

Table 16. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, January 2023
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	20,908	2,891	23,799	70,794	16,250	26,653	113,697
Hydrocarbon Gas Liquids	1,793	-	1,793	2,730	130	888	3,748
Natural Gas Liquids	1,793	-	1,793	2,730	130	888	3,748
Normal Butane	1,367	-	1,367	821	60	314	1,195
Isobutane	145	-	145	1,359	57	357	1,773
Natural Gasoline	281	-	281	550	13	217	780
Other Liquids	74,619	5,164	79,783	2,555	1,737	908	5,200
Hydrogen/Biofuels/Other Hydrocarbons	9,298	726	10,024	5,212	1,360	1,856	8,428
Hydrogen	81	14	95	755	301	204	1,260
Biofuels (Including Fuel Ethanol)	9,217	712	9,929	4,440	1,059	1,652	7,151
Fuel Ethanol	8,762	636	9,398	4,324	1,018	1,507	6,849
Biodiesel	455	76	531	116	41	61	218
Renewable Diesel Fuel	-	-	-	-	-	-	-
Other Biofuels ¹	-	-	-	-	-	84	84
Other Hydrocarbons	-	-	-	17	-	-	17
Unfinished Oils (net)	1,308	-169	1,139	-960	89	-561	-1,432
Naphthas and Lighter	-143	-95	-238	7	3	123	133
Kerosene and Light Gas Oils	124	-	124	-231	66	-193	-358
Heavy Gas Oils	21	-69	-48	-741	20	-299	-1,020
Residuum	1,306	-5	1,301	5	-	-192	-187
Motor Gasoline Blend.Comp. (MGBC)(net)	64,013	4,607	68,620	-1,697	288	-387	-1,796
Reformulated - RBOB	13,143	-	13,143	-876	977	782	883
Conventional	50,870	4,607	55,477	-821	-689	-1,169	-2,679
CBOB	44,364	4,586	48,950	498	-455	-1,240	-1,197
GTAB	2,884	-	2,884	-	-	-	-
Other	3,622	21	3,643	-1,319	-234	71	-1,482
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input	97,320	8,055	105,375	76,079	18,117	28,449	122,645

See footnotes at end of table.

Table 16. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, January 2023
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	18,620	134,160	90,881	7,071	2,244	252,976	14,653	62,558	467,683
Hydrocarbon Gas Liquids	682	9,791	5,081	119	94	15,767	568	1,162	23,038
Natural Gas Liquids	682	9,791	5,081	119	94	15,767	568	1,162	23,038
Normal Butane	327	3,583	2,909	73	—	6,892	273	635	10,362
Isobutane	330	2,415	1,360	43	94	4,242	134	507	6,801
Natural Gasoline	25	3,793	812	3	—	4,633	161	20	5,875
Other Liquids	8,883	-45,579	-28,858	6,266	-178	-59,466	2,022	11,371	38,910
Hydrogen/Biofuels/Other Hydrocarbons	2,081	3,030	2,073	1,000	215	8,399	1,017	6,314	34,182
Hydrogen	78	2,062	1,440	64	46	3,690	172	1,275	6,492
Biofuels (Including Fuel Ethanol)	2,003	968	633	936	169	4,709	845	5,039	27,673
Fuel Ethanol	1,947	814	473	917	135	4,286	805	4,302	25,640
Biodiesel	56	58	39	19	10	182	16	338	1,285
Renewable Diesel Fuel	—	—	—	—	—	—	—	385	385
Other Biofuels ¹	—	96	121	—	24	241	24	14	363
Other Hydrocarbons	—	—	—	—	—	—	—	—	17
Unfinished Oils (net)	437	-509	8,239	-200	-276	7,691	-267	1,548	8,679
Naphthas and Lighter	385	-5,514	1,196	-35	-3	-3,971	-117	270	-3,923
Kerosene and Light Gas Oils	234	-551	-1,198	-55	-164	-1,734	-99	-602	-2,669
Heavy Gas Oils	-94	2,086	6,467	-31	-109	8,319	-128	1,800	8,923
Residuum	-88	3,470	1,774	-79	—	5,077	77	80	6,348
Motor Gasoline Blend.Comp. (MGBC)(net)	6,354	-48,100	-39,176	5,466	-117	-75,573	1,272	3,509	-3,968
Reformulated - RBOB	5,292	-7,128	-1,542	5	-478	-3,851	—	2,106	12,281
Conventional	1,062	-40,972	-37,634	5,461	361	-71,722	1,272	1,403	-16,249
CBOB	1,182	-36,702	-35,008	5,504	342	-64,682	1,076	963	-14,890
GTAB	—	—	—	—	—	—	—	—	2,884
Other	-120	-4,270	-2,626	-43	19	-7,040	196	440	-4,243
Aviation Gasoline Blend. Comp. (net)	11	—	6	—	—	17	—	—	17
Total Input	28,185	98,372	67,104	13,456	2,160	209,277	17,243	75,091	529,631

-- = Not Applicable.

- = No Data Reported.

¹ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal Report."

Table 16. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, February 2023
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	16,055	2,791	18,846	67,947	15,252	24,189	107,388
Hydrocarbon Gas Liquids	1,508	-	1,508	2,348	129	1,017	3,494
Natural Gas Liquids	1,508	-	1,508	2,348	129	1,017	3,494
Normal Butane	1,112	-	1,112	655	65	241	961
Isobutane	120	-	120	1,224	56	369	1,649
Natural Gasoline	276	-	276	469	8	407	884
Other Liquids	73,447	5,015	78,462	2,310	1,387	1,220	4,917
Hydrogen/Biofuels/Other Hydrocarbons	8,756	708	9,464	4,993	1,267	1,748	8,008
Hydrogen	48	12	60	698	273	187	1,158
Biofuels (Including Fuel Ethanol)	8,708	696	9,404	4,288	994	1,561	6,843
Fuel Ethanol	8,327	613	8,940	4,170	957	1,431	6,558
Biodiesel	378	83	461	118	37	59	214
Renewable Diesel Fuel	3	-	3	-	-	-	-
Other Biofuels ¹	-	-	-	-	-	71	71
Other Hydrocarbons	-	-	-	7	-	-	7
Unfinished Oils (net)	537	-101	436	-2,511	8	-147	-2,650
Naphthas and Lighter	134	-48	86	-307	10	124	-173
Kerosene and Light Gas Oils	318	-	318	-373	0	16	-357
Heavy Gas Oils	-822	-54	-876	-1,288	-2	-344	-1,634
Residuum	907	1	908	-543	-	57	-486
Motor Gasoline Blend.Comp. (MGBC)(net)	64,154	4,408	68,562	-172	112	-381	-441
Reformulated - RBOB	14,295	-	14,295	-180	908	694	1,422
Conventional	49,859	4,408	54,267	8	-796	-1,075	-1,863
CBOB	42,832	4,397	47,229	1,425	-680	-966	-221
GTAB	1,329	-	1,329	-	-	-	-
Other	5,698	11	5,709	-1,417	-116	-109	-1,642
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input	91,010	7,806	98,816	72,605	16,768	26,426	115,799

See footnotes at end of table.

