

Table 37. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, January 2019
(Thousand Barrels)

Commodity	From 1 to		From 2 to			From 3 to			
	2	3	1	3	4	1	2	4	5
Crude Oil	162	73	233	62,199	7,345	164	34,215	0	-
Petroleum Products	15,337	0	4,334	27,301	7,145	87,888	15,993	0	4,654
Natural Gas Liquids	7,381	0	1,918	24,656	4,522	2,468	9,597	0	-
Ethane	5,450	0	0	11,548	719	0	993	0	-
Propane	1,122	0	1,918	8,095	2,140	2,468	1,731	0	-
Normal Butane	154	0	0	2,529	897	0	345	0	-
Isobutane	356	0	0	932	322	0	675	0	-
Natural Gasoline	299	0	0	1,552	444	0	5,853	0	-
Motor Gasoline Blending Components	5,447	0	778	1,347	1,003	44,869	3,766	0	3,768
Reformulated - RBOB	0	0	0	92	-	8,078	1,116	-	2,299
Conventional	5,447	0	778	1,255	1,003	36,791	2,650	0	1,469
CBOB	5,447	0	778	1,255	1,003	36,791	2,339	0	1,469
GTAB	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	-	-	311	-	-
Renewable Fuels	-	-	-	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-	-	-	-
Renewable Diesel Fuel ¹	-	-	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	63	0	668	126	157	2,973	192	0	0
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	63	0	668	126	157	2,973	192	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	63	0	668	126	157	2,973	192	0	0
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	252	0	116	0	965	11,476	1,243	0	192
Kerosene	20	0	0	0	-	233	0	-	-
Distillate Fuel Oil	2,174	0	854	1,172	498	25,869	1,195	0	694
15 ppm sulfur and under	2,174	0	854	1,172	498	24,613	1,071	0	694
Greater than 15 ppm to 500 ppm sulfur	0	0	0	0	-	86	124	-	-
Greater than 500 ppm sulfur	-	0	0	0	-	1,170	-	-	-
Residual Fuel Oil	-	-	-	-	-	-	-	-	-
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total	15,499	73	4,567	89,500	14,490	88,052	50,208	0	4,654

See footnotes at end of table.

Table 37. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, January 2019
(Thousand Barrels) — Continued

Commodity	From 4 to				From 5 to	
	1	2	3	5	3	4
Crude Oil	0	25,855	302	-	0	0
Petroleum Products	0	12,608	3,747	2,027	0	0
Natural Gas Liquids	0	11,487	3,747	-	0	0
Ethane	0	2,941	1,725	-	0	0
Propane	0	4,568	941	-	0	0
Normal Butane	0	1,901	303	-	0	0
Isobutane	0	789	277	-	0	0
Natural Gasoline	0	1,288	501	-	0	0
Motor Gasoline Blending Components	0	225	0	1,216	0	0
Reformulated - RBOB	0	0	0	0	0	-
Conventional	0	225	0	1,216	0	0
CBOB	0	225	0	1,216	0	0
GTAB	-	-	-	-	-	-
Other	-	0	0	-	0	-
Renewable Fuels	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-
Renewable Diesel Fuel ¹	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-
Finished Motor Gasoline	0	340	0	380	0	0
Reformulated	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-
Conventional	0	340	0	380	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-
Conventional Other	0	340	0	380	0	0
Finished Aviation Gasoline	-	-	-	-	-	-
Kerosene-Type Jet Fuel	0	42	0	60	0	0
Kerosene	0	0	0	0	0	-
Distillate Fuel Oil	0	514	0	371	0	0
15 ppm sulfur and under	0	514	0	371	0	0
Greater than 15 ppm to 500 ppm sulfur	0	0	0	-	0	-
Greater than 500 ppm sulfur	0	-	0	-	0	-
Residual Fuel Oil	-	-	-	-	-	-
Miscellaneous Products	-	-	-	-	-	-
Total	0	38,463	4,049	2,027	0	0

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Renewable diesel fuel includes biodiesel and other renewable diesel.

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

Table 37. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, February 2019
(Thousand Barrels)

Commodity	From 1 to		From 2 to			From 3 to			
	2	3	1	3	4	1	2	4	5
Crude Oil	147	56	195	56,060	5,932	142	28,205	0	-
Petroleum Products	14,404	0	5,140	26,760	6,516	78,689	14,162	0	4,161
Natural Gas Liquids	6,875	0	3,226	23,975	3,892	1,640	7,491	0	-
Ethane	5,366	0	0	11,900	710	0	888	0	-
Propane	875	0	2,652	6,880	1,794	1,640	1,127	0	-
Normal Butane	120	0	574	2,587	754	0	254	0	-
Isobutane	275	0	0	1,042	274	0	448	0	-
Natural Gasoline	239	0	0	1,566	360	0	4,774	0	-
Motor Gasoline Blending Components	4,955	0	753	1,650	1,338	39,972	3,612	0	3,401
Reformulated - RBOB	0	0	0	414	-	7,574	1,321	-	2,210
Conventional	4,955	0	753	1,236	1,338	32,398	2,291	0	1,191
CBOB	4,955	0	753	1,236	1,338	32,398	2,013	0	1,191
GTAB	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	-	-	278	-	-
Renewable Fuels	-	-	-	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-	-	-	-
Renewable Diesel Fuel ¹	-	-	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	32	0	286	111	163	2,979	184	0	0
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	32	0	286	111	163	2,979	184	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	32	0	286	111	163	2,979	184	0	0
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	207	0	81	7	666	11,496	1,644	0	275
Kerosene	-	0	0	0	-	228	-	-	-
Distillate Fuel Oil	2,335	0	794	1,017	457	22,374	1,231	0	485
15 ppm sulfur and under	2,335	0	794	1,017	457	21,250	1,097	0	485
Greater than 15 ppm to 500 ppm sulfur	0	0	-	0	-	-	134	-	-
Greater than 500 ppm sulfur	-	0	0	0	-	1,124	-	-	-
Residual Fuel Oil	-	-	-	-	-	-	-	-	-
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total	14,551	56	5,335	82,820	12,448	78,831	42,367	0	4,161

See footnotes at end of table.

