

Table 36. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, January 2022
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	275	36	0	1,406	56,230	6,864	1,817	1,674	12,832
Petroleum Products	14,686	29	0	21,514	45,657	12,500	4,204	106,339	18,009
Natural Gas Liquids	6,565	17	0	7,009	31,487	8,793	963	2,759	10,792
Ethane	4,811	0	0	0	15,354	2,473	—	0	1,370
Propane	883	2	0	5,341	9,743	3,322	205	2,680	1,994
Normal Butane	265	1	0	1,556	2,660	1,382	734	69	672
Isobutane	372	14	0	112	1,226	495	24	11	1,219
Natural Gasoline	235	0	—	0	2,504	1,121	—	0	5,537
Refinery Olefins	0	0	—	311	603	—	—	0	0
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	0	0	—	311	603	—	—	0	0
Normal Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	21	0	—	0	1,188	—	—	0	160
Motor Gasoline Blending Components	5,277	0	0	1,132	2,030	1,890	0	57,583	2,922
Reformulated - RBOB	0	0	0	0	370	—	0	6,648	625
Conventional	5,277	0	0	1,132	1,660	1,890	0	50,935	2,297
CBOB	5,277	0	0	1,132	1,272	1,890	0	50,206	2,247
GTAB	—	—	—	—	—	—	—	—	—
Other	0	0	—	0	388	—	—	729	50
Biofuels (including Fuel Ethanol)	3	0	0	10,323	6,058	361	3,020	226	0
Fuel Ethanol	0	0	0	10,041	5,705	350	2,738	220	0
Biodiesel	3	0	0	283	353	11	283	6	0
Renewable Diesel Fuel	—	—	—	—	—	—	—	—	—
Other Biofuels ²	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	43	0	0	874	377	99	0	3,069	358
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	43	0	0	874	377	99	0	3,069	358
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	43	0	0	874	377	99	0	3,069	358
Finished Aviation Gasoline	0	0	—	0	0	—	—	31	42
Kerosene-Type Jet Fuel	268	0	0	98	0	775	0	12,364	1,405
Kerosene	13	0	0	0	0	—	—	81	0
Distillate Fuel Oil	2,450	0	0	1,043	1,060	572	0	29,376	1,917
15 ppm sulfur and under	2,450	0	0	1,043	1,060	572	0	28,353	1,782
Greater than 15 ppm to 500 ppm sulfur	0	0	—	0	0	—	—	—	135
Greater than 500 ppm sulfur	—	0	—	0	0	—	—	1,023	—
Residual Fuel Oil	0	0	—	0	1,028	—	—	92	0
Petrochemical Feedstocks	0	0	—	—	64	—	—	—	0
Naphtha for Petrochemical Feedstock Use	0	0	—	—	42	—	—	—	0
Other Oils for Petrochemical Feedstock Use	0	0	—	—	22	—	—	—	0
Special Naphthas	0	0	—	—	0	—	—	—	43
Lubricants	0	0	—	39	20	—	—	502	254
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	12	0	75	1,510	10	75	3	26
Asphalt and Road Oil	46	0	0	611	232	0	146	253	81
Miscellaneous Products	0	0	—	—	0	—	—	—	9
Total	14,961	65	0	22,920	101,887	19,364	6,021	108,013	30,841

See footnotes at end of table.

Table 36. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail¹ Between PAD Districts, January 2022
(Thousand Barrels) — Continued

Commodity	From 3 to		From 4 to				From 5 to			
	4	5	1	2	3	5	1	2	3	4
Crude Oil	0	19	0	25,799	422	0	0	0	0	0
Petroleum Products	0	5,042	0	19,676	4,866	2,775	3	33	52	49
Natural Gas Liquids	0	213	0	18,401	4,527	605	0	0	0	0
Ethane	0	—	0	5,531	1,969	—	0	0	0	0
Propane	0	0	0	6,719	1,210	408	0	0	0	0
Normal Butane	0	138	0	2,753	356	159	0	0	0	0
Isobutane	0	75	0	1,094	416	39	0	0	0	0
Natural Gasoline	0	—	0	2,304	576	—	0	0	0	0
Refinery Olefins	—	—	0	0	0	—	0	0	0	—
Ethylene	—	—	—	—	—	—	—	—	—	—
Propylene	—	—	0	0	0	—	0	0	0	—
Normal Butylene	—	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—	—
Unfinished Oils	—	—	0	0	0	—	0	0	0	—
Motor Gasoline Blending Components	0	3,131	0	184	0	1,360	0	0	0	0
Reformulated - RBOB	—	1,689	0	0	0	0	0	0	0	—
Conventional	0	1,442	0	184	0	1,360	0	0	0	0
CBOB	0	1,442	0	184	0	1,360	0	0	0	0
GTAB	—	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	0	—	0	0	0	—
Biofuels (including Fuel Ethanol)	0	334	0	0	0	91	0	0	0	3
Fuel Ethanol	0	268	0	0	0	91	0	0	0	0
Biodiesel	0	67	0	0	0	0	0	0	0	3
Renewable Diesel Fuel	—	—	—	—	—	—	—	—	—	—
Other Biofuels ²	—	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	480	0	83	0	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	480	0	83	0	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	480	0	83	0	0	0	0
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	0	—
Kerosene-Type Jet Fuel	0	244	0	12	0	17	0	0	0	0
Kerosene	—	—	0	0	0	—	0	0	0	—
Distillate Fuel Oil	0	1,029	0	408	0	430	0	0	0	0
15 ppm sulfur and under	0	1,029	0	408	0	430	0	0	0	0
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	0	0	—
Petrochemical Feedstocks	—	—	—	0	0	—	—	0	0	—
Naphtha for Petrochemical Feedstock Use	—	—	—	0	0	—	—	0	0	—
Other Oils for Petrochemical Feedstock Use	—	—	—	0	0	—	—	0	0	—
Special Naphthas	—	—	—	0	0	—	—	0	0	—
Lubricants	—	—	0	0	0	—	0	0	0	—
Waxes	—	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	6	0	161	148	3	3	33	52	13
Asphalt and Road Oil	0	84	0	30	190	185	0	0	0	33
Miscellaneous Products	—	—	—	0	0	—	—	0	0	—
Total	0	5,062	0	45,475	5,287	2,775	3	33	52	49

— = 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.

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

Table 36. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, February 2022
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	272	21	0	1,050	47,632	6,020	1,672	1,345	11,660
Petroleum Products	14,046	10	3	18,238	42,568	11,323	4,568	96,555	17,153
Natural Gas Liquids	6,194	7	0	6,117	28,126	8,078	603	2,390	10,794
Ethane	4,468	0	—	0	13,212	2,162	—	0	1,259
Propane	888	0	0	4,619	9,046	3,150	219	2,361	2,160
Normal Butane	191	3	0	1,376	2,649	1,289	343	29	482
Isobutane	425	3	0	122	1,092	461	42	0	1,294
Natural Gasoline	223	0	—	0	2,127	1,016	—	0	5,599
Refinery Olefins	0	0	—	214	520	—	—	0	0
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	0	0	—	214	520	—	—	0	0
Normal Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	21	0	—	0	929	—	—	50	128
Motor Gasoline Blending Components	5,085	0	0	1,085	2,208	1,486	0	50,739	2,933
Reformulated - RBOB	0	0	0	0	206	—	0	6,440	375
Conventional	5,085	0	0	1,085	2,002	1,486	0	44,299	2,558
CBOB	5,085	0	0	1,085	1,842	1,486	0	43,644	2,432
GTAB	—	—	—	—	—	—	—	—	—
Other	0	0	—	0	160	—	—	655	126
Biofuels (including Fuel Ethanol)	15	0	3	7,188	7,486	282	3,770	6	0
Fuel Ethanol	0	0	0	6,998	7,185	259	3,540	0	0
Biodiesel	15	0	3	190	301	23	231	6	0
Renewable Diesel Fuel	—	0	0	—	0	—	0	—	—
Other Biofuels ²	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	43	0	0	1,035	125	84	0	2,410	227
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	43	0	0	1,035	125	84	0	2,410	227
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	43	0	0	1,035	125	84	0	2,410	227
Finished Aviation Gasoline	0	0	—	0	0	—	—	125	12
Kerosene-Type Jet Fuel	268	0	0	86	30	528	0	12,401	1,426
Kerosene	13	0	—	0	0	—	—	81	0
Distillate Fuel Oil	2,371	0	0	1,299	1,449	852	0	27,553	1,224
15 ppm sulfur and under	2,371	0	0	1,299	1,449	852	0	26,513	1,170
Greater than 15 ppm to 500 ppm sulfur	0	0	—	0	0	—	—	—	54
Greater than 500 ppm sulfur	—	0	—	0	0	—	—	1,040	—
Residual Fuel Oil	0	0	—	0	550	—	—	80	0
Petrochemical Feedstocks	0	0	—	—	84	—	—	—	10
Naphtha for Petrochemical Feedstock Use	0	0	—	—	84	—	—	—	0
Other Oils for Petrochemical Feedstock Use	0	0	—	—	0	—	—	—	10
Special Naphthas	0	0	—	—	0	—	—	—	30
Lubricants	0	0	—	0	0	—	—	447	202
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	3	0	522	659	3	36	6	13
Asphalt and Road Oil	36	0	0	691	402	10	158	266	143
Miscellaneous Products	0	0	—	—	0	—	—	—	11
Total	14,318	31	3	19,288	90,200	17,343	6,240	97,900	28,813

See footnotes at end of table.