Table 16. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, February 2023
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	16,927	120,937	78,113	6,538	2,117	224,632	14,484	58,167	423,517
Hydrocarbon Gas Liquids	515	8,307	3,937	95	90	12,944	520	732	19,198
Natural Gas Liquids	515	8,307	3,937	95	90	12,944	520	732	19,198
Normal Butane	220	2,845	2,082	46	—	5,193	212	210	7,688
Isobutane	261	2,265	1,159	43	90	3,818	129	505	6,221
Natural Gasoline	34	3,197	696	6	—	3,933	179	17	5,289
Other Liquids	9,037	-39,244	-24,309	6,056	20	-48,440	1,173	10,975	47,087
Hydrogen/Biofuels/Other Hydrocarbons	2,002	2,530	1,781	956	189	7,458	957	5,899	31,786
Hydrogen	93	1,606	1,242	58	25	3,024	179	1,049	5,470
Biofuels (Including Fuel Ethanol)	1,909	924	539	898	164	4,434	778	4,850	26,309
Fuel Ethanol	1,852	793	436	879	128	4,088	735	4,060	24,381
Biodiesel	57	75	38	19	13	202	14	364	1,255
Renewable Diesel Fuel	—	—	—	—	—	—	—	418	421
Other Biofuels ¹	—	56	65	—	23	144	29	8	252
Other Hydrocarbons	—	—	—	—	—	—	—	—	7
Unfinished Oils (net)	-40	1,325	7,176	5	-234	8,232	-339	-107	5,572
Naphthas and Lighter	-70	-4,051	273	19	-153	-3,982	-117	-540	-4,726
Kerosene and Light Gas Oils	49	-261	-100	-11	-28	-351	-99	-784	-1,273
Heavy Gas Oils	-9	2,772	6,152	48	-53	8,910	-84	-537	5,779
Residuum	-10	2,865	851	-51	—	3,655	-39	1,754	5,792
Motor Gasoline Blend.Comp. (MGBC)(net)	7,060	-43,099	-33,273	5,095	65	-64,152	555	5,183	9,707
Reformulated - RBOB	5,236	-5,305	-969	4	-319	-1,353	—	4,052	18,416
Conventional	1,824	-37,794	-32,304	5,091	384	-62,799	555	1,131	-8,709
CBOB	1,989	-33,328	-30,871	5,084	385	-56,741	552	1,329	-7,852
GTAB	—	—	—	—	—	—	—	—	1,329
Other	-165	-4,466	-1,433	7	-1	-6,058	3	-198	-2,186
Aviation Gasoline Blend. Comp. (net)	15	—	7	—	—	22	—	—	22
Total Input	26,479	90,000	57,741	12,689	2,227	189,136	16,177	69,874	489,802

-- = Not Applicable.

- = No Data Reported.

¹ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal Report."

Table 16. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, March 2023
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	16,128	3,131	19,259	77,212	16,232	22,529	115,973
Hydrocarbon Gas Liquids	1,287	-	1,287	1,859	186	1,094	3,139
Natural Gas Liquids	1,287	-	1,287	1,859	186	1,094	3,139
Normal Butane	849	-	849	152	104	237	493
Isobutane	117	-	117	1,275	74	354	1,703
Natural Gasoline	321	-	321	432	8	503	943
Other Liquids	85,050	5,770	90,820	5,787	1,696	4,470	11,953
Hydrogen/Biofuels/Other Hydrocarbons	9,985	822	10,807	5,546	1,384	1,951	8,881
Hydrogen	62	26	88	704	290	188	1,182
Biofuels (Including Fuel Ethanol)	9,923	796	10,719	4,838	1,094	1,763	7,695
Fuel Ethanol	9,471	692	10,163	4,693	1,032	1,624	7,349
Biodiesel	452	104	556	145	62	68	275
Renewable Diesel Fuel	-	-	-	-	-	-	-
Other Biofuels ¹	-	-	-	-	-	71	71
Other Hydrocarbons	-	-	-	4	-	-	4
Unfinished Oils (net)	763	-55	708	-2,325	29	77	-2,219
Naphthas and Lighter	478	-12	466	-486	-12	-344	-842
Kerosene and Light Gas Oils	200	-	200	-1,011	-48	29	-1,030
Heavy Gas Oils	-623	-45	-668	-308	101	758	551
Residuum	708	2	710	-520	-12	-366	-898
Motor Gasoline Blend.Comp. (MGBC)(net)	74,302	5,003	79,305	2,566	283	2,442	5,291
Reformulated - RBOB	17,601	-	17,601	-426	1,046	789	1,409
Conventional	56,701	5,003	61,704	2,992	-763	1,653	3,882
CBOB	49,023	5,006	54,029	3,320	-856	1,465	3,929
GTAB	1,932	-	1,932	-	-	-	-
Other	5,746	-3	5,743	-328	93	188	-47
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input	102,465	8,901	111,366	84,858	18,114	28,093	131,065

See footnotes at end of table.

Table 16. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, March 2023
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	19,911	138,190	93,973	7,528	1,704	261,306	16,763	67,587	480,888
Hydrocarbon Gas Liquids	610	8,022	2,833	106	43	11,614	541	632	17,213
Natural Gas Liquids	610	8,022	2,833	106	43	11,614	541	632	17,213
Normal Butane	265	1,844	1,102	59	—	3,270	190	91	4,893
Isobutane	297	2,645	1,439	41	43	4,465	176	522	6,983
Natural Gasoline	48	3,533	292	6	—	3,879	175	19	5,337
Other Liquids	10,615	-41,169	-28,019	7,375	363	-50,835	1,681	11,458	65,077
Hydrogen/Biofuels/Other Hydrocarbons	2,335	2,587	2,035	1,099	210	8,266	1,127	6,748	35,829
Hydrogen	108	1,612	1,442	63	33	3,258	202	1,335	6,065
Biofuels (Including Fuel Ethanol)	2,227	975	593	1,036	177	5,008	925	5,413	29,760
Fuel Ethanol	2,159	902	514	1,011	140	4,726	867	4,513	27,618
Biodiesel	68	71	30	25	9	203	26	405	1,465
Renewable Diesel Fuel	—	—	—	—	—	—	—	471	471
Other Biofuels ¹	—	2	49	—	28	79	32	24	206
Other Hydrocarbons	—	—	—	—	—	—	—	—	4
Unfinished Oils (net)	-696	-1,001	6,289	87	-163	4,516	-33	6	2,978
Naphthas and Lighter	-466	-6,947	230	8	80	-7,095	104	-375	-7,742
Kerosene and Light Gas Oils	-48	-1,082	480	-7	-61	-718	169	-468	-1,847
Heavy Gas Oils	-57	2,773	5,400	160	-182	8,094	-295	648	8,330
Residuum	-125	4,255	179	-74	—	4,235	-11	201	4,237
Motor Gasoline Blend.Comp. (MGBC)(net)	8,972	-42,755	-36,345	6,189	316	-63,623	587	4,704	26,264
Reformulated - RBOB	6,301	-8,030	-2,277	4	-117	-4,119	—	1,829	16,720
Conventional	2,671	-34,725	-34,068	6,185	433	-59,504	587	2,875	9,544
CBOB	2,640	-30,610	-32,105	6,255	403	-53,417	795	1,572	6,908
GTAB	—	—	—	—	—	—	—	—	1,932
Other	31	-4,115	-1,963	-70	30	-6,087	-208	1,303	704
Aviation Gasoline Blend. Comp. (net)	4	—	2	—	—	6	—	—	6
Total Input	31,136	105,043	68,787	15,009	2,110	222,085	18,985	79,677	563,178

-- = Not Applicable.

- = No Data Reported.