Table 37. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, February 2019
(Thousand Barrels) — Continued

Commodity	From 4 to				From 5 to	
	1	2	3	5	3	4
Crude Oil	0	21,568	310	-	0	0
Petroleum Products	0	11,957	3,003	2,313	0	0
Natural Gas Liquids	0	11,210	3,003	-	0	0
Ethane	0	3,125	1,136	-	0	0
Propane	0	4,332	861	-	0	0
Normal Butane	0	1,802	292	-	0	0
Isobutane	0	754	254	-	0	0
Natural Gasoline	0	1,197	460	-	0	0
Motor Gasoline Blending Components	0	185	0	1,255	0	0
Reformulated - RBOB	0	0	0	0	0	-
Conventional	0	185	0	1,255	0	0
CBOB	0	185	0	1,255	0	0
GTAB	-	-	-	-	-	-
Other	-	0	0	-	0	-
Renewable Fuels	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-
Renewable Diesel Fuel ¹	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-
Finished Motor Gasoline	0	273	0	588	0	0
Reformulated	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-
Conventional	0	273	0	588	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-
Conventional Other	0	273	0	588	0	0
Finished Aviation Gasoline	-	-	-	-	-	-
Kerosene-Type Jet Fuel	0	24	0	29	0	0
Kerosene	0	-	0	-	0	-
Distillate Fuel Oil	0	265	0	441	0	0
15 ppm sulfur and under	0	265	0	441	0	0
Greater than 15 ppm to 500 ppm sulfur	-	0	0	-	0	-
Greater than 500 ppm sulfur	0	-	0	-	0	-
Residual Fuel Oil	-	-	-	-	-	-
Miscellaneous Products	-	-	-	-	-	-
Total	0	33,525	3,313	2,313	0	0

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Renewable diesel fuel includes biodiesel and other renewable diesel.

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

Table 37. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, March 2019
(Thousand Barrels)

Commodity	From 1 to		From 2 to			From 3 to			
	2	3	1	3	4	1	2	4	5
Crude Oil	122	64	251	66,993	6,495	150	27,650	0	-
Petroleum Products	18,022	0	7,130	29,933	7,160	87,442	16,189	0	4,503
Natural Gas Liquids	7,632	0	5,090	27,739	4,543	1,380	6,253	0	-
Ethane	6,338	0	0	14,038	855	0	928	0	-
Propane	752	0	3,720	7,606	2,084	1,380	865	0	-
Normal Butane	102	0	1,370	3,299	873	0	262	0	-
Isobutane	233	0	0	1,007	319	0	495	0	-
Natural Gasoline	207	0	0	1,789	412	0	3,703	0	-
Motor Gasoline Blending Components	7,122	0	853	1,143	1,098	45,179	4,117	0	3,771
Reformulated - RBOB	0	0	0	0	-	7,591	1,164	-	2,351
Conventional	7,122	0	853	1,143	1,098	37,588	2,953	0	1,420
CBOB	7,122	0	853	1,143	1,098	37,588	2,680	0	1,420
GTAB	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	-	-	273	-	-
Renewable Fuels	-	-	-	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-	-	-	-
Renewable Diesel Fuel ¹	-	-	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	81	0	331	100	150	2,255	301	0	0
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	81	0	331	100	150	2,255	301	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	81	0	331	100	150	2,255	301	0	0
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	243	0	93	92	755	13,742	1,803	0	305
Kerosene	-	-	-	-	-	-	-	-	-
Distillate Fuel Oil	2,944	0	763	859	614	24,886	3,715	0	427
15 ppm sulfur and under	2,944	0	763	859	614	23,169	3,578	0	427
Greater than 15 ppm to 500 ppm sulfur	0	0	-	0	-	-	137	-	-
Greater than 500 ppm sulfur	-	0	0	0	-	1,717	-	-	-
Residual Fuel Oil	-	-	-	-	-	-	-	-	-
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total	18,144	64	7,381	96,926	13,655	87,592	43,839	0	4,503

See footnotes at end of table.

Table 37. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, March 2019
(Thousand Barrels) — Continued

Commodity	From 4 to				From 5 to	
	1	2	3	5	3	4
Crude Oil	0	22,798	325	-	0	0
Petroleum Products	0	12,891	3,506	1,831	0	0
Natural Gas Liquids	0	12,041	3,506	-	0	0
Ethane	0	3,280	1,339	-	0	0
Propane	0	4,696	999	-	0	0
Normal Butane	0	1,953	347	-	0	0
Isobutane	0	817	291	-	0	0
Natural Gasoline	0	1,295	530	-	0	0
Motor Gasoline Blending Components	0	152	0	1,095	0	0
Reformulated - RBOB	0	0	0	0	0	-
Conventional	0	152	0	1,095	0	0
CBOB	0	152	0	1,095	0	0
GTAB	-	-	-	-	-	-
Other	-	0	0	-	0	-
Renewable Fuels	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-
Renewable Diesel Fuel ¹	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-
Finished Motor Gasoline	0	342	0	359	0	0
Reformulated	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-
Conventional	0	342	0	359	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-
Conventional Other	0	342	0	359	0	0
Finished Aviation Gasoline	-	-	-	-	-	-
Kerosene-Type Jet Fuel	0	24	0	45	0	0
Kerosene	-	-	-	-	-	-
Distillate Fuel Oil	0	332	0	332	0	0
15 ppm sulfur and under	0	332	0	332	0	0
Greater than 15 ppm to 500 ppm sulfur	-	0	0	-	0	-
Greater than 500 ppm sulfur	0	-	0	-	0	-
Residual Fuel Oil	-	-	-	-	-	-
Miscellaneous Products	-	-	-	-	-	-
Total	0	35,689	3,831	1,831	0	0

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Renewable diesel fuel includes biodiesel and other renewable diesel.