Table 36. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail¹ Between PAD Districts, February 2022
(Thousand Barrels) — Continued

Commodity	From 3 to		From 4 to				From 5 to			
	4	5	1	2	3	5	1	2	3	4
Crude Oil	0	32	0	22,350	587	0	0	0	0	0
Petroleum Products	0	4,820	0	18,181	4,776	2,572	7	7	42	18
Natural Gas Liquids	0	228	0	17,133	4,543	628	0	0	0	0
Ethane	0	—	0	5,181	1,948	—	0	0	0	0
Propane	0	0	0	6,266	1,229	313	0	0	0	0
Normal Butane	0	94	0	2,562	367	228	0	0	0	0
Isobutane	0	133	0	1,015	422	87	0	0	0	0
Natural Gasoline	0	—	0	2,109	577	—	0	0	0	0
Refinery Olefins	—	—	0	0	0	—	0	0	0	—
Ethylene	—	—	—	—	—	—	—	—	—	—
Propylene	—	—	0	0	0	—	0	0	0	—
Normal Butylene	—	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—	—
Unfinished Oils	—	—	0	0	0	—	0	0	0	—
Motor Gasoline Blending Components	0	3,112	0	178	0	1,209	0	0	0	0
Reformulated - RBOB	—	1,593	0	0	0	0	0	0	0	—
Conventional	0	1,519	0	178	0	1,209	0	0	0	0
CBOB	0	1,519	0	178	0	1,209	0	0	0	0
GTAB	—	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	0	—	0	0	0	—
Biofuels (including Fuel Ethanol)	0	583	0	0	0	65	0	0	0	0
Fuel Ethanol	0	297	0	0	0	65	0	0	0	0
Biodiesel	0	30	0	0	0	0	0	0	0	0
Renewable Diesel Fuel	—	255	—	—	0	0	—	—	0	—
Other Biofuels ²	—	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	398	0	68	0	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	398	0	68	0	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	398	0	68	0	0	0	0
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	0	—
Kerosene-Type Jet Fuel	0	123	0	30	0	2	0	0	0	0
Kerosene	—	—	0	0	0	—	0	0	0	—
Distillate Fuel Oil	0	728	0	389	0	339	0	0	0	0
15 ppm sulfur and under	0	728	0	389	0	339	0	0	0	0
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	0	0	—
Petrochemical Feedstocks	—	—	—	0	0	—	—	0	0	—
Naphtha for Petrochemical Feedstock Use	—	—	—	0	0	—	—	0	0	—
Other Oils for Petrochemical Feedstock Use	—	—	—	0	0	—	—	0	0	—
Special Naphthas	—	—	—	0	0	—	—	0	0	—
Lubricants	—	—	0	0	0	—	0	0	0	—
Waxes	—	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	0	0	6	110	35	7	7	39	13
Asphalt and Road Oil	0	47	0	47	124	225	0	0	3	5
Miscellaneous Products	—	—	—	0	0	—	—	0	0	—
Total	0	4,853	0	40,531	5,363	2,572	7	7	42	18

— = 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.

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

Table 36. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, March 2022
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	333	25	0	1,924	55,966	6,922	2,831	2,625	19,766
Petroleum Products	16,713	18	0	22,414	48,321	14,041	4,365	102,582	16,225
Natural Gas Liquids	6,777	0	0	7,703	35,669	10,153	485	1,523	10,073
Ethane	4,937	0	0	0	17,206	3,206	—	0	1,390
Propane	912	0	0	5,755	10,740	3,702	216	1,516	1,697
Normal Butane	305	0	0	1,774	3,979	1,503	191	7	402
Isobutane	388	0	0	174	1,367	541	78	0	1,145
Natural Gasoline	235	0	—	0	2,377	1,201	—	0	5,438
Refinery Olefins	0	0	—	367	515	—	—	0	0
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	0	0	—	367	515	—	—	0	0
Normal Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	0	0	—	0	1,639	—	—	60	729
Motor Gasoline Blending Components	6,327	0	0	1,506	1,834	1,916	0	57,469	2,352
Reformulated - RBOB	0	0	0	0	113	—	0	7,394	365
Conventional	6,327	0	0	1,506	1,721	1,916	0	50,075	1,987
CBOB	6,327	0	0	1,506	1,572	1,916	0	48,672	1,845
GTAB	—	—	—	—	—	—	—	—	—
Other	0	0	—	0	149	—	—	1,403	142
Biofuels (including Fuel Ethanol)	0	0	0	9,098	5,678	397	3,621	26	0
Fuel Ethanol	0	0	0	8,809	5,319	377	3,348	26	0
Biodiesel	0	0	0	289	359	20	273	0	0
Renewable Diesel Fuel	—	0	0	—	0	—	0	—	—
Other Biofuels ²	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	79	0	0	919	0	109	0	2,625	185
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	79	0	0	919	0	109	0	2,625	185
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	79	0	0	919	0	109	0	2,625	185
Finished Aviation Gasoline	—	0	—	0	0	—	—	37	—
Kerosene-Type Jet Fuel	363	0	0	71	0	708	0	13,206	1,233
Kerosene	—	0	—	0	0	—	—	36	—
Distillate Fuel Oil	3,167	0	0	1,486	800	735	0	26,659	1,155
15 ppm sulfur and under	3,167	0	0	1,486	800	735	0	25,821	1,069
Greater than 15 ppm to 500 ppm sulfur	0	0	—	0	0	—	—	1	86
Greater than 500 ppm sulfur	—	0	—	0	0	—	—	837	—
Residual Fuel Oil	0	0	—	—	860	—	—	—	0
Petrochemical Feedstocks	0	0	—	—	67	—	—	—	25
Naphtha for Petrochemical Feedstock Use	0	0	—	—	22	—	—	—	0
Other Oils for Petrochemical Feedstock Use	0	0	—	—	45	—	—	—	25
Special Naphthas	0	0	—	—	0	—	—	—	29
Lubricants	0	0	0	40	31	—	0	500	198
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	18	0	370	870	23	16	13	13
Asphalt and Road Oil	0	0	0	853	360	0	243	428	224
Miscellaneous Products	0	0	—	—	0	—	—	—	10
Total	17,046	43	0	24,338	104,287	20,963	7,195	105,207	35,991

See footnotes at end of table.

Table 36. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, March 2022
(Thousand Barrels) — Continued

Commodity	From 3 to		From 4 to				From 5 to			
	4	5	1	2	3	5	1	2	3	4
Crude Oil	0	26	0	25,089	593	0	0	0	0	0
Petroleum Products	7	5,889	0	22,495	4,931	2,343	3	78	125	13
Natural Gas Liquids	0	118	0	21,350	4,618	296	0	0	0	0
Ethane	0	—	0	7,335	1,988	—	0	0	0	0
Propane	0	0	0	7,410	1,249	212	0	0	0	0
Normal Butane	0	14	0	2,981	373	66	0	0	0	0
Isobutane	0	104	0	1,184	424	18	0	0	0	0
Natural Gasoline	0	—	0	2,440	584	—	0	0	0	0
Refinery Olefins	—	—	0	0	0	—	0	0	0	—
Ethylene	—	—	—	—	—	—	—	—	—	—
Propylene	—	—	0	0	0	—	0	0	0	—
Normal Butylene	—	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—	—
Unfinished Oils	—	—	0	0	0	—	0	0	0	—
Motor Gasoline Blending Components	0	3,451	0	125	0	1,160	0	0	0	0
Reformulated - RBOB	—	1,899	0	0	0	0	0	0	0	—
Conventional	0	1,552	0	125	0	1,160	0	0	0	0
CBOB	0	1,552	0	125	0	1,160	0	0	0	0
GTAB	—	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	0	—	0	0	0	—
Biofuels (including Fuel Ethanol)	0	996	0	0	0	68	0	0	0	0
Fuel Ethanol	0	437	0	0	0	68	0	0	0	0
Biodiesel	0	94	0	0	0	0	0	0	0	0
Renewable Diesel Fuel	—	465	—	—	0	0	—	—	0	—
Other Biofuels ²	—	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	382	0	96	0	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	382	0	96	0	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	382	0	96	0	0	0	0
Finished Aviation Gasoline	—	—	0	—	0	—	0	—	0	—
Kerosene-Type Jet Fuel	0	146	0	12	0	28	0	0	0	0
Kerosene	—	—	0	—	0	—	0	—	0	—
Distillate Fuel Oil	0	1,046	0	386	0	361	0	0	0	0
15 ppm sulfur and under	0	1,046	0	386	0	361	0	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	0	0	0	—	0	0	0	—
Greater than 500 ppm sulfur	—	—	0	—	0	—	0	—	0	—
Residual Fuel Oil	—	—	—	0	0	—	—	0	0	—
Petrochemical Feedstocks	—	—	—	0	0	—	—	0	0	—
Naphtha for Petrochemical Feedstock Use	—	—	—	0	0	—	—	0	0	—
Other Oils for Petrochemical Feedstock Use	—	—	—	0	0	—	—	0	0	—
Special Naphthas	—	—	—	0	0	—	—	0	0	—
Lubricants	—	0	0	0	0	0	0	0	96	—
Waxes	—	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	0	0	77	113	42	3	78	29	3
Asphalt and Road Oil	7	132	0	163	200	291	0	0	0	10
Miscellaneous Products	—	—	—	0	0	—	—	0	0	—
Total	7	5,914	0	47,584	5,524	2,343	3	78	125	13

— = 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.

