

Table 36. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, January 2023
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	329	30	0	1,769	51,517	5,631	3,215	2,347	24,011
Petroleum Products	16,869	51	0	22,028	44,002	13,596	5,436	103,337	20,351
Natural Gas Liquids	7,553	38	0	7,752	31,872	8,682	1,043	2,751	13,463
Ethane	5,377	0	-	441	14,144	2,018	-	0	1,111
Propane	1,105	9	0	5,493	8,973	3,456	310	2,730	2,050
Normal Butane	381	1	0	1,721	4,116	1,451	682	21	889
Isobutane	451	27	0	97	1,558	514	52	0	1,126
Natural Gasoline	239	0	-	0	3,081	1,243	-	0	8,287
Refinery Olefins	0	0	-	171	399	-	-	0	0
Ethylene	-	-	-	-	-	-	-	-	-
Propylene	0	0	-	171	399	-	-	0	0
Normal Butylene	-	-	-	-	-	-	-	-	-
Isobutylene	-	-	-	-	-	-	-	-	-
Unfinished Oils	57	0	-	0	1,167	-	-	30	138
Motor Gasoline Blending Components	6,601	0	0	1,681	1,607	2,117	0	57,948	2,627
Reformulated - RBOB	0	0	0	0	231	-	0	6,894	435
Conventional	6,601	0	0	1,681	1,376	2,117	0	51,054	2,192
CBOB	6,601	0	0	1,681	1,273	2,117	0	50,283	2,192
GTAB	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	103	-	-	771	0
Biofuels (including Fuel Ethanol)	0	0	0	8,490	5,446	568	4,211	3	3
Fuel Ethanol	0	0	0	8,312	5,151	555	3,226	0	0
Biodiesel	0	0	0	178	295	14	320	0	0
Renewable Diesel Fuel	0	0	0	0	0	0	664	3	3
Other Biofuels ²	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	58	0	0	437	137	131	0	2,006	377
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	58	0	0	437	137	131	0	2,006	377
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	58	0	0	437	137	131	0	2,006	377
Finished Aviation Gasoline	0	0	-	0	0	-	-	124	45
Kerosene-Type Jet Fuel	309	0	0	956	39	1,074	0	12,205	2,079
Kerosene	-	0	-	0	0	-	-	298	-
Distillate Fuel Oil	2,244	0	0	1,386	1,112	1,006	0	27,080	1,256
15 ppm sulfur and under	2,244	0	0	1,386	1,112	1,006	0	26,692	1,168
Greater than 15 ppm to 500 ppm sulfur	0	0	-	0	0	-	-	-	88
Greater than 500 ppm sulfur	-	0	-	0	0	-	-	388	-
Residual Fuel Oil	0	0	-	-	880	-	-	-	0
Petrochemical Feedstocks	0	0	-	-	94	-	-	-	9
Naphtha for Petrochemical Feedstock Use	0	0	-	-	94	-	-	-	9
Other Oils for Petrochemical Feedstock Use	-	-	-	-	-	-	-	-	-
Special Naphthas	0	0	-	-	0	-	-	-	31
Lubricants	0	0	-	0	9	-	-	486	177
Waxes	-	-	-	-	-	-	-	-	-
Marketable Petroleum Coke	0	12	0	401	747	13	6	32	22
Asphalt and Road Oil	47	0	0	753	493	5	175	373	115
Miscellaneous Products	0	0	-	-	0	-	-	-	9
Total	17,198	81	0	23,797	95,519	19,227	8,651	105,684	44,362

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 2023
(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	26,548	1,607	0	0	0	0	0
Petroleum Products	5	6,622	0	19,807	3,203	3,159	3	13	64	65
Natural Gas Liquids	0	231	0	18,675	2,961	747	0	0	0	0
Ethane	0	—	0	5,298	901	—	0	0	0	0
Propane	0	0	0	6,957	950	393	0	0	0	0
Normal Butane	0	131	0	2,873	425	292	0	0	0	0
Isobutane	0	100	0	1,112	209	62	0	0	0	0
Natural Gasoline	0	—	0	2,435	476	—	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	3,505	0	148	0	1,305	0	0	0	0
Reformulated - RBOB	—	1,876	0	0	0	0	0	0	0	—
Conventional	0	1,629	0	148	0	1,305	0	0	0	0
CBOB	0	1,629	0	148	0	1,305	0	0	0	0
GTAB	—	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	0	—	0	0	0	—
Biofuels (including Fuel Ethanol)	0	1,816	0	0	0	326	0	0	0	0
Fuel Ethanol	0	509	0	0	0	72	0	0	0	0
Biodiesel	0	45	0	0	0	0	0	0	0	0
Renewable Diesel Fuel	0	1,263	0	0	0	254	0	0	0	0
Other Biofuels ²	—	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	371	0	59	0	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	371	0	59	0	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	371	0	59	0	0	0	0
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	0	—
Kerosene-Type Jet Fuel	0	217	0	12	0	8	0	0	0	0
Kerosene	—	—	0	—	0	—	0	—	0	—
Distillate Fuel Oil	0	781	0	457	0	356	0	0	0	0
15 ppm sulfur and under	0	781	0	457	0	356	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	—	—	—	—	—	—	—	—	—	—
Special Naphthas	—	—	—	0	0	—	—	0	0	—
Lubricants	—	—	0	0	0	—	0	0	0	—
Waxes	—	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	0	0	85	120	79	3	13	64	29
Asphalt and Road Oil	5	72	0	58	122	279	0	0	0	36
Miscellaneous Products	—	—	—	0	0	—	—	0	0	—
Total	5	6,622	0	46,355	4,810	3,159	3	13	64	65

— = No Data Reported.

¹ Movements of crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, renewable diesel fuel, 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 2023
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	397	17	0	710	52,023	5,438	3,238	1,385	17,833
Petroleum Products	15,506	23	0	21,792	45,997	13,096	5,116	101,986	17,483
Natural Gas Liquids	7,082	17	0	7,481	33,794	8,779	636	1,920	9,752
Ethane	5,372	0	—	446	14,522	2,074	—	0	929
Propane	840	0	0	5,205	11,773	3,488	187	1,896	1,591
Normal Butane	224	10	0	1,710	3,529	1,460	388	25	584
Isobutane	435	7	0	119	1,326	515	62	0	744
Natural Gasoline	210	0	—	0	2,644	1,242	—	0	5,905
Refinery Olefins	0	0	—	250	412	—	—	0	0
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	0	0	—	250	412	—	—	0	0
Normal Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	40	0	—	0	1,148	—	—	34	358
Motor Gasoline Blending Components	5,469	0	0	1,339	1,363	2,033	0	56,553	3,738
Reformulated - RBOB	0	0	0	0	0	—	0	6,520	1,123
Conventional	5,469	0	0	1,339	1,363	2,033	0	50,033	2,615
CBOB	5,469	0	0	1,339	1,260	2,033	0	48,835	2,562
GTAB	—	—	—	—	—	—	—	—	—
Other	0	0	—	0	103	—	—	1,198	53
Biofuels (including Fuel Ethanol)	5	0	0	9,257	5,582	500	4,210	0	0
Fuel Ethanol	0	0	0	9,040	5,308	482	3,533	0	0
Biodiesel	5	0	0	216	275	18	277	0	0
Renewable Diesel Fuel	0	0	0	—	0	0	400	—	0
Other Biofuels ²	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	73	0	0	439	194	126	0	1,574	401
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	73	0	0	439	194	126	0	1,574	401
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	73	0	0	439	194	126	0	1,574	401
Finished Aviation Gasoline	—	0	—	0	0	—	—	122	—
Kerosene-Type Jet Fuel	292	0	0	659	108	834	0	13,600	1,837
Kerosene	—	0	—	0	0	—	—	298	—
Distillate Fuel Oil	2,445	0	0	1,224	1,018	759	0	27,109	1,111
15 ppm sulfur and under	2,445	0	0	1,224	1,018	759	0	26,801	1,055
Greater than 15 ppm to 500 ppm sulfur	0	0	—	—	0	—	—	—	56
Greater than 500 ppm sulfur	—	0	—	0	0	—	—	308	—
Residual Fuel Oil	0	0	—	—	865	—	—	—	0
Petrochemical Feedstocks	0	0	—	—	47	—	—	—	0
Naphtha for Petrochemical Feedstock Use	0	0	—	—	47	—	—	—	0
Other Oils for Petrochemical Feedstock Use	—	—	—	—	—	—	—	—	—
Special Naphthas	0	0	—	—	0	—	—	—	15
Lubricants	0	0	—	0	32	—	—	483	148
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	6	0	252	993	29	32	45	29
Asphalt and Road Oil	100	0	0	891	441	36	237	248	89
Miscellaneous Products	0	0	—	—	0	—	—	—	5
Total	15,903	40	0	22,502	98,020	18,534	8,354	103,371	35,316