¹ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal Report."

Table 16. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, April 2023
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	20,476	2,989	23,465	74,590	14,116	22,618	111,324
Hydrocarbon Gas Liquids	878	-	878	1,381	208	1,003	2,592
Natural Gas Liquids	878	-	878	1,381	208	1,003	2,592
Normal Butane	574	-	574	67	123	175	365
Isobutane	112	-	112	1,112	75	263	1,450
Natural Gasoline	192	-	192	202	10	565	777
Other Liquids	81,051	5,687	86,738	7,526	2,317	4,287	14,130
Hydrogen/Biofuels/Other Hydrocarbons	9,554	787	10,341	5,478	1,363	1,917	8,758
Hydrogen	37	11	48	670	184	179	1,033
Biofuels (Including Fuel Ethanol)	9,517	776	10,293	4,808	1,179	1,738	7,725
Fuel Ethanol	9,177	671	9,848	4,656	1,010	1,609	7,275
Biodiesel	340	105	445	152	169	90	411
Renewable Diesel Fuel	-	-	-	-	-	-	-
Other Biofuels ¹	-	-	-	-	-	39	39
Other Hydrocarbons	-	-	-	-	-	-	-
Unfinished Oils (net)	1,407	-103	1,304	-2,641	-542	-313	-3,496
Naphthas and Lighter	226	-47	179	-90	-216	3	-303
Kerosene and Light Gas Oils	-72	-	-72	-1,060	-205	83	-1,182
Heavy Gas Oils	675	-53	622	-1,262	-117	-376	-1,755
Residuum	578	-3	575	-229	-4	-23	-256
Motor Gasoline Blend.Comp. (MGBC)(net)	70,090	5,003	75,093	4,689	1,496	2,683	8,868
Reformulated - RBOB	17,012	-	17,012	484	1,140	824	2,448
Conventional	53,078	5,003	58,081	4,205	356	1,859	6,420
CBOB	41,445	5,020	46,465	4,009	229	2,089	6,327
GTAB	3,048	-	3,048	-	-	-	-
Other	8,585	-17	8,568	196	127	-230	93
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input	102,405	8,676	111,081	83,497	16,641	27,908	128,046

See footnotes at end of table.

Table 16. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, April 2023
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	18,874	142,877	92,568	5,931	1,302	261,552	15,397	63,457	475,195
Hydrocarbon Gas Liquids	562	6,497	3,165	81	105	10,410	485	560	14,925
Natural Gas Liquids	562	6,497	3,165	81	105	10,410	485	560	14,925
Normal Butane	244	977	346	41	5	1,613	157	93	2,802
Isobutane	275	2,520	1,487	37	100	4,419	159	450	6,590
Natural Gasoline	43	3,000	1,332	3	-	4,378	169	17	5,533
Other Liquids	10,835	-43,671	-25,701	7,265	267	-51,005	2,263	12,538	64,664
Hydrogen/Biofuels/Other Hydrocarbons	2,284	2,875	2,051	1,026	172	8,408	1,107	6,444	35,058
Hydrogen	116	1,928	1,532	33	23	3,632	186	1,309	6,208
Biofuels (Including Fuel Ethanol)	2,168	947	519	993	149	4,776	921	5,135	28,850
Fuel Ethanol	2,096	860	479	970	132	4,537	873	4,481	27,014
Biodiesel	72	84	33	23	8	220	28	367	1,471
Renewable Diesel Fuel	-	-	-	-	-	-	-	280	280
Other Biofuels ¹	-	3	7	-	9	19	20	7	85
Other Hydrocarbons	-	-	-	-	-	-	-	-	-
Unfinished Oils (net)	-572	-4,141	10,353	-261	-256	5,123	-37	622	3,516
Naphthas and Lighter	-301	-7,254	502	-90	-158	-7,301	-173	326	-7,272
Kerosene and Light Gas Oils	-81	-683	228	-18	-188	-742	-78	-678	-2,752
Heavy Gas Oils	-281	-434	7,944	-68	90	7,251	208	883	7,209
Residuum	91	4,230	1,679	-85	-	5,915	6	91	6,331
Motor Gasoline Blend.Comp. (MGBC)(net)	9,132	-42,405	-38,107	6,500	351	-64,529	1,193	5,472	26,097
Reformulated - RBOB	6,312	-9,278	-6,584	8	-131	-9,673	-	2,152	11,939
Conventional	2,820	-33,127	-31,523	6,492	482	-54,856	1,193	3,320	14,158
CBOB	2,919	-30,026	-29,621	6,446	436	-49,846	1,120	1,705	5,771
GTAB	-	-	-	-	-	-	-	-	3,048
Other	-99	-3,101	-1,902	46	46	-5,010	73	1,615	5,339
Aviation Gasoline Blend. Comp. (net)	-9	-	2	-	-	-7	-	-	-7
Total Input	30,271	105,703	70,032	13,277	1,674	220,957	18,145	76,555	554,784

-- = Not Applicable.

- = No Data Reported.

¹ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal Report."

Table 16. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, May 2023
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	20,420	2,914	23,334	78,478	15,441	24,018	117,937
Hydrocarbon Gas Liquids	165	-	165	1,707	82	870	2,659
Natural Gas Liquids	165	-	165	1,707	82	870	2,659
Normal Butane	21	-	21	8	7	18	33
Isobutane	124	-	124	1,267	75	361	1,703
Natural Gasoline	20	-	20	432	-	491	923
Other Liquids	85,972	6,383	92,355	11,117	4,007	4,734	19,858
Hydrogen/Biofuels/Other Hydrocarbons	10,035	863	10,898	5,818	1,623	2,058	9,499
Hydrogen	50	12	62	661	219	192	1,072
Biofuels (Including Fuel Ethanol)	9,985	851	10,836	5,131	1,404	1,866	8,401
Fuel Ethanol	9,697	731	10,428	4,959	1,160	1,720	7,839
Biodiesel	288	120	408	172	244	84	500
Renewable Diesel Fuel	-	-	-	-	-	-	-
Other Biofuels ¹	-	-	-	-	-	62	62
Other Hydrocarbons	-	-	-	26	-	-	26
Unfinished Oils (net)	1,945	-16	1,929	-335	-290	359	-266
Naphthas and Lighter	415	12	427	339	-169	283	453
Kerosene and Light Gas Oils	-242	-	-242	1	-132	-342	-473
Heavy Gas Oils	987	-26	961	-88	-5	350	257
Residuum	785	-2	783	-587	16	68	-503
Motor Gasoline Blend.Comp. (MGBC)(net)	73,992	5,536	79,528	5,634	2,674	2,317	10,625
Reformulated - RBOB	17,216	-	17,216	-389	1,364	891	1,866
Conventional	56,776	5,536	62,312	6,023	1,310	1,426	8,759
CBOB	46,200	5,540	51,740	6,022	938	1,481	8,441
GTAB	3,009	-	3,009	-	-	-	-
Other	7,567	-4	7,563	1	372	-55	318
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input	106,557	9,297	115,854	91,302	19,530	29,622	140,454

See footnotes at end of table.