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

Table 36. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, April 2022
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	417	614	0	1,750	48,191	5,321	3,039	2,550	16,040
Petroleum Products	15,847	124	0	19,880	46,862	12,373	5,503	95,114	17,858
Natural Gas Liquids	7,670	118	0	7,812	35,370	8,472	423	1,184	10,127
Ethane	5,679	0	0	0	17,359	2,740	—	0	1,184
Propane	960	4	0	5,792	10,472	3,034	241	1,169	1,437
Normal Butane	304	90	0	1,886	3,817	1,264	165	15	355
Isobutane	475	24	0	134	1,360	460	17	0	1,146
Natural Gasoline	252	0	—	0	2,362	974	—	0	6,006
Refinery Olefins	0	0	—	403	476	—	—	0	0
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	0	0	—	403	476	—	—	0	0
Normal Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	37	0	—	0	748	—	—	31	792
Motor Gasoline Blending Components	5,211	0	0	1,308	1,697	1,826	0	53,736	3,364
Reformulated - RBOB	0	0	0	0	0	—	0	7,682	1,252
Conventional	5,211	0	0	1,308	1,697	1,826	0	46,054	2,112
CBOB	5,211	0	0	1,308	1,672	1,826	0	45,271	1,610
GTAB	—	—	—	—	—	—	—	—	—
Other	0	0	—	0	25	—	—	783	502
Biofuels (including Fuel Ethanol)	0	0	0	6,967	5,971	440	4,740	137	0
Fuel Ethanol	0	0	0	6,725	5,721	417	4,424	137	0
Biodiesel	0	0	0	242	250	23	316	0	0
Renewable Diesel Fuel	—	0	0	—	0	—	0	—	—
Other Biofuels ²	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	64	0	0	876	0	108	0	1,314	716
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	64	0	0	876	0	108	0	1,314	716
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	64	0	0	876	0	108	0	1,314	716
Finished Aviation Gasoline	0	0	—	0	0	—	—	116	25
Kerosene-Type Jet Fuel	321	0	0	86	30	748	0	13,014	1,248
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	2,544	0	0	1,644	849	750	0	24,561	1,197
15 ppm sulfur and under	2,544	0	0	1,644	849	750	0	23,813	988
Greater than 15 ppm to 500 ppm sulfur	0	0	—	0	0	—	—	65	209
Greater than 500 ppm sulfur	—	0	—	0	0	—	—	683	—
Residual Fuel Oil	0	0	—	—	664	—	—	—	0
Petrochemical Feedstocks	0	0	—	—	97	—	—	—	0
Naphtha for Petrochemical Feedstock Use	0	0	—	—	97	—	—	—	0
Other Oils for Petrochemical Feedstock Use	—	—	—	—	—	—	—	—	—
Special Naphthas	0	0	—	—	0	—	—	—	21
Lubricants	0	0	0	17	22	—	0	689	222
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	6	0	198	435	6	45	3	19
Asphalt and Road Oil	0	0	0	570	503	23	294	329	121
Miscellaneous Products	0	0	—	—	0	—	—	—	5
Total	16,264	738	0	21,631	95,053	17,694	8,541	97,664	33,898

See footnotes at end of table.

Table 36. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, April 2022
(Thousand Barrels) — Continued

Commodity	From 3 to		From 4 to				From 5 to			
	4	5	1	2	3	5	1	2	3	4
Crude Oil	0	42	0	25,233	606	0	0	0	0	0
Petroleum Products	0	5,966	0	19,859	4,786	1,692	13	16	132	20
Natural Gas Liquids	0	24	0	18,973	4,631	119	0	0	0	0
Ethane	0	—	0	6,450	2,002	—	0	0	0	0
Propane	0	0	0	6,581	1,245	71	0	0	0	0
Normal Butane	0	7	0	2,679	373	34	0	0	0	0
Isobutane	0	17	0	1,074	422	14	0	0	0	0
Natural Gasoline	0	—	0	2,189	589	—	0	0	0	0
Refinery Olefins	—	—	0	0	0	—	0	0	0	—
Ethylene	—	—	—	—	—	—	—	—	—	—
Propylene	—	—	0	0	0	—	0	0	0	—
Normal Butylene	—	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—	—
Unfinished Oils	—	—	0	0	0	—	0	0	0	—
Motor Gasoline Blending Components	0	3,449	0	187	0	994	0	0	0	0
Reformulated - RBOB	—	1,913	0	0	0	0	0	0	0	—
Conventional	0	1,536	0	187	0	994	0	0	0	0
CBOB	0	1,536	0	187	0	994	0	0	0	0
GTAB	—	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	0	—	0	0	0	—
Biofuels (including Fuel Ethanol)	0	891	0	0	0	39	0	0	0	0
Fuel Ethanol	0	356	0	0	0	39	0	0	0	0
Biodiesel	0	64	0	0	0	0	0	0	0	0
Renewable Diesel Fuel	—	471	—	—	0	0	—	—	0	—
Other Biofuels ²	—	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	176	0	108	0	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	176	0	108	0	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	176	0	108	0	0	0	0
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	0	—
Kerosene-Type Jet Fuel	0	303	0	12	0	68	0	0	0	0
Kerosene	—	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	0	1,111	0	208	0	202	0	0	0	0
15 ppm sulfur and under	0	1,111	0	208	0	202	0	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	0	0	0	—	0	0	0	—
Greater than 500 ppm sulfur	—	—	0	—	0	—	0	—	0	—
Residual Fuel Oil	—	—	—	0	0	—	—	0	0	—
Petrochemical Feedstocks	—	—	—	0	0	—	—	0	0	—
Naphtha for Petrochemical Feedstock Use	—	—	—	0	0	—	—	0	0	—
Other Oils for Petrochemical Feedstock Use	—	—	—	—	—	—	—	—	—	—
Special Naphthas	—	—	—	0	0	—	—	0	0	—
Lubricants	—	0	0	0	0	0	0	0	96	—
Waxes	—	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	10	0	216	54	6	13	16	36	10
Asphalt and Road Oil	0	179	0	86	101	156	0	0	0	10
Miscellaneous Products	—	—	—	0	0	—	—	0	0	—
Total	0	6,009	0	45,092	5,392	1,692	13	16	132	20

— = No Data Reported.

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

² Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

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

Table 36. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, May 2022
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	374	920	0	1,260	53,090	6,819	1,440	2,420	20,458
Petroleum Products	16,801	158	0	22,831	46,292	14,211	4,677	102,327	21,322
Natural Gas Liquids	6,951	143	0	8,135	34,645	9,989	363	912	12,209
Ethane	4,941	0	0	0	17,160	3,108	—	0	1,242
Propane	1,074	4	0	6,009	9,813	3,593	239	912	1,463
Normal Butane	207	140	0	1,984	3,918	1,549	84	0	365
Isobutane	438	0	0	141	1,257	551	39	0	1,445
Natural Gasoline	291	0	—	0	2,498	1,188	—	0	7,694
Refinery Olefins	0	0	—	321	540	—	—	0	0
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	0	0	—	321	540	—	—	0	0
Normal Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	86	0	—	0	862	—	—	34	552
Motor Gasoline Blending Components	6,679	0	0	1,108	1,847	1,823	0	59,592	3,604
Reformulated - RBOB	0	0	0	0	93	—	0	10,272	1,605
Conventional	6,679	0	0	1,108	1,754	1,823	0	49,320	1,999
CBOB	6,679	0	0	1,108	1,711	1,823	0	47,665	1,593
GTAB	—	—	—	—	—	—	—	—	—
Other	0	0	—	0	43	—	—	1,655	406
Biofuels (including Fuel Ethanol)	29	0	0	9,439	5,367	527	4,020	43	12
Fuel Ethanol	0	0	0	9,340	5,038	518	3,758	43	0
Biodiesel	29	0	0	99	329	9	262	0	12
Renewable Diesel Fuel	—	0	0	—	0	—	0	—	—
Other Biofuels ²	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	83	0	0	838	99	107	0	939	519
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	83	0	0	838	99	107	0	939	519
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	83	0	0	838	99	107	0	939	519
Finished Aviation Gasoline	0	0	—	0	52	—	—	58	25
Kerosene-Type Jet Fuel	374	0	0	67	23	758	0	17,357	1,240
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	2,599	0	0	1,527	805	983	0	22,451	2,782
15 ppm sulfur and under	2,599	0	0	1,527	805	983	0	21,509	2,482
Greater than 15 ppm to 500 ppm sulfur	0	0	—	0	0	—	—	1	300
Greater than 500 ppm sulfur	—	0	—	0	0	—	—	941	—
Residual Fuel Oil	0	0	—	—	805	—	—	—	35
Petrochemical Feedstocks	0	0	—	—	48	—	—	—	0
Naphtha for Petrochemical Feedstock Use	0	0	—	—	48	—	—	—	0
Other Oils for Petrochemical Feedstock Use	—	—	—	—	—	—	—	—	—
Special Naphthas	0	0	—	—	0	—	—	—	12
Lubricants	0	0	0	0	0	—	0	535	228
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	15	0	537	634	3	39	81	32
Asphalt and Road Oil	0	0	0	858	565	20	256	325	71
Miscellaneous Products	—	—	—	—	—	—	—	—	—
Total	17,175	1,078	0	24,091	99,382	21,030	6,117	104,747	41,780

See footnotes at end of table.

