

Table 18. Refinery Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, 2019
(Thousand Barrels, Except Where Noted)

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	291,680	35,201	326,881	893,503	182,876	311,586	1,387,965
Hydrocarbon Gas Liquids	6,366	-	6,366	21,215	683	8,538	30,436
Natural Gas Liquids	6,366	-	6,366	21,215	683	8,538	30,436
Normal Butane	2,384	-	2,384	3,714	-	441	4,155
Isobutane	3,982	-	3,982	12,462	683	4,669	17,814
Natural Gasoline	-	-	-	5,039	-	3,428	8,467
Other Liquids	-125,140	933	-124,207	-403,193	-64,501	-134,903	-602,597
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	2,005	1,780	3,785	11,865	5,249	3,746	20,860
Hydrogen	1,050	134	1,184	8,396	3,075	2,134	13,605
Oxygenates (excluding Fuel Ethanol)	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE)	-	-	-	-	-	-	-
All Other Oxygenates ¹	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	955	1,646	2,601	3,106	2,174	1,612	6,892
Fuel Ethanol	955	1,367	2,322	2,016	1,725	1,370	5,111
Renewable Diesel Fuel ²	-	279	279	1,090	449	242	1,781
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	-	363	-	-	363
Unfinished Oils (net)	22,756	-918	21,838	-1,441	-4,530	-2,029	-8,000
Naphthas and Lighter	8,690	-523	8,167	2,923	-2,008	354	1,269
Kerosene and Light Gas Oils	959	3	962	-159	-1,603	-257	-2,019
Heavy Gas Oils	10,003	-397	9,606	-2,261	-919	-530	-3,710
Residuum	3,104	-1	3,103	-1,944	-	-1,596	-3,540
Motor Gasoline Blend.Comp. (MGBC)(net)	-149,901	71	-149,830	-413,617	-65,220	-136,620	-615,457
Reformulated - RBOB	-98,574	-	-98,574	-93,013	-1,249	-	-94,262
Conventional	-51,327	71	-51,256	-320,604	-63,971	-136,620	-521,195
CBOB	-48,098	9	-48,089	-314,505	-64,100	-136,922	-515,527
GTAB	-	-	-	-	-	-	-
Other	-3,229	62	-3,167	-6,099	129	302	-5,668
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input to Refineries	172,906	36,134	209,040	511,525	119,058	185,221	815,804
Atmospheric Crude Oil Distillation							
Gross Input (daily average)	802	98	900	2,453	512	855	3,820
Operable Capacity (daily average)	1,126	98	1,224	2,678	547	923	4,147
Operable Utilization Rate (percent) ³	71.3	99.4	73.5	91.6	93.7	92.7	92.1
Downstream Processing							
Fresh Feed Input (daily average)							
Catalytic Reforming	146	16	162	452	72	160	684
Catalytic Cracking	305	16	320	731	120	211	1,063
Catalytic Hydrocracking	34	-	34	183	57	56	297
Delayed and Fluid Coking	41	-	41	326	64	82	472
Crude Oil Qualities							
Sulfur Content, Weighted Average (percent)	0.74	1.62	0.84	1.53	1.67	0.63	1.35
API Gravity, Weighted Average (degrees)	35.83	32.33	35.45	33.07	29.04	38.84	33.78
Operable Capacity (daily average)	1,126	98	1,224	2,678	547	923	4,147
Operating	985	98	1,084	2,586	509	917	4,011
Idle	140	-	140	92	38	6	136
Alaskan Crude Oil Receipts	-	-	-	-	-	-	-

See footnotes at end of table.

