Table 30. Refinery Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, July 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	**24,354**	**3,156**	**27,510**	**82,069**	**16,406**	**28,110**	**126,585**
Hydrocarbon Gas Liquids	**273**	**–**	**273**	**1,449**	**44**	**805**	**2,298**
Natural Gas Liquids	273	–	273	1,449	44	805	2,298
Normal Butane	4	–	4	14	–	19	33
Isobutane	269	–	269	1,100	44	422	1,566
Natural Gasoline	–	–	–	335	–	364	699
Other Liquids	**-9,723**	**147**	**-9,576**	**-35,033**	**-4,988**	**-11,623**	**-51,644**
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	184	162	346	1,045	484	342	1,871
Hydrogen	100	10	110	748	268	203	1,219
Oxygenates (excluding Fuel Ethanol)	–	–	–	–	–	–	–
Methyl Tertiary Butyl Ether (MTBE)	–	–	–	–	–	–	–
All Other Oxygenates[1]	–	–	–	–	–	–	–
Renewable Fuels (including Fuel Ethanol)	84	152	236	252	216	139	607
Fuel Ethanol	84	122	206	160	159	119	438
Renewable Diesel Fuel[2]	–	30	30	92	57	20	169
Other Renewable Fuels	–	–	–	–	–	–	–
Other Hydrocarbons	–	–	–	45	–	–	45
Unfinished Oils (net)	1,351	-23	1,328	49	-255	204	-2
Naphthas and Lighter	385	21	406	179	-182	206	203
Kerosene and Light Gas Oils	383	–	383	-110	-71	45	-136
Heavy Gas Oils	433	-40	393	102	-2	7	107
Residuum	150	-4	146	-122	–	-54	-176
Motor Gasoline Blend.Comp. (MGBC)(net)	-11,258	8	-11,250	-36,127	-5,217	-12,169	-53,513
Reformulated - RBOB	-7,812	–	-7,812	-7,927	–	–	-7,927
Conventional	-3,446	8	-3,438	-28,200	-5,217	-12,169	-45,586
CBOB	-2,782	-11	-2,793	-27,976	-5,034	-12,029	-45,039
GTAB	–	–	–	–	–	–	–
Other	-664	19	-645	-224	-183	-140	-547
Aviation Gasoline Blend. Comp. (net)	–	–	–	–	–	–	–
Total Input to Refineries	**14,904**	**3,303**	**18,207**	**48,485**	**11,462**	**17,292**	**77,239**
Atmospheric Crude Oil Distillation							
Gross Input (daily average)	785	103	888	2,644	536	907	4,088
Operable Capacity (daily average)	1,126	98	1,224	2,678	547	917	4,141
Operable Utilization Rate (percent)[3]	69.7	105.1	72.6	98.7	98.2	99.0	98.7
Downstream Processing Fresh Feed Input (daily average)							
Catalytic Reforming	155	17	172	499	81	175	755
Catalytic Cracking	288	16	304	825	114	220	1,158
Catalytic Hydrocracking	41	–	41	188	63	63	314
Delayed and Fluid Coking	50	–	50	344	69	93	506
Crude Oil Qualities							
Sulfur Content, Weighted Average (percent)	0.88	1.57	0.97	1.59	1.68	0.66	1.40
API Gravity, Weighted Average (degrees)	35.51	32.50	35.13	32.29	29.20	38.97	33.31
Operable Capacity (daily average)	**1,126**	**98**	**1,224**	**2,678**	**547**	**917**	**4,141**
Operating	1,126	98	1,224	2,650	509	917	4,076
Idle	–	–	–	28	38	–	66
Alaskan Crude Oil Receipts	**–**	**–**	**–**	**–**	**–**	**–**	**–**

See footnotes at end of table.