Table 36. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, May 2022
(Thousand Barrels) — Continued

Commodity	From 3 to		From 4 to				From 5 to			
	4	5	1	2	3	5	1	2	3	4
Crude Oil	0	19	0	25,079	1,276	0	0	0	0	0
Petroleum Products	2	6,204	0	21,666	4,808	1,592	7	33	46	105
Natural Gas Liquids	0	112	0	20,837	4,639	86	0	0	0	0
Ethane	0	—	0	6,921	2,010	—	0	0	0	0
Propane	0	0	0	7,215	1,242	69	0	0	0	0
Normal Butane	0	6	0	3,034	372	7	0	0	0	0
Isobutane	0	106	0	1,193	422	10	0	0	0	0
Natural Gasoline	0	—	0	2,474	593	—	0	0	0	0
Refinery Olefins	—	—	0	0	0	—	0	0	0	—
Ethylene	—	—	—	—	—	—	—	—	—	—
Propylene	—	—	0	0	0	—	0	0	0	—
Normal Butylene	—	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—	—
Unfinished Oils	—	—	0	0	0	—	0	0	0	—
Motor Gasoline Blending Components	0	3,674	0	227	0	922	0	0	0	0
Reformulated - RBOB	—	2,051	0	0	0	0	0	0	0	—
Conventional	0	1,623	0	227	0	922	0	0	0	0
CBOB	0	1,623	0	227	0	922	0	0	0	0
GTAB	—	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	0	—	0	0	0	—
Biofuels (including Fuel Ethanol)	0	865	0	0	0	71	0	0	0	0
Fuel Ethanol	0	269	0	0	0	71	0	0	0	0
Biodiesel	0	169	0	0	0	0	0	0	0	0
Renewable Diesel Fuel	—	427	—	—	0	0	—	—	0	—
Other Biofuels ²	—	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	259	0	79	0	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	259	0	79	0	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	259	0	79	0	0	0	0
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	0	—
Kerosene-Type Jet Fuel	0	255	0	42	0	20	0	0	0	0
Kerosene	—	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	0	1,135	0	170	0	166	0	0	0	0
15 ppm sulfur and under	0	1,135	0	170	0	166	0	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	0	0	0	—	0	0	0	—
Greater than 500 ppm sulfur	—	—	0	—	0	—	0	—	0	—
Residual Fuel Oil	—	—	—	0	0	—	—	0	0	—
Petrochemical Feedstocks	—	—	—	0	0	—	—	0	0	—
Naphtha for Petrochemical Feedstock Use	—	—	—	0	0	—	—	0	0	—
Other Oils for Petrochemical Feedstock Use	—	—	—	—	—	—	—	—	—	—
Special Naphthas	—	—	—	0	0	—	—	0	0	—
Lubricants	—	0	0	0	0	0	0	0	20	—
Waxes	—	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	10	0	55	45	42	7	33	26	75
Asphalt and Road Oil	2	154	0	77	124	205	0	0	0	30
Miscellaneous Products	—	—	—	—	—	—	—	—	—	—
Total	2	6,224	0	46,745	6,083	1,592	7	33	46	105

— = 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.

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

Table 36. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, June 2022
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	349	20	0	1,470	46,817	6,357	4,091	1,886	22,612
Petroleum Products	17,102	62	0	20,841	47,552	15,018	4,696	101,822	22,949
Natural Gas Liquids	7,065	42	0	7,033	36,604	10,627	475	864	10,136
Ethane	5,153	0	0	0	17,892	3,034	—	0	1,047
Propane	944	4	0	5,337	9,853	3,909	212	864	1,469
Normal Butane	294	25	0	1,535	4,536	1,732	201	0	372
Isobutane	422	13	0	160	1,427	612	62	0	807
Natural Gasoline	252	0	—	0	2,896	1,340	—	0	6,440
Refinery Olefins	0	0	—	323	498	—	—	0	0
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	0	0	—	323	498	—	—	0	0
Normal Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	25	0	—	0	777	0	—	26	586
Motor Gasoline Blending Components	6,715	0	0	1,098	1,299	2,223	0	56,985	4,876
Reformulated - RBOB	0	0	0	0	55	40	0	9,615	2,543
Conventional	6,715	0	0	1,098	1,244	2,183	0	47,370	2,333
CBOB	6,715	0	0	1,098	1,217	2,183	0	46,139	1,985
GTAB	—	—	—	—	—	—	—	—	—
Other	0	0	0	0	27	—	0	1,231	348
Biofuels (including Fuel Ethanol)	0	0	0	9,456	5,068	469	4,014	111	39
Fuel Ethanol	0	0	0	9,359	4,847	437	3,758	111	0
Biodiesel	0	0	0	97	221	32	255	0	39
Renewable Diesel Fuel	—	0	0	—	0	—	0	—	—
Other Biofuels ²	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	76	0	0	489	8	126	0	1,324	2,615
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	76	0	0	489	8	126	0	1,324	2,615
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	76	0	0	489	8	126	0	1,324	2,615
Finished Aviation Gasoline	0	0	—	0	0	—	—	103	23
Kerosene-Type Jet Fuel	287	0	0	72	60	740	0	14,399	1,849
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	2,934	0	0	1,401	1,067	812	0	27,024	2,221
15 ppm sulfur and under	2,934	0	0	1,401	1,067	812	0	26,066	2,071
Greater than 15 ppm to 500 ppm sulfur	0	0	—	0	0	—	—	1	101
Greater than 500 ppm sulfur	0	0	—	0	0	—	—	957	49
Residual Fuel Oil	0	0	—	—	984	—	—	—	0
Petrochemical Feedstocks	0	0	—	—	49	—	—	—	0
Naphtha for Petrochemical Feedstock Use	0	0	—	—	49	—	—	—	0
Other Oils for Petrochemical Feedstock Use	—	—	—	—	—	—	—	—	—
Special Naphthas	0	0	—	0	0	—	—	25	35
Lubricants	0	0	—	0	9	—	—	564	248
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	20	0	104	678	13	26	6	32
Asphalt and Road Oil	0	0	0	865	451	8	181	391	281
Miscellaneous Products	0	0	—	—	0	—	—	—	8
Total	17,451	82	0	22,311	94,369	21,375	8,787	103,708	45,561

See footnotes at end of table.

Table 36. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail¹ Between PAD Districts, June 2022
(Thousand Barrels) — Continued

Commodity	From 3 to		From 4 to				From 5 to			
	4	5	1	2	3	5	1	2	3	4
Crude Oil	0	13	0	25,811	950	0	0	0	0	0
Petroleum Products	0	5,811	5	21,989	4,951	1,707	0	13	82	119
Natural Gas Liquids	0	41	0	20,756	4,879	112	0	0	0	0
Ethane	0	—	0	6,734	1,995	—	0	0	0	0
Propane	0	0	0	7,207	1,401	107	0	0	0	0
Normal Butane	0	7	0	3,063	524	2	0	0	0	0
Isobutane	0	34	0	1,194	319	3	0	0	0	0
Natural Gasoline	0	—	0	2,558	640	—	0	0	0	0
Refinery Olefins	—	—	0	0	0	—	0	0	0	—
Ethylene	—	—	—	—	—	—	—	—	—	—
Propylene	—	—	0	0	0	—	0	0	0	—
Normal Butylene	—	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—	—
Unfinished Oils	0	—	0	0	0	—	0	0	0	0
Motor Gasoline Blending Components	0	3,413	0	220	0	964	0	0	0	0
Reformulated - RBOB	0	1,888	0	0	0	0	0	0	0	0
Conventional	0	1,525	0	220	0	964	0	0	0	0
CBOB	0	1,477	0	220	0	964	0	0	0	0
GTAB	—	—	—	—	—	—	—	—	—	—
Other	—	48	0	0	0	0	0	0	0	—
Biofuels (including Fuel Ethanol)	0	972	0	0	0	65	0	0	0	0
Fuel Ethanol	0	336	0	0	0	65	0	0	0	0
Biodiesel	0	67	0	0	0	0	0	0	0	0
Renewable Diesel Fuel	—	570	—	—	0	0	—	—	0	—
Other Biofuels ²	—	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	382	0	104	0	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	382	0	104	0	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	382	0	104	0	0	0	0
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	0	—
Kerosene-Type Jet Fuel	0	169	0	12	0	15	0	0	0	0
Kerosene	—	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	0	1,123	0	353	0	311	0	0	0	0
15 ppm sulfur and under	0	1,123	0	353	0	311	0	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	0	0	0	—	0	0	0	—
Greater than 500 ppm sulfur	—	—	0	0	0	—	0	0	0	—
Residual Fuel Oil	—	—	—	0	0	—	—	0	0	—
Petrochemical Feedstocks	—	—	—	0	0	—	—	0	0	—
Naphtha for Petrochemical Feedstock Use	—	—	—	0	0	—	—	0	0	—
Other Oils for Petrochemical Feedstock Use	—	—	—	—	—	—	—	—	—	—
Special Naphthas	—	—	0	0	0	—	0	0	0	—
Lubricants	—	—	0	0	0	—	0	0	0	—
Waxes	—	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	3	0	6	13	0	0	13	82	104
Asphalt and Road Oil	0	89	5	259	59	136	0	0	0	15
Miscellaneous Products	—	—	—	0	0	—	—	0	0	—
Total	0	5,824	5	47,800	5,901	1,707	0	13	82	119

— = 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.