Table 16. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, May 2023
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	18,654	152,816	94,970	7,658	2,405	276,503	16,365	68,527	502,666
Hydrocarbon Gas Liquids	578	6,902	3,153	33	92	10,758	475	681	14,738
Natural Gas Liquids	578	6,902	3,153	33	92	10,758	475	681	14,738
Normal Butane	265	520	358	1	—	1,144	93	35	1,326
Isobutane	274	2,622	1,498	28	92	4,514	198	625	7,164
Natural Gasoline	39	3,760	1,297	4	—	5,100	184	21	6,248
Other Liquids	11,690	-47,904	-26,387	7,644	70	-54,887	2,282	14,388	73,996
Hydrogen/Biofuels/Other Hydrocarbons	2,314	3,495	2,167	1,137	182	9,295	1,214	6,872	37,778
Hydrogen	87	2,474	1,618	66	14	4,259	192	1,340	6,925
Biofuels (Including Fuel Ethanol)	2,227	1,021	549	1,071	168	5,036	1,022	5,532	30,827
Fuel Ethanol	2,154	943	507	1,035	147	4,786	938	4,723	28,714
Biodiesel	73	75	25	36	14	223	45	401	1,577
Renewable Diesel Fuel	—	—	—	—	—	—	—	404	404
Other Biofuels ¹	—	3	17	—	7	27	39	4	132
Other Hydrocarbons	—	—	—	—	—	—	—	—	26
Unfinished Oils (net)	-48	-5,452	10,249	-82	2	4,669	-356	2,444	8,420
Naphthas and Lighter	97	-8,654	1,125	3	108	-7,321	71	371	-5,999
Kerosene and Light Gas Oils	12	-1,315	-28	-36	-54	-1,421	-177	-209	-2,522
Heavy Gas Oils	-120	189	7,995	42	-52	8,054	-255	1,726	10,743
Residuum	-37	4,328	1,157	-91	—	5,357	5	556	6,198
Motor Gasoline Blend.Comp. (MGBC)(net)	9,418	-45,947	-38,809	6,589	-114	-68,863	1,424	5,072	27,786
Reformulated - RBOB	6,512	-9,952	-8,019	7	-456	-11,908	—	1,618	8,792
Conventional	2,906	-35,995	-30,790	6,582	342	-56,955	1,424	3,454	18,994
CBOB	2,970	-32,564	-30,146	6,603	333	-52,804	1,381	1,978	10,736
GTAB	—	—	—	—	—	—	—	—	3,009
Other	-64	-3,431	-644	-21	9	-4,151	43	1,476	5,249
Aviation Gasoline Blend. Comp. (net)	6	—	6	—	—	12	—	—	12
Total Input	30,922	111,814	71,736	15,335	2,567	232,374	19,122	83,596	591,400

-- = Not Applicable.

— = No Data Reported.

¹ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal Report."

Table 16. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, June 2023
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	16,298	2,964	19,262	78,554	15,787	26,101	120,442
Hydrocarbon Gas Liquids	551	-	551	1,761	78	907	2,746
Natural Gas Liquids	551	-	551	1,761	78	907	2,746
Normal Butane	26	-	26	18	9	16	43
Isobutane	132	-	132	1,352	69	448	1,869
Natural Gasoline	393	-	393	391	-	443	834
Other Liquids	83,984	6,137	90,121	9,250	3,738	4,034	17,022
Hydrogen/Biofuels/Other Hydrocarbons	9,620	836	10,456	5,654	1,642	2,050	9,346
Hydrogen	77	11	88	673	215	192	1,080
Biofuels (Including Fuel Ethanol)	9,543	825	10,368	4,960	1,427	1,858	8,245
Fuel Ethanol	9,285	713	9,998	4,787	1,183	1,687	7,657
Biodiesel	254	112	366	173	244	94	511
Renewable Diesel Fuel	4	-	4	-	-	-	-
Other Biofuels ¹	-	-	-	-	-	77	77
Other Hydrocarbons	-	-	-	21	-	-	21
Unfinished Oils (net)	2,163	-95	2,068	-77	-317	540	146
Naphthas and Lighter	777	-54	723	145	-81	4	68
Kerosene and Light Gas Oils	303	-	303	183	-127	367	423
Heavy Gas Oils	-303	-36	-339	-199	-109	166	-142
Residuum	1,386	-5	1,381	-206	-	3	-203
Motor Gasoline Blend.Comp. (MGBC)(net)	72,201	5,396	77,597	3,673	2,413	1,444	7,530
Reformulated - RBOB	16,252	-	16,252	-132	1,316	872	2,056
Conventional	55,949	5,396	61,345	3,805	1,097	572	5,474
CBOB	42,204	5,421	47,625	4,046	1,190	335	5,571
GTAB	4,323	-	4,323	-	-	-	-
Other	9,422	-25	9,397	-241	-93	237	-97
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input	100,833	9,101	109,934	89,565	19,603	31,042	140,210

See footnotes at end of table.

Table 16. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, June 2023
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	17,481	148,091	90,261	6,480	2,326	264,639	18,285	69,556	492,184
Hydrocarbon Gas Liquids	581	6,909	3,037	29	97	10,653	464	622	15,036
Natural Gas Liquids	581	6,909	3,037	29	97	10,653	464	622	15,036
Normal Butane	352	785	586	2	—	1,725	87	16	1,897
Isobutane	195	2,458	1,499	24	97	4,273	170	585	7,029
Natural Gasoline	34	3,666	952	3	—	4,655	207	21	6,110
Other Liquids	11,708	-46,941	-27,636	7,645	74	-55,150	2,280	11,532	65,805
Hydrogen/Biofuels/Other Hydrocarbons	2,156	3,474	2,021	1,098	194	8,943	1,225	6,756	36,726
Hydrogen	61	2,485	1,483	63	19	4,111	217	1,292	6,788
Biofuels (Including Fuel Ethanol)	2,095	989	538	1,035	175	4,832	1,008	5,464	29,917
Fuel Ethanol	2,016	917	494	1,009	147	4,583	920	4,553	27,711
Biodiesel	79	68	31	26	14	218	41	337	1,473
Renewable Diesel Fuel	—	—	—	—	—	—	—	562	566
Other Biofuels ¹	—	4	13	—	14	31	47	12	167
Other Hydrocarbons	—	—	—	—	—	—	—	—	21
Unfinished Oils (net)	562	-5,651	6,585	-160	-298	1,038	177	2,482	5,911
Naphthas and Lighter	449	-8,551	464	-95	-134	-7,867	-26	509	-6,593
Kerosene and Light Gas Oils	24	-2,043	-751	-58	-148	-2,976	146	-740	-2,844
Heavy Gas Oils	88	896	5,589	-32	-16	6,525	96	2,362	8,502
Residuum	1	4,047	1,283	25	—	5,356	-39	351	6,846
Motor Gasoline Blend.Comp. (MGBC)(net)	8,979	-44,764	-36,247	6,707	178	-65,147	878	2,294	23,152
Reformulated - RBOB	6,119	-10,735	-7,276	7	-360	-12,245	—	1,518	7,581
Conventional	2,860	-34,029	-28,971	6,700	538	-52,902	878	776	15,571
CBOB	2,638	-28,872	-28,752	6,745	472	-47,769	686	-73	6,040
GTAB	—	—	—	—	—	—	—	—	4,323
Other	222	-5,157	-219	-45	66	-5,133	192	849	5,208
Aviation Gasoline Blend. Comp. (net)	11	—	5	—	—	16	—	—	16
Total Input	29,770	108,059	65,662	14,154	2,497	220,142	21,029	81,710	573,025

-- = Not Applicable.

- = No Data Reported.

¹ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal Report."