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

Table 37. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, April 2019
(Thousand Barrels)

Commodity	From 1 to		From 2 to			From 3 to			
	2	3	1	3	4	1	2	4	5
Crude Oil	201	47	253	64,965	7,155	134	29,793	0	-
Petroleum Products	17,044	0	6,287	29,810	7,263	74,472	18,749	0	4,435
Natural Gas Liquids	7,306	0	4,336	27,286	4,277	875	6,296	0	-
Ethane	5,940	0	0	12,753	650	0	872	0	-
Propane	791	0	3,311	8,700	1,994	875	742	0	-
Normal Butane	108	0	1,025	2,838	870	0	253	0	-
Isobutane	247	0	0	1,007	317	0	273	0	-
Natural Gasoline	220	0	0	1,988	446	0	4,156	0	-
Motor Gasoline Blending Components	6,641	0	852	1,536	1,169	39,167	6,941	0	3,520
Reformulated - RBOB	0	0	0	164	-	6,136	2,663	-	2,377
Conventional	6,641	0	852	1,372	1,169	33,031	4,278	0	1,143
CBOB	6,641	0	852	1,372	1,169	33,031	3,774	0	1,143
GTAB	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	-	-	504	-	-
Renewable Fuels	-	-	-	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-	-	-	-
Renewable Diesel Fuel ¹	-	-	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	111	0	266	157	319	1,106	716	0	0
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	111	0	266	157	319	1,106	716	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	111	0	266	157	319	1,106	716	0	0
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	316	0	156	0	848	12,492	1,586	0	274
Kerosene	-	0	0	0	-	92	-	-	-
Distillate Fuel Oil	2,670	0	677	831	650	20,740	3,210	0	641
15 ppm sulfur and under	2,670	0	677	831	650	19,066	3,117	0	641
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	-	-	-	-	-	-	-	-	-
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total	17,245	47	6,540	94,775	14,418	74,606	48,542	0	4,435

See footnotes at end of table.

Table 37. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, April 2019
(Thousand Barrels) — Continued

Commodity	From 4 to				From 5 to	
	1	2	3	5	3	4
Crude Oil	0	23,931	325	-	0	0
Petroleum Products	0	12,556	3,963	1,850	0	0
Natural Gas Liquids	0	12,004	3,963	-	0	0
Ethane	0	2,868	1,584	-	0	0
Propane	0	4,832	1,122	-	0	0
Normal Butane	0	2,038	374	-	0	0
Isobutane	0	853	314	-	0	0
Natural Gasoline	0	1,413	569	-	0	0
Motor Gasoline Blending Components	0	121	0	841	0	0
Reformulated - RBOB	0	0	0	0	0	-
Conventional	0	121	0	841	0	0
CBOB	0	121	0	841	0	0
GTAB	-	-	-	-	-	-
Other	-	0	0	-	0	-
Renewable Fuels	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-
Renewable Diesel Fuel ¹	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-
Finished Motor Gasoline	0	144	0	638	0	0
Reformulated	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-
Conventional	0	144	0	638	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-
Conventional Other	0	144	0	638	0	0
Finished Aviation Gasoline	-	-	-	-	-	-
Kerosene-Type Jet Fuel	0	12	0	30	0	0
Kerosene	0	-	0	-	0	-
Distillate Fuel Oil	0	275	0	341	0	0
15 ppm sulfur and under	0	275	0	341	0	0
Greater than 15 ppm to 500 ppm sulfur	0	0	0	-	0	-
Greater than 500 ppm sulfur	0	-	0	-	0	-
Residual Fuel Oil	-	-	-	-	-	-
Miscellaneous Products	-	-	-	-	-	-
Total	0	36,487	4,288	1,850	0	0

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Renewable diesel fuel includes biodiesel and other renewable diesel.

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

Table 37. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, May 2019
(Thousand Barrels)

Commodity	From 1 to		From 2 to			From 3 to			
	2	3	1	3	4	1	2	4	5
Crude Oil	186	44	268	66,933	6,698	129	33,950	0	-
Petroleum Products	16,294	0	6,314	29,398	7,748	81,896	21,142	0	4,659
Natural Gas Liquids	6,438	0	4,716	26,794	4,335	617	6,107	0	-
Ethane	5,124	0	0	11,991	520	0	813	0	-
Propane	747	0	3,427	7,577	2,108	617	657	0	-
Normal Butane	103	0	1,289	3,281	916	0	245	0	-
Isobutane	240	0	0	952	333	0	311	0	-
Natural Gasoline	224	0	0	2,993	458	0	4,081	0	-
Motor Gasoline Blending Components	6,731	0	691	1,444	1,662	44,149	10,805	0	3,850
Reformulated - RBOB	0	0	0	162	-	7,160	7,496	-	2,446
Conventional	6,731	0	691	1,282	1,662	36,989	3,309	0	1,404
CBOB	6,731	0	691	1,282	1,662	36,989	3,007	0	1,404
GTAB	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	-	-	302	-	-
Renewable Fuels	-	-	-	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-	-	-	-
Renewable Diesel Fuel ¹	-	-	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	80	0	249	153	240	1,467	891	0	0
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	80	0	249	153	240	1,467	891	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	80	0	249	153	240	1,467	891	0	0
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	384	0	83	0	840	13,176	1,254	0	295
Kerosene	-	-	-	-	-	-	-	-	-
Distillate Fuel Oil	2,661	0	575	1,007	671	22,487	2,085	0	514
15 ppm sulfur and under	2,661	0	575	1,007	671	20,970	1,960	0	514
Greater than 15 ppm to 500 ppm sulfur	0	0	0	0	-	1	125	-	-
Greater than 500 ppm sulfur	-	0	0	0	-	1,516	-	-	-
Residual Fuel Oil	-	-	-	-	-	-	-	-	-
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total	16,480	44	6,582	96,331	14,446	82,025	55,092	0	4,659

See footnotes at end of table.