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

Table 36. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, July 2022
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	369	25	0	1,204	48,451	6,465	2,021	1,667	22,997
Petroleum Products	17,370	82	0	19,391	50,243	14,746	5,536	97,009	25,955
Natural Gas Liquids	6,983	73	0	7,543	38,361	10,686	602	927	10,250
Ethane	4,985	0	-	2	18,415	3,061	-	0	1,059
Propane	971	7	0	5,543	10,364	3,855	292	927	1,110
Normal Butane	329	42	0	1,939	4,514	1,747	256	0	382
Isobutane	394	24	0	60	1,552	609	54	0	880
Natural Gasoline	304	0	-	0	3,515	1,414	-	0	6,819
Refinery Olefins	0	0	-	434	582	-	-	0	0
Ethylene	-	-	-	-	-	-	-	-	-
Propylene	0	0	-	434	582	-	-	0	0
Normal Butylene	-	-	-	-	-	-	-	-	-
Isobutylene	-	-	-	-	-	-	-	-	-
Unfinished Oils	50	0	0	0	1,306	-	0	50	670
Motor Gasoline Blending Components	7,233	0	0	1,040	1,278	2,213	0	56,113	6,846
Reformulated - RBOB	0	0	0	0	0	-	0	9,871	3,672
Conventional	7,233	0	0	1,040	1,278	2,213	0	46,242	3,174
CBOB	7,233	0	0	1,040	1,201	2,213	0	45,615	2,860
GTAB	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	77	-	-	627	314
Biofuels (including Fuel Ethanol)	16	0	0	7,322	4,911	402	4,719	15	31
Fuel Ethanol	0	0	0	7,225	4,700	386	4,439	15	0
Biodiesel	16	0	0	97	210	16	280	0	31
Renewable Diesel Fuel	-	0	0	-	0	-	0	-	-
Other Biofuels ²	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	73	0	0	599	204	106	0	1,136	3,148
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	73	0	0	599	204	106	0	1,136	3,148
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	73	0	0	599	204	106	0	1,136	3,148
Finished Aviation Gasoline	-	0	-	0	0	-	-	44	-
Kerosene-Type Jet Fuel	359	0	0	128	62	710	0	15,088	1,174
Kerosene	-	-	-	-	-	-	-	-	-
Distillate Fuel Oil	2,619	0	0	1,182	1,073	611	0	22,592	3,364
15 ppm sulfur and under	2,619	0	0	1,182	1,073	611	0	21,994	3,247
Greater than 15 ppm to 500 ppm sulfur	0	0	-	-	0	-	-	-	117
Greater than 500 ppm sulfur	-	0	-	0	0	-	-	598	-
Residual Fuel Oil	0	0	-	-	687	-	-	-	0
Petrochemical Feedstocks	0	0	-	-	117	-	-	-	0
Naphtha for Petrochemical Feedstock Use	0	0	-	-	94	-	-	-	0
Other Oils for Petrochemical Feedstock Use	0	0	-	-	23	-	-	-	0
Special Naphthas	0	0	-	-	50	-	-	-	24
Lubricants	0	0	-	0	9	-	-	541	190
Waxes	-	-	-	-	-	-	-	-	-
Marketable Petroleum Coke	0	9	0	218	1,217	13	16	54	19
Asphalt and Road Oil	38	0	0	924	387	5	198	449	227
Miscellaneous Products	0	0	-	-	0	-	-	-	12
Total	17,739	107	0	20,595	98,694	21,211	7,556	98,676	48,952

See footnotes at end of table.

Table 36. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail¹ Between PAD Districts, July 2022
(Thousand Barrels) — Continued

Commodity	From 3 to		From 4 to				From 5 to			
	4	5	1	2	3	5	1	2	3	4
Crude Oil	0	36	0	25,977	606	0	0	0	0	0
Petroleum Products	5	5,699	0	23,326	5,059	1,940	0	29	35	183
Natural Gas Liquids	0	71	0	22,030	4,850	88	0	0	0	0
Ethane	0	—	0	7,196	2,098	—	0	0	0	0
Propane	0	0	0	7,516	1,314	79	0	0	0	0
Normal Butane	0	5	0	3,263	509	3	0	0	0	0
Isobutane	0	67	0	1,263	303	6	0	0	0	0
Natural Gasoline	0	—	0	2,792	626	—	0	0	0	0
Refinery Olefins	—	—	0	0	0	—	0	0	0	—
Ethylene	—	—	—	—	—	—	—	—	—	—
Propylene	—	—	0	0	0	—	0	0	0	—
Normal Butylene	—	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—	—
Unfinished Oils	—	276	0	0	0	0	0	0	0	—
Motor Gasoline Blending Components	0	3,261	0	232	0	1,055	0	0	0	0
Reformulated - RBOB	—	1,869	0	0	0	0	0	0	0	—
Conventional	0	1,392	0	232	0	1,055	0	0	0	0
CBOB	0	1,392	0	232	0	1,055	0	0	0	0
GTAB	—	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	0	—	0	0	0	—
Biofuels (including Fuel Ethanol)	0	655	0	0	0	66	0	0	0	19
Fuel Ethanol	0	259	0	0	0	66	0	0	0	0
Biodiesel	0	55	0	0	0	0	0	0	0	19
Renewable Diesel Fuel	—	341	—	—	0	0	—	—	0	—
Other Biofuels ²	—	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	316	0	65	0	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	316	0	65	0	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	316	0	65	0	0	0	0
Finished Aviation Gasoline	—	—	0	—	0	—	0	—	0	—
Kerosene-Type Jet Fuel	0	235	0	12	0	38	0	0	0	0
Kerosene	—	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	0	1,021	0	413	0	382	0	0	0	0
15 ppm sulfur and under	0	1,021	0	413	0	382	0	0	0	0
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	—	—	0	0	—
Naphtha for Petrochemical Feedstock Use	—	—	—	0	0	—	—	0	0	—
Other Oils for Petrochemical Feedstock Use	—	—	—	0	0	—	—	0	0	—
Special Naphthas	—	—	—	0	0	—	—	0	0	—
Lubricants	—	—	0	0	0	—	0	0	0	—
Waxes	—	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	6	0	151	40	99	0	29	35	141
Asphalt and Road Oil	5	173	0	172	170	147	0	0	0	23
Miscellaneous Products	—	—	—	0	0	—	—	0	0	—
Total	5	5,735	0	49,303	5,666	1,940	0	29	35	183

— = 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.

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

Table 36. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, August 2022
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	363	23	0	1,530	53,760	6,195	2,363	1,696	23,144
Petroleum Products	17,256	110	0	21,803	50,668	15,390	5,404	102,168	22,995
Natural Gas Liquids	7,780	98	0	7,453	38,373	11,446	475	1,244	12,057
Ethane	5,724	0	—	57	17,675	3,400	—	0	1,315
Propane	1,006	11	0	5,478	11,363	4,063	227	1,244	1,918
Normal Butane	325	53	0	1,841	4,195	1,825	193	0	502
Isobutane	472	34	0	77	1,503	633	55	0	829
Natural Gasoline	253	0	—	0	3,637	1,525	—	0	7,493
Refinery Olefins	0	0	—	305	594	—	—	0	0
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	0	0	—	305	594	—	—	0	0
Normal Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	41	0	—	0	1,303	—	—	83	513
Motor Gasoline Blending Components	6,168	0	0	1,467	1,565	1,765	0	59,168	4,468
Reformulated - RBOB	0	0	0	0	0	—	0	11,497	1,799
Conventional	6,168	0	0	1,467	1,565	1,765	0	47,671	2,669
CBOB	6,168	0	0	1,467	1,263	1,765	0	46,603	2,471
GTAB	—	—	—	—	—	—	—	—	—
Other	0	0	—	0	302	—	—	1,068	198
Biofuels (including Fuel Ethanol)	0	0	0	8,953	5,623	460	4,794	37	34
Fuel Ethanol	0	0	0	8,869	5,463	440	4,503	37	0
Biodiesel	0	0	0	84	160	21	290	0	34
Renewable Diesel Fuel	—	0	0	—	0	—	0	—	—
Other Biofuels ²	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	106	0	0	772	6	105	0	1,338	1,393
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	106	0	0	772	6	105	0	1,338	1,393
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	106	0	0	772	6	105	0	1,338	1,393
Finished Aviation Gasoline	0	0	—	0	0	—	—	41	50
Kerosene-Type Jet Fuel	375	0	0	75	30	735	0	15,725	1,047
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	2,786	0	0	1,237	790	860	0	23,675	2,821
15 ppm sulfur and under	2,786	0	0	1,237	790	860	0	22,873	2,746
Greater than 15 ppm to 500 ppm sulfur	0	0	—	0	0	—	—	1	75
Greater than 500 ppm sulfur	—	0	—	0	0	—	—	801	—
Residual Fuel Oil	0	0	—	0	874	—	—	93	0
Petrochemical Feedstocks	0	0	—	—	71	—	—	—	0
Naphtha for Petrochemical Feedstock Use	0	0	—	—	48	—	—	—	0
Other Oils for Petrochemical Feedstock Use	0	0	—	—	23	—	—	—	0
Special Naphthas	0	0	—	—	100	—	—	—	37
Lubricants	0	0	—	0	23	—	—	441	220
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	12	0	505	983	16	29	6	29
Asphalt and Road Oil	0	0	0	1,035	334	3	106	317	326
Miscellaneous Products	—	—	—	—	—	—	—	—	—
Total	17,619	133	0	23,332	104,428	21,585	7,767	103,864	46,139

See footnotes at end of table.

