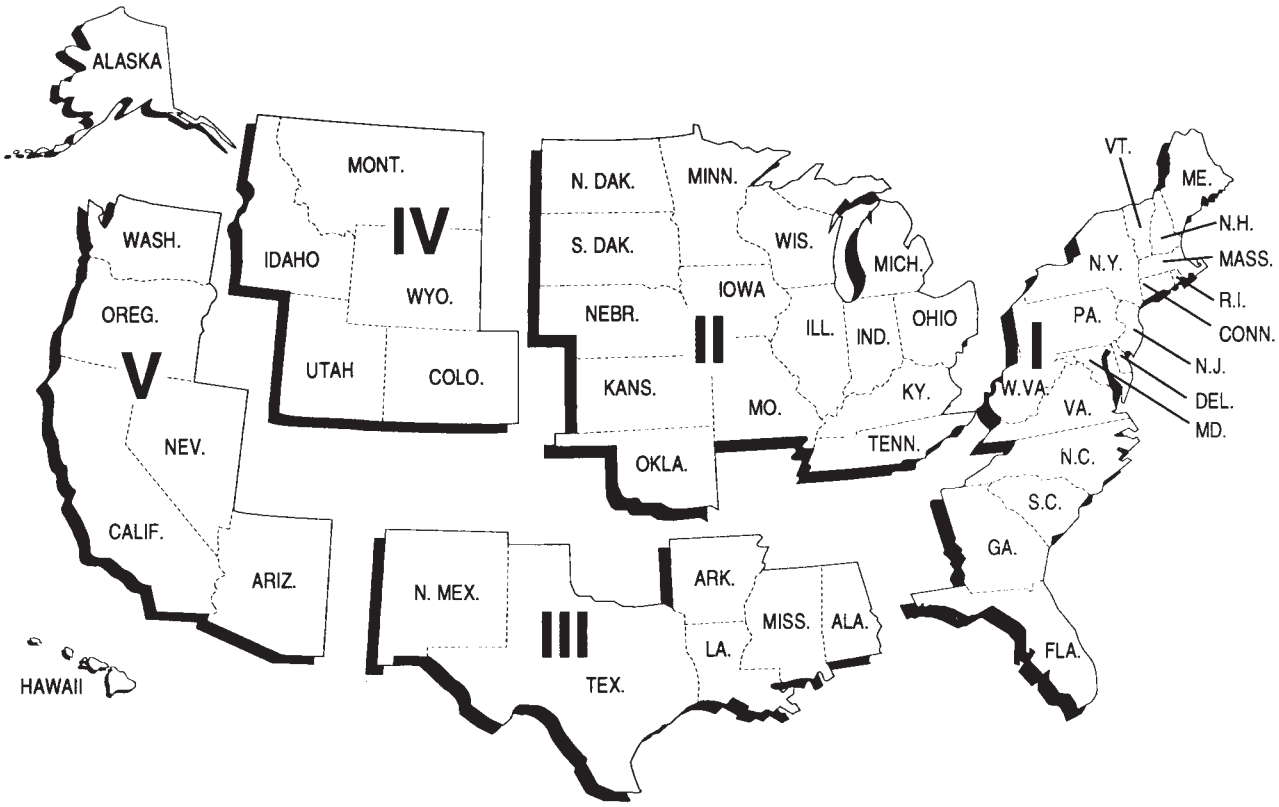
PAD District IV

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

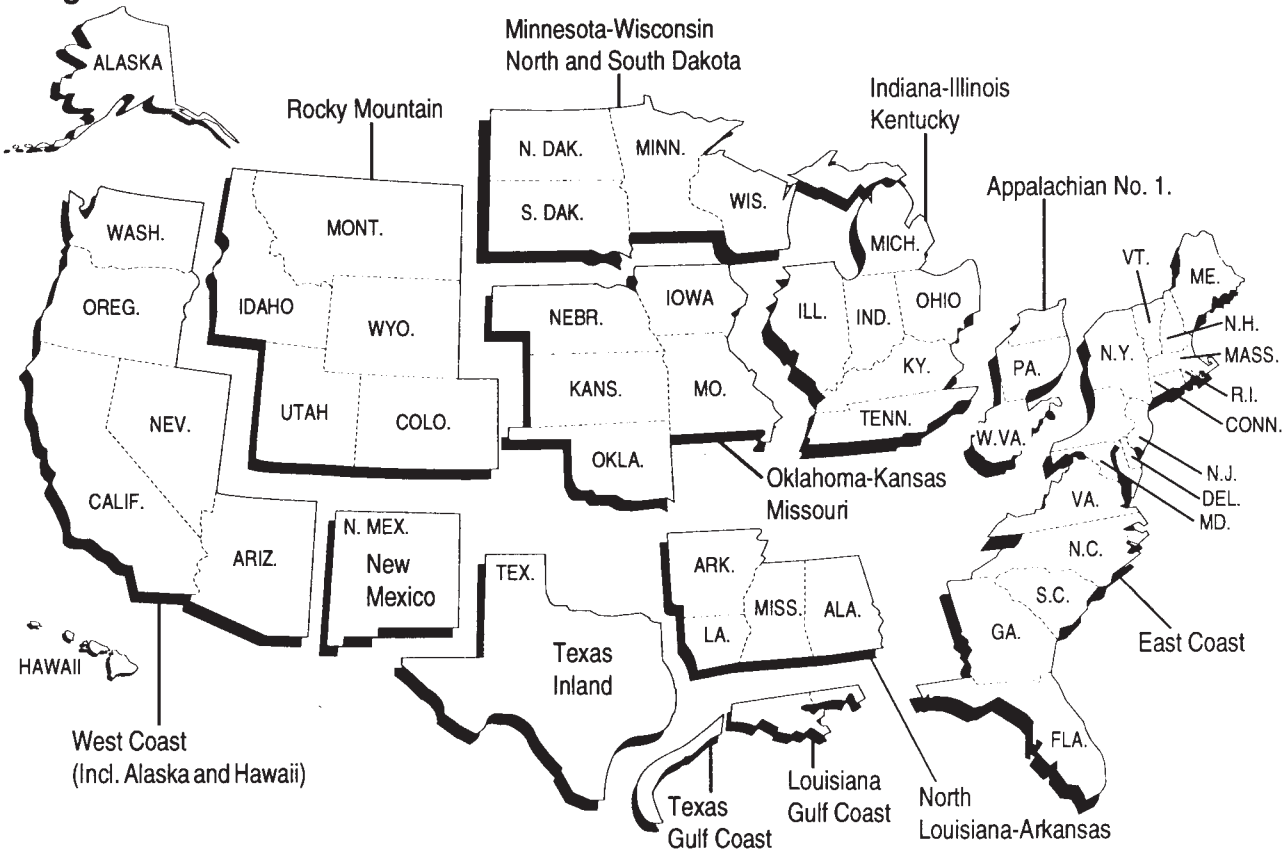
PAD District V

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

Petroleum Administration for Defense (PAD) Districts



Refining Districts



Appendix B. Explanatory Notes

Preface

The *Petroleum Supply Monthly* (PSM) and *Petroleum Supply Annual* (PSA) are reports produced by the Monthly Petroleum Supply Reporting System (MPSRS) operated by the U.S. Energy Information Administration (EIA). The PSM and PSA track supply and disposition of crude oil, hydrocarbon gas liquids, petroleum products, and biofuels.

Data presented in the PSM and PSA describe supply and disposition of crude oil, hydrocarbon gas liquids, petroleum products, and biofuels in the United States, and major U.S. geographic regions with selected data available at the state level. Data describe production, imports, exports, inter-Petroleum Administration for Defense District (PADD) movements, and inventories in the United States (50 States and the District of Columbia). The reporting universe includes operators engaged in primary supply activities including refining, motor gasoline blending, natural gas processing and fractionation, inter-PADD transportation, importers, and major inventory holders. When aggregated, data reported by operators in these sectors are used to derive consumption of petroleum products in the United States.