Table 37. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, May 2019
(Thousand Barrels) — Continued

Commodity	From 4 to				From 5 to	
	1	2	3	5	3	4
Crude Oil	0	23,461	324	-	0	0
Petroleum Products	0	13,276	3,892	1,852	0	0
Natural Gas Liquids	0	12,219	3,892	-	0	0
Ethane	0	2,627	1,202	-	0	0
Propane	0	5,047	1,255	-	0	0
Normal Butane	0	2,124	433	-	0	0
Isobutane	0	887	356	-	0	0
Natural Gasoline	0	1,534	646	-	0	0
Motor Gasoline Blending Components	0	155	0	944	0	0
Reformulated - RBOB	0	0	0	0	0	-
Conventional	0	155	0	944	0	0
CBOB	0	155	0	944	0	0
GTAB	-	-	-	-	-	-
Other	-	0	0	-	0	-
Renewable Fuels	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-
Renewable Diesel Fuel ¹	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-
Finished Motor Gasoline	0	404	0	590	0	0
Reformulated	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-
Conventional	0	404	0	590	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-
Conventional Other	0	404	0	590	0	0
Finished Aviation Gasoline	-	-	-	-	-	-
Kerosene-Type Jet Fuel	0	22	0	25	0	0
Kerosene	-	-	-	-	-	-
Distillate Fuel Oil	0	476	0	293	0	0
15 ppm sulfur and under	0	476	0	293	0	0
Greater than 15 ppm to 500 ppm sulfur	0	0	0	-	0	-
Greater than 500 ppm sulfur	0	-	0	-	0	-
Residual Fuel Oil	-	-	-	-	-	-
Miscellaneous Products	-	-	-	-	-	-
Total	0	36,737	4,216	1,852	0	0

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Renewable diesel fuel includes biodiesel and other renewable diesel.

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

Table 37. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, June 2019
(Thousand Barrels)

Commodity	From 1 to		From 2 to			From 3 to			
	2	3	1	3	4	1	2	4	5
Crude Oil	255	28	264	66,411	6,131	120	29,974	0	-
Petroleum Products	16,329	0	6,809	28,217	7,584	79,018	21,099	0	4,006
Natural Gas Liquids	6,496	0	5,030	25,314	4,389	641	6,720	0	-
Ethane	5,018	0	0	11,334	564	0	939	0	-
Propane	839	0	3,576	6,874	2,106	641	868	0	-
Normal Butane	111	0	1,454	3,810	917	0	303	0	-
Isobutane	271	0	0	1,121	337	0	233	0	-
Natural Gasoline	257	0	0	2,175	465	0	4,377	0	-
Motor Gasoline Blending Components	6,693	0	657	1,797	1,598	41,777	10,926	0	3,433
Reformulated - RBOB	0	0	0	256	-	8,626	7,226	-	2,155
Conventional	6,693	0	657	1,541	1,598	33,151	3,700	0	1,278
CBOB	6,693	0	657	1,541	1,598	33,151	3,403	0	1,278
GTAB	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	-	-	297	-	-
Renewable Fuels	-	-	-	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-	-	-	-
Renewable Diesel Fuel ¹	-	-	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	94	0	314	157	244	1,142	816	0	0
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	94	0	314	157	244	1,142	816	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	94	0	314	157	244	1,142	816	0	0
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	324	0	129	50	807	12,152	1,169	0	197
Kerosene	-	-	-	-	-	-	-	-	-
Distillate Fuel Oil	2,722	0	679	899	546	23,306	1,468	0	376
15 ppm sulfur and under	2,722	0	679	899	546	22,212	1,370	0	376
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	-	-	-	-	-	-	-	-	-
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total	16,584	28	7,073	94,628	13,715	79,138	51,073	0	4,006

See footnotes at end of table.

Table 37. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, June 2019
(Thousand Barrels) — Continued

Commodity	From 4 to				From 5 to	
	1	2	3	5	3	4
Crude Oil	0	26,903	313	-	0	0
Petroleum Products	0	12,304	3,388	1,712	0	0
Natural Gas Liquids	0	11,334	3,388	-	0	0
Ethane	0	2,228	1,036	-	0	0
Propane	0	4,779	1,124	-	0	0
Normal Butane	0	2,012	401	-	0	0
Isobutane	0	837	305	-	0	0
Natural Gasoline	0	1,478	522	-	0	0
Motor Gasoline Blending Components	0	131	0	957	0	0
Reformulated - RBOB	0	0	0	0	0	-
Conventional	0	131	0	957	0	0
CBOB	0	131	0	957	0	0
GTAB	-	-	-	-	-	-
Other	-	0	0	-	0	-
Renewable Fuels	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-
Renewable Diesel Fuel ¹	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-
Finished Motor Gasoline	0	370	0	358	0	0
Reformulated	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-
Conventional	0	370	0	358	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-
Conventional Other	0	370	0	358	0	0
Finished Aviation Gasoline	-	-	-	-	-	-
Kerosene-Type Jet Fuel	0	12	0	10	0	0
Kerosene	-	-	-	-	-	-
Distillate Fuel Oil	0	457	0	387	0	0
15 ppm sulfur and under	0	457	0	387	0	0
Greater than 15 ppm to 500 ppm sulfur	-	0	0	-	0	-
Greater than 500 ppm sulfur	0	-	0	-	0	-
Residual Fuel Oil	-	-	-	-	-	-
Miscellaneous Products	-	-	-	-	-	-
Total	0	39,207	3,701	1,712	0	0

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Renewable diesel fuel includes biodiesel and other renewable diesel.