Table 16. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, July 2023
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	17,404	3,142	20,546	80,075	17,317	27,822	125,214
Hydrocarbon Gas Liquids	201	-	201	2,048	85	874	3,007
Natural Gas Liquids	201	-	201	2,048	85	874	3,007
Normal Butane	36	-	36	4	6	20	30
Isobutane	121	-	121	1,379	79	476	1,934
Natural Gasoline	44	-	44	665	-	378	1,043
Other Liquids	86,940	6,297	93,237	6,776	3,518	3,105	13,399
Hydrogen/Biofuels/Other Hydrocarbons	9,848	845	10,693	5,647	1,682	2,030	9,359
Hydrogen	84	14	98	682	296	203	1,181
Biofuels (Including Fuel Ethanol)	9,764	831	10,595	4,951	1,386	1,827	8,164
Fuel Ethanol	9,515	733	10,248	4,797	1,164	1,666	7,627
Biodiesel	244	98	342	154	222	87	463
Renewable Diesel Fuel	5	-	5	-	-	-	-
Other Biofuels ¹	-	-	-	-	-	74	74
Other Hydrocarbons	-	-	-	14	-	-	14
Unfinished Oils (net)	1,791	-60	1,731	-844	-63	-119	-1,026
Naphthas and Lighter	418	-30	388	351	-41	-116	194
Kerosene and Light Gas Oils	271	-	271	-546	267	53	-226
Heavy Gas Oils	-45	-31	-76	-645	-289	77	-857
Residuum	1,147	1	1,148	-4	-	-133	-137
Motor Gasoline Blend.Comp. (MGBC)(net)	75,301	5,512	80,813	1,973	1,899	1,194	5,066
Reformulated - RBOB	15,619	-	15,619	-753	1,282	878	1,407
Conventional	59,682	5,512	65,194	2,726	617	316	3,659
CBOB	46,474	5,515	51,989	3,091	483	393	3,967
GTAB	5,483	-	5,483	-	-	-	-
Other	7,725	-3	7,722	-365	134	-77	-308
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input	104,545	9,439	113,984	88,899	20,920	31,801	141,620

See footnotes at end of table.

Table 16. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, July 2023
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	21,453	153,514	94,951	7,883	2,316	280,117	18,839	70,751	515,467
Hydrocarbon Gas Liquids	440	7,049	2,705	35	85	10,314	486	518	14,526
Natural Gas Liquids	440	7,049	2,705	35	85	10,314	486	518	14,526
Normal Butane	152	1,217	447	2	—	1,818	142	42	2,068
Isobutane	244	2,566	1,539	31	85	4,465	146	457	7,123
Natural Gasoline	44	3,266	719	2	—	4,031	198	19	5,335
Other Liquids	10,390	-49,376	-27,976	7,098	260	-59,604	2,402	11,101	60,535
Hydrogen/Biofuels/Other Hydrocarbons	2,315	3,444	2,100	1,103	220	9,182	1,296	6,614	37,144
Hydrogen	106	2,471	1,504	69	40	4,190	219	1,405	7,093
Biofuels (Including Fuel Ethanol)	2,209	973	596	1,034	180	4,992	1,077	5,209	30,037
Fuel Ethanol	2,130	892	502	1,014	150	4,688	1,010	4,651	28,224
Biodiesel	79	77	49	20	10	235	49	326	1,415
Renewable Diesel Fuel	—	—	—	—	—	—	—	230	235
Other Biofuels ¹	—	4	45	—	20	69	18	2	163
Other Hydrocarbons	—	—	—	—	—	—	—	—	14
Unfinished Oils (net)	-494	-6,009	7,451	-167	35	816	24	1,152	2,697
Naphthas and Lighter	-357	-9,028	765	-10	82	-8,548	144	-147	-7,969
Kerosene and Light Gas Oils	-55	-2,577	-559	12	-7	-3,186	-99	-261	-3,501
Heavy Gas Oils	-66	1,516	6,692	-12	-40	8,090	21	1,859	9,037
Residuum	-16	4,080	553	-157	—	4,460	-42	-299	5,130
Motor Gasoline Blend.Comp. (MGBC)(net)	8,555	-46,811	-37,538	6,162	5	-69,627	1,082	3,335	20,669
Reformulated - RBOB	6,415	-12,428	-6,948	8	-368	-13,321	—	1,594	5,299
Conventional	2,140	-34,383	-30,590	6,154	373	-56,306	1,082	1,741	15,370
CBOB	2,384	-29,198	-29,971	6,163	344	-50,278	978	803	7,459
GTAB	—	—	—	—	—	—	—	—	5,483
Other	-244	-5,185	-619	-9	29	-6,028	104	938	2,428
Aviation Gasoline Blend. Comp. (net)	14	—	11	—	—	25	—	—	25
Total Input	32,283	111,187	69,680	15,016	2,661	230,827	21,727	82,370	590,528

-- = Not Applicable.

- = No Data Reported.

¹ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal Report."

Table 16. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, August 2023
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	21,395	3,123	24,518	83,833	17,424	27,615	128,872
Hydrocarbon Gas Liquids	564	-	564	1,947	75	851	2,873
Natural Gas Liquids	564	-	564	1,947	75	851	2,873
Normal Butane	180	-	180	1	5	25	31
Isobutane	126	-	126	1,382	70	367	1,819
Natural Gasoline	258	-	258	564	-	459	1,023
Other Liquids	86,477	6,259	92,736	8,367	3,631	1,747	13,745
Hydrogen/Biofuels/Other Hydrocarbons	10,083	851	10,934	5,887	1,746	2,044	9,677
Hydrogen	91	14	105	662	299	194	1,155
Biofuels (Including Fuel Ethanol)	9,992	837	10,829	5,211	1,447	1,850	8,508
Fuel Ethanol	9,724	741	10,465	5,044	1,192	1,688	7,924
Biodiesel	257	96	353	167	255	89	511
Renewable Diesel Fuel	11	-	11	-	-	-	-
Other Biofuels ¹	-	-	-	-	-	73	73
Other Hydrocarbons	-	-	-	14	-	-	14
Unfinished Oils (net)	1,835	-189	1,646	-594	-302	-962	-1,858
Naphthas and Lighter	621	-134	487	426	-29	-103	294
Kerosene and Light Gas Oils	274	-	274	-144	34	-48	-158
Heavy Gas Oils	182	-54	128	-450	-307	-652	-1,409
Residuum	758	-1	757	-426	-	-159	-585
Motor Gasoline Blend.Comp. (MGBC)(net)	74,559	5,597	80,156	3,074	2,187	665	5,926
Reformulated - RBOB	16,166	-	16,166	-545	1,338	690	1,483
Conventional	58,393	5,597	63,990	3,619	849	-25	4,443
CBOB	46,601	5,614	52,215	3,847	759	-94	4,512
GTAB	5,846	-	5,846	-	-	-	-
Other	5,946	-17	5,929	-228	90	69	-69
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input	108,436	9,382	117,818	94,147	21,130	30,213	145,490

See footnotes at end of table.