Table 36. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, August 2022
(Thousand Barrels) — Continued

Commodity	From 3 to		From 4 to				From 5 to			
	4	5	1	2	3	5	1	2	3	4
Crude Oil	0	0	0	25,527	1,135	0	0	0	0	0
Petroleum Products	3	5,955	0	23,031	5,047	2,005	0	19	61	56
Natural Gas Liquids	0	35	0	21,622	4,843	112	0	0	0	0
Ethane	0	—	0	6,772	1,880	—	0	0	0	0
Propane	0	0	0	7,512	1,407	81	0	0	0	0
Normal Butane	0	5	0	3,241	558	20	0	0	0	0
Isobutane	0	29	0	1,254	325	11	0	0	0	0
Natural Gasoline	0	—	0	2,843	673	—	0	0	0	0
Refinery Olefins	—	—	0	0	0	—	0	0	0	—
Ethylene	—	—	—	—	—	—	—	—	—	—
Propylene	—	—	0	0	0	—	0	0	0	—
Normal Butylene	—	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—	—
Unfinished Oils	—	—	0	0	0	—	0	0	0	—
Motor Gasoline Blending Components	0	3,507	0	264	0	1,131	0	0	0	0
Reformulated - RBOB	—	1,954	0	0	0	0	0	0	0	—
Conventional	0	1,553	0	264	0	1,131	0	0	0	0
CBOB	0	1,553	0	264	0	1,131	0	0	0	0
GTAB	—	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	0	—	0	0	0	—
Biofuels (including Fuel Ethanol)	0	1,353	0	0	0	52	0	0	0	3
Fuel Ethanol	0	590	0	0	0	52	0	0	0	0
Biodiesel	0	59	0	0	0	0	0	0	0	3
Renewable Diesel Fuel	—	704	—	—	0	0	—	—	0	—
Other Biofuels ²	—	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	385	0	81	0	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	385	0	81	0	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	385	0	81	0	0	0	0
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	0	—
Kerosene-Type Jet Fuel	0	288	0	10	0	34	0	0	0	0
Kerosene	—	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	0	651	0	427	0	267	0	0	0	0
15 ppm sulfur and under	0	651	0	427	0	267	0	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	0	0	0	—	0	0	0	—
Greater than 500 ppm sulfur	—	—	0	—	0	—	0	—	0	—
Residual Fuel Oil	—	—	0	0	0	—	0	0	0	—
Petrochemical Feedstocks	—	—	—	0	0	—	—	0	0	—
Naphtha for Petrochemical Feedstock Use	—	—	—	0	0	—	—	0	0	—
Other Oils for Petrochemical Feedstock Use	—	—	—	0	0	—	—	0	0	—
Special Naphthas	—	—	—	0	0	—	—	0	0	—
Lubricants	—	—	0	0	0	—	0	0	0	—
Waxes	—	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	6	0	169	83	123	0	19	61	45
Asphalt and Road Oil	3	115	0	154	121	205	0	0	0	8
Miscellaneous Products	—	—	—	—	—	—	—	—	—	—
Total	3	5,955	0	48,558	6,182	2,005	0	19	61	56

— = 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.

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

Table 36. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, September 2022
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	377	15	0	2,206	51,159	6,204	2,808	1,722	18,313
Petroleum Products	17,914	92	0	22,140	43,443	14,873	4,115	98,005	18,232
Natural Gas Liquids	7,445	77	0	7,891	33,312	10,836	384	1,573	8,273
Ethane	5,551	0	-	201	15,316	3,206	-	0	1,219
Propane	970	11	0	5,521	9,543	3,872	209	1,570	1,783
Normal Butane	195	33	0	2,082	3,462	1,708	127	3	494
Isobutane	441	33	0	87	1,405	597	48	0	915
Natural Gasoline	288	0	-	0	3,587	1,453	-	0	3,862
Refinery Olefins	0	0	-	282	501	-	-	0	0
Ethylene	-	-	-	-	-	-	-	-	-
Propylene	0	0	-	282	501	-	-	0	0
Normal Butylene	-	-	-	-	-	-	-	-	-
Isobutylene	-	-	-	-	-	-	-	-	-
Unfinished Oils	41	0	-	0	795	-	-	35	81
Motor Gasoline Blending Components	7,098	0	0	1,415	1,153	2,030	0	56,005	3,861
Reformulated - RBOB	0	0	0	0	98	-	0	7,553	877
Conventional	7,098	0	0	1,415	1,055	2,030	0	48,452	2,984
CBOB	7,098	0	0	1,415	1,002	2,030	0	47,940	2,621
GTAB	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	53	-	-	512	363
Biofuels (including Fuel Ethanol)	0	0	0	9,663	5,079	465	3,559	80	0
Fuel Ethanol	0	0	0	9,516	4,938	423	3,232	80	0
Biodiesel	0	0	0	148	140	42	327	0	0
Renewable Diesel Fuel	-	0	0	-	0	-	0	-	-
Other Biofuels ²	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	73	0	0	203	102	125	0	1,111	1,800
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	73	0	0	203	102	125	0	1,111	1,800
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	73	0	0	203	102	125	0	1,111	1,800
Finished Aviation Gasoline	0	0	-	0	0	-	-	116	45
Kerosene-Type Jet Fuel	327	0	0	154	30	684	0	13,849	668
Kerosene	-	-	-	-	-	-	-	-	-
Distillate Fuel Oil	2,930	0	0	1,305	658	728	0	24,611	2,924
15 ppm sulfur and under	2,930	0	0	1,305	658	728	0	23,806	2,833
Greater than 15 ppm to 500 ppm sulfur	0	0	-	0	0	-	-	1	91
Greater than 500 ppm sulfur	-	0	-	0	0	-	-	804	-
Residual Fuel Oil	0	0	-	-	835	-	-	-	0
Petrochemical Feedstocks	0	0	-	-	69	-	-	-	50
Naphtha for Petrochemical Feedstock Use	0	0	-	-	44	-	-	-	50
Other Oils for Petrochemical Feedstock Use	0	0	-	-	25	-	-	-	0
Special Naphthas	0	0	-	-	45	-	-	-	15
Lubricants	0	0	-	0	10	-	-	393	189
Waxes	-	-	-	-	-	-	-	-	-
Marketable Petroleum Coke	0	3	0	369	535	3	10	0	10
Asphalt and Road Oil	0	13	0	858	319	3	162	232	308
Miscellaneous Products	0	0	-	-	0	-	-	-	8
Total	18,291	107	0	24,346	94,602	21,077	6,922	99,727	36,545

See footnotes at end of table.

Table 36. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail¹ Between PAD Districts, September 2022
(Thousand Barrels) — Continued

Commodity	From 3 to		From 4 to				From 5 to			
	4	5	1	2	3	5	1	2	3	4
Crude Oil	0	0	0	24,132	1,278	0	0	0	0	0
Petroleum Products	3	4,952	0	22,196	4,346	1,778	0	42	74	17
Natural Gas Liquids	0	87	0	20,935	4,061	125	0	0	0	0
Ethane	0	—	0	6,415	1,223	—	0	0	0	0
Propane	0	0	0	7,354	1,319	83	0	0	0	0
Normal Butane	0	20	0	3,154	543	40	0	0	0	0
Isobutane	0	67	0	1,220	318	2	0	0	0	0
Natural Gasoline	0	—	0	2,792	658	—	0	0	0	0
Refinery Olefins	—	—	0	0	0	—	0	0	0	—
Ethylene	—	—	—	—	—	—	—	—	—	—
Propylene	—	—	0	0	0	—	0	0	0	—
Normal Butylene	—	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—	—
Unfinished Oils	—	—	0	0	0	—	0	0	0	—
Motor Gasoline Blending Components	0	3,243	0	182	0	941	0	0	0	0
Reformulated - RBOB	—	1,940	0	0	0	0	0	0	0	—
Conventional	0	1,303	0	182	0	941	0	0	0	0
CBOB	0	1,303	0	182	0	941	0	0	0	0
GTAB	—	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	0	—	0	0	0	—
Biofuels (including Fuel Ethanol)	0	552	0	0	0	46	0	0	0	0
Fuel Ethanol	0	160	0	0	0	46	0	0	0	0
Biodiesel	0	59	0	0	0	0	0	0	0	0
Renewable Diesel Fuel	—	334	—	—	0	0	—	—	0	—
Other Biofuels ²	—	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	407	0	109	0	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	407	0	109	0	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	407	0	109	0	0	0	0
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	0	—
Kerosene-Type Jet Fuel	0	207	0	20	0	38	0	0	0	0
Kerosene	—	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	0	720	0	451	0	313	0	0	0	0
15 ppm sulfur and under	0	720	0	451	0	313	0	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	0	0	0	—	0	0	0	—
Greater than 500 ppm sulfur	—	—	0	—	0	—	0	—	0	—
Residual Fuel Oil	—	—	—	0	0	—	—	0	0	—
Petrochemical Feedstocks	—	—	—	0	0	—	—	0	0	—
Naphtha for Petrochemical Feedstock Use	—	—	—	0	0	—	—	0	0	—
Other Oils for Petrochemical Feedstock Use	—	—	—	0	0	—	—	0	0	—
Special Naphthas	—	—	—	0	0	—	—	0	0	—
Lubricants	—	—	0	0	0	—	0	0	0	—
Waxes	—	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	10	0	6	37	37	0	42	74	10
Asphalt and Road Oil	3	133	0	195	248	170	0	0	0	8
Miscellaneous Products	—	—	—	0	0	—	—	0	0	—
Total	3	4,952	0	46,328	5,624	1,778	0	42	74	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.

