

Table 36. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, January 2019
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	243	73	0	3,141	65,529	7,345	4,311	1,994	34,215
Petroleum Products	15,788	529	0	19,399	39,574	7,361	5,891	116,281	17,582
Natural Gas Liquids	7,759	56	0	5,178	25,503	4,522	957	2,666	10,145
Ethane	5,450	0	0	0	11,548	719	0	0	993
Propane	1,248	29	0	4,153	8,640	2,140	328	2,611	1,858
Normal Butane	343	0	0	803	2,549	897	557	38	634
Isobutane	419	27	0	222	1,214	322	72	17	807
Natural Gasoline	299	0	0	0	1,552	444	0	0	5,853
Refinery Olefins	0	0	0	408	440	0	0	0	0
Ethylene	0	0	0	0	0	0	0	0	0
Propylene	0	0	0	408	440	0	0	0	0
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	615	0	0	262	286
Motor Gasoline Blending Components	5,447	0	0	1,259	2,011	1,003	0	62,237	3,793
Reformulated - RBOB	0	0	0	0	92	0	0	8,444	1,116
Conventional	5,447	0	0	1,259	1,919	1,003	0	53,793	2,677
CBOB	5,447	0	0	1,259	1,347	1,003	0	53,543	2,339
GTAB	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	572	0	0	250	338
Renewable Fuels	0	0	0	9,421	7,505	216	4,843	361	0
Fuel Ethanol	0	0	0	9,005	7,282	161	4,676	361	0
Renewable Diesel Fuel ²	0	0	0	417	223	54	167	0	0
Other Renewable Fuels	0	0	0	0	0	0	0	0	0
Finished Motor Gasoline	63	0	0	706	329	157	0	4,093	217
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	63	0	0	706	329	157	0	4,093	217
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	63	0	0	706	329	157	0	4,093	217
Finished Aviation Gasoline	0	0	0	0	0	0	0	104	10
Kerosene-Type Jet Fuel	252	0	0	116	0	965	0	15,036	1,318
Kerosene	20	0	0	0	0	0	0	233	0
Distillate Fuel Oil	2,174	0	0	1,292	1,219	498	0	30,555	1,514
15 ppm sulfur and under	2,174	0	0	1,292	1,219	498	0	29,299	1,390
Greater than 15 ppm to 500 ppm sulfur	0	0	0	0	0	0	0	86	124
Greater than 500 ppm sulfur	0	0	0	0	0	0	0	1,170	0
Residual Fuel Oil	0	218	0	0	1,215	0	0	0	0
Petrochemical Feedstocks	0	255	0	0	120	0	0	0	0
Naphtha for Petrochemical Feedstock Use	0	0	0	0	97	0	0	0	0
Other Oils for Petrochemical Feedstock Use	0	255	0	0	23	0	0	0	0
Special Naphthas	0	0	0	0	0	0	0	0	29
Lubricants	0	0	0	0	0	0	0	361	138
Waxes	0	0	0	0	0	0	0	0	0
Marketable Petroleum Coke	0	0	0	431	515	0	0	0	52
Asphalt and Road Oil	30	0	0	588	101	0	91	373	80
Miscellaneous Products	0	0	0	0	0	0	0	0	0
Total	16,031	602	0	22,540	105,103	14,706	10,202	118,275	51,797

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, January 2019
(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	602	0	25,855	1,182	76	0	0	0	0
Petroleum Products	0	5,371	0	12,876	3,941	2,699	0	50	0	21
Natural Gas Liquids	0	190	0	11,487	3,747	178	0	0	0	0
Ethane	0	—	0	2,941	1,725	—	0	0	0	0
Propane	0	0	0	4,568	941	28	0	0	0	0
Normal Butane	0	177	0	1,901	303	138	0	0	0	0
Isobutane	0	13	0	789	277	12	0	0	0	0
Natural Gasoline	0	—	0	1,288	501	—	0	0	0	0
Refinery Olefins	—	—	0	0	0	—	0	0	0	—
Ethylene	—	—	—	—	—	—	—	—	—	—
Propylene	—	—	0	0	0	—	0	0	0	—
Butylene	—	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—	—
Unfinished Oils	—	—	0	0	0	—	0	0	0	—
Motor Gasoline Blending Components	0	3,768	0	225	0	1,216	0	0	0	0
Reformulated - RBOB	—	2,299	0	0	0	0	0	0	0	—
Conventional	0	1,469	0	225	0	1,216	0	0	0	0
CBOB	0	1,469	0	225	0	1,216	0	0	0	0
GTAB	—	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	0	—	0	0	0	—
Renewable Fuels	0	407	0	0	0	0	0	0	0	0
Fuel Ethanol	0	228	0	0	0	0	0	0	0	0
Renewable Diesel Fuel ²	0	179	0	0	0	0	0	0	0	0
Other Renewable Fuels	—	—	—	0	0	—	—	0	0	—
Finished Motor Gasoline	0	0	0	340	0	380	0	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	340	0	380	0	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	340	0	380	0	0	0	0
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	0	—
Kerosene-Type Jet Fuel	0	192	0	42	0	60	0	0	0	0
Kerosene	—	—	0	0	0	—	0	0	0	—
Distillate Fuel Oil	0	694	0	514	0	371	0	0	0	0
15 ppm sulfur and under	0	694	0	514	0	371	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	—
Residual Fuel Oil	—	—	0	0	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	—	—	—	0	0	—	—	0	0	—
Lubricants	—	—	0	0	0	—	0	0	0	—
Waxes	—	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	0	0	50	96	133	0	50	0	0
Asphalt and Road Oil	0	121	0	218	98	361	0	0	0	21
Miscellaneous Products	—	—	—	—	—	—	—	—	—	—
Total	0	5,974	0	38,731	5,123	2,775	0	50	0	21

— = No Data Reported.

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

² Renewable diesel fuel includes biodiesel and other renewable diesel.

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

Table 36. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, February 2019
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	308	56	0	2,446	58,190	5,932	3,097	1,963	28,205
Petroleum Products	14,557	264	0	18,029	37,089	6,773	3,683	98,277	15,474
Natural Gas Liquids	7,019	135	0	5,499	24,759	3,892	684	1,903	7,588
Ethane	5,366	0	0	0	11,900	710	0	0	888
Propane	875	0	0	4,116	7,457	1,794	205	1,875	1,127
Normal Butane	236	0	0	1,191	2,707	754	374	14	311
Isobutane	303	135	0	192	1,129	274	105	14	488
Natural Gasoline	239	0	0	0	1,566	360	0	0	4,774
Refinery Olefins	0	0	0	203	201	0	0	0	0
Ethylene	0	0	0	0	0	0	0	0	0
Propylene	0	0	0	203	201	0	0	0	0
Butylene	0	0	0	0	0	0	0	0	0
Isobutylene	0	0	0	0	0	0	0	0	0
Unfinished Oils	9	0	0	0	471	0	0	0	455
Motor Gasoline Blending Components	4,955	0	0	1,109	2,062	1,338	0	49,669	3,689
Reformulated - RBOB	0	0	0	0	414	0	0	7,574	1,321
Conventional	4,955	0	0	1,109	1,648	1,338	0	42,095	2,368
CBOB	4,955	0	0	1,109	1,276	1,338	0	42,095	2,013
GTAB	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	372	0	0	0	355
Renewable Fuels	0	0	0	8,528	6,901	257	2,877	456	0
Fuel Ethanol	0	0	0	8,247	6,611	239	2,712	456	0
Renewable Diesel Fuel ²	0	0	0	281	290	18	165	0	0
Other Renewable Fuels	0	0	0	0	0	0	0	0	0
Finished Motor Gasoline	32	0	0	319	311	163	0	6,064	309
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	32	0	0	319	311	163	0	6,064	309
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	32	0	0	319	311	163	0	6,064	309
Finished Aviation Gasoline	0	0	0	0	0	0	0	49	9
Kerosene-Type Jet Fuel	207	0	0	99	7	666	0	13,818	1,763
Kerosene	0	0	0	0	0	0	0	228	0
Distillate Fuel Oil	2,335	0	0	1,225	1,146	457	0	25,427	1,329
15 ppm sulfur and under	2,335	0	0	1,225	1,146	457	0	24,303	1,195
Greater than 15 ppm to 500 ppm sulfur	0	0	0	0	0	0	0	0	134
Greater than 500 ppm sulfur	0	0	0	0	0	0	0	1,124	0
Residual Fuel Oil	0	129	0	0	442	0	0	0	0
Petrochemical Feedstocks	0	0	0	0	92	0	0	0	0
Naphtha for Petrochemical Feedstock Use	0	0	0	0	45	0	0	0	0
Other Oils for Petrochemical Feedstock Use	0	0	0	0	47	0	0	0	0
Special Naphthas	0	0	0	0	0	0	0	0	29
Lubricants	0	0	0	10	0	0	0	296	173
Waxes	0	0	0	0	0	0	0	0	0
Marketable Petroleum Coke	0	0	0	387	600	0	0	0	0
Asphalt and Road Oil	0	0	0	650	97	0	122	367	130
Miscellaneous Products	0	0	0	0	0	0	0	0	0
Total	14,865	320	0	20,475	95,279	12,705	6,779	100,240	43,679