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, February 2023
(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	24,078	1,628	0	0	0	0	0
Petroleum Products	12	5,616	0	18,457	3,336	2,440	0	19	23	48
Natural Gas Liquids	0	97	0	17,631	3,008	277	0	0	0	0
Ethane	0	—	0	5,050	806	—	0	0	0	0
Propane	0	0	0	6,543	1,033	126	0	0	0	0
Normal Butane	0	53	0	2,709	434	109	0	0	0	0
Isobutane	0	44	0	1,036	241	42	0	0	0	0
Natural Gasoline	0	—	0	2,293	494	—	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	3,344	0	177	0	1,107	0	0	0	0
Reformulated - RBOB	—	1,845	0	0	0	0	0	0	0	—
Conventional	0	1,499	0	177	0	1,107	0	0	0	0
CBOB	0	1,499	0	177	0	1,107	0	0	0	0
GTAB	—	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	0	—	0	0	0	—
Biofuels (including Fuel Ethanol)	9	1,028	0	0	0	398	0	3	0	0
Fuel Ethanol	0	24	0	0	0	81	0	0	0	0
Biodiesel	0	14	0	0	0	0	0	0	0	0
Renewable Diesel Fuel	9	989	—	0	0	316	—	3	0	0
Other Biofuels ²	—	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	234	0	86	0	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	234	0	86	0	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	234	0	86	0	0	0	0
Finished Aviation Gasoline	—	—	0	—	0	—	0	—	0	—
Kerosene-Type Jet Fuel	0	156	0	12	0	35	0	0	0	0
Kerosene	—	—	0	—	0	—	0	—	0	—
Distillate Fuel Oil	0	877	0	341	0	339	0	0	0	0
15 ppm sulfur and under	0	877	0	341	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	—
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	0	0	16	171	66	0	16	23	6
Asphalt and Road Oil	2	114	0	46	157	132	0	0	0	41
Miscellaneous Products	—	—	—	0	0	—	—	0	0	—
Total	12	5,616	0	42,535	4,965	2,440	0	19	23	48

— = No Data Reported.

¹ Movements of crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, renewable diesel fuel, 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 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	1,017	61,938	5,453	2,473	1,764	15,050
Petroleum Products	17,050	71	0	23,128	53,257	14,447	5,703	104,393	19,173
Natural Gas Liquids	7,676	54	0	8,194	40,243	10,125	633	1,966	11,290
Ethane	5,762	0	—	412	17,954	2,580	—	0	1,152
Propane	970	0	0	5,460	13,185	3,925	367	1,966	1,427
Normal Butane	210	44	0	2,174	4,274	1,649	218	0	297
Isobutane	496	10	0	148	1,687	583	48	0	838
Natural Gasoline	238	0	—	0	3,143	1,388	—	0	7,576
Refinery Olefins	0	0	—	183	599	—	—	0	0
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	0	0	—	183	599	—	—	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	10,779	6,264	472	4,844	0	3
Fuel Ethanol	0	0	0	10,587	5,961	454	4,033	0	0
Biodiesel	0	0	0	192	304	18	352	0	0
Renewable Diesel Fuel	0	0	0	—	0	0	459	—	3
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	6	0	100	1,213	6	23	6	26
Asphalt and Road Oil	44	0	0	805	311	70	204	317	178
Miscellaneous Products	0	0	—	—	0	—	—	—	13
Total	17,527	89	0	24,145	115,196	19,900	8,176	106,157	34,223

See footnotes at end of table.

Table 36. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail¹ 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	2	3	4
Crude Oil	0	0	0	24,067	1,578	0	0	0	0	0
Petroleum Products	7	6,035	5	21,636	4,461	2,506	9	13	183	17
Natural Gas Liquids	0	14	0	20,440	4,134	169	0	0	0	0
Ethane	0	—	0	6,150	1,339	—	0	0	0	0
Propane	0	0	0	7,452	1,391	70	0	0	0	0
Normal Butane	0	7	0	3,077	514	71	0	0	0	0
Isobutane	0	7	0	1,179	316	28	0	0	0	0
Natural Gasoline	0	—	0	2,582	574	—	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	70	—
Motor Gasoline Blending Components	0	3,139	0	166	0	1,207	0	0	0	0
Reformulated - RBOB	—	1,521	0	0	0	0	0	0	0	—
Conventional	0	1,618	0	166	0	1,207	0	0	0	0
CBOB	0	1,460	0	166	0	1,207	0	0	0	0
GTAB	—	—	—	—	—	—	—	—	—	—
Other	—	158	0	0	0	0	0	0	0	—
Biofuels (including Fuel Ethanol)	0	1,807	0	0	0	406	0	0	0	0
Fuel Ethanol	0	448	0	0	0	111	0	0	0	0
Biodiesel	0	14	0	0	0	0	0	0	0	0
Renewable Diesel Fuel	0	1,345	—	0	0	296	—	0	0	0
Other Biofuels ²	—	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	339	0	75	0	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	339	0	75	0	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	0
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	0	—
Kerosene-Type Jet Fuel	0	235	0	12	0	30	0	0	0	0
Kerosene	—	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	0	734	0	310	0	357	0	0	0	0
15 ppm sulfur and under	0	734	0	310	0	357	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	—	—	—	—	—	—	—	—	—	—
Other Oils for Petrochemical Feedstock Use	—	—	—	0	0	—	—	0	0	—
Special Naphthas	—	—	—	0	0	—	—	0	0	—
Lubricants	—	7	0	0	0	0	0	0	87	—
Waxes	—	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	0	0	196	161	104	6	13	26	6
Asphalt and Road Oil	7	99	5	173	165	157	3	0	0	10
Miscellaneous Products	—	—	—	0	0	—	—	0	0	—
Total	7	6,035	5	45,703	6,038	2,506	9	13	183	17

— = No Data Reported.

¹ Movements of crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, renewable diesel fuel, 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 2023
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	340	12	0	1,228	61,547	5,374	3,775	1,744	22,582
Petroleum Products	17,138	65	0	22,098	51,785	14,734	5,165	101,797	20,854
Natural Gas Liquids	6,829	42	0	7,734	39,435	10,706	469	1,709	10,249
Ethane	5,129	0	0	0	18,075	3,049	—	0	903
Propane	963	7	0	5,834	12,157	4,025	316	1,709	1,316
Normal Butane	374	11	0	1,792	4,698	1,667	78	0	536
Isobutane	355	24	0	108	1,520	586	75	0	772
Natural Gasoline	9	0	—	0	2,985	1,379	—	0	6,722
Refinery Olefins	0	0	—	275	628	—	—	0	0
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	0	0	—	275	628	—	—	0	0
Normal Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	41	0	0	0	828	—	0	45	922
Motor Gasoline Blending Components	6,952	0	0	1,069	1,672	2,061	0	57,556	4,014
Reformulated - RBOB	0	0	0	0	210	—	0	7,691	1,783
Conventional	6,952	0	0	1,069	1,462	2,061	0	49,865	2,231
CBOB	6,952	0	0	1,069	1,203	2,061	0	48,921	1,927
GTAB	—	—	—	—	—	—	—	—	—
Other	0	0	0	0	259	—	0	944	304
Biofuels (including Fuel Ethanol)	3	10	0	8,866	6,231	379	4,487	0	6
Fuel Ethanol	0	0	0	8,758	5,960	372	3,821	0	0
Biodiesel	3	10	0	108	271	7	250	0	3
Renewable Diesel Fuel	0	0	0	—	0	0	416	—	3
Other Biofuels ²	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	57	0	0	859	25	106	0	1,966	809
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	57	0	0	859	25	106	0	1,966	809
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	57	0	0	859	25	106	0	1,966	809
Finished Aviation Gasoline	—	0	—	0	0	—	—	52	—
Kerosene-Type Jet Fuel	391	0	0	839	30	818	0	15,589	1,122
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	2,835	0	0	1,114	903	585	0	24,022	3,362
15 ppm sulfur and under	2,835	0	0	1,114	903	585	0	23,776	3,293
Greater than 15 ppm to 500 ppm sulfur	0	0	—	—	0	—	—	—	69
Greater than 500 ppm sulfur	—	0	—	0	0	—	—	246	—
Residual Fuel Oil	0	0	—	—	797	—	—	—	0
Petrochemical Feedstocks	0	0	—	—	121	—	—	—	0
Naphtha for Petrochemical Feedstock Use	0	0	—	—	98	—	—	—	0
Other Oils for Petrochemical Feedstock Use	0	0	—	—	23	—	—	—	0
Special Naphthas	0	0	—	—	0	—	—	—	42
Lubricants	0	0	0	0	20	—	0	508	176
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	6	0	456	760	6	0	45	32
Asphalt and Road Oil	30	7	0	885	335	72	209	305	110
Miscellaneous Products	0	0	—	—	0	—	—	—	9
Total	17,478	77	0	23,326	113,332	20,108	8,940	103,541	43,436