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

Table 37. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, July 2019
(Thousand Barrels)

Commodity	From 1 to		From 2 to			From 3 to			
	2	3	1	3	4	1	2	4	5
Crude Oil	200	37	301	67,127	6,581	129	31,774	0	-
Petroleum Products	16,708	0	6,818	27,948	7,880	84,480	18,988	0	4,321
Natural Gas Liquids	6,089	0	5,438	24,668	4,635	836	7,418	0	-
Ethane	4,508	0	0	9,290	641	0	853	0	-
Propane	885	0	3,993	7,979	2,175	836	835	0	-
Normal Butane	128	0	1,445	3,573	954	0	318	0	-
Isobutane	293	0	0	1,416	351	0	697	0	-
Natural Gasoline	275	0	0	2,410	514	0	4,715	0	-
Motor Gasoline Blending Components	7,474	0	540	1,455	1,506	47,561	7,608	0	3,600
Reformulated - RBOB	0	0	0	298	-	9,571	4,639	-	2,260
Conventional	7,474	0	540	1,157	1,506	37,990	2,969	0	1,340
CBOB	7,474	0	540	1,157	1,506	37,990	2,798	0	1,340
GTAB	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	-	-	171	-	-
Renewable Fuels	-	-	-	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-	-	-	-
Renewable Diesel Fuel ¹	-	-	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	113	0	201	132	158	762	1,122	0	0
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	113	0	201	132	158	762	1,122	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	113	0	201	132	158	762	1,122	0	0
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	331	0	87	0	943	13,655	1,540	0	199
Kerosene	-	0	0	0	-	32	-	-	-
Distillate Fuel Oil	2,701	0	552	1,693	638	21,634	1,300	0	522
15 ppm sulfur and under	2,701	0	552	1,693	638	20,341	1,245	0	522
Greater than 15 ppm to 500 ppm sulfur	0	0	-	0	-	-	55	-	-
Greater than 500 ppm sulfur	-	0	0	0	-	1,293	-	-	-
Residual Fuel Oil	-	-	-	-	-	-	-	-	-
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total	16,908	37	7,119	95,075	14,461	84,609	50,762	0	4,321

See footnotes at end of table.

Table 37. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, July 2019
(Thousand Barrels) — Continued

Commodity	From 4 to				From 5 to	
	1	2	3	5	3	4
Crude Oil	0	25,799	335	-	0	0
Petroleum Products	0	12,533	3,322	1,654	0	0
Natural Gas Liquids	0	11,480	3,322	-	0	0
Ethane	0	2,041	842	-	0	0
Propane	0	4,888	1,154	-	0	0
Normal Butane	0	2,082	391	-	0	0
Isobutane	0	862	320	-	0	0
Natural Gasoline	0	1,607	615	-	0	0
Motor Gasoline Blending Components	0	212	0	958	0	0
Reformulated - RBOB	0	0	0	0	0	-
Conventional	0	212	0	958	0	0
CBOB	0	212	0	958	0	0
GTAB	-	-	-	-	-	-
Other	-	0	0	-	0	-
Renewable Fuels	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-
Renewable Diesel Fuel ¹	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-
Finished Motor Gasoline	0	472	0	342	0	0
Reformulated	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-
Conventional	0	472	0	342	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-
Conventional Other	0	472	0	342	0	0
Finished Aviation Gasoline	-	-	-	-	-	-
Kerosene-Type Jet Fuel	0	12	0	10	0	0
Kerosene	0	-	0	-	0	-
Distillate Fuel Oil	0	357	0	344	0	0
15 ppm sulfur and under	0	357	0	344	0	0
Greater than 15 ppm to 500 ppm sulfur	-	0	0	-	0	-
Greater than 500 ppm sulfur	0	-	0	-	0	-
Residual Fuel Oil	-	-	-	-	-	-
Miscellaneous Products	-	-	-	-	-	-
Total	0	38,332	3,657	1,654	0	0

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Renewable diesel fuel includes biodiesel and other renewable diesel.

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

Table 37. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, August 2019
(Thousand Barrels)

Commodity	From 1 to		From 2 to			From 3 to			
	2	3	1	3	4	1	2	4	5
Crude Oil	192	37	291	66,086	7,194	129	31,006	0	-
Petroleum Products	16,906	0	6,382	29,075	8,326	86,282	20,837	0	4,371
Natural Gas Liquids	6,340	0	4,864	26,045	5,082	1,171	8,518	0	-
Ethane	4,699	0	0	9,616	730	0	830	0	-
Propane	917	0	3,554	9,188	2,333	1,171	879	0	-
Normal Butane	125	0	1,310	3,912	1,038	0	313	0	-
Isobutane	303	0	0	1,057	383	0	427	0	-
Natural Gasoline	296	0	0	2,272	598	0	6,069	0	-
Motor Gasoline Blending Components	7,310	0	510	1,730	1,451	49,454	7,756	0	3,540
Reformulated - RBOB	0	0	0	120	-	9,906	4,786	-	2,178
Conventional	7,310	0	510	1,610	1,451	39,548	2,970	0	1,362
CBOB	7,310	0	510	1,610	1,451	39,548	2,685	0	1,362
GTAB	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	-	-	285	-	-
Renewable Fuels	-	-	-	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-	-	-	-
Renewable Diesel Fuel ¹	-	-	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	112	0	161	193	222	834	1,328	0	0
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	112	0	161	193	222	834	1,328	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	112	0	161	193	222	834	1,328	0	0
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	304	0	113	58	976	13,063	1,414	0	320
Kerosene	-	0	0	0	-	121	-	-	-
Distillate Fuel Oil	2,840	0	734	1,049	595	21,639	1,821	0	511
15 ppm sulfur and under	2,840	0	678	1,049	595	20,806	1,642	0	511
Greater than 15 ppm to 500 ppm sulfur	0	0	56	0	-	0	179	-	-
Greater than 500 ppm sulfur	-	0	0	0	-	833	-	-	-
Residual Fuel Oil	-	-	-	-	-	-	-	-	-
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total	17,098	37	6,673	95,161	15,520	86,411	51,843	0	4,371

See footnotes at end of table.