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

Table 36. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, October 2022
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	352	20	0	1,370	52,272	6,408	2,164	2,335	19,620
Petroleum Products	17,827	68	0	20,794	44,240	15,295	5,050	106,666	18,203
Natural Gas Liquids	7,816	56	0	7,166	32,604	10,980	854	2,110	8,818
Ethane	5,712	0	—	114	14,913	3,193	—	0	1,237
Propane	1,079	14	0	5,352	9,417	4,033	339	2,071	2,089
Normal Butane	273	0	0	1,620	3,305	1,695	470	38	711
Isobutane	485	41	0	80	1,416	596	45	1	973
Natural Gasoline	268	0	—	0	3,552	1,463	—	0	3,807
Refinery Olefins	0	0	—	307	367	—	—	0	0
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	0	0	—	307	367	—	—	0	0
Normal Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	40	0	—	0	1,064	—	—	10	35
Motor Gasoline Blending Components	6,770	0	0	1,035	1,628	2,106	0	58,795	3,281
Reformulated - RBOB	0	0	0	0	273	—	0	6,656	1,058
Conventional	6,770	0	0	1,035	1,355	2,106	0	52,139	2,223
CBOB	6,770	0	0	1,035	1,250	2,106	0	51,279	2,165
GTAB	—	—	—	—	—	—	—	—	—
Other	0	0	—	0	105	—	—	860	58
Biofuels (including Fuel Ethanol)	0	0	0	8,992	5,779	468	3,991	0	0
Fuel Ethanol	0	0	0	8,851	5,546	440	3,594	0	0
Biodiesel	0	0	0	141	234	29	397	0	0
Renewable Diesel Fuel	—	0	0	—	0	—	0	—	—
Other Biofuels ²	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	92	0	0	440	31	114	0	1,969	1,705
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	92	0	0	440	31	114	0	1,969	1,705
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	92	0	0	440	31	114	0	1,969	1,705
Finished Aviation Gasoline	0	0	—	0	0	—	—	117	45
Kerosene-Type Jet Fuel	405	0	0	186	0	813	0	14,735	662
Kerosene	—	0	—	0	0	—	—	37	—
Distillate Fuel Oil	2,661	0	0	1,392	1,250	796	0	28,118	3,230
15 ppm sulfur and under	2,661	0	0	1,392	1,250	796	0	27,222	3,205
Greater than 15 ppm to 500 ppm sulfur	0	0	—	0	0	—	—	1	25
Greater than 500 ppm sulfur	—	0	—	0	0	—	—	895	—
Residual Fuel Oil	0	0	—	—	813	—	—	—	1
Petrochemical Feedstocks	0	0	—	—	138	—	—	—	25
Naphtha for Petrochemical Feedstock Use	0	0	—	—	138	—	—	—	25
Other Oils for Petrochemical Feedstock Use	—	—	—	—	—	—	—	—	—
Special Naphthas	0	0	—	—	0	—	—	—	15
Lubricants	0	0	—	0	0	—	—	389	161
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	12	0	218	310	13	16	105	58
Asphalt and Road Oil	43	0	0	1,057	256	5	188	280	161
Miscellaneous Products	0	0	—	—	0	—	—	—	6
Total	18,179	88	0	22,164	96,512	21,703	7,214	109,001	37,823

See footnotes at end of table.

Table 36. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail¹ Between PAD Districts, October 2022
(Thousand Barrels) — Continued

Commodity	From 3 to		From 4 to				From 5 to			
	4	5	1	2	3	5	1	2	3	4
Crude Oil	0	0	0	26,438	1,636	0	0	0	0	0
Petroleum Products	5	6,401	0	23,004	4,632	2,427	0	19	51	19
Natural Gas Liquids	0	124	0	21,718	4,392	390	0	0	0	0
Ethane	0	—	0	6,816	1,590	—	0	0	0	0
Propane	0	0	0	7,697	1,324	121	0	0	0	0
Normal Butane	0	26	0	3,175	524	237	0	0	0	0
Isobutane	0	99	0	1,239	314	32	0	0	0	0
Natural Gasoline	0	—	0	2,791	640	—	0	0	0	0
Refinery Olefins	—	—	0	0	0	—	0	0	0	—
Ethylene	—	—	—	—	—	—	—	—	—	—
Propylene	—	—	0	0	0	—	0	0	0	—
Normal Butylene	—	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—	—
Unfinished Oils	—	—	0	0	0	—	0	0	0	—
Motor Gasoline Blending Components	0	3,791	0	175	0	1,207	0	0	0	0
Reformulated - RBOB	—	2,144	0	0	0	0	0	0	0	—
Conventional	0	1,647	0	175	0	1,207	0	0	0	0
CBOB	0	1,647	0	175	0	1,207	0	0	0	0
GTAB	—	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	0	—	0	0	0	—
Biofuels (including Fuel Ethanol)	0	1,265	0	0	0	43	0	0	0	0
Fuel Ethanol	0	639	0	0	0	43	0	0	0	0
Biodiesel	0	95	0	0	0	0	0	0	0	0
Renewable Diesel Fuel	—	530	—	—	0	0	—	—	0	—
Other Biofuels ²	—	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	432	0	92	0	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	432	0	92	0	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	432	0	92	0	0	0	0
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	0	—
Kerosene-Type Jet Fuel	0	203	0	30	0	8	0	0	0	0
Kerosene	—	—	0	—	0	—	0	—	0	—
Distillate Fuel Oil	0	906	0	364	0	263	0	0	0	0
15 ppm sulfur and under	0	906	0	364	0	263	0	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	0	0	0	—	0	0	0	—
Greater than 500 ppm sulfur	—	—	0	—	0	—	0	—	0	—
Residual Fuel Oil	—	—	—	0	0	—	—	0	0	—
Petrochemical Feedstocks	—	—	—	0	0	—	—	0	0	—
Naphtha for Petrochemical Feedstock Use	—	—	—	0	0	—	—	0	0	—
Other Oils for Petrochemical Feedstock Use	—	—	—	—	—	—	—	—	—	—
Special Naphthas	—	—	—	0	0	—	—	0	0	—
Lubricants	—	—	0	0	0	—	0	0	0	—
Waxes	—	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	6	0	177	111	110	0	19	51	6
Asphalt and Road Oil	5	105	0	109	129	314	0	0	0	13
Miscellaneous Products	—	—	—	0	0	—	—	0	0	—
Total	5	6,401	0	49,442	6,268	2,427	0	19	51	19

— = 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.

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

Table 36. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, November 2022
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	269	21	0	1,439	55,721	5,765	3,564	2,015	17,675
Petroleum Products	18,050	37	0	22,969	46,988	13,937	5,551	103,031	21,704
Natural Gas Liquids	7,846	25	0	8,866	34,426	10,062	1,023	2,047	13,186
Ethane	5,814	0	—	114	16,260	2,950	—	0	1,367
Propane	1,057	4	0	6,439	9,916	3,690	273	2,015	2,109
Normal Butane	281	0	0	2,236	3,476	1,551	718	31	704
Isobutane	444	20	0	77	1,447	549	32	1	1,504
Natural Gasoline	250	0	—	0	3,328	1,322	—	0	7,501
Refinery Olefins	0	0	—	157	329	—	—	0	0
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	0	0	—	157	329	—	—	0	0
Normal Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	20	0	—	0	1,031	—	—	0	48
Motor Gasoline Blending Components	7,090	0	0	1,277	1,838	1,666	0	56,231	3,482
Reformulated - RBOB	0	0	0	0	282	—	0	6,523	699
Conventional	7,090	0	0	1,277	1,556	1,666	0	49,708	2,783
CBOB	7,090	0	0	1,277	1,349	1,666	0	48,892	2,783
GTAB	—	—	—	—	—	—	—	—	—
Other	0	0	—	0	207	—	—	816	0
Biofuels (including Fuel Ethanol)	0	0	0	9,169	5,667	484	4,410	15	0
Fuel Ethanol	0	0	0	9,049	5,387	453	4,010	15	0
Biodiesel	0	0	0	120	281	31	400	0	0
Renewable Diesel Fuel	—	0	0	—	0	—	0	—	—
Other Biofuels ²	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	92	0	0	579	157	104	0	1,363	466
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	92	0	0	579	157	104	0	1,363	466
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	92	0	0	579	157	104	0	1,363	466
Finished Aviation Gasoline	0	0	—	0	0	—	—	46	47
Kerosene-Type Jet Fuel	405	0	0	384	28	721	0	14,492	1,495
Kerosene	—	0	—	0	0	—	—	37	—
Distillate Fuel Oil	2,534	0	0	1,466	967	867	0	28,118	2,391
15 ppm sulfur and under	2,534	0	0	1,466	967	867	0	27,394	2,287
Greater than 15 ppm to 500 ppm sulfur	0	0	—	0	0	—	—	1	104
Greater than 500 ppm sulfur	—	0	—	0	0	—	—	723	—
Residual Fuel Oil	0	0	—	—	1,179	—	—	—	0
Petrochemical Feedstocks	0	0	—	—	155	—	—	—	26
Naphtha for Petrochemical Feedstock Use	0	0	—	—	135	—	—	—	26
Other Oils for Petrochemical Feedstock Use	0	0	—	—	20	—	—	—	0
Special Naphthas	0	0	—	—	0	—	—	—	33
Lubricants	0	0	—	20	29	—	—	316	198
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	12	0	274	730	33	10	16	10
Asphalt and Road Oil	63	0	0	778	452	0	108	350	317
Miscellaneous Products	0	0	—	—	0	—	—	—	6
Total	18,319	58	0	24,408	102,710	19,702	9,116	105,046	39,379

See footnotes at end of table.