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 2019
(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	21,568	1,000	0	0	0	0	0
Petroleum Products	0	4,848	0	12,146	3,451	2,614	0	25	0	41
Natural Gas Liquids	0	49	0	11,210	3,003	43	0	0	0	0
Ethane	0	—	0	3,125	1,136	—	0	0	0	0
Propane	0	0	0	4,332	861	0	0	0	0	0
Normal Butane	0	43	0	1,802	292	30	0	0	0	0
Isobutane	0	6	0	754	254	13	0	0	0	0
Natural Gasoline	0	—	0	1,197	460	—	0	0	0	0
Refinery Olefins	—	—	0	0	0	—	0	0	0	—
Ethylene	—	—	—	—	—	—	—	—	—	—
Propylene	—	—	0	0	0	—	0	0	0	—
Butylene	—	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—	—
Unfinished Oils	—	—	0	0	0	—	0	0	0	—
Motor Gasoline Blending Components	0	3,571	0	185	0	1,255	0	0	0	0
Reformulated - RBOB	—	2,210	0	0	0	0	0	0	0	—
Conventional	0	1,361	0	185	0	1,255	0	0	0	0
CBOB	0	1,361	0	185	0	1,255	0	0	0	0
GTAB	—	—	—	—	—	—	—	—	—	—
Other	—	—	—	0	0	—	—	0	0	—
Renewable Fuels	0	388	0	0	0	0	0	0	0	0
Fuel Ethanol	0	77	0	0	0	0	0	0	0	0
Renewable Diesel Fuel ²	0	311	0	0	0	0	0	0	0	0
Other Renewable Fuels	—	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	273	0	588	0	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	273	0	588	0	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	273	0	588	0	0	0	0
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	0	—
Kerosene-Type Jet Fuel	0	275	0	24	0	29	0	0	0	0
Kerosene	—	—	0	—	0	—	0	—	0	—
Distillate Fuel Oil	0	485	0	265	0	441	0	0	0	0
15 ppm sulfur and under	0	485	0	265	0	441	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	71	291	69	0	25	0	0
Asphalt and Road Oil	0	80	0	118	158	190	0	0	0	41
Miscellaneous Products	—	—	—	—	—	—	—	—	—	—
Total	0	4,848	0	33,714	4,451	2,614	0	25	0	41

— = No Data Reported.

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

² Renewable diesel fuel includes biodiesel and other renewable diesel.

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

Table 36. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, March 2019
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	333	64	0	3,356	70,290	6,495	5,251	2,246	27,650
Petroleum Products	18,342	231	0	20,324	39,988	7,471	4,840	115,256	18,398
Natural Gas Liquids	7,895	0	0	7,506	28,763	4,543	617	1,410	6,412
Ethane	6,338	0	0	0	14,038	855	0	0	928
Propane	872	0	0	5,467	8,238	2,084	439	1,410	893
Normal Butane	191	0	0	1,907	3,530	873	103	0	287
Isobutane	287	0	0	132	1,168	319	75	0	601
Natural Gasoline	207	0	0	0	1,789	412	0	0	3,703
Refinery Olefins	0	0	0	394	443	0	0	0	0
Ethylene	0	0	0	0	0	0	0	0	0
Propylene	0	0	0	394	443	0	0	0	0
Butylene	0	0	0	0	0	0	0	0	0
Isobutylene	0	0	0	0	0	0	0	0	0
Unfinished Oils	17	0	0	0	746	0	0	0	372
Motor Gasoline Blending Components	7,143	0	0	1,162	1,298	1,098	0	60,930	4,637
Reformulated - RBOB	0	0	0	0	0	0	0	7,591	1,164
Conventional	7,143	0	0	1,162	1,298	1,098	0	53,339	3,473
CBOB	7,143	0	0	1,162	1,163	1,098	0	53,107	2,680
GTAB	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	135	0	0	232	793
Renewable Fuels	0	0	0	8,698	5,914	293	4,071	386	0
Fuel Ethanol	0	0	0	8,287	5,456	220	4,000	317	0
Renewable Diesel Fuel ²	0	0	0	411	457	72	71	69	0
Other Renewable Fuels	0	0	0	0	0	0	0	0	0
Finished Motor Gasoline	81	0	0	340	264	150	0	6,750	532
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	81	0	0	340	264	150	0	6,750	532
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	81	0	0	340	264	150	0	6,750	532
Finished Aviation Gasoline	0	0	0	0	0	0	0	86	9
Kerosene-Type Jet Fuel	262	0	0	93	92	755	0	16,132	1,970
Kerosene	0	0	0	0	0	0	0	0	0
Distillate Fuel Oil	2,944	0	0	1,101	874	614	0	28,761	4,159
15 ppm sulfur and under	2,944	0	0	1,101	874	614	0	27,044	4,022
Greater than 15 ppm to 500 ppm sulfur	0	0	0	0	0	0	0	0	137
Greater than 500 ppm sulfur	0	0	0	0	0	0	0	1,717	0
Residual Fuel Oil	0	0	0	0	679	0	0	0	0
Petrochemical Feedstocks	0	0	0	0	46	0	0	0	0
Naphtha for Petrochemical Feedstock Use	0	0	0	0	46	0	0	0	0
Other Oils for Petrochemical Feedstock Use	0	0	0	0	0	0	0	0	0
Special Naphthas	0	0	0	0	0	0	0	0	0
Lubricants	0	0	0	0	0	0	0	351	128
Waxes	0	0	0	0	0	0	0	0	0
Marketable Petroleum Coke	0	0	0	552	523	0	0	83	26
Asphalt and Road Oil	0	0	0	478	346	18	152	367	153
Miscellaneous Products	0	231	0	0	0	0	0	0	0
Total	18,675	295	0	23,680	110,278	13,966	10,091	117,502	46,048

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 2019
(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	179	0	22,798	590	0	0	0	0	0
Petroleum Products	0	5,214	0	13,001	3,795	2,080	0	95	42	25
Natural Gas Liquids	0	41	0	12,041	3,506	0	0	0	0	0
Ethane	0	—	0	3,280	1,339	—	0	0	0	0
Propane	0	0	0	4,696	999	0	0	0	0	0
Normal Butane	0	21	0	1,953	347	0	0	0	0	0
Isobutane	0	20	0	817	291	0	0	0	0	0
Natural Gasoline	0	—	0	1,295	530	—	0	0	0	0
Refinery Olefins	—	—	0	0	0	—	0	0	0	—
Ethylene	—	—	—	—	—	—	—	—	—	—
Propylene	—	—	0	0	0	—	0	0	0	—
Butylene	—	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—	—
Unfinished Oils	—	—	0	0	0	—	0	0	0	—
Motor Gasoline Blending Components	0	3,771	0	152	0	1,095	0	0	0	0
Reformulated - RBOB	—	2,351	0	0	0	0	0	0	0	—
Conventional	0	1,420	0	152	0	1,095	0	0	0	0
CBOB	0	1,420	0	152	0	1,095	0	0	0	0
GTAB	—	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	0	—	0	0	0	—
Renewable Fuels	0	529	0	0	0	0	0	0	0	0
Fuel Ethanol	0	351	0	0	0	0	0	0	0	0
Renewable Diesel Fuel ²	0	178	0	0	0	0	0	0	0	0
Other Renewable Fuels	—	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	342	0	359	0	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	342	0	359	0	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	342	0	359	0	0	0	0
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	0	—
Kerosene-Type Jet Fuel	0	305	0	24	0	45	0	0	0	0
Kerosene	—	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	0	427	0	332	0	332	0	0	0	0
15 ppm sulfur and under	0	427	0	332	0	332	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	—	—	—	—	—	—	—	—	—	—
Lubricants	—	0	0	0	0	0	0	0	42	—
Waxes	—	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	0	0	0	140	46	0	95	0	25
Asphalt and Road Oil	0	141	0	110	150	204	0	0	0	0
Miscellaneous Products	—	—	0	—	0	—	0	—	0	—
Total	0	5,393	0	35,799	4,385	2,080	0	95	42	25

— = No Data Reported.