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 2023
(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	23,894	1,018	0	0	0	0	0
Petroleum Products	0	4,860	13	21,819	4,080	2,204	3	23	216	83
Natural Gas Liquids	0	23	0	21,131	3,697	220	0	0	0	0
Ethane	0	—	0	6,590	1,291	—	0	0	0	0
Propane	0	0	0	7,598	1,167	130	0	0	0	0
Normal Butane	0	0	0	3,136	452	47	0	0	0	0
Isobutane	0	23	0	1,206	282	43	0	0	0	0
Natural Gasoline	0	—	0	2,601	505	—	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	85	—
Motor Gasoline Blending Components	0	2,572	0	159	0	1,122	0	0	50	0
Reformulated - RBOB	—	1,189	0	0	0	0	0	0	0	—
Conventional	0	1,383	0	159	0	1,122	0	0	50	0
CBOB	0	1,383	0	159	0	1,122	0	0	0	0
GTAB	—	—	—	—	—	—	—	—	—	—
Other	—	0	0	0	0	0	0	0	50	—
Biofuels (including Fuel Ethanol)	0	1,449	0	3	0	261	0	0	0	12
Fuel Ethanol	0	309	0	0	0	55	0	0	0	0
Biodiesel	0	3	0	0	0	0	0	0	0	6
Renewable Diesel Fuel	0	1,137	—	3	0	206	—	0	0	6
Other Biofuels ²	—	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	130	0	101	0	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	130	0	101	0	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	130	0	101	0	0	0	0
Finished Aviation Gasoline	—	—	0	—	0	—	0	—	0	—
Kerosene-Type Jet Fuel	0	110	0	0	0	1	0	0	0	0
Kerosene	—	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	0	588	0	208	0	307	0	0	49	0
15 ppm sulfur and under	0	588	0	208	0	307	0	0	49	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	—	8	0	0	0	0	0	0	0	—
Waxes	—	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	3	0	117	218	73	3	23	32	19
Asphalt and Road Oil	0	107	13	71	165	119	0	0	0	52
Miscellaneous Products	—	—	—	0	0	—	—	0	0	—
Total	0	4,860	13	45,713	5,098	2,204	3	23	216	83

— = No Data Reported.

¹ Movements of crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, renewable diesel fuel, 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 2023
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	284	20	0	935	61,976	6,430	3,472	1,444	24,666
Petroleum Products	17,751	39	0	22,725	48,661	15,712	6,578	103,582	24,855
Natural Gas Liquids	7,660	39	0	8,112	36,708	11,219	691	496	10,363
Ethane	5,881	0	0	0	17,821	2,946	0	0	937
Propane	1,065	13	0	6,094	10,575	4,265	523	496	1,299
Normal Butane	307	5	0	1,866	4,253	1,825	89	0	556
Isobutane	398	20	0	152	1,368	632	79	0	726
Natural Gasoline	9	0	0	0	2,691	1,551	0	0	6,845
Refinery Olefins	0	0	0	187	488	0	0	0	0
Ethylene	0	0	0	0	0	0	0	0	0
Propylene	0	0	0	187	488	0	0	0	0
Normal Butylene	0	0	0	0	0	0	0	0	0
Isobutylene	0	0	0	0	0	0	0	0	0
Unfinished Oils	43	0	0	0	1,365	0	0	65	285
Motor Gasoline Blending Components	6,670	0	0	1,049	1,490	2,298	0	60,560	6,479
Reformulated - RBOB	0	0	0	0	144	0	0	9,759	4,062
Conventional	6,670	0	0	1,049	1,346	2,298	0	50,801	2,417
CBOB	6,670	0	0	1,049	1,226	2,298	0	50,117	2,191
GTAB	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	120	0	0	684	226
Biofuels (including Fuel Ethanol)	5	0	0	9,019	5,920	508	5,659	0	6
Fuel Ethanol	0	0	0	8,956	5,668	499	5,305	0	0
Biodiesel	5	0	0	63	252	9	212	0	6
Renewable Diesel Fuel	0	0	0	0	0	0	142	0	0
Other Biofuels ²	0	0	0	0	0	0	0	0	0
Finished Motor Gasoline	106	0	0	989	0	114	0	1,767	2,268
Reformulated	0	0	0	0	0	0	0	0	0
Reformulated Blended with Fuel Ethanol	0	0	0	0	0	0	0	0	0
Reformulated Other	0	0	0	0	0	0	0	0	0
Conventional	106	0	0	989	0	114	0	1,767	2,268
Conventional Blended with Fuel Ethanol	0	0	0	0	0	0	0	0	0
Ed55 and Lower	0	0	0	0	0	0	0	0	0
Greater than Ed55	0	0	0	0	0	0	0	0	0
Conventional Other	106	0	0	989	0	114	0	1,767	2,268
Finished Aviation Gasoline	0	0	0	0	0	0	0	51	35
Kerosene-Type Jet Fuel	401	0	0	902	59	630	0	15,912	1,348
Kerosene	0	0	0	0	0	0	0	0	0
Distillate Fuel Oil	2,840	0	0	1,257	985	894	0	23,914	3,639
15 ppm sulfur and under	2,840	0	0	1,257	985	894	0	23,582	3,541
Greater than 15 ppm to 500 ppm sulfur	0	0	0	0	0	0	0	0	98
Greater than 500 ppm sulfur	0	0	0	0	0	0	0	332	0
Residual Fuel Oil	0	0	0	0	606	0	0	0	0
Petrochemical Feedstocks	0	0	0	0	70	0	0	0	56
Naphtha for Petrochemical Feedstock Use	0	0	0	0	48	0	0	0	56
Other Oils for Petrochemical Feedstock Use	0	0	0	0	22	0	0	0	0
Special Naphthas	0	0	0	0	0	0	0	0	10
Lubricants	0	0	0	0	10	0	0	416	164
Waxes	0	0	0	0	0	0	0	0	0
Marketable Petroleum Coke	0	0	0	230	488	16	6	13	16
Asphalt and Road Oil	26	0	0	980	471	34	222	388	179
Miscellaneous Products	0	0	0	0	0	0	0	0	7
Total	18,035	59	0	23,660	110,637	22,142	10,050	105,026	49,521

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 2023
(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	27,856	1,703	0	0	0	0	0
Petroleum Products	3	4,893	0	22,998	4,183	2,309	0	19	28	79
Natural Gas Liquids	0	50	0	22,185	3,903	144	0	0	0	0
Ethane	0	—	0	6,800	1,364	—	0	0	0	0
Propane	0	0	0	7,962	1,235	138	0	0	0	0
Normal Butane	0	0	0	3,312	480	0	0	0	0	0
Isobutane	0	50	0	1,287	293	6	0	0	0	0
Natural Gasoline	0	—	0	2,824	531	—	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	2,928	0	201	0	1,145	0	0	0	0
Reformulated - RBOB	—	1,432	0	0	0	0	0	0	0	—
Conventional	0	1,496	0	201	0	1,145	0	0	0	0
CBOB	0	1,496	0	201	0	1,145	0	0	0	0
GTAB	—	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	0	—	0	0	0	—
Biofuels (including Fuel Ethanol)	3	1,037	0	0	0	431	0	0	0	28
Fuel Ethanol	0	0	0	0	0	39	0	0	0	0
Biodiesel	0	39	0	0	0	0	0	0	0	28
Renewable Diesel Fuel	3	998	—	0	0	392	—	0	0	0
Other Biofuels ²	—	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	45	0	102	0	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	45	0	102	0	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	45	0	102	0	0	0	0
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	0	—
Kerosene-Type Jet Fuel	0	92	0	0	0	1	0	0	0	0
Kerosene	—	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	0	663	0	191	0	243	0	0	0	0
15 ppm sulfur and under	0	663	0	191	0	243	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	—	8	0	0	0	0	0	0	0	—
Waxes	—	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	0	0	266	108	154	0	19	26	0
Asphalt and Road Oil	0	114	0	109	172	89	0	0	3	52
Miscellaneous Products	—	—	—	0	0	—	—	0	0	—
Total	3	4,893	0	50,854	5,886	2,309	0	19	28	79

— = No Data Reported.