Table 16. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, August 2023
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	19,885	151,038	92,591	8,099	2,498	274,111	19,214	70,659	517,374
Hydrocarbon Gas Liquids	467	7,523	3,375	34	89	11,488	439	800	16,164
Natural Gas Liquids	467	7,523	3,375	34	89	11,488	439	800	16,164
Normal Butane	213	1,200	478	2	—	1,893	131	92	2,327
Isobutane	201	2,498	1,620	27	89	4,435	175	694	7,249
Natural Gasoline	53	3,825	1,277	5	—	5,160	133	14	6,588
Other Liquids	11,938	-51,181	-28,008	7,343	105	-59,803	1,767	13,209	61,654
Hydrogen/Biofuels/Other Hydrocarbons	2,381	3,530	2,017	1,165	212	9,305	1,331	7,046	38,293
Hydrogen	105	2,532	1,423	91	29	4,180	235	1,427	7,102
Biofuels (Including Fuel Ethanol)	2,276	998	594	1,074	183	5,125	1,096	5,619	31,177
Fuel Ethanol	2,208	911	515	1,057	148	4,839	1,005	4,750	28,983
Biodiesel	68	82	37	17	16	220	57	355	1,496
Renewable Diesel Fuel	—	—	19	—	—	19	—	514	544
Other Biofuels ¹	—	5	23	—	19	47	34	—	154
Other Hydrocarbons	—	—	—	—	—	—	—	—	14
Unfinished Oils (net)	-499	-8,166	7,900	-233	22	-976	-195	1,716	333
Naphthas and Lighter	-205	-9,603	374	12	10	-9,412	-58	-23	-8,712
Kerosene and Light Gas Oils	101	-2,770	-849	-65	17	-3,566	-105	163	-3,392
Heavy Gas Oils	-339	1,313	7,645	-112	-5	8,502	43	1,943	9,207
Residuum	-56	2,894	730	-68	—	3,500	-75	-367	3,230
Motor Gasoline Blend.Comp. (MGBC)(net)	10,047	-46,545	-37,938	6,411	-129	-68,154	631	4,447	23,006
Reformulated - RBOB	7,118	-8,817	-5,134	6	-416	-7,243	—	2,776	13,182
Conventional	2,929	-37,728	-32,804	6,405	287	-60,911	631	1,671	9,824
CBOB	3,127	-30,482	-31,456	6,422	275	-52,114	721	822	6,156
GTAB	—	—	—	—	—	—	—	—	5,846
Other	-198	-7,246	-1,348	-17	12	-8,797	-90	849	-2,178
Aviation Gasoline Blend. Comp. (net)	9	—	13	—	—	22	—	—	22
Total Input	32,290	107,380	67,958	15,476	2,692	225,796	21,420	84,668	595,192

-- = Not Applicable.

- = No Data Reported.

¹ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal Report."

Table 16. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, September 2023
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	17,336	2,899	20,235	79,557	13,233	21,679	114,469
Hydrocarbon Gas Liquids	2,035	-	2,035	2,210	214	1,395	3,819
Natural Gas Liquids	2,035	-	2,035	2,210	214	1,395	3,819
Normal Butane	1,686	-	1,686	185	111	351	647
Isobutane	57	-	57	1,378	86	405	1,869
Natural Gasoline	292	-	292	647	17	639	1,303
Other Liquids	79,592	5,687	85,279	5,109	3,801	3,640	12,550
Hydrogen/Biofuels/Other Hydrocarbons	9,412	778	10,190	5,472	1,503	1,885	8,860
Hydrogen	94	14	108	628	200	188	1,016
Biofuels (Including Fuel Ethanol)	9,318	764	10,082	4,839	1,303	1,697	7,839
Fuel Ethanol	9,031	673	9,704	4,684	1,078	1,540	7,302
Biodiesel	272	91	363	155	225	87	467
Renewable Diesel Fuel	15	-	15	-	-	-	-
Other Biofuels ¹	-	-	-	-	-	70	70
Other Hydrocarbons	-	-	-	5	-	-	5
Unfinished Oils (net)	2,018	-140	1,878	-1,160	74	364	-722
Naphthas and Lighter	509	-73	436	-327	-34	205	-156
Kerosene and Light Gas Oils	195	-	195	-126	-4	12	-118
Heavy Gas Oils	316	-72	244	-722	112	70	-540
Residuum	998	5	1,003	15	-	77	92
Motor Gasoline Blend.Comp. (MGBC)(net)	68,162	5,049	73,211	797	2,224	1,391	4,412
Reformulated - RBOB	12,515	-	12,515	-346	1,263	618	1,535
Conventional	55,647	5,049	60,696	1,143	961	773	2,877
CBOB	45,894	5,069	50,963	1,588	882	749	3,219
GTAB	1,998	-	1,998	-	-	-	-
Other	7,755	-20	7,735	-445	79	24	-342
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input	98,963	8,586	107,549	86,876	17,248	26,714	130,838

See footnotes at end of table.

Table 16. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, September 2023
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	18,701	144,750	89,611	7,984	2,561	263,607	19,055	69,813	487,179
Hydrocarbon Gas Liquids	669	7,875	4,626	127	96	13,393	537	663	20,447
Natural Gas Liquids	669	7,875	4,626	127	96	13,393	537	663	20,447
Normal Butane	324	2,112	1,724	78	3	4,241	164	69	6,807
Isobutane	304	2,004	1,494	43	93	3,938	182	585	6,631
Natural Gasoline	41	3,759	1,408	6	-	5,214	191	9	7,009
Other Liquids	11,191	-47,858	-32,502	6,759	6	-62,404	1,965	9,298	46,688
Hydrogen/Biofuels/Other Hydrocarbons	2,255	3,384	2,021	1,088	208	8,956	1,252	6,545	35,803
Hydrogen	103	2,417	1,498	84	36	4,138	224	1,393	6,879
Biofuels (Including Fuel Ethanol)	2,152	967	523	1,004	172	4,818	1,028	5,152	28,919
Fuel Ethanol	2,085	859	478	987	143	4,552	944	4,447	26,949
Biodiesel	67	77	35	17	13	209	56	355	1,450
Renewable Diesel Fuel	-	-	-	-	-	-	-	350	365
Other Biofuels ¹	-	31	10	-	16	57	28	-	155
Other Hydrocarbons	-	-	-	-	-	-	-	-	5
Unfinished Oils (net)	-211	-9,230	4,229	-132	-149	-5,493	-17	392	-3,962
Naphthas and Lighter	-54	-8,127	-28	-22	-134	-8,365	63	414	-7,608
Kerosene and Light Gas Oils	153	-2,185	-1,600	-18	8	-3,642	24	-868	-4,409
Heavy Gas Oils	-84	-1,787	6,240	-19	-23	4,327	-22	596	4,605
Residuuum	-226	2,869	-383	-73	-	2,187	-82	250	3,450
Motor Gasoline Blend.Comp. (MGBC)(net)	9,138	-42,012	-38,758	5,803	-53	-65,882	730	2,361	14,832
Reformulated - RBOB	6,151	-8,185	-1,951	6	-411	-4,390	286	1,698	11,644
Conventional	2,987	-33,827	-36,807	5,797	358	-61,492	444	663	3,188
CBOB	3,135	-29,260	-34,424	5,850	320	-54,379	472	751	1,026
GTAB	-	-	-	-	-	-	-	-	1,998
Other	-148	-4,567	-2,383	-53	38	-7,113	-28	-88	164
Aviation Gasoline Blend. Comp. (net)	9	-	6	-	-	15	-	-	15
Total Input	30,561	104,767	61,735	14,870	2,663	214,596	21,557	79,774	554,314

-- = Not Applicable.

- = No Data Reported.

¹ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal Report."