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

² Renewable diesel fuel includes biodiesel and other renewable diesel.

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

Table 36. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, April 2019
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	355	47	0	4,087	68,462	7,155	6,327	1,989	29,793
Petroleum Products	17,491	169	0	21,043	39,069	7,783	5,487	99,895	20,814
Natural Gas Liquids	7,563	149	0	6,039	28,353	4,277	500	1,044	6,484
Ethane	5,940	0	—	0	12,753	650	—	0	872
Propane	882	112	0	4,613	9,180	1,994	234	1,044	742
Normal Butane	219	10	0	1,188	3,187	870	186	0	257
Isobutane	302	27	0	238	1,245	317	80	0	457
Natural Gasoline	220	0	—	0	1,988	446	—	0	4,156
Refinery Olefins	0	0	—	192	218	—	—	0	0
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	0	0	—	192	218	—	—	0	0
Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	30	0	—	0	404	—	—	0	400
Motor Gasoline Blending Components	6,693	0	0	1,385	1,647	1,169	0	52,511	7,326
Reformulated - RBOB	0	0	0	106	164	—	—	6,136	2,663
Conventional	6,693	0	0	1,279	1,483	1,169	0	46,375	4,663
CBOB	6,693	0	0	1,279	1,372	1,169	0	46,338	3,774
GTAB	—	—	—	—	—	—	—	—	—
Other	0	0	—	0	111	—	—	37	889
Renewable Fuels	0	0	0	10,576	5,949	501	4,719	377	0
Fuel Ethanol	0	0	0	10,359	5,609	444	4,450	377	0
Renewable Diesel Fuel ²	0	0	0	217	340	57	268	0	0
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	111	0	0	306	227	319	0	5,306	975
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	111	0	0	306	227	319	0	5,306	975
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	111	0	0	306	227	319	0	5,306	975
Finished Aviation Gasoline	0	0	—	0	0	—	—	98	10
Kerosene-Type Jet Fuel	316	0	0	156	0	848	0	15,286	1,661
Kerosene	—	0	—	0	0	—	—	92	—
Distillate Fuel Oil	2,694	0	0	1,079	831	650	0	24,262	3,600
15 ppm sulfur and under	2,694	0	0	1,079	831	650	0	22,588	3,507
Greater than 15 ppm to 500 ppm sulfur	0	0	—	0	0	—	—	1	93
Greater than 500 ppm sulfur	—	0	—	0	0	—	—	1,673	—
Residual Fuel Oil	0	0	—	—	571	—	—	—	0
Petrochemical Feedstocks	0	0	—	—	122	—	—	—	20
Naphtha for Petrochemical Feedstock Use	0	0	—	—	98	—	—	—	0
Other Oils for Petrochemical Feedstock Use	0	0	—	—	24	—	—	—	20
Special Naphthas	0	0	—	—	0	—	—	—	39
Lubricants	0	0	—	20	0	—	—	500	145
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	0	0	730	361	0	0	0	0
Asphalt and Road Oil	84	20	0	560	385	19	268	419	151
Miscellaneous Products	0	0	—	—	0	—	—	—	3
Total	17,846	216	0	25,130	107,530	14,938	11,814	101,884	50,607

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, April 2019
(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	252	0	23,931	878	0	0	0	0	0
Petroleum Products	0	5,265	0	12,859	4,424	2,209	0	159	73	24
Natural Gas Liquids	0	43	0	12,004	3,963	95	0	0	0	0
Ethane	0	—	0	2,868	1,584	—	0	0	0	0
Propane	0	0	0	4,832	1,122	73	0	0	0	0
Normal Butane	0	19	0	2,038	374	13	0	0	0	0
Isobutane	0	24	0	853	314	9	0	0	0	0
Natural Gasoline	0	—	0	1,413	569	—	0	0	0	0
Refinery Olefins	—	—	0	0	0	—	0	0	0	—
Ethylene	—	—	—	—	—	—	—	—	—	—
Propylene	—	—	0	0	0	—	0	0	0	—
Butylene	—	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—	—
Unfinished Oils	—	—	0	0	0	—	0	0	0	—
Motor Gasoline Blending Components	0	3,520	0	121	0	841	0	0	0	0
Reformulated - RBOB	—	2,377	0	0	0	0	0	0	0	—
Conventional	0	1,143	0	121	0	841	0	0	0	0
CBOB	0	1,143	0	121	0	841	0	0	0	0
GTAB	—	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	0	—	0	0	0	—
Renewable Fuels	0	707	0	0	0	27	0	0	25	0
Fuel Ethanol	0	330	0	0	0	27	0	0	0	0
Renewable Diesel Fuel ²	0	377	0	0	0	0	0	0	25	0
Other Renewable Fuels	—	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	144	0	638	0	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	144	0	638	0	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	144	0	638	0	0	0	0
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	0	—
Kerosene-Type Jet Fuel	0	274	0	12	0	30	0	0	0	0
Kerosene	—	—	0	—	0	—	0	—	0	—
Distillate Fuel Oil	0	641	0	275	0	341	0	0	0	0
15 ppm sulfur and under	0	641	0	275	0	341	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	—	—	—	0	0	—	—	0	0	—
Special Naphthas	—	—	—	0	0	—	—	0	0	—
Lubricants	—	—	0	0	0	—	0	0	0	—
Waxes	—	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	0	0	89	134	111	0	159	48	24
Asphalt and Road Oil	0	79	0	214	327	125	0	0	0	0
Miscellaneous Products	—	—	—	0	0	—	—	0	0	—
Total	0	5,516	0	36,790	5,302	2,209	0	159	73	24

— = No Data Reported.

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

² Renewable diesel fuel includes biodiesel and other renewable diesel.

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

Table 36. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, May 2019
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	392	44	0	5,552	69,015	6,698	6,186	2,255	33,950
Petroleum Products	16,596	229	0	20,742	39,871	8,189	5,262	110,522	22,927
Natural Gas Liquids	6,722	209	0	6,235	27,933	4,335	486	737	6,229
Ethane	5,124	0	—	0	11,991	520	—	0	813
Propane	811	52	0	4,403	8,047	2,108	240	737	762
Normal Butane	241	74	0	1,635	3,774	916	77	0	245
Isobutane	322	83	0	197	1,128	333	169	0	328
Natural Gasoline	224	0	—	0	2,993	458	—	0	4,081
Refinery Olefins	0	0	—	465	332	—	—	0	0
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	0	0	—	465	332	—	—	0	0
Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	18	0	—	0	1,336	—	—	0	173
Motor Gasoline Blending Components	6,731	0	0	1,374	1,595	1,662	0	59,012	11,118
Reformulated - RBOB	0	0	0	64	162	—	—	7,160	7,496
Conventional	6,731	0	0	1,310	1,433	1,662	0	51,852	3,622
CBOB	6,731	0	0	1,310	1,300	1,662	0	51,702	3,007
GTAB	—	—	—	—	—	—	—	—	—
Other	0	0	—	0	133	—	—	150	615
Renewable Fuels	0	0	0	10,490	6,237	422	4,574	436	0
Fuel Ethanol	0	0	0	10,300	5,876	384	4,364	436	0
Renewable Diesel Fuel ²	0	0	0	190	360	38	209	0	0
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	80	0	0	275	153	240	0	6,767	1,466
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	80	0	0	275	153	240	0	6,767	1,466
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	80	0	0	275	153	240	0	6,767	1,466
Finished Aviation Gasoline	0	0	—	0	0	—	—	100	13
Kerosene-Type Jet Fuel	384	0	0	83	0	840	0	15,752	1,405
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	2,661	0	0	990	1,048	671	0	26,409	2,183
15 ppm sulfur and under	2,661	0	0	990	1,048	671	0	24,892	2,058
Greater than 15 ppm to 500 ppm sulfur	0	0	—	0	0	—	—	1	125
Greater than 500 ppm sulfur	—	—	—	—	—	—	—	1,516	—
Residual Fuel Oil	0	0	—	—	686	—	—	—	0
Petrochemical Feedstocks	0	0	—	0	43	—	—	109	0
Naphtha for Petrochemical Feedstock Use	0	0	—	—	43	—	—	—	0
Other Oils for Petrochemical Feedstock Use	—	—	—	0	0	—	—	109	—
Special Naphthas	0	0	—	—	0	—	—	—	19
Lubricants	0	0	0	0	0	—	0	511	149
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	0	0	181	248	0	0	26	0
Asphalt and Road Oil	0	20	0	649	261	19	202	663	172
Miscellaneous Products	—	—	—	—	—	—	—	—	—
Total	16,988	273	0	26,293	108,886	14,887	11,448	112,777	56,877