¹ Movements of crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, renewable diesel fuel, 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 2023
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	321	12	0	1,289	56,190	6,786	3,932	1,701	23,932
Petroleum Products	17,624	28	0	24,043	46,148	15,010	5,682	98,428	23,197
Natural Gas Liquids	7,555	18	0	8,392	35,634	10,617	371	560	9,988
Ethane	6,117	0	—	573	16,120	2,273	—	0	1,022
Propane	921	4	0	5,769	9,866	4,236	258	560	1,176
Normal Butane	187	7	0	1,965	4,988	1,845	106	0	294
Isobutane	322	7	0	84	1,462	636	8	0	996
Natural Gasoline	7	0	—	0	3,198	1,627	—	0	6,500
Refinery Olefins	0	0	—	225	407	—	—	0	0
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	0	0	—	225	407	—	—	0	0
Normal Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	21	0	—	0	588	—	—	40	255
Motor Gasoline Blending Components	6,651	0	0	1,205	1,316	2,084	0	56,284	6,372
Reformulated - RBOB	0	0	0	0	0	—	0	9,711	4,218
Conventional	6,651	0	0	1,205	1,316	2,084	0	46,573	2,154
CBOB	6,651	0	0	1,205	1,215	2,084	0	45,986	2,068
GTAB	—	—	—	—	—	—	—	—	—
Other	0	0	—	0	101	—	—	587	86
Biofuels (including Fuel Ethanol)	5	0	0	9,860	6,024	509	4,996	0	6
Fuel Ethanol	0	0	0	9,831	5,805	482	4,195	0	0
Biodiesel	5	0	0	29	218	27	235	0	3
Renewable Diesel Fuel	0	0	0	—	0	0	566	—	3
Other Biofuels ²	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	95	0	0	751	0	101	0	1,276	1,295
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	95	0	0	751	0	101	0	1,276	1,295
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	95	0	0	751	0	101	0	1,276	1,295
Finished Aviation Gasoline	0	0	—	0	0	—	—	134	25
Kerosene-Type Jet Fuel	377	0	0	1,033	55	827	0	15,870	1,240
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	2,864	0	0	1,174	824	809	0	23,313	3,643
15 ppm sulfur and under	2,864	0	0	1,174	824	809	0	23,069	3,538
Greater than 15 ppm to 500 ppm sulfur	0	0	—	0	0	—	—	—	105
Greater than 500 ppm sulfur	—	0	—	0	0	—	—	244	—
Residual Fuel Oil	0	0	—	—	495	—	—	—	0
Petrochemical Feedstocks	0	0	—	0	94	—	—	300	38
Naphtha for Petrochemical Feedstock Use	0	0	—	0	94	—	—	300	38
Other Oils for Petrochemical Feedstock Use	—	—	—	—	—	—	—	—	—
Special Naphthas	0	0	—	—	0	—	—	—	25
Lubricants	0	0	0	0	19	—	0	360	166
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	9	0	503	535	10	13	3	16
Asphalt and Road Oil	56	0	0	900	157	54	302	288	121
Miscellaneous Products	0	0	—	—	0	—	—	—	7
Total	17,945	40	0	25,331	102,338	21,796	9,614	100,129	47,129

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 2023
(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	27,188	1,161	0	0	0	0	0
Petroleum Products	0	6,375	0	22,480	5,087	2,377	3	16	32	64
Natural Gas Liquids	0	75	0	21,162	4,905	91	0	0	0	0
Ethane	0	—	0	5,818	1,872	—	0	0	0	0
Propane	0	0	0	7,816	1,507	44	0	0	0	0
Normal Butane	0	1	0	3,333	445	1	0	0	0	0
Isobutane	0	74	0	1,283	366	47	0	0	0	0
Natural Gasoline	0	—	0	2,912	715	—	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	3,329	0	231	0	1,042	0	0	0	0
Reformulated - RBOB	—	1,789	0	0	0	0	0	0	0	—
Conventional	0	1,540	0	231	0	1,042	0	0	0	0
CBOB	0	1,540	0	231	0	1,042	0	0	0	0
GTAB	—	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	0	—	0	0	0	—
Biofuels (including Fuel Ethanol)	0	1,725	0	3	0	420	0	0	0	22
Fuel Ethanol	0	352	0	0	0	55	0	0	0	0
Biodiesel	0	20	0	0	0	0	0	0	0	15
Renewable Diesel Fuel	0	1,354	—	3	0	364	—	0	0	6
Other Biofuels ²	—	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	369	0	87	0	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	369	0	87	0	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	369	0	87	0	0	0	0
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	0	—
Kerosene-Type Jet Fuel	0	261	0	12	0	23	0	0	0	0
Kerosene	—	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	0	892	0	396	0	281	0	0	0	0
15 ppm sulfur and under	0	892	0	396	0	281	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	0	0	—
Naphtha for Petrochemical Feedstock Use	—	—	0	0	0	—	0	0	0	—
Other Oils for Petrochemical Feedstock Use	—	—	—	—	—	—	—	—	—	—
Special Naphthas	—	—	—	0	0	—	—	0	0	—
Lubricants	—	14	0	0	0	0	0	0	0	—
Waxes	—	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	0	0	241	32	108	3	16	32	3
Asphalt and Road Oil	0	79	0	66	150	325	0	0	0	39
Miscellaneous Products	—	—	—	0	0	—	—	0	0	—
Total	0	6,375	0	49,668	6,247	2,377	3	16	32	64

— = No Data Reported.

¹ Movements of crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, renewable diesel fuel, 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 2023
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	256	42	0	892	61,331	6,852	4,386	1,103	21,546
Petroleum Products	17,491	71	0	21,352	50,049	15,988	5,989	104,595	23,179
Natural Gas Liquids	7,674	52	0	7,343	39,395	11,265	600	1,045	11,899
Ethane	6,041	0	—	542	16,771	2,486	—	0	1,031
Propane	901	0	0	5,284	12,471	4,458	336	1,045	1,718
Normal Butane	336	7	0	1,318	4,964	1,936	224	0	334
Isobutane	390	45	0	200	1,500	669	40	0	986
Natural Gasoline	6	0	—	0	3,688	1,716	—	0	7,830
Refinery Olefins	0	0	—	322	535	—	—	0	0
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	0	0	—	322	535	—	—	0	0
Normal Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	40	0	0	0	546	—	0	21	112
Motor Gasoline Blending Components	6,764	0	0	1,429	1,364	2,466	0	60,750	5,848
Reformulated - RBOB	0	0	0	0	0	—	0	11,533	3,195
Conventional	6,764	0	0	1,429	1,364	2,466	0	49,217	2,653
CBOB	6,764	0	0	1,429	1,310	2,466	0	48,698	2,486
GTAB	—	—	—	—	—	—	—	—	—
Other	0	0	—	0	54	—	—	519	167
Biofuels (including Fuel Ethanol)	6	0	0	8,947	5,854	624	5,165	0	13
Fuel Ethanol	0	0	0	8,861	5,602	609	4,498	0	0
Biodiesel	6	0	0	86	252	14	203	0	6
Renewable Diesel Fuel	0	0	0	—	0	0	464	—	6
Other Biofuels ²	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	103	0	0	665	51	161	0	1,256	1,281
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	103	0	0	665	51	161	0	1,256	1,281
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	103	0	0	665	51	161	0	1,256	1,281
Finished Aviation Gasoline	0	0	—	0	0	—	—	38	59
Kerosene-Type Jet Fuel	431	0	0	196	30	911	0	16,470	1,275
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	2,440	10	0	1,342	783	548	0	24,168	2,265
15 ppm sulfur and under	2,440	10	0	1,342	783	548	0	23,937	2,156
Greater than 15 ppm to 500 ppm sulfur	0	0	—	—	0	—	—	—	109
Greater than 500 ppm sulfur	—	0	—	0	0	—	—	231	—
Residual Fuel Oil	0	0	—	—	456	—	—	—	0
Petrochemical Feedstocks	0	0	—	—	124	—	—	—	19
Naphtha for Petrochemical Feedstock Use	0	0	—	—	90	—	—	—	19
Other Oils for Petrochemical Feedstock Use	0	0	—	—	34	—	—	—	0
Special Naphthas	0	0	—	—	0	—	—	—	9
Lubricants	0	0	0	0	18	—	0	425	152
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	9	0	203	670	3	10	64	6
Asphalt and Road Oil	34	0	0	904	222	10	215	358	234
Miscellaneous Products	0	0	—	—	0	—	—	—	7
Total	17,747	113	0	22,244	111,380	22,840	10,376	105,698	44,725