Table 16. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, October 2023
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	15,452	3,101	18,553	76,228	13,795	23,962	113,985
Hydrocarbon Gas Liquids	2,220	-	2,220	2,797	258	1,503	4,558
Natural Gas Liquids	2,220	-	2,220	2,797	258	1,503	4,558
Normal Butane	1,807	-	1,807	635	175	485	1,295
Isobutane	-	-	-	1,585	62	480	2,127
Natural Gasoline	413	-	413	577	21	538	1,136
Other Liquids	84,472	6,015	90,487	5,048	3,542	2,899	11,489
Hydrogen/Biofuels/Other Hydrocarbons	9,956	829	10,785	5,767	1,431	2,045	9,243
Hydrogen	57	11	68	750	189	273	1,212
Biofuels (Including Fuel Ethanol)	9,899	818	10,717	5,001	1,242	1,772	8,015
Fuel Ethanol	9,525	713	10,238	4,828	1,149	1,616	7,593
Biodiesel	364	105	469	173	93	88	354
Renewable Diesel Fuel	10	-	10	-	-	-	-
Other Biofuels ¹	-	-	-	-	-	68	68
Other Hydrocarbons	-	-	-	16	-	-	16
Unfinished Oils (net)	685	-104	581	-1,116	-485	-473	-2,074
Naphthas and Lighter	411	-24	387	415	-63	-8	344
Kerosene and Light Gas Oils	-253	-	-253	-886	-77	-50	-1,013
Heavy Gas Oils	129	-79	50	-234	-345	-309	-888
Residuum	398	-1	397	-411	-	-106	-517
Motor Gasoline Blend.Comp. (MGBC)(net)	73,831	5,290	79,121	397	2,596	1,327	4,320
Reformulated - RBOB	17,859	-	17,859	48	1,117	684	1,849
Conventional	55,972	5,290	61,262	349	1,479	643	2,471
CBOB	46,784	5,243	52,027	884	1,110	678	2,672
GTAB	1,630	-	1,630	-	-	-	-
Other	7,558	47	7,605	-535	369	-35	-201
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input	102,144	9,116	111,260	84,073	17,595	28,364	130,032

See footnotes at end of table.

Table 16. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, October 2023
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	15,708	144,709	88,138	8,038	2,782	259,375	19,804	64,347	476,064
Hydrocarbon Gas Liquids	554	9,264	4,752	176	112	14,858	578	1,105	23,319
Natural Gas Liquids	554	9,264	4,752	176	112	14,858	578	1,105	23,319
Normal Butane	244	2,679	2,399	119	11	5,452	210	775	9,539
Isobutane	300	2,614	1,465	53	101	4,533	185	306	7,151
Natural Gasoline	10	3,971	888	4	-	4,873	183	24	6,629
Other Liquids	12,976	-50,538	-29,365	6,990	-42	-59,979	1,347	12,989	56,333
Hydrogen/Biofuels/Other Hydrocarbons	2,282	3,454	2,104	1,136	213	9,189	1,264	6,591	37,072
Hydrogen	29	2,428	1,541	90	40	4,128	234	1,240	6,882
Biofuels (Including Fuel Ethanol)	2,253	1,026	563	1,046	173	5,061	1,030	5,351	30,174
Fuel Ethanol	2,174	893	496	1,028	147	4,738	960	4,632	28,161
Biodiesel	79	80	39	18	13	229	32	379	1,463
Renewable Diesel Fuel	-	-	-	-	-	-	-	272	282
Other Biofuels ¹	-	53	28	-	13	94	38	68	268
Other Hydrocarbons	-	-	-	-	-	-	-	-	16
Unfinished Oils (net)	493	-9,327	6,332	-158	-1	-2,661	-160	388	-3,926
Naphthas and Lighter	448	-9,250	1	-26	30	-8,797	-94	-108	-8,268
Kerosene and Light Gas Oils	-37	-1,549	-1,496	-26	-20	-3,128	-9	-195	-4,598
Heavy Gas Oils	-10	-872	7,730	7	-11	6,844	-90	623	6,539
Residuum	92	2,344	97	-113	-	2,420	33	68	2,401
Motor Gasoline Blend.Comp. (MGBC)(net)	10,204	-44,665	-37,809	6,012	-254	-66,512	243	6,010	23,182
Reformulated - RBOB	6,011	-8,567	-1,463	8	-665	-4,676	660	2,548	18,240
Conventional	4,193	-36,098	-36,346	6,004	411	-61,836	-417	3,462	4,942
CBOB	3,871	-31,113	-33,950	6,017	383	-54,792	-496	1,988	1,399
GTAB	-	-	-	-	-	-	-	-	1,630
Other	322	-4,985	-2,396	-13	28	-7,044	79	1,474	1,913
Aviation Gasoline Blend. Comp. (net)	-3	-	8	-	-	5	-	-	5
Total Input	29,238	103,435	63,525	15,204	2,852	214,254	21,729	78,441	555,716

-- = Not Applicable.

- = No Data Reported.

¹ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal Report."

Table 16. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, November 2023
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	19,230	2,952	22,182	69,976	16,785	27,456	114,217
Hydrocarbon Gas Liquids	2,137	-	2,137	2,692	251	1,324	4,267
Natural Gas Liquids	2,137	-	2,137	2,692	251	1,324	4,267
Normal Butane	1,762	-	1,762	792	149	447	1,388
Isobutane	-	-	-	1,251	78	497	1,826
Natural Gasoline	375	-	375	649	24	380	1,053
Other Liquids	79,239	5,799	85,038	7,431	1,614	725	9,770
Hydrogen/Biofuels/Other Hydrocarbons	9,603	799	10,402	5,567	1,405	1,980	8,952
Hydrogen	75	12	87	784	246	287	1,317
Biofuels (Including Fuel Ethanol)	9,528	787	10,315	4,783	1,159	1,693	7,635
Fuel Ethanol	9,124	689	9,813	4,645	1,100	1,557	7,302
Biodiesel	398	98	496	138	59	85	282
Renewable Diesel Fuel	6	-	6	-	-	-	-
Other Biofuels ¹	-	-	-	-	-	51	51
Other Hydrocarbons	-	-	-	-	-	-	-
Unfinished Oils (net)	751	-78	673	-282	-207	176	-313
Naphthas and Lighter	306	-18	288	415	-102	254	567
Kerosene and Light Gas Oils	226	-	226	68	-59	-35	-26
Heavy Gas Oils	89	-59	30	-395	-46	75	-366
Residuum	130	-1	129	-370	-	-118	-488
Motor Gasoline Blend.Comp. (MGBC)(net)	68,885	5,078	73,963	2,146	416	-1,431	1,131
Reformulated - RBOB	16,497	-	16,497	298	983	662	1,943
Conventional	52,388	5,078	57,466	1,848	-567	-2,093	-812
CBOB	45,251	5,061	50,312	2,451	-681	-1,938	-168
GTAB	1,074	-	1,074	-	-	-	-
Other	6,063	17	6,080	-603	114	-155	-644
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input	100,606	8,751	109,357	80,099	18,650	29,505	128,254

See footnotes at end of table.