Table 30. Refinery Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, July 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	**21,526**	**142,894**	**103,189**	**7,499**	**4,091**	**279,199**	**21,288**	**77,848**	**532,430**
Hydrocarbon Gas Liquids	**345**	**3,742**	**3,502**	**37**	**167**	**7,793**	**455**	**1,975**	**12,794**
Natural Gas Liquids	345	3,742	3,502	37	167	7,793	455	1,975	12,794
Normal Butane	83	660	104	–	–	847	101	534	1,519
Isobutane	198	1,957	1,384	33	167	3,739	207	883	6,664
Natural Gasoline	64	1,125	2,014	4	–	3,207	147	558	4,611
Other Liquids	**-8,694**	**-50,246**	**-29,122**	**-1,498**	**-1,530**	**-91,090**	**-4,679**	**-32,649**	**-189,638**
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	307	2,244	1,841	125	100	4,617	573	1,705	9,112
Hydrogen	5	2,178	1,603	64	41	3,891	202	1,292	6,714
Oxygenates (excluding Fuel Ethanol)	–	–	–	–	–	–	–	–	–
Methyl Tertiary Butyl Ether (MTBE)	–	–	–	–	–	–	–	–	–
All Other Oxygenates[1]	–	–	–	–	–	–	–	–	–
Renewable Fuels (including Fuel Ethanol)	302	66	238	61	59	726	371	413	2,353
Fuel Ethanol	240	53	194	39	50	576	319	89	1,628
Renewable Diesel Fuel[2]	62	13	44	22	9	150	52	324	725
Other Renewable Fuels	–	–	–	–	–	–	–	–	–
Other Hydrocarbons	–	–	–	–	–	–	–	–	45
Unfinished Oils (net)	86	265	13,244	-66	-210	13,319	175	3,724	18,544
Naphthas and Lighter	135	-4,456	796	27	-12	-3,510	178	75	-2,648
Kerosene and Light Gas Oils	-79	-1,321	966	23	-84	-495	-308	-192	-748
Heavy Gas Oils	49	4,472	9,727	5	-114	14,139	311	3,152	18,102
Residuum	-19	1,570	1,755	-121	–	3,185	-6	689	3,838
Motor Gasoline Blend.Comp. (MGBC)(net)	-9,095	-52,755	-44,213	-1,557	-1,420	-109,040	-5,427	-38,078	-217,308
Reformulated - RBOB	-1,196	-16,122	-7,383	–	-633	-25,334	–	-28,588	-69,661
Conventional	-7,899	-36,633	-36,830	-1,557	-787	-83,706	-5,427	-9,490	-147,647
CBOB	-7,878	-31,039	-35,518	-1,522	-751	-76,708	-5,567	-9,848	-139,955
GTAB	–	–	–	–	–	–	–	–	–
Other	-21	-5,594	-1,312	-35	-36	-6,998	140	358	-7,692
Aviation Gasoline Blend. Comp. (net)	8	–	6	–	–	14	–	–	14
Total Input to Refineries	**13,177**	**96,390**	**77,569**	**6,038**	**2,728**	**195,902**	**17,064**	**47,174**	**355,586**
Atmospheric Crude Oil Distillation									
Gross Input (daily average)	695	4,792	3,524	217	131	9,359	689	2,674	17,698
Operable Capacity (daily average)	745	5,042	3,696	256	136	9,876	687	2,875	18,802
Operable Utilization Rate (percent)[3]	93.2	95.0	95.3	84.7	96.7	94.8	100.3	93.0	94.1
Downstream Processing Fresh Feed Input (daily average)									
Catalytic Reforming	145	698	618	35	27	1,523	114	419	2,984
Catalytic Cracking	184	1,297	1,028	14	30	2,553	183	710	4,909
Catalytic Hydrocracking	47	500	452	20	16	1,036	28	468	1,887
Delayed and Fluid Coking	23	827	510	26	–	1,385	70	459	2,469
Crude Oil Qualities									
Sulfur Content, Weighted Average (percent)	0.57	1.44	1.20	1.53	0.92	1.27	1.49	1.49	1.33
API Gravity, Weighted Average (degrees)	39.74	33.11	32.01	30.15	35.44	33.22	32.35	28.79	32.62
Operable Capacity (daily average)	**745**	**5,042**	**3,696**	**256**	**136**	**9,876**	**687**	**2,875**	**18,802**
Operating	745	5,007	3,696	256	136	9,841	677	2,869	18,686
Idle	–	35	–	–	–	35	10	7	117
Alaskan Crude Oil Receipts	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**14,913**	**14,913**

– = 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."