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 2023
(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	26,198	1,879	0	0	0	0	0	0
Petroleum Products	3	6,515	0	23,565	5,178	2,298	10	16	243	55	
Natural Gas Liquids	0	29	0	22,385	4,914	85	0	0	0	0	
Ethane	0	—	0	6,421	1,766	—	0	0	0	0	
Propane	0	0	0	8,100	1,487	85	0	0	0	0	
Normal Butane	0	3	0	3,461	576	0	0	0	0	0	
Isobutane	0	25	0	1,335	354	0	0	0	0	0	
Natural Gasoline	0	—	0	3,068	731	—	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	217	—	
Motor Gasoline Blending Components	0	3,235	0	222	0	1,118	0	0	0	0	
Reformulated - RBOB	—	1,669	0	0	0	0	0	0	0	—	
Conventional	0	1,566	0	222	0	1,118	0	0	0	0	
CBOB	0	1,566	0	222	0	1,118	0	0	0	0	
GTAB	—	—	—	—	—	—	—	—	—	—	
Other	—	—	0	0	0	—	0	0	0	—	
Biofuels (including Fuel Ethanol)	3	2,002	0	0	0	379	0	0	0	12	
Fuel Ethanol	0	723	0	0	0	62	0	0	0	0	
Biodiesel	0	19	0	0	0	0	0	0	0	12	
Renewable Diesel Fuel	3	1,260	—	0	0	318	—	0	0	0	
Other Biofuels ²	—	—	—	—	—	—	—	—	—	—	
Finished Motor Gasoline	0	0	0	394	0	91	0	0	0	0	
Reformulated	—	—	—	—	—	—	—	—	—	—	
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—	
Reformulated Other	—	—	—	—	—	—	—	—	—	—	
Conventional	0	0	0	394	0	91	0	0	0	0	
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—	
Ed55 and Lower	—	—	—	—	—	—	—	—	—	—	
Greater than Ed55	—	—	—	—	—	—	—	—	—	—	
Conventional Other	0	0	0	394	0	91	0	0	0	0	
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	0	—	
Kerosene-Type Jet Fuel	0	227	0	11	0	32	0	0	0	0	
Kerosene	—	—	—	—	—	—	—	—	—	—	
Distillate Fuel Oil	0	923	0	405	0	219	0	0	0	0	
15 ppm sulfur and under	0	923	0	405	0	219	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	—	10	0	0	0	0	0	0	0	—	
Waxes	—	—	—	—	—	—	—	—	—	—	
Marketable Petroleum Coke	0	0	0	31	100	129	10	16	26	32	
Asphalt and Road Oil	0	89	0	116	163	245	0	0	0	10	
Miscellaneous Products	—	—	—	0	0	—	—	0	0	—	
Total	3	6,515	0	49,763	7,057	2,298	10	16	243	55	

— = No Data Reported.

¹ Movements of crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, renewable diesel fuel, 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 2023
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	219	20	0	884	58,486	7,376	3,591	1,461	19,074
Petroleum Products	17,965	81	0	22,918	51,216	16,042	5,306	99,321	20,994
Natural Gas Liquids	7,694	62	0	8,430	40,096	11,519	885	1,407	11,099
Ethane	6,046	0	0	0	17,692	2,661	0	0	1,081
Propane	1,033	4	0	6,339	12,383	4,531	466	1,407	1,742
Normal Butane	217	18	0	1,894	4,723	1,928	269	0	616
Isobutane	391	41	0	197	1,570	673	150	0	806
Natural Gasoline	7	0	0	0	3,728	1,726	0	0	6,854
Refinery Olefins	0	0	0	257	418	0	0	0	0
Ethylene	0	0	0	0	0	0	0	0	0
Propylene	0	0	0	257	418	0	0	0	0
Normal Butylene	0	0	0	0	0	0	0	0	0
Isobutylene	0	0	0	0	0	0	0	0	0
Unfinished Oils	41	0	0	0	937	0	0	94	372
Motor Gasoline Blending Components	6,860	0	0	1,461	1,202	2,252	0	57,550	5,123
Reformulated - RBOB	0	0	0	0	0	0	0	10,330	2,621
Conventional	6,860	0	0	1,461	1,202	2,252	0	47,220	2,502
CBOB	6,860	0	0	1,461	1,047	2,252	0	46,527	2,402
GTAB	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	155	0	0	693	100
Biofuels (including Fuel Ethanol)	0	0	0	8,601	5,987	515	4,112	0	6
Fuel Ethanol	0	0	0	8,506	5,772	460	3,464	0	0
Biodiesel	0	0	0	95	215	55	286	0	0
Renewable Diesel Fuel	0	0	0	0	0	0	362	0	6
Other Biofuels ²	0	0	0	0	0	0	0	0	0
Finished Motor Gasoline	97	0	0	756	0	145	0	942	420
Reformulated	0	0	0	0	0	0	0	0	0
Reformulated Blended with Fuel Ethanol	0	0	0	0	0	0	0	0	0
Reformulated Other	0	0	0	0	0	0	0	0	0
Conventional	97	0	0	756	0	145	0	942	420
Conventional Blended with Fuel Ethanol	0	0	0	0	0	0	0	0	0
Ed55 and Lower	0	0	0	0	0	0	0	0	0
Greater than Ed55	0	0	0	0	0	0	0	0	0
Conventional Other	97	0	0	756	0	145	0	942	420
Finished Aviation Gasoline	0	0	0	0	0	0	0	132	0
Kerosene-Type Jet Fuel	381	0	0	279	59	815	0	14,086	1,244
Kerosene	0	0	0	0	0	0	0	0	0
Distillate Fuel Oil	2,889	0	0	1,358	1,084	780	0	24,385	2,129
15 ppm sulfur and under	2,889	0	0	1,358	1,084	780	0	24,175	2,011
Greater than 15 ppm to 500 ppm sulfur	0	0	0	0	0	0	0	99	118
Greater than 500 ppm sulfur	0	0	0	0	0	0	0	111	0
Residual Fuel Oil	0	0	0	0	433	0	0	0	0
Petrochemical Feedstocks	0	0	0	0	104	0	0	0	37
Naphtha for Petrochemical Feedstock Use	0	0	0	0	94	0	0	0	37
Other Oils for Petrochemical Feedstock Use	0	0	0	0	10	0	0	0	0
Special Naphthas	0	0	0	0	0	0	0	0	10
Lubricants	0	0	0	10	18	0	0	301	200
Waxes	0	0	0	0	0	0	0	0	0
Marketable Petroleum Coke	0	19	0	551	568	7	10	105	22
Asphalt and Road Oil	2	0	0	1,215	310	10	300	319	323
Miscellaneous Products	0	0	0	0	0	0	0	0	8
Total	18,184	101	0	23,803	109,702	23,418	8,897	100,782	40,068

See footnotes at end of table.