Table 37. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, August 2019
(Thousand Barrels) — Continued

Commodity	From 4 to				From 5 to	
	1	2	3	5	3	4
Crude Oil	0	25,586	317	-	0	0
Petroleum Products	0	12,169	3,100	1,721	0	0
Natural Gas Liquids	0	11,067	3,100	-	0	0
Ethane	0	2,453	734	-	0	0
Propane	0	4,431	1,049	-	0	0
Normal Butane	0	1,913	383	-	0	0
Isobutane	0	785	303	-	0	0
Natural Gasoline	0	1,485	631	-	0	0
Motor Gasoline Blending Components	0	172	0	1,021	0	0
Reformulated - RBOB	0	0	0	0	0	-
Conventional	0	172	0	1,021	0	0
CBOB	0	172	0	1,021	0	0
GTAB	-	-	-	-	-	-
Other	-	0	0	-	0	-
Renewable Fuels	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-
Renewable Diesel Fuel ¹	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-
Finished Motor Gasoline	0	434	0	370	0	0
Reformulated	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-
Conventional	0	434	0	370	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-
Conventional Other	0	434	0	370	0	0
Finished Aviation Gasoline	-	-	-	-	-	-
Kerosene-Type Jet Fuel	0	24	0	10	0	0
Kerosene	0	-	0	-	0	-
Distillate Fuel Oil	0	472	0	320	0	0
15 ppm sulfur and under	0	472	0	320	0	0
Greater than 15 ppm to 500 ppm sulfur	0	0	0	-	0	-
Greater than 500 ppm sulfur	0	-	0	-	0	-
Residual Fuel Oil	-	-	-	-	-	-
Miscellaneous Products	-	-	-	-	-	-
Total	0	37,755	3,417	1,721	0	0

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Renewable diesel fuel includes biodiesel and other renewable diesel.

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

Table 37. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, September 2019
(Thousand Barrels)

Commodity	From 1 to		From 2 to			From 3 to			
	2	3	1	3	4	1	2	4	5
Crude Oil	178	27	192	56,024	6,922	121	26,611	0	-
Petroleum Products	15,996	0	6,488	30,195	8,096	75,499	16,802	0	4,398
Natural Gas Liquids	6,399	0	4,999	27,795	4,969	1,162	6,916	0	-
Ethane	4,829	0	0	11,062	630	0	714	0	-
Propane	891	0	3,718	8,759	2,338	1,162	844	0	-
Normal Butane	121	0	1,281	4,556	1,034	0	308	0	-
Isobutane	290	0	0	1,039	378	0	331	0	-
Natural Gasoline	268	0	0	2,379	589	0	4,719	0	-
Motor Gasoline Blending Components	6,574	0	565	1,190	1,458	44,230	5,943	0	3,357
Reformulated - RBOB	0	0	0	171	-	6,804	2,901	-	2,001
Conventional	6,574	0	565	1,019	1,458	37,426	3,042	0	1,356
CBOB	6,574	0	565	1,019	1,458	37,426	2,699	0	1,356
GTAB	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	-	-	343	-	-
Renewable Fuels	-	-	-	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-	-	-	-
Renewable Diesel Fuel ¹	-	-	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	70	0	232	118	243	1,365	735	0	0
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	70	0	232	118	243	1,365	735	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	70	0	232	118	243	1,365	735	0	0
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	299	0	104	0	908	11,723	1,430	0	247
Kerosene	-	0	0	0	-	198	-	-	-
Distillate Fuel Oil	2,654	0	588	1,092	518	16,821	1,778	0	794
15 ppm sulfur and under	2,654	0	588	1,092	518	16,203	1,669	0	794
Greater than 15 ppm to 500 ppm sulfur	0	0	-	0	-	-	109	-	-
Greater than 500 ppm sulfur	-	0	0	0	-	618	-	-	-
Residual Fuel Oil	-	-	-	-	-	-	-	-	-
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total	16,174	27	6,680	86,219	15,018	75,620	43,413	0	4,398

See footnotes at end of table.

Table 37. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, September 2019
(Thousand Barrels) — Continued

Commodity	From 4 to				From 5 to	
	1	2	3	5	3	4
Crude Oil	0	25,849	283	-	0	0
Petroleum Products	0	12,160	2,919	1,785	0	0
Natural Gas Liquids	0	11,344	2,919	-	0	0
Ethane	0	2,224	639	-	0	0
Propane	0	4,730	1,018	-	0	0
Normal Butane	0	2,020	372	-	0	0
Isobutane	0	826	292	-	0	0
Natural Gasoline	0	1,544	598	-	0	0
Motor Gasoline Blending Components	0	160	0	1,048	0	0
Reformulated - RBOB	0	0	0	0	0	-
Conventional	0	160	0	1,048	0	0
CBOB	0	160	0	1,048	0	0
GTAB	-	-	-	-	-	-
Other	-	0	0	-	0	-
Renewable Fuels	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-
Renewable Diesel Fuel ¹	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-
Finished Motor Gasoline	0	218	0	376	0	0
Reformulated	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-
Conventional	0	218	0	376	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-
Conventional Other	0	218	0	376	0	0
Finished Aviation Gasoline	-	-	-	-	-	-
Kerosene-Type Jet Fuel	0	18	0	10	0	0
Kerosene	0	-	0	-	0	-
Distillate Fuel Oil	0	420	0	351	0	0
15 ppm sulfur and under	0	420	0	351	0	0
Greater than 15 ppm to 500 ppm sulfur	-	0	0	-	0	-
Greater than 500 ppm sulfur	0	-	0	-	0	-
Residual Fuel Oil	-	-	-	-	-	-
Miscellaneous Products	-	-	-	-	-	-
Total	0	38,009	3,202	1,785	0	0

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Renewable diesel fuel includes biodiesel and other renewable diesel.