Monthly and year-to-date data are normally released in the PSM on the last business day of each month. Monthly data are available approximately 60 days after the end of each reference month. Revised monthly data and annual totals and averages are released in the PSA usually at the end of August each year.

Overview

A. The Energy Information Administration's Quality Guidelines

Data contained in the *Petroleum Supply Monthly* (PSM) and *Petroleum Supply Annual* (PSA) are subject to 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 and PSA are used for calculation 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 product barrels from facilities and activities in the "primary" supply chain. Facilities and activities in the primary supply chain include refineries, bulk storage and blending terminals, natural gas processing plants and fractionators, biofuels and oxygenate production plants, imports, exports, , and transportation by pipelines, tankers, barges, and railroads. Total product supplied at the U.S. level is equal to the sum of field production (including production of crude oil and natural gas liquids from natural gas processing plants), refinery and blender net production, biofuels plant net production, imports, and adjustments, minus the sum of stock change, refinery and blender net inputs, and exports. Net receipts are added to supply when product supplied is calculated for Petroleum Administration for Defense Districts (PADD). Crude oil product supplied is zero after September 1997 because crude oil is processed in refineries to produce fuels and other products rather than being used directly as fuel. Data include crude oil used directly as fuel between January 1981 and September 1997.

The secondary supply chain falls between primary supply and end-users. Product barrels typically flow in bulk quantities from primary supply into secondary supply before delivery to consumers. Fuels and other products held by consumers are considered to be in tertiary supply. Secondary supply facilities and activities include storage at bulk plants and retail outlets. Bulk plants are wholesale storage facilities that have less than 50,000 barrels of storage capacity and, as defined by EIA, receive product only by rail or truck, but 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, fuel and nonfuel products held by end users, and certain proprietary storage of raw materials such as propane held at chemical plants for use as ethylene feedstock. EIA includes tertiary stocks of natural gas liquids (ethane, propane, normal butane, isobutane, and natural gasoline) held by storage operators with at least 50,000 barrels of storage capacity and capability to ship barrels by pipeline, tanker, or barge in primary stocks.

There is a delay between the time when barrels are reported as demand measured as product supplied and when the same barrels are actually consumed. The delay is due to the time required for barrels to move from primary supply through secondary and tertiary supply chains and ultimately to end users where the barrels are actually consumed as fuel, feedstock, or for other purposes. Users of demand measured as product supplied should expect product supplied to either anticipate or lag timing of actual petroleum consumption.

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 PADD 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. EIA provides the following discussion to assist with interpretation of supply and disposition tables 1-25. The EIA glossary contains definitions of products and other terms used on tables.

(1.) Supply

a. Field Production - Total Field Production is the sum of crude oil production and natural gas liquids production (NGL) from natural gas processing plants.

Sources of crude oil production data include state government agencies, Department of the Interior, Bureau of Safety and Environmental Enforcement (and predecessor agencies), first purchase data reported on Form EIA-182,"Domestic Crude Oil First Purchase Report", and Form EIA-914 "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report. Refer to "Domestic Crude Oil Production" in Section 2C (1) for further details.

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

b. Biofuels Plant Net Production – biofuels production included fuel ethanol beginning with data for January 2009, biodiesel beginning with data for January 2011, and biofuels (diesel, heating oil, jet, naphtha, gasoline, and other biofuels and biointermediates) beginning with data for January 2021. EIA included production of fuel oxygenates (ethyl tertiary butyl ether (ETBE), methyl tertiary butyl ether (MTBE), and other fuel oxygenates) as a component of the petroleum balance from January 2009 until December 2018. This supply category also includes net production of non-biofuel products, including petroleum-derived gasoline, distillate fuel oil, jet fuel, and kerosene and natural gas liquids, blended with biofuels as denaturants or for other purposes at biofuel producing plants. Negative production indicates the amount of a product produced during the month was less than the amount of that same product reported as input during the same month.

c. Refinery and Blender Net Production – Refinery and Blender Net Production is reported on Forms EIA-810 and EIA-815. Refinery and Blender Net Production equals refinery and blenders production minus refinery and blender 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 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 62.