Table 16. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, November 2023
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	16,011	146,326	89,168	7,515	2,711	261,731	18,388	61,597	478,115
Hydrocarbon Gas Liquids	597	9,703	5,071	128	151	15,650	611	1,220	23,885
Natural Gas Liquids	597	9,703	5,071	128	151	15,650	611	1,220	23,885
Normal Butane	303	3,133	2,926	82	33	6,477	287	737	10,651
Isobutane	256	2,590	1,410	41	118	4,415	207	466	6,914
Natural Gasoline	38	3,980	735	5	-	4,758	117	17	6,320
Other Liquids	11,480	-51,213	-26,034	6,767	-320	-59,320	1,442	11,860	48,790
Hydrogen/Biofuels/Other Hydrocarbons	2,190	3,436	2,063	1,046	224	8,959	1,170	6,183	35,666
Hydrogen	46	2,425	1,559	47	43	4,120	212	1,231	6,967
Biofuels (Including Fuel Ethanol)	2,144	1,011	504	999	181	4,839	958	4,952	28,699
Fuel Ethanol	2,083	837	463	976	140	4,499	909	4,326	26,849
Biodiesel	61	66	34	23	17	201	28	343	1,350
Renewable Diesel Fuel	-	-	-	-	-	-	-	208	214
Other Biofuels ¹	-	108	7	-	24	139	21	75	286
Other Hydrocarbons	-	-	-	-	-	-	-	-	-
Unfinished Oils (net)	-95	-5,620	9,543	44	-62	3,810	-74	1,098	5,194
Naphthas and Lighter	318	-7,579	858	38	-12	-6,377	43	-103	-5,582
Kerosene and Light Gas Oils	-42	-2,029	320	-34	-34	-1,819	110	-711	-2,220
Heavy Gas Oils	-114	1,124	7,847	111	-16	8,952	-243	2,013	10,386
Residuum	-257	2,864	518	-71	-	3,054	16	-101	2,610
Motor Gasoline Blend.Comp. (MGBC)(net)	9,387	-49,029	-37,641	5,677	-482	-72,088	346	4,579	7,931
Reformulated - RBOB	6,144	-7,603	-2,022	6	-615	-4,090	1,265	2,412	18,027
Conventional	3,243	-41,426	-35,619	5,671	133	-67,998	-919	2,167	-10,096
CBOB	3,067	-34,061	-34,315	5,699	171	-59,439	-785	1,611	-8,469
GTAB	-	-	-	-	-	-	-	-	1,074
Other	176	-7,365	-1,304	-28	-38	-8,559	-134	556	-2,701
Aviation Gasoline Blend. Comp. (net)	-2	-	1	-	-	-1	-	-	-1
Total Input	28,088	104,816	68,205	14,410	2,542	218,061	20,441	74,677	550,790

-- = Not Applicable.

- = No Data Reported.

¹ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal Report."

Table 16. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, December 2023
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	21,044	2,992	24,036	77,688	16,795	27,991	122,474
Hydrocarbon Gas Liquids	2,099	-	2,099	2,960	218	1,372	4,550
Natural Gas Liquids	2,099	-	2,099	2,960	218	1,372	4,550
Normal Butane	1,651	-	1,651	916	117	516	1,549
Isobutane	131	-	131	1,532	85	513	2,130
Natural Gasoline	317	-	317	512	16	343	871
Other Liquids	77,281	5,608	82,889	3,585	1,616	-366	4,835
Hydrogen/Biofuels/Other Hydrocarbons	9,561	780	10,341	5,617	1,432	1,926	8,975
Hydrogen	81	13	94	833	317	291	1,441
Biofuels (Including Fuel Ethanol)	9,480	767	10,247	4,763	1,115	1,635	7,513
Fuel Ethanol	9,012	680	9,692	4,642	1,071	1,521	7,234
Biodiesel	465	87	552	121	44	72	237
Renewable Diesel Fuel	3	-	3	-	-	-	-
Other Biofuels ¹	-	-	-	-	-	42	42
Other Hydrocarbons	-	-	-	21	-	-	21
Unfinished Oils (net)	1,674	-49	1,625	758	434	531	1,723
Naphthas and Lighter	156	-12	144	461	-7	297	751
Kerosene and Light Gas Oils	177	-	177	34	-108	19	-55
Heavy Gas Oils	714	-36	678	124	549	185	858
Residuum	627	-1	626	139	-	30	169
Motor Gasoline Blend.Comp. (MGBC)(net)	66,046	4,877	70,923	-2,790	-250	-2,823	-5,863
Reformulated - RBOB	13,087	-	13,087	549	1,073	620	2,242
Conventional	52,959	4,877	57,836	-3,339	-1,323	-3,443	-8,105
CBOB	46,014	4,870	50,884	-2,054	-1,452	-3,524	-7,030
GTAB	1,274	-	1,274	-	-	-	-
Other	5,671	7	5,678	-1,285	129	81	-1,075
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input	100,424	8,600	109,024	84,233	18,629	28,997	131,859

See footnotes at end of table.

Table 16. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, December 2023
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	19,844	156,412	93,452	8,072	2,579	280,359	17,848	66,840	511,557
Hydrocarbon Gas Liquids	665	9,850	5,032	129	148	15,824	710	1,518	24,701
Natural Gas Liquids	665	9,850	5,032	129	148	15,824	710	1,518	24,701
Normal Butane	330	3,188	2,817	86	35	6,456	366	962	10,984
Isobutane	308	2,540	1,550	37	113	4,548	205	539	7,553
Natural Gasoline	27	4,122	665	6	-	4,820	139	17	6,164
Other Liquids	9,027	-50,539	-27,207	6,439	-251	-62,531	1,490	8,884	35,567
Hydrogen/Biofuels/Other Hydrocarbons	2,212	3,394	2,242	1,053	215	9,116	1,126	6,291	35,849
Hydrogen	105	2,420	1,697	63	39	4,324	206	1,367	7,432
Biofuels (Including Fuel Ethanol)	2,107	974	545	990	176	4,792	920	4,924	28,396
Fuel Ethanol	2,030	801	496	974	140	4,441	885	4,388	26,640
Biodiesel	77	56	43	16	7	199	14	275	1,277
Renewable Diesel Fuel	-	-	-	-	-	-	-	202	205
Other Biofuels ¹	-	117	6	-	29	152	21	59	274
Other Hydrocarbons	-	-	-	-	-	-	-	-	21
Unfinished Oils (net)	66	-4,579	9,558	-112	-140	4,793	-43	1,181	9,279
Naphthas and Lighter	175	-7,895	152	-63	5	-7,626	-47	241	-6,537
Kerosene and Light Gas Oils	-27	-1,819	664	-16	-84	-1,282	-21	-285	-1,466
Heavy Gas Oils	-83	2,112	7,090	59	-61	9,117	78	928	11,659
Residuum	1	3,023	1,652	-92	-	4,584	-53	297	5,623
Motor Gasoline Blend.Comp. (MGBC)(net)	6,744	-49,354	-39,009	5,498	-326	-76,447	407	1,412	-9,568
Reformulated - RBOB	5,032	-8,035	-2,225	8	-599	-5,819	1,801	1,079	12,390
Conventional	1,712	-41,319	-36,784	5,490	273	-70,628	-1,394	333	-21,958
CBOB	1,851	-34,992	-34,651	5,503	222	-62,067	-1,481	1,220	-18,474
GTAB	-	-	-	-	-	-	-	-	1,274
Other	-139	-6,327	-2,133	-13	51	-8,561	87	-887	-4,758
Aviation Gasoline Blend. Comp. (net)	5	-	2	-	-	7	-	-	7
Total Input	29,536	115,723	71,277	14,640	2,476	233,652	20,048	77,242	571,825

-- = Not Applicable.

- = No Data Reported.

¹ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal Report."