Table 36. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail¹ Between PAD Districts, August 2023
(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	27,781	2,047	0	0	0	0	0
Petroleum Products	9	5,905	0	23,982	4,713	2,163	0	39	26	54
Natural Gas Liquids	0	90	0	22,792	4,471	119	0	0	0	0
Ethane	0	—	0	6,596	1,511	—	0	0	0	0
Propane	0	0	0	8,243	1,478	113	0	0	0	0
Normal Butane	0	3	0	3,485	427	1	0	0	0	0
Isobutane	0	87	0	1,338	342	6	0	0	0	0
Natural Gasoline	0	—	0	3,130	713	—	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	2,875	0	250	0	1,094	0	0	0	0
Reformulated - RBOB	—	1,306	0	0	0	0	0	0	0	—
Conventional	0	1,569	0	250	0	1,094	0	0	0	0
CBOB	0	1,569	0	250	0	1,094	0	0	0	0
GTAB	—	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	0	—	0	0	0	—
Biofuels (including Fuel Ethanol)	9	1,704	0	0	0	334	0	0	0	12
Fuel Ethanol	0	262	0	0	0	29	0	0	0	0
Biodiesel	3	84	0	0	0	0	0	0	0	12
Renewable Diesel Fuel	6	1,358	—	0	0	305	—	0	0	0
Other Biofuels ²	—	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	329	0	124	0	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	329	0	124	0	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	329	0	124	0	0	0	0
Finished Aviation Gasoline	—	—	0	—	0	—	0	—	0	—
Kerosene-Type Jet Fuel	0	259	0	12	0	15	0	0	0	0
Kerosene	—	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	0	877	0	435	0	196	0	0	0	0
15 ppm sulfur and under	0	877	0	435	0	196	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	—	13	0	0	0	0	0	0	0	—
Waxes	—	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	0	0	63	44	50	0	39	26	29
Asphalt and Road Oil	0	87	0	101	198	230	0	0	0	13
Miscellaneous Products	—	—	—	0	0	—	—	0	0	—
Total	9	5,905	0	51,763	6,760	2,163	0	39	26	54

— = No Data Reported.

¹ Movements of crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, renewable diesel fuel, 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 2023
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	549	26	0	961	64,104	8,062	2,916	441	18,039
Petroleum Products	17,260	85	0	21,313	48,799	15,382	5,680	96,750	20,384
Natural Gas Liquids	8,053	70	0	7,320	38,559	11,506	678	1,388	11,237
Ethane	6,240	0	—	288	18,164	2,635	—	0	1,018
Propane	1,041	7	0	5,002	11,078	4,590	345	1,388	1,530
Normal Butane	272	23	0	1,912	4,108	1,907	260	0	392
Isobutane	491	39	0	118	1,520	668	73	0	1,269
Natural Gasoline	9	0	—	0	3,689	1,706	—	0	7,028
Refinery Olefins	0	0	—	220	612	—	—	0	0
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	0	0	—	220	612	—	—	0	0
Normal Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	21	0	—	0	662	—	—	300	52
Motor Gasoline Blending Components	6,181	0	0	1,409	1,278	1,739	0	56,510	4,768
Reformulated - RBOB	0	0	0	0	0	203	0	6,067	2,250
Conventional	6,181	0	0	1,409	1,278	1,536	0	50,443	2,518
CBOB	6,181	0	0	1,409	1,175	1,536	0	49,439	2,066
GTAB	—	—	—	—	—	—	—	—	—
Other	0	0	—	0	103	—	—	1,004	452
Biofuels (including Fuel Ethanol)	0	0	0	9,069	5,046	420	4,788	0	0
Fuel Ethanol	0	0	0	9,007	4,836	398	4,008	0	0
Biodiesel	0	0	0	62	210	21	253	0	0
Renewable Diesel Fuel	0	0	0	0	0	0	528	0	0
Other Biofuels ²	—	—	—	0	0	—	—	0	—
Finished Motor Gasoline	66	0	0	717	150	113	0	1,567	242
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	66	0	0	717	150	113	0	1,567	242
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	66	0	0	717	150	113	0	1,567	242
Finished Aviation Gasoline	0	0	—	0	0	—	—	88	25
Kerosene-Type Jet Fuel	357	0	0	134	138	700	0	14,532	1,248
Kerosene	—	0	—	0	0	—	—	174	—
Distillate Fuel Oil	2,566	0	0	1,306	622	847	0	21,634	2,447
15 ppm sulfur and under	2,566	0	0	1,306	622	847	0	21,436	2,310
Greater than 15 ppm to 500 ppm sulfur	0	0	—	—	0	—	—	—	137
Greater than 500 ppm sulfur	—	0	—	0	0	—	—	198	—
Residual Fuel Oil	0	0	—	—	239	—	—	—	0
Petrochemical Feedstocks	0	0	—	—	145	—	—	—	45
Naphtha for Petrochemical Feedstock Use	0	0	—	—	78	—	—	—	45
Other Oils for Petrochemical Feedstock Use	0	0	—	—	67	—	—	—	0
Special Naphthas	0	0	—	—	0	—	—	—	17
Lubricants	0	0	0	41	0	—	0	223	90
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	16	0	234	1,030	29	20	25	29
Asphalt and Road Oil	16	0	0	863	318	28	195	308	178
Miscellaneous Products	0	0	—	—	0	—	—	—	7
Total	17,809	111	0	22,274	112,903	23,444	8,596	97,191	38,423

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, September 2023
(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	26,706	626	0	0	0	0	0	0
Petroleum Products	0	6,144	0	23,350	5,336	2,424	13	26	10	30	
Natural Gas Liquids	0	92	0	22,220	5,162	109	0	0	0	0	
Ethane	0	—	0	6,468	1,937	—	0	0	0	0	
Propane	0	0	0	8,109	1,512	88	0	0	0	0	
Normal Butane	0	59	0	3,367	577	11	0	0	0	0	
Isobutane	0	33	0	1,289	352	9	0	0	0	0	
Natural Gasoline	0	—	0	2,987	784	—	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	2,644	0	217	0	1,113	0	0	0	0	
Reformulated - RBOB	0	976	0	0	0	0	0	0	0	0	
Conventional	0	1,668	0	217	0	1,113	0	0	0	0	
CBOB	0	1,668	0	217	0	1,113	0	0	0	0	
GTAB	—	—	—	—	—	—	—	—	—	—	
Other	—	—	0	0	0	—	0	0	0	—	
Biofuels (including Fuel Ethanol)	0	2,224	0	0	0	424	0	0	0	24	
Fuel Ethanol	0	196	0	0	0	13	0	0	0	0	
Biodiesel	0	16	0	0	0	0	0	0	0	24	
Renewable Diesel Fuel	0	2,012	0	0	0	411	0	0	0	0	
Other Biofuels ²	—	—	0	—	0	—	0	—	0	—	
Finished Motor Gasoline	0	0	0	413	0	103	0	0	0	0	
Reformulated	—	—	—	—	—	—	—	—	—	—	
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—	
Reformulated Other	—	—	—	—	—	—	—	—	—	—	
Conventional	0	0	0	413	0	103	0	0	0	0	
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—	
Ed55 and Lower	—	—	—	—	—	—	—	—	—	—	
Greater than Ed55	—	—	—	—	—	—	—	—	—	—	
Conventional Other	0	0	0	413	0	103	0	0	0	0	
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	0	—	
Kerosene-Type Jet Fuel	0	229	0	12	0	9	0	0	0	0	
Kerosene	—	—	0	—	0	—	0	—	0	—	
Distillate Fuel Oil	0	852	0	356	0	259	0	0	0	0	
15 ppm sulfur and under	0	852	0	356	0	259	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	—	39	0	0	0	0	0	0	0	—	
Waxes	—	—	—	—	—	—	—	—	—	—	
Marketable Petroleum Coke	0	0	0	50	38	154	13	26	10	0	
Asphalt and Road Oil	0	64	0	82	136	252	0	0	0	5	
Miscellaneous Products	—	—	—	0	0	—	—	0	0	—	
Total	0	6,144	0	50,056	5,962	2,424	13	26	10	30	

— = No Data Reported.