f. Adjustments – This column includes adjustment quantities for crude oil, fuel ethanol, motor gasoline blending components, hydrogen, and "other" hydrocarbons. EIA calculates adjustment quantities to balance supply and disposition or to reclassify one product to another product. EIA calculates product supplied as the balancing item for most products and a measure of implied demand for petroleum products. EIA uses adjustments as balance items 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, biofuels 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. Adjustment calculations that balance supply and disposition equal disposition minus supply for the U.S. and for each PAD District. EIA discontinued reporting adjustment quantities for non-fuel ethanol biofuels and distillate fuel oil beginning with data for January 2021. Beginning with data for January 2021, EIA uses product supplied as the balance quantity for biofuels excluding fuel ethanol.

(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, hydrocarbon gas liquids, hydrogen, biofuels, and other hydrocarbons) 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).

Refinery and blender input of natural gas liquids equal gross input of natural gas liquids received from natural gas plants for blending and processing.

Inputs of unfinished oils, motor gasoline blending components, and aviation gasoline blending components are published on a net basis (i.e., refinery and blender input minus refinery and blender 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 a calculated measure of demand equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, (plus net receipts when calculated by PADD), plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

Product supplied values indicate 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 PADD basis, the figure for net receipts was inaccurate because the coverage of inter-PADD 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. unfinished oils received at refineries for processing from petrochemical plants).

EIA reported crude oil burned as fuel on leases and by pipelines as either distillate or residual fuel oil product supplied prior to January 1983. EIA reported crude oil product supplied equal to crude oil used directly as reported on Form EIA-813 "Monthly Crude Oil Report" from January 1983 through December 2009. EIA discontinued reporting crude oil used directly 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 midnight on the last day of each month. Primary stocks include crude oil, hydrocarbon gas liquids, biofuels, and petroleum products held in storage at refineries, natural gas processing plants, pipelines, tank farms, biofuel production plants, and bulk terminals. Ending stocks also include stocks in transit by rail, truck, and water reported at destination facilities. EIA primary stocks include NGL (ethane, propane, normal butane, isobutane, and natural gasoline) held by end-user storage operators (i.e. tertiary storage) with at least 50,000 barrels of storage capacity and capability to ship barrels by pipeline, tanker.

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 (except stocks of NGL held by end users with storage capacity of at least 50,000 barrels and capability to ship NGL by pipeline, tanker, or barge) held by consumers. EIA excludes product stocks held as reserves by federal and state agencies are excluded from primary stock quantities reported in the PSM and PSA, but EIA provides stock quantities held in selected government reserves in Appendix D.

Primary stocks of crude oil included barrels held on crude oil 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 on eia.gov were revised beginning with data for January 2005 to exclude lease stocks. Data may be accessed from the following locations on the EIA web site.

http://www.eia.gov/dnav/pet/pet_sum_snd_d_nus_mbbl_m_cur.htm
http://www.eia.gov/dnav/pet/pet_sum_crdsnd_k_m.htm
http://www.eia.gov/dnav/pet/pet_stoc_typ_c_nus_EPC0_mbbl_m.htm

2. Components - Forms Discussions

The data presented in the *PSM* include data collected by the EIA on nine monthly petroleum supply surveys, export data obtained from the U. S. Bureau of the Census, and crude production data collected on Form EIA-914 as well as production data 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 hydrocarbon 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 six weekly surveys. The MPSRS includes eight monthly surveys and one annual survey. The survey forms that comprise the PSRS are:

1. EIA-800, "Weekly Refinery and Fractionator 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 Bulk Terminal Report,"
6. EIA-809, "Weekly Oxygenate Report,"
7. EIA-22M, "Monthly Biodiesel Production Survey," (discontinued effective with data for October 2020)
8. EIA-810, "Monthly Refinery Report,"
9. EIA-812, "Monthly Product Pipeline Report,"
10. EIA-813, "Monthly Crude Oil Report,"
11. EIA-814, "Monthly Imports Report,"
12. EIA-815, "Monthly Bulk Terminal Report."
13. EIA-816, "Monthly Natural Gas Liquids Report"
14. EIA-817, "Monthly Tanker and Barge Movement Report"
15. EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene" (formerly "Monthly Oxygenate Report")
16. EIA-820, "Annual Refinery Report."