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

Table 37. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, October 2019
(Thousand Barrels)

Commodity	From 1 to		From 2 to			From 3 to			
	2	3	1	3	4	1	2	4	5
Crude Oil	175	40	212	57,334	7,126	130	24,072	0	-
Petroleum Products	16,413	0	6,595	31,288	8,530	77,993	16,292	0	4,606
Natural Gas Liquids	6,673	0	4,713	28,678	5,306	1,257	7,755	0	-
Ethane	4,978	0	0	12,595	751	0	731	0	-
Propane	966	0	3,763	8,855	2,502	1,257	898	0	-
Normal Butane	130	0	950	3,676	1,075	0	288	0	-
Isobutane	314	0	0	1,155	392	0	754	0	-
Natural Gasoline	285	0	0	2,397	586	0	5,084	0	-
Motor Gasoline Blending Components	6,377	0	621	1,402	1,547	43,485	4,756	0	3,721
Reformulated - RBOB	0	0	0	115	-	8,602	1,460	-	2,254
Conventional	6,377	0	621	1,287	1,547	34,883	3,296	0	1,467
CBOB	6,377	0	621	1,287	1,547	34,883	3,013	0	1,467
GTAB	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	-	-	283	-	-
Renewable Fuels	-	-	-	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-	-	-	-
Renewable Diesel Fuel ¹	-	-	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	105	0	527	144	201	1,347	736	0	0
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	105	0	527	144	201	1,347	736	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	105	0	527	144	201	1,347	736	0	0
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	276	0	78	50	687	13,575	1,256	0	247
Kerosene	-	0	0	0	-	117	-	-	-
Distillate Fuel Oil	2,982	0	656	1,014	789	18,212	1,789	0	638
15 ppm sulfur and under	2,982	0	656	1,014	789	17,166	1,709	0	638
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	-	-	-	-	-	-	-	-	-
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total	16,588	40	6,807	88,622	15,656	78,123	40,364	0	4,606

See footnotes at end of table.

Table 37. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, October 2019
(Thousand Barrels) — Continued

Commodity	From 4 to				From 5 to	
	1	2	3	5	3	4
Crude Oil	0	27,789	352	-	0	0
Petroleum Products	0	12,581	3,600	1,765	0	0
Natural Gas Liquids	0	11,686	3,600	-	0	0
Ethane	0	2,339	1,259	-	0	0
Propane	0	4,874	1,074	-	0	0
Normal Butane	0	2,070	369	-	0	0
Isobutane	0	847	308	-	0	0
Natural Gasoline	0	1,556	590	-	0	0
Motor Gasoline Blending Components	0	218	0	1,085	0	0
Reformulated - RBOB	0	0	0	0	0	-
Conventional	0	218	0	1,085	0	0
CBOB	0	218	0	1,085	0	0
GTAB	-	-	-	-	-	-
Other	-	0	0	-	0	-
Renewable Fuels	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-
Renewable Diesel Fuel ¹	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-
Finished Motor Gasoline	0	402	0	333	0	0
Reformulated	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-
Conventional	0	402	0	333	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-
Conventional Other	0	402	0	333	0	0
Finished Aviation Gasoline	-	-	-	-	-	-
Kerosene-Type Jet Fuel	0	33	0	10	0	0
Kerosene	0	-	0	-	0	-
Distillate Fuel Oil	0	242	0	337	0	0
15 ppm sulfur and under	0	242	0	337	0	0
Greater than 15 ppm to 500 ppm sulfur	0	0	0	-	0	-
Greater than 500 ppm sulfur	0	-	0	-	0	-
Residual Fuel Oil	-	-	-	-	-	-
Miscellaneous Products	-	-	-	-	-	-
Total	0	40,370	3,952	1,765	0	0

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Renewable diesel fuel includes biodiesel and other renewable diesel.

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

Table 37. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, November 2019
(Thousand Barrels)

Commodity	From 1 to		From 2 to			From 3 to			
	2	3	1	3	4	1	2	4	5
Crude Oil	179	29	106	58,546	6,443	124	20,824	0	-
Petroleum Products	15,283	0	6,223	26,397	8,361	87,836	17,451	0	4,380
Natural Gas Liquids	6,384	0	4,100	23,942	5,172	1,817	8,335	0	-
Ethane	4,670	0	0	10,423	631	0	675	0	-
Propane	977	0	3,157	7,236	2,477	1,817	1,635	0	-
Normal Butane	134	0	943	2,738	1,079	0	278	0	-
Isobutane	322	0	0	1,244	392	0	720	0	-
Natural Gasoline	281	0	0	2,301	593	0	5,027	0	-
Motor Gasoline Blending Components	6,043	0	748	1,663	1,404	45,240	4,464	0	3,718
Reformulated - RBOB	0	0	0	363	-	9,603	2,044	-	2,170
Conventional	6,043	0	748	1,300	1,404	35,637	2,420	0	1,548
CBOB	6,043	0	748	1,300	1,404	35,637	2,420	0	1,548
GTAB	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Renewable Fuels	-	-	-	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-	-	-	-
Renewable Diesel Fuel ¹	-	-	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	47	0	692	129	179	2,742	330	0	0
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	47	0	692	129	179	2,742	330	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	47	0	692	129	179	2,742	330	0	0
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	367	0	41	0	1,028	12,191	2,205	0	242
Kerosene	-	0	0	0	-	464	-	-	-
Distillate Fuel Oil	2,442	0	608	663	578	25,382	2,117	0	420
15 ppm sulfur and under	2,442	0	565	663	578	23,866	1,957	0	420
Greater than 15 ppm to 500 ppm sulfur	0	0	43	0	-	144	160	-	-
Greater than 500 ppm sulfur	-	0	0	0	-	1,372	-	-	-
Residual Fuel Oil	-	-	-	-	-	-	-	-	-
Miscellaneous Products	0	-	34	-	-	0	0	-	-
Total	15,462	29	6,329	84,943	14,804	87,960	38,275	0	4,380

See footnotes at end of table.