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 2019
(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	95	0	23,461	1,072	0	0	0	0	0
Petroleum Products	0	5,082	0	13,705	4,174	2,197	24	48	143	49
Natural Gas Liquids	0	158	0	12,219	3,892	146	0	0	0	0
Ethane	0	—	0	2,627	1,202	—	0	0	0	0
Propane	0	0	0	5,047	1,255	29	0	0	0	0
Normal Butane	0	121	0	2,124	433	16	0	0	0	0
Isobutane	0	37	0	887	356	101	0	0	0	0
Natural Gasoline	0	—	0	1,534	646	—	0	0	0	0
Refinery Olefins	—	—	0	0	0	—	0	0	0	—
Ethylene	—	—	—	—	—	—	—	—	—	—
Propylene	—	—	0	0	0	—	0	0	0	—
Butylene	—	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—	—
Unfinished Oils	—	—	0	0	0	—	0	0	0	—
Motor Gasoline Blending Components	0	3,850	0	155	0	944	0	0	0	0
Reformulated - RBOB	—	2,446	0	0	0	0	0	0	0	—
Conventional	0	1,404	0	155	0	944	0	0	0	0
CBOB	0	1,404	0	155	0	944	0	0	0	0
GTAB	—	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	0	—	0	0	0	—
Renewable Fuels	0	67	0	0	0	0	0	0	0	25
Fuel Ethanol	0	0	0	0	0	0	0	0	0	0
Renewable Diesel Fuel ²	0	67	0	0	0	0	0	0	0	25
Other Renewable Fuels	—	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	404	0	590	0	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	404	0	590	0	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	404	0	590	0	0	0	0
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	0	—
Kerosene-Type Jet Fuel	0	295	0	22	0	25	0	0	0	0
Kerosene	—	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	0	514	0	476	0	293	0	0	0	0
15 ppm sulfur and under	0	514	0	476	0	293	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	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	95	—
Waxes	—	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	0	0	143	125	45	24	48	48	24
Asphalt and Road Oil	0	198	0	286	157	155	0	0	0	0
Miscellaneous Products	—	—	—	—	—	—	—	—	—	—
Total	0	5,177	0	37,166	5,245	2,197	24	48	143	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 Renewable diesel fuel includes biodiesel and other renewable diesel.

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

Table 36. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, June 2019
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	359	28	0	4,573	68,499	6,131	5,363	1,656	29,974
Petroleum Products	16,461	281	0	19,936	38,857	7,773	5,393	102,423	23,587
Natural Gas Liquids	6,588	281	0	6,319	26,835	4,389	544	659	6,817
Ethane	5,018	0	—	0	11,334	564	—	0	939
Propane	895	110	0	4,423	7,548	2,106	250	659	926
Normal Butane	147	92	0	1,599	4,522	917	243	0	304
Isobutane	271	79	0	297	1,256	337	51	0	271
Natural Gasoline	257	0	—	0	2,175	465	—	0	4,377
Refinery Olefins	0	0	—	306	217	—	—	0	0
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	0	0	—	306	217	—	—	0	0
Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	40	0	—	0	1,561	—	—	52	412
Motor Gasoline Blending Components	6,693	0	0	1,170	2,037	1,598	0	55,756	11,307
Reformulated - RBOB	0	0	0	10	256	—	—	8,626	7,226
Conventional	6,693	0	0	1,160	1,781	1,598	0	47,130	4,081
CBOB	6,693	0	0	1,160	1,617	1,598	0	47,130	3,403
GTAB	—	—	—	—	—	—	—	—	—
Other	0	0	—	—	164	—	—	—	678
Renewable Fuels	0	0	0	9,289	6,363	170	4,637	195	0
Fuel Ethanol	0	0	0	9,173	6,212	170	4,561	175	0
Renewable Diesel Fuel ²	0	0	0	116	150	—	76	20	0
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	94	0	0	378	157	244	0	2,060	1,545
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	94	0	0	378	157	244	0	2,060	1,545
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	94	0	0	378	157	244	0	2,060	1,545
Finished Aviation Gasoline	—	0	—	0	0	—	—	45	—
Kerosene-Type Jet Fuel	324	0	0	129	50	807	0	14,978	1,549
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	2,722	0	0	1,102	962	546	0	27,468	1,612
15 ppm sulfur and under	2,722	0	0	1,102	962	546	0	26,374	1,514
Greater than 15 ppm to 500 ppm sulfur	0	0	—	—	0	—	—	—	98
Greater than 500 ppm sulfur	—	0	—	0	0	—	—	1,094	—
Residual Fuel Oil	0	0	—	—	110	—	—	—	0
Petrochemical Feedstocks	—	0	—	0	0	—	—	109	—
Naphtha for Petrochemical Feedstock Use	—	—	—	—	—	—	—	—	—
Other Oils for Petrochemical Feedstock Use	—	0	—	0	0	—	—	109	—
Special Naphthas	0	0	—	—	0	—	—	—	10
Lubricants	0	0	—	0	0	—	—	591	118
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	0	0	616	195	0	0	81	0
Asphalt and Road Oil	0	0	0	628	361	19	211	429	217
Miscellaneous Products	0	0	—	—	10	—	—	—	0
Total	16,820	309	0	24,509	107,356	13,904	10,756	104,079	53,561

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, June 2019
(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	235	0	26,903	860	0	0	0	0	0
Petroleum Products	0	4,766	20	12,716	4,061	2,250	0	0	96	0
Natural Gas Liquids	0	117	0	11,334	3,388	83	0	0	0	0
Ethane	0	—	0	2,228	1,036	—	0	0	0	0
Propane	0	0	0	4,779	1,124	72	0	0	0	0
Normal Butane	0	82	0	2,012	401	10	0	0	0	0
Isobutane	0	35	0	837	305	1	0	0	0	0
Natural Gasoline	0	—	0	1,478	522	—	0	0	0	0
Refinery Olefins	—	—	0	0	0	—	0	0	0	—
Ethylene	—	—	—	—	—	—	—	—	—	—
Propylene	—	—	0	0	0	—	0	0	0	—
Butylene	—	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—	—
Unfinished Oils	—	—	0	0	0	—	0	0	0	—
Motor Gasoline Blending Components	0	3,433	0	131	0	957	0	0	0	0
Reformulated - RBOB	—	2,155	0	0	0	0	0	0	0	—
Conventional	0	1,278	0	131	0	957	0	0	0	0
CBOB	0	1,278	0	131	0	957	0	0	0	0
GTAB	—	—	—	—	—	—	—	—	—	—
Other	—	—	—	0	0	—	—	0	0	—
Renewable Fuels	0	564	0	0	0	0	0	0	0	0
Fuel Ethanol	0	205	0	0	0	0	0	0	0	0
Renewable Diesel Fuel ²	—	359	0	0	0	0	0	0	0	—
Other Renewable Fuels	—	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	370	0	358	0	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	370	0	358	0	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	370	0	358	0	0	0	0
Finished Aviation Gasoline	—	—	0	—	0	—	0	—	0	—
Kerosene-Type Jet Fuel	0	197	0	12	0	10	0	0	0	0
Kerosene	—	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	0	376	0	457	0	387	0	0	0	0
15 ppm sulfur and under	0	376	0	457	0	387	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	—	—	0	0	0	—	0	0	0	—
Waxes	—	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	0	0	226	492	49	0	0	96	0
Asphalt and Road Oil	0	79	20	186	180	406	0	0	0	0
Miscellaneous Products	—	—	—	0	0	—	—	0	0	—
Total	0	5,001	20	39,619	4,921	2,250	0	0	96	0

— = No Data Reported.

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

² Renewable diesel fuel includes biodiesel and other renewable diesel.