EIA administers weekly and monthly surveys at six key points along the petroleum and biofuel 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 plants producing biofuels and fuel oxygenates. EIA also collects inter-PADD movements by pipelines, tankers, and barges using monthly surveys. Weekly surveys do not capture petroleum movements. EIA selects a sample of operators reporting on monthly surveys to also report

on weekly 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:
https://www.eia.gov/survey/

Form EIA-22M "Monthly Biodiesel Production Survey" collected 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 until data for September 2020. EIA discontinued Form EIA-22M effective with data for October 2020, and incorporated data previously collected on Form EIA-22M into Form EIA-819 "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene.

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 an annual basis.

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.

Form EIA-813, "Monthly Crude Oil Report," collects data on end-of-month stock levels of crude oil held in pipelines, and at tank farms operated by the reporting company, and Alaskan crude oil in transit by water. Data are reported by PADD including stocks held in the 50 states and the District of Columbia. In addition to stocks, EIA uses Form EIA-813 to collect inter-PADD movements of crude oil by pipeline. EIA collects movements for shipping and receiving PADDs with no intermediate PADD movements. EIA uses Form EIA-813 to collect annual storage capacity in data for the month of March.

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 and unfinished oils only.

Form EIA-815, "Monthly Bulk Terminal 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 an annual basis.

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.

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.

Form EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane and Isooctene" collects facility-level data on oxygenate inputs, production, gasoline blending at ethanol plants, and end-of-month stocks. Beginning in October 2020 it also collects facility-level data on biodiesel and biofuels production and blending and end-of-month stocks. Plant operators report end-of-month stocks on site on a custody basis regardless of ownership as well as stocks in transit by rail, truck, and water to their plants.

(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" included operators of plants that produce biodiesel meeting ASTM D 6751-07B specifications and used for commercial purposes. EIA discontinued using Form EIA-22M in October 2020 and replaced it with data collected on Form EIA-819 "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene".

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 Bulk Terminal 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 Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene" include all operators of facilities that produce (manufacture or distill) fuel alcohol, biodiesel, renewable diesel, heating oil, jet fuel, naphtha, gasoline and other biofuels and biointermediates, isooctane, isooctene and fuel oxygenates other than fuel alcohol (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 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. Where possible, EIA uses imputed values to account for activity when a company fails to file. Depending on the survey, imputed values may be estimates based on weekly reports, estimates equal to prior-month reported quantities, or estimates based on non-survey data (e.g. imports quantities may be imputed using data provided to EIA by U.S. Customs and Border Protection). Imputation normally accounts for very small quantities in published totals because response rates to monthly surveys tend to be very high, typically exceeding 98 percent calculated as total reports received divided by total reports expected.

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

EIA compares data reported by individual companies and plants on monthly and weekly surveys. EIA uses these comparisons to identify cases where reporting companies responded differently to the same or similar questions on weekly and monthly surveys and then works with reporting companies to identify and address inconsistent or erroneous reporting on surveys. EIA also compares aggregate and other data with external sources in order to identify and correct potential errors in reporting or survey methodology. EIA makes additional comparisons of survey data with model results. EIA may use imputation to correct known and/or suspected errors in data reported in the Petroleum Supply Monthly and Petroleum Supply Annual.

(7.) Dissemination

In most cases, EIA releases *PSM* data 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 in HTML format on eia.gov. 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 data can be accessed at: http://www.eia.gov/petroleum/data.cfm

C. Derived Data

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

(1.) Domestic Crude Oil Production

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

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

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

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

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

The volume of crude oil, ethanol, biodiesel, renewable diesel, propane, propylene, normal butane, isobutane, petroleum coke, and asphalt 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-914 survey starting in January 2015, and an estimation procedure developed by EIA for months in which these data are not available.