Table 37. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, November 2019
(Thousand Barrels) — Continued

Commodity	From 4 to				From 5 to	
	1	2	3	5	3	4
Crude Oil	0	25,980	320	-	0	0
Petroleum Products	0	12,335	3,546	1,693	0	0
Natural Gas Liquids	0	11,446	3,546	-	0	0
Ethane	0	2,245	1,287	-	0	0
Propane	0	4,799	1,023	-	0	0
Normal Butane	0	2,048	357	-	0	0
Isobutane	0	834	311	-	0	0
Natural Gasoline	0	1,520	568	-	0	0
Motor Gasoline Blending Components	0	173	0	1,120	0	0
Reformulated - RBOB	0	0	0	0	0	-
Conventional	0	173	0	1,120	0	0
CBOB	0	173	0	1,120	0	0
GTAB	-	-	-	-	-	-
Other	-	-	-	-	-	-
Renewable Fuels	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-
Renewable Diesel Fuel ¹	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-
Finished Motor Gasoline	0	359	0	364	0	0
Reformulated	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-
Conventional	0	359	0	364	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-
Conventional Other	0	359	0	364	0	0
Finished Aviation Gasoline	-	-	-	-	-	-
Kerosene-Type Jet Fuel	0	18	0	0	0	0
Kerosene	0	-	0	-	0	-
Distillate Fuel Oil	0	339	0	209	0	0
15 ppm sulfur and under	0	339	0	209	0	0
Greater than 15 ppm to 500 ppm sulfur	0	0	0	-	0	-
Greater than 500 ppm sulfur	0	-	0	-	0	-
Residual Fuel Oil	-	-	-	-	-	-
Miscellaneous Products	0	0	-	-	-	-
Total	0	38,315	3,866	1,693	0	0

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Renewable diesel fuel includes biodiesel and other renewable diesel.

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

Table 37. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, December 2019
(Thousand Barrels)

Commodity	From 1 to		From 2 to			From 3 to			
	2	3	1	3	4	1	2	4	5
Crude Oil	177	40	153	62,230	6,768	128	20,354	0	-
Petroleum Products	15,901	0	6,959	26,696	8,569	89,777	18,876	0	4,313
Natural Gas Liquids	6,600	0	4,554	24,135	5,629	2,122	10,602	0	-
Ethane	4,867	0	0	10,794	855	0	794	0	-
Propane	1,000	0	3,704	7,336	2,611	2,122	2,078	0	-
Normal Butane	133	0	850	2,442	1,121	0	305	0	-
Isobutane	319	0	0	1,109	405	0	720	0	-
Natural Gasoline	281	0	0	2,454	637	0	6,705	0	-
Motor Gasoline Blending Components	6,309	0	568	1,661	1,295	45,871	4,456	0	3,558
Reformulated - RBOB	0	0	0	381	-	9,717	1,393	-	2,179
Conventional	6,309	0	568	1,280	1,295	36,154	3,063	0	1,379
CBOB	6,309	0	568	1,280	1,295	36,154	2,963	0	1,379
GTAB	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	-	-	100	-	-
Renewable Fuels	-	-	-	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-	-	-	-
Renewable Diesel Fuel ¹	-	-	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	84	0	1,062	105	193	2,407	401	0	0
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	84	0	1,062	105	193	2,407	401	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	84	0	1,062	105	193	2,407	401	0	0
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	311	0	41	20	905	13,339	1,494	0	204
Kerosene	14	0	0	0	-	274	0	-	-
Distillate Fuel Oil	2,583	0	698	775	547	25,764	1,923	0	551
15 ppm sulfur and under	2,583	0	662	775	547	24,001	1,757	0	551
Greater than 15 ppm to 500 ppm sulfur	0	0	36	0	-	3	166	-	-
Greater than 500 ppm sulfur	-	0	0	0	-	1,760	-	-	-
Residual Fuel Oil	-	-	-	-	-	-	-	-	-
Miscellaneous Products	0	-	36	-	-	0	0	-	-
Total	16,078	40	7,112	88,926	15,337	89,905	39,230	0	4,313

See footnotes at end of table.

Table 37. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, December 2019
(Thousand Barrels) — Continued

Commodity	From 4 to				From 5 to	
	1	2	3	5	3	4
Crude Oil	0	27,788	292	-	0	0
Petroleum Products	0	13,204	3,446	2,221	0	0
Natural Gas Liquids	0	12,154	3,446	-	0	0
Ethane	0	2,429	1,220	-	0	0
Propane	0	5,059	1,019	-	0	0
Normal Butane	0	2,172	353	-	0	0
Isobutane	0	887	302	-	0	0
Natural Gasoline	0	1,607	552	-	0	0
Motor Gasoline Blending Components	0	155	0	1,352	0	0
Reformulated - RBOB	0	0	0	0	0	-
Conventional	0	155	0	1,352	0	0
CBOB	0	155	0	1,352	0	0
GTAB	-	-	-	-	-	-
Other	-	0	0	-	0	-
Renewable Fuels	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-
Renewable Diesel Fuel ¹	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-
Finished Motor Gasoline	0	432	0	372	0	0
Reformulated	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-
Conventional	0	432	0	372	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-
Conventional Other	0	432	0	372	0	0
Finished Aviation Gasoline	-	-	-	-	-	-
Kerosene-Type Jet Fuel	0	36	0	0	0	0
Kerosene	0	0	0	0	0	-
Distillate Fuel Oil	0	427	0	497	0	0
15 ppm sulfur and under	0	427	0	497	0	0
Greater than 15 ppm to 500 ppm sulfur	0	0	0	-	0	-
Greater than 500 ppm sulfur	0	-	0	-	0	-
Residual Fuel Oil	-	-	-	-	-	-
Miscellaneous Products	0	0	-	-	-	-
Total	0	40,992	3,738	2,221	0	0

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Renewable diesel fuel includes biodiesel and other renewable diesel.

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