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

Table 36. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, July 2019
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	330	37	0	3,877	70,504	6,581	6,585	1,962	31,774
Petroleum Products	16,881	107	0	21,247	37,855	8,425	4,673	105,466	20,958
Natural Gas Liquids	6,244	82	0	6,975	25,746	4,635	399	891	7,456
Ethane	4,508	0	—	0	9,290	641	—	0	853
Propane	933	0	0	5,004	8,619	2,175	158	891	835
Normal Butane	169	0	0	1,651	3,932	954	139	0	319
Isobutane	359	82	0	320	1,495	351	102	0	734
Natural Gasoline	275	0	—	0	2,410	514	—	0	4,715
Refinery Olefins	0	0	—	292	508	—	—	0	0
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	0	0	—	292	508	—	—	0	0
Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	18	0	—	0	888	—	—	0	213
Motor Gasoline Blending Components	7,474	0	0	1,236	1,778	1,506	0	59,861	8,317
Reformulated - RBOB	0	0	0	0	298	—	—	9,571	4,639
Conventional	7,474	0	0	1,236	1,480	1,506	0	50,290	3,678
CBOB	7,474	0	0	1,236	1,197	1,506	0	50,114	2,798
GTAB	—	—	—	—	—	—	—	—	—
Other	0	0	0	0	283	—	0	176	880
Renewable Fuels	0	0	0	10,039	5,115	545	4,092	265	0
Fuel Ethanol	0	0	0	9,916	4,958	477	3,751	230	0
Renewable Diesel Fuel ²	0	0	0	123	158	69	341	35	0
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	113	0	0	218	157	158	0	1,821	1,389
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	113	0	0	218	157	158	0	1,821	1,389
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	113	0	0	218	157	158	0	1,821	1,389
Finished Aviation Gasoline	0	0	—	0	0	—	—	118	25
Kerosene-Type Jet Fuel	331	0	0	87	0	943	0	15,919	1,615
Kerosene	—	0	—	0	0	—	—	32	—
Distillate Fuel Oil	2,701	0	0	1,038	1,725	638	0	25,094	1,470
15 ppm sulfur and under	2,701	0	0	1,038	1,725	638	0	23,801	1,415
Greater than 15 ppm to 500 ppm sulfur	0	0	—	—	0	—	—	—	55
Greater than 500 ppm sulfur	—	—	—	—	—	—	—	1,293	—
Residual Fuel Oil	0	0	—	—	1,103	—	—	—	0
Petrochemical Feedstocks	0	0	—	0	140	—	—	305	0
Naphtha for Petrochemical Feedstock Use	0	0	—	—	140	—	—	—	0
Other Oils for Petrochemical Feedstock Use	—	—	—	0	0	—	—	305	—
Special Naphthas	0	0	—	—	0	—	—	—	26
Lubricants	0	0	0	0	0	—	0	490	140
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	25	0	572	561	0	24	0	0
Asphalt and Road Oil	0	0	0	790	134	0	158	670	304
Miscellaneous Products	0	0	—	—	0	—	—	—	3
Total	17,211	144	0	25,125	108,359	15,006	11,258	107,428	52,732

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 2019
(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	305	0	25,799	1,253	0	0	0	0	0
Petroleum Products	0	5,082	0	12,761	3,517	2,098	0	25	146	50
Natural Gas Liquids	0	170	0	11,480	3,322	115	0	0	0	0
Ethane	0	—	0	2,041	842	—	0	0	0	0
Propane	0	0	0	4,888	1,154	90	0	0	0	0
Normal Butane	0	132	0	2,082	391	25	0	0	0	0
Isobutane	0	38	0	862	320	0	0	0	0	0
Natural Gasoline	0	—	0	1,607	615	—	0	0	0	0
Refinery Olefins	—	—	0	0	0	—	0	0	0	—
Ethylene	—	—	—	—	—	—	—	—	—	—
Propylene	—	—	0	0	0	—	0	0	0	—
Butylene	—	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—	—
Unfinished Oils	—	—	0	0	0	—	0	0	0	—
Motor Gasoline Blending Components	0	3,777	0	212	0	958	0	0	0	0
Reformulated - RBOB	—	2,260	0	0	0	0	0	0	0	—
Conventional	0	1,517	0	212	0	958	0	0	0	0
CBOB	0	1,340	0	212	0	958	0	0	0	0
GTAB	—	—	—	—	—	—	—	—	—	—
Other	—	177	0	0	0	0	0	0	0	—
Renewable Fuels	0	375	0	0	0	28	0	0	0	50
Fuel Ethanol	0	289	0	0	0	28	0	0	0	0
Renewable Diesel Fuel ²	0	86	0	0	0	0	0	0	0	50
Other Renewable Fuels	—	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	472	0	342	0	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	472	0	342	0	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	472	0	342	0	0	0	0
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	0	—
Kerosene-Type Jet Fuel	0	199	0	12	0	10	0	0	0	0
Kerosene	—	—	0	—	0	—	0	—	0	—
Distillate Fuel Oil	0	522	0	357	0	344	0	0	0	0
15 ppm sulfur and under	0	522	0	357	0	344	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	—
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	0	158	0	0	25	50	0
Asphalt and Road Oil	0	39	0	228	38	301	0	0	0	0
Miscellaneous Products	—	—	—	0	0	—	—	0	0	—
Total	0	5,387	0	38,560	4,770	2,098	0	25	146	50

— = No Data Reported.

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

² Renewable diesel fuel includes biodiesel and other renewable diesel.

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

Table 36. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, August 2019
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	350	178	0	2,902	69,683	7,194	4,752	733	31,006
Petroleum Products	17,539	260	0	21,387	39,696	9,088	5,057	109,940	22,998
Natural Gas Liquids	6,948	210	0	6,634	27,626	5,082	650	1,253	8,620
Ethane	4,699	0	-	0	9,616	730	-	0	830
Propane	1,193	12	0	4,927	10,150	2,333	241	1,253	879
Normal Butane	389	35	0	1,644	4,313	1,038	253	0	314
Isobutane	371	163	0	63	1,275	383	156	0	528
Natural Gasoline	296	0	-	0	2,272	598	-	0	6,069
Refinery Olefins	0	0	-	216	279	-	-	0	0
Ethylene	-	-	-	-	-	-	-	-	-
Propylene	0	0	-	216	279	-	-	0	0
Butylene	-	-	-	-	-	-	-	-	-
Isobutylene	-	-	-	-	-	-	-	-	-
Unfinished Oils	19	0	-	0	294	-	-	53	356
Motor Gasoline Blending Components	7,310	0	0	1,252	2,093	1,451	0	64,614	8,068
Reformulated - RBOB	0	0	0	0	120	-	0	9,906	4,786
Conventional	7,310	0	0	1,252	1,973	1,451	0	54,708	3,282
CBOB	7,310	0	0	1,252	1,711	1,451	0	54,341	2,685
GTAB	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	262	-	-	367	597
Renewable Fuels	0	0	0	9,747	6,339	743	4,184	95	0
Fuel Ethanol	0	0	0	9,610	5,941	690	4,079	95	0
Renewable Diesel Fuel ²	0	0	0	137	398	53	106	0	0
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	118	0	0	210	193	222	0	2,237	1,570
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	118	0	0	210	193	222	0	2,237	1,570
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	118	0	0	210	193	222	0	2,237	1,570
Finished Aviation Gasoline	0	0	-	-	0	-	-	-	33
Kerosene-Type Jet Fuel	304	0	0	139	58	976	0	15,202	1,563
Kerosene	-	0	-	0	0	-	-	121	-
Distillate Fuel Oil	2,840	0	0	1,341	1,162	595	0	24,933	2,043
15 ppm sulfur and under	2,840	0	0	1,285	1,162	595	0	24,100	1,813
Greater than 15 ppm to 500 ppm sulfur	0	0	-	56	0	-	-	0	179
Greater than 500 ppm sulfur	0	0	-	0	0	-	-	833	51
Residual Fuel Oil	0	0	-	-	779	-	-	-	0
Petrochemical Feedstocks	0	0	-	0	94	-	-	305	0
Naphtha for Petrochemical Feedstock Use	0	0	-	-	94	-	-	-	0
Other Oils for Petrochemical Feedstock Use	0	0	-	0	0	-	-	305	-
Special Naphthas	0	0	-	-	0	-	-	-	39
Lubricants	0	0	-	0	0	-	-	671	134
Waxes	-	-	-	-	-	-	-	-	-
Marketable Petroleum Coke	0	50	0	614	422	0	24	79	26
Asphalt and Road Oil	0	0	0	1,234	357	19	199	377	546
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total	17,889	438	0	24,290	109,379	16,282	9,809	110,673	54,004