Additional data from the NEB, OGSM, and the EIA-914 are used for estimating factors for converting carloads to barrels of crude oil. Carloads of ethanol, biodiesel, renewable diesel, propane, propylene, normal butane, isobutane, petroleum coke, and asphalt are converted to barrels using data from the CWS.

The most current monthly STB waybill sample may not be received with sufficient lead time to be processed and included in the PSM publication. Further, STB aggregates and provides waybills based on the accounting period, while EIA is interested in the waybill date, which can differ by several months from the accounting period. In addition, waybills from non-Class I railroads might only be included in the sample for the last month of a calendar quarter. As a result, EIA may estimate anywhere from one to three months of rail movements, relying on historical averages or near-month model estimates for those months to be published in the PSM for which incomplete or no STB data are available.

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 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 data html 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 Liquids (NGL) Adjustment

The TAPS-NGPL adjustment corrects for overstatement of crude oil receipts and input at refineries due to NGL 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-NGL adjustment subtracts Alaskan NGPL production reported by selected gas processing plant operators from crude oil receipts and inputs reported by refiners. Adjusted NGL production is added to refinery receipts and inputs of NGPL. The adjusted NGL barrels are allocated to PAD Districts based on the regional distribution of receipts of Alaskan crude oil. Data most affected by the TAPS- NGL adjustment are receipts and inputs of crude oil in PAD District 5 and receipts, inputs, and product supplied of butane and natural gasoline also in PAD District 5.

NGPL injections into crude oil transported in the TAPS started in 1987. The TAPS-NGL 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 PADD. 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 PADD. 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 PADD. 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 PADD. For example, if the fuel ethanol blend ratio calculated from survey data was 10% in a PADD, then the total adjustment quantity of finished conventional motor gasoline in that PADD 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 PADD.

(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 biofuels plant net production (i.e. motor gasoline blending components use as denaturant for fuel ethanol production). Adjustment quantities by PADD equal the sum of stock change, refinery and blender net input, and exports minus the sum of imports, biofuels 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.) Biofuels including Fuel Ethanol Adjustment

For data prior to January 2021, adjustment quantities for biofuels (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 biofuels plant net production and imports. Calculation of adjustment quantities by PADD depend on the product. Individual products include fuel ethanol, biodiesel, renewable diesel fuel, and other biofuels (e.g. bio-jet fuel). Product supplied for biofuels (including fuel ethanol) is assumed equal to zero. Adjustments for fuel ethanol and "other" biofuels are discussed separately below. Beginning with data for January 2021, EIA discontinued calculating adjustment quantities for biodiesel, renewable diesel fuel, and other biofuels (e.g. bio-jet fuel). EIA now includes these adjustment quantities as product supplied.

- 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 biofuels plant net production and imports. Adjustment quantities by PADD equal the sum of stock change, refinery and blender net input, and exports minus the sum of imports, biofuels plant net production, and net receipts. 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 "biofuels (exluding fuel ethanol)" includes biodiesel, renewable diesel fuel, and other biofuels (e.g. bio-jet fuel). For PSM data prior to January 2012, EIA calculated adjustment quantities for biofuels (excluding fuel ethanol) at the U.S. and PADD levels equal to the sum of stock change, refinery and blender net input, and exports minus imports. Data for production of Biofuels (excluding Fuel Ethanol) was unavailable and was excluded from Biofuels Plant Net Production. Therefore the calculation of adjustments to Biofuels (excluding Fuel Ethanol) caused production to be included in the adjustment. Similarly, the calculation caused net inter-PADD movements (i.e. net receipts) by rail and truck to also be included in adjustments to biofuels (excluding fuel ethanol).

  Beginning with PSM data for January 2012, and PSA data for 2011 through December, 2020 production of biodiesel reported on Form EIA-22M was included under the heading of "biofuels plant net production" in petroleum supply and disposition balances for "biofuels (excluding fuel ethanol)". As a result, the adjustment for "biofuels (excluding fuel ethanol)" excludes production of biodiesel beginning with data for January 2012. Beginning with data for January 2010 EIA included rail movements of biodiesel in inter-PADD movements, and so rail movements were excluded from adjustment quantities.