¹ Movements of crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, renewable diesel fuel, 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 2023
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	449	20	0	1,135	69,052	8,383	3,426	115	20,230
Petroleum Products	16,342	106	0	22,884	50,569	14,704	5,732	106,007	19,377
Natural Gas Liquids	7,042	89	0	8,455	38,944	11,637	894	1,823	11,326
Ethane	5,250	0	—	170	18,469	2,846	—	0	975
Propane	1,032	4	0	6,192	11,660	4,598	413	1,823	1,026
Normal Butane	254	65	0	2,093	3,749	1,887	475	0	709
Isobutane	500	21	0	0	1,543	670	7	0	770
Natural Gasoline	6	0	—	0	3,523	1,636	—	0	7,845
Refinery Olefins	0	0	—	260	483	—	—	0	0
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	0	0	—	260	483	—	—	0	0
Normal Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	20	0	0	0	880	—	0	36	10
Motor Gasoline Blending Components	6,136	0	0	1,404	1,147	949	0	60,438	3,091
Reformulated - RBOB	0	0	0	0	0	342	0	7,908	1,566
Conventional	6,136	0	0	1,404	1,147	607	0	52,530	1,525
CBOB	6,136	0	0	1,404	916	607	0	52,016	1,060
GTAB	—	—	—	—	—	—	—	—	—
Other	0	0	—	0	231	—	—	514	465
Biofuels (including Fuel Ethanol)	0	0	0	9,346	6,187	424	4,624	20	50
Fuel Ethanol	0	0	0	9,246	5,989	405	3,896	0	0
Biodiesel	0	0	0	100	198	19	343	0	47
Renewable Diesel Fuel	0	0	0	0	0	0	384	20	3
Other Biofuels ²	—	—	—	—	0	—	0	—	—
Finished Motor Gasoline	55	0	0	954	178	0	0	1,409	156
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	55	0	0	954	178	0	0	1,409	156
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	55	0	0	954	178	0	0	1,409	156
Finished Aviation Gasoline	0	0	—	0	0	—	—	43	25
Kerosene-Type Jet Fuel	456	0	0	240	30	885	0	17,375	1,523
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	2,619	0	0	925	820	772	0	24,157	2,784
15 ppm sulfur and under	2,619	0	0	925	820	772	0	23,969	2,689
Greater than 15 ppm to 500 ppm sulfur	0	0	—	—	0	—	—	—	95
Greater than 500 ppm sulfur	—	0	—	0	0	—	—	188	—
Residual Fuel Oil	0	0	—	—	714	—	—	—	0
Petrochemical Feedstocks	0	0	—	—	81	—	—	—	36
Naphtha for Petrochemical Feedstock Use	0	0	—	—	81	—	—	—	36
Other Oils for Petrochemical Feedstock Use	—	—	—	—	—	—	—	—	—
Special Naphthas	0	0	—	—	0	—	—	—	17
Lubricants	0	0	—	21	0	—	—	295	208
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	12	0	82	609	3	20	57	25
Asphalt and Road Oil	13	4	0	1,196	496	33	195	354	111
Miscellaneous Products	0	0	—	—	0	—	—	—	14
Total	16,791	126	0	24,019	119,621	23,087	9,158	106,122	39,607

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, October 2023
(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	28,196	1,260	0	0	0	0	0
Petroleum Products	6	8,042	2	24,413	5,528	3,141	0	68	91	8
Natural Gas Liquids	0	209	0	22,933	5,235	678	0	0	0	0
Ethane	0	—	0	6,860	2,158	—	0	0	0	0
Propane	0	0	0	8,372	1,482	193	0	0	0	0
Normal Butane	0	166	0	3,402	556	420	0	0	0	0
Isobutane	0	43	0	1,309	344	65	0	0	0	0
Natural Gasoline	0	—	0	2,990	695	—	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	88	—
Motor Gasoline Blending Components	0	3,587	0	213	0	1,241	0	0	0	0
Reformulated - RBOB	0	1,918	0	0	0	0	0	0	0	0
Conventional	0	1,669	0	213	0	1,241	0	0	0	0
CBOB	0	1,669	0	213	0	1,241	0	0	0	0
GTAB	—	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	0	—	0	0	0	—
Biofuels (including Fuel Ethanol)	3	2,651	0	0	0	436	0	0	0	3
Fuel Ethanol	0	617	0	0	0	42	0	0	0	0
Biodiesel	0	40	0	0	0	0	0	0	0	3
Renewable Diesel Fuel	3	1,994	0	0	0	394	0	0	0	0
Other Biofuels ²	—	0	—	—	0	0	—	—	0	—
Finished Motor Gasoline	0	0	0	366	0	95	0	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	366	0	95	0	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	366	0	95	0	0	0	0
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	0	—
Kerosene-Type Jet Fuel	0	323	0	27	0	44	0	0	0	0
Kerosene	—	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	0	1,214	0	480	0	342	0	0	0	0
15 ppm sulfur and under	0	1,214	0	480	0	342	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	—	—	—	—	—	—	—	—	—	—
Special Naphthas	—	—	—	0	0	—	—	0	0	—
Lubricants	—	—	0	0	0	—	0	0	0	—
Waxes	—	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	3	0	315	75	50	0	68	3	0
Asphalt and Road Oil	2	55	2	79	218	255	0	0	0	5
Miscellaneous Products	—	—	—	0	0	—	—	0	0	—
Total	6	8,042	2	52,609	6,788	3,141	0	68	91	8

— = No Data Reported.

¹ Movements of crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, renewable diesel fuel, 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 2023
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	398	13	0	1,077	64,808	8,062	3,579	1,149	23,463
Petroleum Products	17,169	335	0	21,333	49,742	15,059	5,687	106,618	19,638
Natural Gas Liquids	7,815	14	0	6,964	37,019	12,167	1,087	1,914	11,359
Ethane	6,022	0	0	0	17,744	2,990	—	0	988
Propane	1,056	0	0	4,983	11,224	4,749	335	1,910	1,600
Normal Butane	225	0	0	1,938	3,508	1,979	697	4	612
Isobutane	505	14	0	44	1,497	707	55	0	1,015
Natural Gasoline	7	0	—	0	3,046	1,742	—	0	7,144
Refinery Olefins	0	0	—	188	547	—	—	0	0
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	0	0	—	188	547	—	—	0	0
Normal Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	20	0	—	0	1,761	—	—	33	10
Motor Gasoline Blending Components	6,090	0	0	1,266	1,302	805	0	59,179	3,044
Reformulated - RBOB	0	0	0	0	0	320	0	7,631	688
Conventional	6,090	0	0	1,266	1,302	485	0	51,548	2,356
CBOB	6,090	0	0	1,266	1,181	485	0	50,985	1,521
GTAB	—	—	—	—	—	—	—	—	—
Other	0	0	—	0	121	—	—	563	835
Biofuels (including Fuel Ethanol)	0	0	0	9,386	6,419	401	4,413	10	3
Fuel Ethanol	0	0	0	9,269	6,132	385	3,603	0	0
Biodiesel	0	0	0	117	286	17	463	0	0
Renewable Diesel Fuel	0	0	0	0	0	0	347	10	3
Other Biofuels ²	—	0	0	—	0	—	0	—	—
Finished Motor Gasoline	69	0	0	714	28	0	0	1,599	664
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	69	0	0	714	28	0	0	1,599	664
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	69	0	0	714	28	0	0	1,599	664
Finished Aviation Gasoline	0	0	—	0	0	—	—	319	25
Kerosene-Type Jet Fuel	407	268	0	235	32	820	0	15,818	2,172
Kerosene	—	0	—	0	0	—	—	108	—
Distillate Fuel Oil	2,732	50	0	1,226	684	813	0	26,856	2,093
15 ppm sulfur and under	2,732	50	0	1,226	684	813	0	26,568	1,967
Greater than 15 ppm to 500 ppm sulfur	0	0	—	—	0	—	—	—	126
Greater than 500 ppm sulfur	—	0	—	0	0	—	—	288	—
Residual Fuel Oil	0	0	—	—	621	—	—	—	0
Petrochemical Feedstocks	0	0	—	—	68	—	—	—	18
Naphtha for Petrochemical Feedstock Use	0	0	—	—	42	—	—	—	18
Other Oils for Petrochemical Feedstock Use	0	0	—	—	26	—	—	—	0
Special Naphthas	0	0	—	0	0	—	—	148	31
Lubricants	0	0	—	0	0	—	—	337	130
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	3	0	691	762	7	36	83	10
Asphalt and Road Oil	36	0	0	663	499	46	151	214	72
Miscellaneous Products	0	0	—	—	0	—	—	—	7
Total	17,567	348	0	22,410	114,550	23,121	9,266	107,767	43,101

See footnotes at end of table.