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 2019
(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	386	0	25,717	1,273	0	0	0	0	0
Petroleum Products	0	4,923	0	12,489	3,732	2,394	0	0	25	25
Natural Gas Liquids	0	197	0	11,067	3,100	226	0	0	0	0
Ethane	0	—	0	2,453	734	—	0	0	0	0
Propane	0	0	0	4,431	1,049	226	0	0	0	0
Normal Butane	0	131	0	1,913	383	0	0	0	0	0
Isobutane	0	66	0	785	303	0	0	0	0	0
Natural Gasoline	0	—	0	1,485	631	—	0	0	0	0
Refinery Olefins	—	—	0	0	0	—	0	0	0	—
Ethylene	—	—	—	—	—	—	—	—	—	—
Propylene	—	—	0	0	0	—	0	0	0	—
Butylene	—	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—	—
Unfinished Oils	—	—	0	0	0	—	0	0	0	—
Motor Gasoline Blending Components	0	3,540	0	172	0	1,021	0	0	0	0
Reformulated - RBOB	—	2,178	0	0	0	0	0	0	0	—
Conventional	0	1,362	0	172	0	1,021	0	0	0	0
CBOB	0	1,362	0	172	0	1,021	0	0	0	0
GTAB	—	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	0	—	0	0	0	—
Renewable Fuels	0	140	0	0	0	0	0	0	0	25
Fuel Ethanol	0	47	0	0	0	0	0	0	0	0
Renewable Diesel Fuel ²	0	93	0	0	0	0	0	0	0	25
Other Renewable Fuels	—	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	434	0	370	0	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	434	0	370	0	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	434	0	370	0	0	0	0
Finished Aviation Gasoline	—	—	—	0	0	—	—	0	0	—
Kerosene-Type Jet Fuel	0	320	0	24	0	10	0	0	0	0
Kerosene	—	—	0	—	0	—	0	—	0	—
Distillate Fuel Oil	0	511	0	472	0	320	0	0	0	0
15 ppm sulfur and under	0	511	0	472	0	320	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	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	124	345	20	0	0	25	0
Asphalt and Road Oil	0	215	0	195	286	427	0	0	0	0
Miscellaneous Products	—	—	—	—	—	—	—	—	—	—
Total	0	5,310	0	38,206	5,004	2,394	0	0	25	25

— = No Data Reported.

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

² Renewable diesel fuel includes biodiesel and other renewable diesel.

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

Table 36. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, September 2019
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	339	27	0	4,102	60,187	6,922	4,238	2,557	26,611
Petroleum Products	16,174	357	0	20,380	39,066	8,577	4,213	94,996	18,331
Natural Gas Liquids	6,540	191	0	6,620	28,898	4,969	667	1,256	6,999
Ethane	4,829	0	—	0	11,062	630	—	0	714
Propane	1,005	0	0	4,761	9,281	2,338	217	1,256	879
Normal Butane	121	28	0	1,719	4,851	1,034	290	0	315
Isobutane	317	163	0	140	1,325	378	160	0	372
Natural Gasoline	268	0	—	0	2,379	589	—	0	4,719
Refinery Olefins	0	0	—	271	414	—	—	0	0
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	0	0	—	271	414	—	—	0	0
Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	9	0	—	0	943	—	—	0	296
Motor Gasoline Blending Components	6,602	0	0	1,360	1,556	1,458	0	55,286	6,048
Reformulated - RBOB	0	0	0	0	171	—	—	6,804	2,901
Conventional	6,602	0	0	1,360	1,385	1,458	0	48,482	3,147
CBOB	6,574	0	0	1,360	1,080	1,458	0	48,330	2,699
GTAB	—	—	—	—	—	—	—	—	—
Other	28	0	—	0	305	—	—	152	448
Renewable Fuels	0	0	0	8,915	5,006	431	3,283	345	0
Fuel Ethanol	0	0	0	8,863	4,728	378	3,054	250	0
Renewable Diesel Fuel ²	0	0	0	53	278	53	229	95	0
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	70	0	0	280	241	243	0	2,721	971
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	70	0	0	280	241	243	0	2,721	971
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	70	0	0	280	241	243	0	2,721	971
Finished Aviation Gasoline	0	0	—	0	0	—	—	98	10
Kerosene-Type Jet Fuel	299	0	0	117	0	908	0	13,988	1,507
Kerosene	—	0	—	0	0	—	—	198	—
Distillate Fuel Oil	2,654	0	0	1,130	1,092	518	0	20,411	2,050
15 ppm sulfur and under	2,654	0	0	1,130	1,092	518	0	19,793	1,941
Greater than 15 ppm to 500 ppm sulfur	0	0	—	—	0	—	—	—	109
Greater than 500 ppm sulfur	—	0	—	0	0	—	—	618	—
Residual Fuel Oil	0	121	—	0	516	—	—	0	0
Petrochemical Feedstocks	0	0	—	—	91	—	—	—	0
Naphtha for Petrochemical Feedstock Use	0	0	—	—	91	—	—	—	0
Other Oils for Petrochemical Feedstock Use	—	—	—	—	—	—	—	—	—
Special Naphthas	—	—	—	—	—	—	—	—	—
Lubricants	0	0	0	0	0	—	0	361	146
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	25	0	718	134	50	0	0	26
Asphalt and Road Oil	0	20	0	969	176	0	263	332	278
Miscellaneous Products	—	—	—	—	—	—	—	—	—
Total	16,513	384	0	24,482	99,253	15,499	8,451	97,553	44,942

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 2019
(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	669	0	25,849	414	0	0	0	0	0
Petroleum Products	0	4,671	95	12,206	3,421	2,290	25	0	138	50
Natural Gas Liquids	0	0	0	11,344	2,919	149	0	0	0	0
Ethane	0	0	0	2,224	639	—	0	0	0	0
Propane	0	0	0	4,730	1,018	79	0	0	0	0
Normal Butane	0	0	0	2,020	372	70	0	0	0	0
Isobutane	0	0	0	826	292	0	0	0	0	0
Natural Gasoline	0	—	0	1,544	598	—	0	0	0	0
Refinery Olefins	—	—	0	0	0	—	0	0	0	—
Ethylene	—	—	—	—	—	—	—	—	—	—
Propylene	—	—	0	0	0	—	0	0	0	—
Butylene	—	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—	—
Unfinished Oils	—	—	0	0	0	—	0	0	0	—
Motor Gasoline Blending Components	0	3,357	0	160	0	1,048	0	0	0	0
Reformulated - RBOB	—	2,001	0	0	0	0	0	0	0	—
Conventional	0	1,356	0	160	0	1,048	0	0	0	0
CBOB	0	1,356	0	160	0	1,048	0	0	0	0
GTAB	—	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	0	—	0	0	0	—
Renewable Fuels	0	214	0	0	0	0	0	0	0	0
Fuel Ethanol	0	0	0	0	0	0	0	0	0	0
Renewable Diesel Fuel ²	0	214	0	0	0	0	0	0	0	0
Other Renewable Fuels	—	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	218	0	376	0	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	218	0	376	0	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	218	0	376	0	0	0	0
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	0	—
Kerosene-Type Jet Fuel	0	247	0	18	0	10	0	0	0	0
Kerosene	—	—	0	—	0	—	0	—	0	—
Distillate Fuel Oil	0	794	0	420	0	351	0	0	0	0
15 ppm sulfur and under	0	794	0	420	0	351	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	—	—	—	—	—	—	—	—	—	—
Special Naphthas	—	—	—	—	—	—	—	—	—	—
Lubricants	—	0	0	0	0	0	0	0	88	—
Waxes	—	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	0	0	0	236	81	25	0	50	50
Asphalt and Road Oil	0	59	95	46	265	275	0	0	0	0
Miscellaneous Products	—	—	—	—	—	—	—	—	—	—
Total	0	5,339	95	38,055	3,835	2,290	25	0	138	50

— = No Data Reported.

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

² Renewable diesel fuel includes biodiesel and other renewable diesel.