Table 18. Refinery Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, 2019
(Thousand Barrels, Except Where Noted) — 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	254,158	1,608,559	1,234,105	81,175	45,339	3,223,336	229,745	877,469	6,045,396
Hydrocarbon Gas Liquids	7,222	48,255	46,042	360	2,062	103,941	6,154	27,787	174,684
Natural Gas Liquids	7,222	48,255	46,042	360	2,062	103,941	6,154	27,787	174,684
Normal Butane	2,815	14,197	11,367	4	1	28,384	2,200	10,539	47,662
Isobutane	2,968	22,981	17,710	316	2,053	46,028	2,294	9,115	79,233
Natural Gasoline	1,439	11,077	16,965	40	8	29,529	1,660	8,133	47,789
Other Liquids	-111,067	-592,125	-342,712	-17,087	-18,621	-1,081,612	-59,179	-391,263	-2,258,858
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	3,446	25,690	21,637	1,536	1,198	53,507	6,234	19,349	103,735
Hydrogen	80	24,972	18,903	842	543	45,340	2,501	14,970	77,600
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--
Methyl Tertiary Butyl Ether (MTBE)	--	--	--	--	--	--	--	--	--
All Other Oxygenates ¹	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	3,366	718	2,734	694	655	8,167	3,733	4,379	25,772
Fuel Ethanol	2,654	580	2,213	503	535	6,485	3,323	1,094	18,335
Renewable Diesel Fuel ²	712	138	521	191	120	1,682	410	3,285	7,437
Other Renewable Fuels	--	--	--	--	--	--	--	--	--
Other Hydrocarbons	--	--	--	--	--	--	--	--	363
Unfinished Oils (net)	-3,648	-25,314	125,509	-2,665	-772	93,110	-2,019	23,259	128,188
Naphthas and Lighter	-1,201	-70,495	5,639	-479	-177	-66,713	-766	-1,852	-59,895
Kerosene and Light Gas Oils	-85	-13,046	16,679	-327	-536	2,685	-2,840	-7,036	-8,248
Heavy Gas Oils	-1,886	41,631	78,765	-985	-59	117,466	2,059	26,321	151,742
Residuum	-476	16,596	24,426	-874	--	39,672	-472	5,826	44,589
Motor Gasoline Blend.Comp. (MGBC)(net)	-111,051	-592,501	-489,897	-15,958	-19,047	-1,228,454	-63,394	-433,871	-2,491,006
Reformulated - RBOB	-11,719	-166,993	-49,197	--	-8,885	-236,794	--	-323,449	-753,079
Conventional	-99,332	-425,508	-440,700	-15,958	-10,162	-991,660	-63,394	-110,422	-1,737,927
CBOB	-98,061	-366,091	-417,287	-15,576	-10,187	-907,202	-64,013	-114,327	-1,649,158
GTAB	--	--	--	--	--	--	--	--	--
Other	-1,271	-59,417	-23,413	-382	25	-84,458	619	3,905	-88,769
Aviation Gasoline Blend. Comp. (net)	186	--	39	--	--	225	--	--	225
Total Input to Refineries	150,313	1,064,689	937,435	64,448	28,780	2,245,665	176,720	513,993	3,961,222
Atmospheric Crude Oil Distillation									
Gross Input (daily average)	695	4,545	3,526	199	125	9,090	630	2,553	16,993
Operable Capacity (daily average)	745	5,042	3,696	256	136	9,876	687	2,875	18,808
Operable Utilization Rate (percent) ³	93.3	90.1	95.4	77.7	91.7	92.0	91.8	88.8	90.4
Downstream Processing									
Fresh Feed Input (daily average)									
Catalytic Reforming	147	633	599	32	26	1,437	99	394	2,777
Catalytic Cracking	171	1,276	1,001	14	30	2,493	168	667	4,711
Catalytic Hydrocracking	46	478	444	15	16	999	26	458	1,814
Delayed and Fluid Coking	23	735	505	25	--	1,289	63	431	2,296
Crude Oil Qualities									
Sulfur Content, Weighted Average (percent)	0.57	1.42	1.22	1.54	0.85	1.26	1.41	1.39	1.29
API Gravity, Weighted Average (degrees)	39.98	33.09	32.78	30.01	37.43	33.54	33.04	28.61	32.93
Operable Capacity (daily average)	745	5,042	3,696	256	136	9,876	687	2,875	18,808
Operating	745	4,984	3,679	256	136	9,802	669	2,874	18,439
Idle	--	58	16	--	--	74	18	1	370
Alaskan Crude Oil Receipts	--	--	--	--	--	--	--	157,560	157,560

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

² Renewable diesel fuel includes biodiesel and other renewable diesel.

³ Represents gross input divided by operable calendar day capacity.

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) Form EIA-810, "Monthly Refinery Report."