Table 36. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail¹ Between PAD Districts, November 2023
(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	28,516	2,431	0	0	0	0	0
Petroleum Products	5	7,408	2	23,875	4,791	3,799	6	13	13	5
Natural Gas Liquids	0	189	0	22,529	4,543	1,249	0	0	0	0
Ethane	0	—	0	6,450	1,500	—	0	0	0	0
Propane	0	0	0	8,355	1,455	374	0	0	0	0
Normal Butane	0	139	0	3,417	415	725	0	0	0	0
Isobutane	0	50	0	1,322	474	150	0	0	0	0
Natural Gasoline	0	—	0	2,985	699	—	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	3,706	0	213	0	1,124	0	0	0	0
Reformulated - RBOB	0	2,082	0	0	0	0	0	0	0	0
Conventional	0	1,624	0	213	0	1,124	0	0	0	0
CBOB	0	1,624	0	213	0	1,124	0	0	0	0
GTAB	—	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	0	—	0	0	0	—
Biofuels (including Fuel Ethanol)	0	2,607	0	0	0	417	0	0	0	0
Fuel Ethanol	0	563	0	0	0	78	0	0	0	0
Biodiesel	0	9	0	0	0	0	0	0	0	0
Renewable Diesel Fuel	0	2,035	0	0	0	339	0	0	0	0
Other Biofuels ²	—	0	—	—	0	0	—	—	0	—
Finished Motor Gasoline	0	0	0	377	0	67	0	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	377	0	67	0	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	377	0	67	0	0	0	0
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	0	—
Kerosene-Type Jet Fuel	0	178	0	8	0	44	0	0	0	0
Kerosene	—	—	0	—	0	—	0	—	0	—
Distillate Fuel Oil	0	653	0	399	0	377	0	0	0	0
15 ppm sulfur and under	0	653	0	399	0	377	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	0	0	—
Lubricants	—	—	0	0	0	—	0	0	0	—
Waxes	—	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	3	0	310	47	157	6	13	13	0
Asphalt and Road Oil	5	72	2	40	200	364	0	0	0	5
Miscellaneous Products	—	—	—	0	0	—	—	0	0	—
Total	5	7,408	2	52,391	7,222	3,799	6	13	13	5

— = No Data Reported.

¹ Movements of crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, renewable diesel fuel, 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 2023
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	570	16	0	1,087	62,384	8,508	3,681	1,064	22,099
Petroleum Products	15,954	65	0	24,631	50,932	14,669	5,427	109,660	17,878
Natural Gas Liquids	7,617	60	0	8,398	35,534	11,645	1,158	2,421	11,532
Ethane	5,743	0	–	13	15,208	2,497	–	0	976
Propane	1,082	11	0	6,406	11,860	4,804	366	2,389	1,570
Normal Butane	294	18	0	1,858	3,654	1,962	720	32	703
Isobutane	491	31	0	122	1,679	693	73	0	865
Natural Gasoline	7	0	–	0	3,133	1,689	–	0	7,418
Refinery Olefins	0	0	–	160	471	–	–	0	0
Ethylene	–	–	–	–	–	–	–	–	–
Propylene	0	0	–	160	471	–	–	0	0
Normal Butylene	–	–	–	–	–	–	–	–	–
Isobutylene	–	–	–	–	–	–	–	–	–
Unfinished Oils	60	0	–	0	1,315	–	–	47	61
Motor Gasoline Blending Components	5,335	0	0	1,516	1,507	1,035	0	60,002	2,961
Reformulated - RBOB	0	0	0	0	222	643	0	8,181	980
Conventional	5,335	0	0	1,516	1,285	392	0	51,821	1,981
CBOB	5,335	0	0	1,516	1,065	392	0	51,481	1,328
GTAB	–	–	–	–	–	–	–	–	–
Other	0	0	–	0	220	–	–	340	653
Biofuels (including Fuel Ethanol)	0	0	0	11,193	7,645	454	4,098	0	0
Fuel Ethanol	0	0	0	11,028	7,373	432	3,327	0	0
Biodiesel	0	0	0	165	272	21	403	0	0
Renewable Diesel Fuel	0	0	0	–	0	0	368	–	0
Other Biofuels ²	–	–	–	–	–	–	–	–	–
Finished Motor Gasoline	68	0	0	583	760	0	0	1,852	143
Reformulated	–	–	–	–	–	–	–	–	–
Reformulated Blended with Fuel Ethanol	–	–	–	–	–	–	–	–	–
Reformulated Other	–	–	–	–	–	–	–	–	–
Conventional	68	0	0	583	760	0	0	1,852	143
Conventional Blended with Fuel Ethanol	–	–	–	–	–	–	–	–	–
Ed55 and Lower	–	–	–	–	–	–	–	–	–
Greater than Ed55	–	–	–	–	–	–	–	–	–
Conventional Other	68	0	0	583	760	0	0	1,852	143
Finished Aviation Gasoline	0	0	–	0	0	–	–	37	45
Kerosene-Type Jet Fuel	434	0	0	149	47	809	0	15,548	1,441
Kerosene	–	0	–	0	0	–	–	109	–
Distillate Fuel Oil	2,357	0	0	1,427	886	691	0	28,910	1,396
15 ppm sulfur and under	2,357	0	0	1,427	886	691	0	28,696	1,192
Greater than 15 ppm to 500 ppm sulfur	0	0	–	–	0	–	–	–	133
Greater than 500 ppm sulfur	0	0	–	0	0	–	–	214	71
Residual Fuel Oil	0	0	–	0	955	–	–	57	0
Petrochemical Feedstocks	0	0	–	–	85	–	–	–	18
Naphtha for Petrochemical Feedstock Use	0	0	–	–	85	–	–	–	18
Other Oils for Petrochemical Feedstock Use	–	–	–	–	–	–	–	–	–
Special Naphthas	0	0	–	–	0	–	–	–	15
Lubricants	0	0	–	0	19	–	–	362	159
Waxes	–	–	–	–	–	–	–	–	–
Marketable Petroleum Coke	0	3	0	376	1,280	7	46	48	10
Asphalt and Road Oil	83	2	0	829	429	28	125	267	77
Miscellaneous Products	0	0	–	–	0	–	–	–	20
Total	16,524	81	0	25,718	113,316	23,177	9,108	110,724	39,977

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 2023
(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	30,545	2,664	0	0	0	0	0
Petroleum Products	6	7,468	0	23,790	4,761	3,496	53	10	23	105
Natural Gas Liquids	0	173	0	22,670	4,556	818	0	0	0	0
Ethane	0	—	0	5,963	1,502	—	0	0	0	0
Propane	0	0	0	8,719	1,465	212	0	0	0	0
Normal Butane	0	74	0	3,553	417	497	0	0	0	0
Isobutane	0	99	0	1,375	475	109	0	0	0	0
Natural Gasoline	0	—	0	3,060	697	—	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	3,906	0	202	0	1,327	0	0	0	0
Reformulated - RBOB	0	2,098	0	0	0	0	0	0	0	0
Conventional	0	1,808	0	202	0	1,327	0	0	0	0
CBOB	0	1,808	0	202	0	1,327	0	0	0	0
GTAB	—	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	0	—	0	0	0	—
Biofuels (including Fuel Ethanol)	6	1,980	0	0	0	402	0	0	0	3
Fuel Ethanol	0	281	0	0	0	81	0	0	0	0
Biodiesel	0	22	0	0	0	0	0	0	0	3
Renewable Diesel Fuel	6	1,677	—	0	0	321	—	0	0	0
Other Biofuels ²	—	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	441	0	84	0	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	441	0	84	0	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	441	0	84	0	0	0	0
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	0	—
Kerosene-Type Jet Fuel	0	265	0	12	0	6	50	0	0	0
Kerosene	—	—	0	—	0	—	0	—	0	—
Distillate Fuel Oil	0	999	0	387	0	353	0	0	0	0
15 ppm sulfur and under	0	999	0	387	0	353	0	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	—	0	0	—	0	0	0	—
Greater than 500 ppm sulfur	—	—	0	0	0	—	0	0	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	—	—	—	—	—	—	—	—	—	—
Special Naphthas	—	—	—	0	0	—	—	0	0	—
Lubricants	—	—	0	0	0	—	0	0	0	—
Waxes	—	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	6	0	19	31	358	3	10	23	84
Asphalt and Road Oil	0	139	0	59	173	149	0	0	0	18
Miscellaneous Products	—	—	—	0	0	—	—	0	0	—
Total	6	7,468	0	54,335	7,425	3,496	53	10	23	105

— = No Data Reported.

¹ Movements of crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, renewable diesel fuel, 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.