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

Table 36. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, October 2019
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	390	40	0	4,529	62,054	7,126	5,109	2,582	24,072
Petroleum Products	16,663	79	0	20,833	41,461	8,876	5,415	100,720	18,157
Natural Gas Liquids	6,923	54	0	6,917	29,702	5,306	814	1,492	7,996
Ethane	4,978	0	—	0	12,595	751	—	0	731
Propane	1,080	0	0	5,146	9,501	2,502	361	1,467	961
Normal Butane	186	0	0	1,659	3,881	1,075	257	17	370
Isobutane	394	54	0	112	1,328	392	196	8	850
Natural Gasoline	285	0	—	0	2,397	586	—	0	5,084
Refinery Olefins	0	0	—	77	291	—	—	0	0
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	0	0	—	77	291	—	—	0	0
Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	0	0	—	—	1,295	—	—	—	141
Motor Gasoline Blending Components	6,377	0	0	1,233	1,655	1,547	0	57,105	5,009
Reformulated - RBOB	0	0	0	0	115	—	—	8,602	1,460
Conventional	6,377	0	0	1,233	1,540	1,547	0	48,503	3,549
CBOB	6,377	0	0	1,233	1,381	1,547	0	48,503	3,013
GTAB	—	—	—	—	—	—	—	—	—
Other	0	0	—	—	159	—	—	—	536
Renewable Fuels	0	0	0	8,964	5,716	346	4,427	327	0
Fuel Ethanol	0	0	0	8,808	5,555	346	4,216	327	0
Renewable Diesel Fuel ²	0	0	0	157	161	0	211	0	0
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	105	0	0	582	287	201	0	2,491	813
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	105	0	0	582	287	201	0	2,491	813
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	105	0	0	582	287	201	0	2,491	813
Finished Aviation Gasoline	0	0	—	0	0	—	—	117	20
Kerosene-Type Jet Fuel	276	0	0	78	50	687	0	16,064	1,583
Kerosene	—	0	—	0	0	—	—	117	—
Distillate Fuel Oil	2,982	0	0	1,215	1,070	789	0	21,982	2,131
15 ppm sulfur and under	2,982	0	0	1,215	1,070	789	0	20,936	2,051
Greater than 15 ppm to 500 ppm sulfur	0	0	—	0	0	—	—	4	80
Greater than 500 ppm sulfur	—	0	—	0	0	—	—	1,042	—
Residual Fuel Oil	0	0	—	—	458	—	—	—	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	—	—	—	13
Lubricants	0	0	—	10	0	—	—	446	195
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	25	0	701	726	0	47	55	0
Asphalt and Road Oil	0	0	0	1,056	114	0	127	524	250
Miscellaneous Products	0	0	—	—	0	—	—	—	6
Total	17,053	119	0	25,362	103,516	16,002	10,524	103,302	42,229

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 2019
(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	863	0	27,789	483	0	0	0	0	0
Petroleum Products	0	5,221	0	12,867	4,048	2,304	0	25	0	50
Natural Gas Liquids	0	101	0	11,686	3,600	206	0	0	0	0
Ethane	0	—	0	2,339	1,259	—	0	0	0	0
Propane	0	0	0	4,874	1,074	172	0	0	0	0
Normal Butane	0	80	0	2,070	369	30	0	0	0	0
Isobutane	0	21	0	847	308	4	0	0	0	0
Natural Gasoline	0	—	0	1,556	590	—	0	0	0	0
Refinery Olefins	—	—	0	0	0	—	0	0	0	—
Ethylene	—	—	—	—	—	—	—	—	—	—
Propylene	—	—	0	0	0	—	0	0	0	—
Butylene	—	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—	—
Unfinished Oils	—	—	—	0	0	—	—	0	0	—
Motor Gasoline Blending Components	0	3,721	0	218	0	1,085	0	0	0	0
Reformulated - RBOB	—	2,254	0	0	0	0	0	0	0	—
Conventional	0	1,467	0	218	0	1,085	0	0	0	0
CBOB	0	1,467	0	218	0	1,085	0	0	0	0
GTAB	—	—	—	—	—	—	—	—	—	—
Other	—	—	—	0	0	—	—	0	0	—
Renewable Fuels	0	397	0	0	0	0	0	0	0	25
Fuel Ethanol	0	198	0	0	0	0	0	0	0	0
Renewable Diesel Fuel ²	0	199	0	0	0	0	0	0	0	25
Other Renewable Fuels	—	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	402	0	333	0	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	402	0	333	0	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	402	0	333	0	0	0	0
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	0	—
Kerosene-Type Jet Fuel	0	247	0	33	0	10	0	0	0	0
Kerosene	—	—	0	—	0	—	0	—	0	—
Distillate Fuel Oil	0	638	0	242	0	337	0	0	0	0
15 ppm sulfur and under	0	638	0	242	0	337	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	—
Lubricants	—	—	0	0	0	—	0	0	0	—
Waxes	—	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	0	0	110	356	89	0	25	0	25
Asphalt and Road Oil	0	117	0	176	93	245	0	0	0	0
Miscellaneous Products	—	—	—	0	0	—	—	0	0	—
Total	0	6,084	0	40,656	4,532	2,304	0	25	0	50

— = No Data Reported.

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

² Renewable diesel fuel includes biodiesel and other renewable diesel.

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

Table 36. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, November 2019
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	361	162	0	6,146	61,370	6,443	4,402	2,895	20,964
Petroleum Products	15,615	25	0	20,183	36,523	8,910	4,471	110,391	19,119
Natural Gas Liquids	6,652	0	0	6,108	24,898	5,172	978	2,041	8,718
Ethane	4,670	0	-	0	10,423	631	-	0	675
Propane	1,131	0	0	4,474	7,893	2,477	327	1,961	1,823
Normal Butane	192	0	0	1,532	2,888	1,079	449	56	410
Isobutane	378	0	0	102	1,393	392	202	24	783
Natural Gasoline	281	0	-	0	2,301	593	-	0	5,027
Refinery Olefins	0	0	-	79	316	-	-	0	0
Ethylene	-	-	-	-	-	-	-	-	-
Propylene	0	0	-	79	316	-	-	0	0
Butylene	-	-	-	-	-	-	-	-	-
Isobutylene	-	-	-	-	-	-	-	-	-
Unfinished Oils	46	0	-	0	505	-	-	0	107
Motor Gasoline Blending Components	6,043	0	0	1,225	2,214	1,404	0	56,989	4,613
Reformulated - RBOB	0	0	0	0	363	-	-	9,603	2,044
Conventional	6,043	0	0	1,225	1,851	1,404	0	47,386	2,569
CBOB	6,043	0	0	1,225	1,361	1,404	0	47,386	2,420
GTAB	-	-	-	-	-	-	-	-	-
Other	0	0	-	-	490	-	-	-	149
Renewable Fuels	0	0	0	9,216	6,410	506	3,217	199	0
Fuel Ethanol	0	0	0	9,096	6,134	453	2,992	182	0
Renewable Diesel Fuel ²	0	0	0	120	276	53	225	17	0
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	47	0	0	743	204	179	0	3,971	529
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	47	0	0	743	204	179	0	3,971	529
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	47	0	0	743	204	179	0	3,971	529
Finished Aviation Gasoline	0	0	-	0	0	-	-	45	30
Kerosene-Type Jet Fuel	367	0	0	41	0	1,028	0	15,564	2,385
Kerosene	-	0	-	0	0	-	-	464	-
Distillate Fuel Oil	2,442	0	0	1,079	702	578	0	30,374	2,313
15 ppm sulfur and under	2,442	0	0	1,036	702	578	0	28,858	2,153
Greater than 15 ppm to 500 ppm sulfur	0	0	-	43	0	-	-	144	160
Greater than 500 ppm sulfur	0	0	-	0	0	-	-	1,372	-
Residual Fuel Oil	0	0	-	-	606	-	-	-	0
Petrochemical Feedstocks	0	0	-	-	48	-	-	-	47
Naphtha for Petrochemical Feedstock Use	0	0	-	-	48	-	-	-	47
Other Oils for Petrochemical Feedstock Use	-	-	-	-	-	-	-	-	-
Special Naphthas	0	0	-	-	0	-	-	-	19
Lubricants	0	0	-	0	0	-	-	301	146
Waxes	-	-	-	-	-	-	-	-	-
Marketable Petroleum Coke	0	25	0	983	162	26	0	0	26
Asphalt and Road Oil	18	0	0	676	458	18	277	443	185
Miscellaneous Products	0	-	-	34	-	-	-	0	0
Total	15,976	187	0	26,329	97,893	15,353	8,874	113,286	40,083