- For data prior to January 2021, 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 biofuels plant net production and imports. Adjustment quantities by PADD equal the sum of stock change, refinery and blender net input, and exports minus the sum of imports, biofuels plant net production, and net receipts. 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. EIA discontinued calculating biodiesel and distillate fuel oil adjustment quantities beginning with data for January 2021. EIA now includes barrels of biodiesel formerly reported in adjustment quantities as product supplied of biofuels (excluding fuel ethanol).

  Beginning with PSM data for January 2021, EIA included production of renewable diesel, heating oil, jet

fuel, naphtha, gasoline, and other biofuels and biointermediates reported on Form EIA-819 under the heading of "biofuels plant net production" in petroleum supply and disposition balances for "biofuels (excluding fuel ethanol)". EIA now reports barrels formerly included in adjustment quantities as product supplied.

(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.

For PSM data from January 2012 and PSA data from January 2011 through December 2020, EIA calculated distillate fuel oil adjustments equal to the opposite of biodiesel adjustment quantities described above in section 8. EIA added biodiesel adjustment quantities to supply of distillate fuel oil (15 ppm sulfur and under) and total distillate fuel oil. EIA assumed that distillate fuel oil adjustment quantities reflected biodiesel blending activity implied by biodiesel supply and disposition but not reported on surveys. Beginning with data for January 2021, EIA discontinued calculating and reporting distillate fuel oil adjustment quantities.

(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 biofuels 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). Beginning with *PSA* data for 2019, EIA excluded oxygenates supply and disposition from U.S. and regional balance tables.

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 petroleum data tables (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 petroleum data tables.

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. In addition, biofuel production capacity data reported on Form EIA-819 and Form EIA-22M will be released in company identifiable form. Refinery distillation capacity collected on Form EIA-810 also may be released in company identifiable form. EIA releases annual refinery input and production capacities in company identifiable form each year in the Annual Refinery Capacity Report.

Except as described above, information reported on Forms EIA-810 through 813, 815 through 817, 819, 820, and 22M 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 aggregated and published from these survey's information. Thus, there may be some statistics that are based on data from fewer than three respondents, or that are dominated by data from one or two large respondents. In these cases, it may be possible for a knowledgeable person to estimate the information reported by a specific respondent.

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

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

Appendix D

Northeast Reserves

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

Information on the Northeast Reserves is available from the U.S. Department of Energy Office of Petroleum Reserves web site at http://energy.gov/fe/services/petroleum-reserves.

The Northeast Home Heating Oil Reserve is a one million barrel supply of ultra low sulfur distillate (diesel/heating oil) for homes and businesses in the northeastern United States, a region heavily dependent upon the use of heating oil.

The Northeast Gasoline Supply Reserve is a one million barrel supply of seasonally adjusted, regionally appropriate supply of gasoline for consumers in the northeastern United States.

	Northeast Home Heating Oil Reserve Distillate Fuel Oil, 15 ppm Sulfur and Under (Thousand Barrels)				Northeast Gasoline Supply Reserve Motor Gasoline Products (Thousand Barrels)		
	Connecticut	New Jersey	Maine	Massachusetts	New Jersey	Maine	Massachusetts
Jan-23	300	300	200	201	900	99	
Feb-23	300	300	200	201	900	99	
Mar-23	300	300	200	201	900	99	
Apr-23							
May-23							
Jun-23							
Jul-23							
Aug-23							
Sep-23							
Oct-23							
Nov-23							
Dec-23							

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/

New York State Strategic Fuel Reserve

(Thousand Barrels)

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, Petroleum Supply Annual and This Week In Petroleum.

	Motor Gasoline Blending Components	Fuel Ethanol	Distillate Fuel Oil, 15 ppm Sulfur and Under	NY Total
Jan-23	83	9	34	126
Feb-23	83	9	34	126
Mar-23	83	9	34	126
Apr-23				
May-23				
Jun-23				
Jul-23				
Aug-23				
Sep-23				
Oct-23				
Nov-23				
Dec-23				

Source: New York State Energy Research & Development Authority