Table 36. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, November 2022
(Thousand Barrels) — Continued

Commodity	From 3 to		From 4 to				From 5 to			
	4	5	1	2	3	5	1	2	3	4
Crude Oil	0	0	0	24,019	1,610	0	0	0	0	0
Petroleum Products	0	5,740	0	21,369	4,295	2,957	0	71	55	16
Natural Gas Liquids	0	141	0	20,326	4,168	574	0	0	0	0
Ethane	0	—	0	6,469	1,444	—	0	0	0	0
Propane	0	0	0	7,197	1,308	192	0	0	0	0
Normal Butane	0	93	0	2,960	390	307	0	0	0	0
Isobutane	0	48	0	1,147	432	75	0	0	0	0
Natural Gasoline	0	—	0	2,553	594	—	0	0	0	0
Refinery Olefins	—	—	0	0	0	—	0	0	0	—
Ethylene	—	—	—	—	—	—	—	—	—	—
Propylene	—	—	0	0	0	—	0	0	0	—
Normal Butylene	—	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—	—
Unfinished Oils	—	—	0	0	0	—	0	0	0	—
Motor Gasoline Blending Components	0	3,449	0	205	0	1,260	0	0	0	0
Reformulated - RBOB	—	1,971	0	0	0	0	0	0	0	—
Conventional	0	1,478	0	205	0	1,260	0	0	0	0
CBOB	0	1,478	0	205	0	1,260	0	0	0	0
GTAB	—	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	0	—	0	0	0	—
Biofuels (including Fuel Ethanol)	0	1,076	0	0	0	92	0	0	0	0
Fuel Ethanol	0	508	0	0	0	92	0	0	0	0
Biodiesel	0	74	0	0	0	0	0	0	0	0
Renewable Diesel Fuel	—	494	—	—	0	0	—	—	0	—
Other Biofuels ²	—	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	378	0	86	0	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	378	0	86	0	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	378	0	86	0	0	0	0
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	0	—
Kerosene-Type Jet Fuel	0	221	0	24	0	329	0	0	0	0
Kerosene	—	—	0	—	0	—	0	—	0	—
Distillate Fuel Oil	0	751	0	358	0	402	0	0	0	0
15 ppm sulfur and under	0	751	0	358	0	402	0	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	0	0	0	—	0	0	0	—
Greater than 500 ppm sulfur	—	—	0	—	0	—	0	—	0	—
Residual Fuel Oil	—	—	—	0	0	—	—	0	0	—
Petrochemical Feedstocks	—	—	—	0	0	—	—	0	0	—
Naphtha for Petrochemical Feedstock Use	—	—	—	0	0	—	—	0	0	—
Other Oils for Petrochemical Feedstock Use	—	—	—	0	0	—	—	0	0	—
Special Naphthas	—	—	—	0	0	—	—	0	0	—
Lubricants	—	—	0	0	0	—	0	0	0	—
Waxes	—	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	10	0	0	3	6	0	71	55	3
Asphalt and Road Oil	0	93	0	78	124	207	0	0	0	13
Miscellaneous Products	—	—	—	0	0	—	—	0	0	—
Total	0	5,740	0	45,388	5,905	2,957	0	71	55	16

— = 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.

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

Table 36. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, December 2022
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	544	20	0	1,579	53,726	5,278	2,234	2,346	22,298
Petroleum Products	17,743	88	0	22,272	41,810	11,852	4,713	105,155	20,091
Natural Gas Liquids	7,426	33	0	7,582	29,924	8,095	1,145	2,676	13,597
Ethane	5,376	0	—	505	13,843	2,001	—	0	1,346
Propane	1,052	9	0	5,372	8,432	3,164	410	2,601	1,728
Normal Butane	324	0	0	1,595	3,442	1,326	673	75	1,027
Isobutane	436	24	0	109	1,347	471	62	0	994
Natural Gasoline	238	0	—	0	2,860	1,133	—	0	8,502
Refinery Olefins	0	0	—	267	532	—	—	0	0
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	0	0	—	267	532	—	—	0	0
Normal Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	63	0	—	0	1,079	—	—	15	20
Motor Gasoline Blending Components	7,153	0	0	1,475	1,597	1,753	0	56,072	2,763
Reformulated - RBOB	0	0	0	0	285	—	0	6,696	519
Conventional	7,153	0	0	1,475	1,312	1,753	0	49,376	2,244
CBOB	7,153	0	0	1,475	1,265	1,753	0	48,538	2,244
GTAB	—	—	—	—	—	—	—	—	—
Other	0	0	—	0	47	—	—	838	0
Biofuels (including Fuel Ethanol)	0	0	0	9,625	4,973	474	3,431	0	0
Fuel Ethanol	0	0	0	9,368	4,700	440	2,979	0	0
Biodiesel	0	0	0	256	274	34	452	0	0
Renewable Diesel Fuel	—	0	0	—	0	—	0	—	—
Other Biofuels ²	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	92	0	0	562	117	97	0	1,962	187
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	92	0	0	562	117	97	0	1,962	187
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	92	0	0	562	117	97	0	1,962	187
Finished Aviation Gasoline	—	0	—	0	0	—	—	50	—
Kerosene-Type Jet Fuel	405	0	0	109	0	528	0	15,386	1,660
Kerosene	—	0	—	0	0	—	—	37	—
Distillate Fuel Oil	2,564	0	0	1,518	1,060	881	0	28,122	1,538
15 ppm sulfur and under	2,564	0	0	1,518	1,060	881	0	27,225	1,391
Greater than 15 ppm to 500 ppm sulfur	0	0	—	0	0	—	—	1	147
Greater than 500 ppm sulfur	—	0	—	0	0	—	—	896	—
Residual Fuel Oil	0	0	—	—	1,185	—	—	—	0
Petrochemical Feedstocks	0	31	—	0	134	—	—	0	35
Naphtha for Petrochemical Feedstock Use	0	0	—	—	92	—	—	—	35
Other Oils for Petrochemical Feedstock Use	0	31	—	0	42	—	—	0	0
Special Naphthas	—	—	—	—	—	—	—	—	—
Lubricants	0	0	—	0	0	—	—	512	134
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	24	0	486	754	20	3	50	16
Asphalt and Road Oil	40	0	0	649	454	5	134	273	126
Miscellaneous Products	0	0	—	—	0	—	—	—	15
Total	18,287	108	0	23,852	95,536	17,130	6,948	107,501	42,389

See footnotes at end of table.

Table 36. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail¹ Between PAD Districts, December 2022
(Thousand Barrels) — Continued

Commodity	From 3 to		From 4 to				From 5 to			
	4	5	1	2	3	5	1	2	3	4
Crude Oil	0	0	0	24,060	1,217	0	0	0	0	0
Petroleum Products	0	5,688	0	18,795	3,222	3,089	0	71	26	76
Natural Gas Liquids	0	192	0	17,526	3,071	770	0	0	0	0
Ethane	0	—	0	5,199	820	—	0	0	0	0
Propane	0	0	0	6,389	1,038	286	0	0	0	0
Normal Butane	0	154	0	2,645	447	408	0	0	0	0
Isobutane	0	38	0	1,031	249	75	0	0	0	0
Natural Gasoline	0	—	0	2,262	517	—	0	0	0	0
Refinery Olefins	—	—	0	0	0	—	0	0	0	—
Ethylene	—	—	—	—	—	—	—	—	—	—
Propylene	—	—	0	0	0	—	0	0	0	—
Normal Butylene	—	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—	—
Unfinished Oils	—	—	0	0	0	—	0	0	0	—
Motor Gasoline Blending Components	0	3,571	0	178	0	1,428	0	0	0	0
Reformulated - RBOB	—	2,031	0	0	0	0	0	0	0	—
Conventional	0	1,540	0	178	0	1,428	0	0	0	0
CBOB	0	1,540	0	178	0	1,428	0	0	0	0
GTAB	—	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	0	—	0	0	0	—
Biofuels (including Fuel Ethanol)	0	1,006	0	0	0	121	0	0	0	3
Fuel Ethanol	0	494	0	0	0	121	0	0	0	0
Biodiesel	0	80	0	0	0	0	0	0	0	3
Renewable Diesel Fuel	—	432	—	—	0	0	—	—	0	—
Other Biofuels ²	—	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	435	0	100	0	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	435	0	100	0	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	435	0	100	0	0	0	0
Finished Aviation Gasoline	—	—	0	—	0	—	0	—	0	—
Kerosene-Type Jet Fuel	0	260	0	12	0	25	0	0	0	0
Kerosene	—	—	0	—	0	—	0	—	0	—
Distillate Fuel Oil	0	571	0	390	0	274	0	0	0	0
15 ppm sulfur and under	0	571	0	390	0	274	0	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	0	0	0	—	0	0	0	—
Greater than 500 ppm sulfur	—	—	0	—	0	—	0	—	0	—
Residual Fuel Oil	—	—	—	0	0	—	—	0	0	—
Petrochemical Feedstocks	—	—	0	0	0	—	0	0	0	—
Naphtha for Petrochemical Feedstock Use	—	—	—	0	0	—	—	0	0	—
Other Oils for Petrochemical Feedstock Use	—	—	0	0	0	—	0	0	0	—
Special Naphthas	—	—	—	—	—	—	—	—	—	—
Lubricants	—	—	0	0	0	—	0	0	0	—
Waxes	—	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	13	0	168	40	64	0	71	26	32
Asphalt and Road Oil	0	75	0	86	111	306	0	0	0	41
Miscellaneous Products	—	—	—	0	0	—	—	0	0	—
Total	0	5,688	0	42,855	4,439	3,089	0	71	26	76

— = 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.

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