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 2019
(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	834	0	25,980	616	0	0	0	0	0
Petroleum Products	0	4,690	0	12,715	3,743	2,328	0	50	25	0
Natural Gas Liquids	0	57	0	11,446	3,546	196	0	0	0	0
Ethane	0	—	0	2,245	1,287	—	0	0	0	0
Propane	0	0	0	4,799	1,023	56	0	0	0	0
Normal Butane	0	29	0	2,048	357	124	0	0	0	0
Isobutane	0	28	0	834	311	16	0	0	0	0
Natural Gasoline	0	—	0	1,520	568	—	0	0	0	0
Refinery Olefins	—	—	0	0	0	—	0	0	0	—
Ethylene	—	—	—	—	—	—	—	—	—	—
Propylene	—	—	0	0	0	—	0	0	0	—
Butylene	—	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—	—
Unfinished Oils	—	—	0	0	0	—	0	0	0	—
Motor Gasoline Blending Components	0	3,718	0	173	0	1,120	0	0	0	0
Reformulated - RBOB	—	2,170	0	0	0	0	0	0	0	—
Conventional	0	1,548	0	173	0	1,120	0	0	0	0
CBOB	0	1,548	0	173	0	1,120	0	0	0	0
GTAB	—	—	—	—	—	—	—	—	—	—
Other	—	—	—	0	0	—	—	0	0	—
Renewable Fuels	0	156	0	0	0	28	0	0	0	0
Fuel Ethanol	0	0	0	0	0	28	0	0	0	0
Renewable Diesel Fuel ²	0	156	0	0	0	0	0	0	0	0
Other Renewable Fuels	—	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	359	0	364	0	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	359	0	364	0	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	359	0	364	0	0	0	0
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	0	—
Kerosene-Type Jet Fuel	0	242	0	18	0	0	0	0	0	0
Kerosene	—	—	0	—	0	—	0	—	0	—
Distillate Fuel Oil	0	420	0	339	0	209	0	0	0	0
15 ppm sulfur and under	0	420	0	339	0	209	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	0	0	113	67	121	0	50	25	0
Asphalt and Road Oil	0	98	0	267	131	290	0	0	0	0
Miscellaneous Products	—	—	0	0	—	—	0	0	—	—
Total	0	5,524	0	38,695	4,359	2,328	0	50	25	0

— = No Data Reported.

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

² Renewable diesel fuel includes biodiesel and other renewable diesel.

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

Table 36. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, December 2019
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	335	40	0	4,509	64,019	6,768	4,623	1,975	20,354
Petroleum Products	16,148	28	0	21,915	37,110	9,003	6,607	113,217	21,171
Natural Gas Liquids	6,772	28	0	7,027	24,667	5,629	1,556	2,771	11,352
Ethane	4,867	0	-	0	10,794	855	-	0	794
Propane	1,000	0	0	5,061	7,763	2,611	289	2,602	2,547
Normal Butane	249	0	0	1,665	2,502	1,121	1,040	154	479
Isobutane	375	28	0	301	1,154	405	227	15	827
Natural Gasoline	281	0	-	0	2,454	637	-	0	6,705
Refinery Olefins	0	0	-	235	248	-	-	0	0
Ethylene	-	-	-	-	-	-	-	-	-
Propylene	0	0	-	235	248	-	-	0	0
Butylene	-	-	-	-	-	-	-	-	-
Isobutylene	-	-	-	-	-	-	-	-	-
Unfinished Oils	44	0	0	0	365	-	0	0	303
Motor Gasoline Blending Components	6,309	0	0	1,093	2,263	1,295	0	58,912	4,560
Reformulated - RBOB	0	0	0	0	381	-	0	9,717	1,393
Conventional	6,309	0	0	1,093	1,882	1,295	0	49,195	3,167
CBOB	6,309	0	0	1,093	1,382	1,295	0	49,195	2,963
GTAB	-	-	-	-	-	-	-	-	-
Other	0	0	-	-	500	-	-	-	204
Renewable Fuels	0	0	0	9,959	6,579	411	4,837	459	0
Fuel Ethanol	0	0	0	9,718	6,256	376	4,557	459	0
Renewable Diesel Fuel ²	0	0	0	241	324	35	280	0	0
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	84	0	0	1,102	530	193	0	3,466	401
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	84	0	0	1,102	530	193	0	3,466	401
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	84	0	0	1,102	530	193	0	3,466	401
Finished Aviation Gasoline	0	0	-	0	0	-	-	94	10
Kerosene-Type Jet Fuel	318	0	0	41	20	905	0	16,808	1,741
Kerosene	14	0	-	0	0	-	-	274	0
Distillate Fuel Oil	2,583	0	0	1,184	807	547	0	29,531	2,303
15 ppm sulfur and under	2,583	0	0	1,148	807	547	0	27,768	2,094
Greater than 15 ppm to 500 ppm sulfur	0	0	-	36	0	-	-	3	166
Greater than 500 ppm sulfur	0	0	-	0	0	-	-	1,760	43
Residual Fuel Oil	0	0	-	-	728	-	-	-	0
Petrochemical Feedstocks	0	0	-	-	192	-	-	-	0
Naphtha for Petrochemical Feedstock Use	0	0	-	-	146	-	-	-	0
Other Oils for Petrochemical Feedstock Use	0	0	-	-	46	-	-	-	0
Special Naphthas	0	0	-	-	0	-	-	-	23
Lubricants	0	0	-	0	0	-	-	400	122
Waxes	-	-	-	-	-	-	-	-	-
Marketable Petroleum Coke	0	0	0	629	524	24	0	0	0
Asphalt and Road Oil	24	0	0	610	186	0	214	502	344
Miscellaneous Products	0	0	-	36	0	-	-	0	12
Total	16,483	68	0	26,424	101,128	15,771	11,230	115,192	41,525

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, December 2019
(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	386	0	27,788	982	0	0	0	0	0
Petroleum Products	0	4,851	0	13,353	3,684	2,912	0	0	186	20
Natural Gas Liquids	0	100	0	12,154	3,446	306	0	0	0	0
Ethane	0	—	0	2,429	1,220	—	0	0	0	0
Propane	0	0	0	5,059	1,019	149	0	0	0	0
Normal Butane	0	65	0	2,172	353	136	0	0	0	0
Isobutane	0	35	0	887	302	21	0	0	0	0
Natural Gasoline	0	—	0	1,607	552	—	0	0	0	0
Refinery Olefins	—	—	0	0	0	—	0	0	0	—
Ethylene	—	—	—	—	—	—	—	—	—	—
Propylene	—	—	0	0	0	—	0	0	0	—
Butylene	—	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—	—
Unfinished Oils	—	0	0	0	0	0	0	0	161	—
Motor Gasoline Blending Components	0	3,558	0	155	0	1,352	0	0	0	0
Reformulated - RBOB	—	2,179	0	0	0	0	0	0	0	—
Conventional	0	1,379	0	155	0	1,352	0	0	0	0
CBOB	0	1,379	0	155	0	1,352	0	0	0	0
GTAB	—	—	—	—	—	—	—	—	—	—
Other	—	—	—	0	0	—	—	0	0	—
Renewable Fuels	0	229	0	0	0	28	0	0	0	0
Fuel Ethanol	0	0	0	0	0	28	0	0	0	0
Renewable Diesel Fuel ²	0	229	0	0	0	0	0	0	0	0
Other Renewable Fuels	—	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	432	0	372	0	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	432	0	372	0	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	432	0	372	0	0	0	0
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	0	—
Kerosene-Type Jet Fuel	0	204	0	36	0	0	0	0	0	0
Kerosene	—	—	0	0	0	—	0	0	0	—
Distillate Fuel Oil	0	551	0	427	0	497	0	0	0	0
15 ppm sulfur and under	0	551	0	427	0	497	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	—	—	—	0	0	—	—	0	0	—
Special Naphthas	—	—	—	0	0	—	—	0	0	—
Lubricants	—	—	0	0	0	—	0	0	0	—
Waxes	—	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	53	0	18	48	40	0	0	25	0
Asphalt and Road Oil	0	156	0	131	190	317	0	0	0	20
Miscellaneous Products	—	—	0	0	0	—	0	0	0	—
Total	0	5,237	0	41,141	4,666	2,912	0	0	186	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 Renewable diesel fuel includes biodiesel and other renewable diesel.

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