Table 30. Refinery Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, September 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	**21,627**	**2,939**	**24,566**	**76,350**	**12,485**	**27,801**	**116,636**
Hydrocarbon Gas Liquids	**526**	**–**	**526**	**1,832**	**50**	**956**	**2,838**
Natural Gas Liquids	526	–	526	1,832	50	956	2,838
Normal Butane	227	–	227	172	–	–	172
Isobutane	299	–	299	1,163	50	427	1,640
Natural Gasoline	–	–	–	497	–	529	1,026
Other Liquids	**-8,312**	**142**	**-8,170**	**-34,285**	**-3,891**	**-12,413**	**-50,589**
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	233	150	383	917	310	336	1,563
Hydrogen	91	11	102	618	128	204	950
Oxygenates (excluding Fuel Ethanol)	–	–	–	–	–	–	–
Methyl Tertiary Butyl Ether (MTBE)	–	–	–	–	–	–	–
All Other Oxygenates[1]	–	–	–	–	–	–	–
Renewable Fuels (including Fuel Ethanol)	142	139	281	265	182	132	579
Fuel Ethanol	142	114	256	174	137	112	423
Renewable Diesel Fuel[2]	–	25	25	91	45	20	156
Other Renewable Fuels	–	–	–	–	–	–	–
Other Hydrocarbons	–	–	–	34	–	–	34
Unfinished Oils (net)	2,041	31	2,072	245	-1,349	-258	-1,362
Naphthas and Lighter	555	61	616	501	-145	44	400
Kerosene and Light Gas Oils	498	3	501	-129	-6	-36	-171
Heavy Gas Oils	504	-36	468	-165	-1,198	72	-1,291
Residuum	484	3	487	38	–	-338	-300
Motor Gasoline Blend.Comp. (MGBC)(net)	-10,586	-39	-10,625	-35,447	-2,852	-12,491	-50,790
Reformulated - RBOB	-6,916	–	-6,916	-7,602	–	–	-7,602
Conventional	-3,670	-39	-3,709	-27,845	-2,852	-12,491	-43,188
CBOB	-3,278	-59	-3,337	-27,149	-3,416	-12,359	-42,924
GTAB	–	–	–	–	–	–	–
Other	-392	20	-372	-696	564	-132	-264
Aviation Gasoline Blend. Comp. (net)	–	–	–	–	–	–	–
Total Input to Refineries	**13,841**	**3,081**	**16,922**	**43,897**	**8,644**	**16,344**	**68,885**
Atmospheric Crude Oil Distillation							
Gross Input (daily average)	722	100	822	2,538	434	928	3,900
Operable Capacity (daily average)	1,126	98	1,224	2,678	547	923	4,147
Operable Utilization Rate (percent)[3]	64.1	101.7	67.2	94.8	79.4	100.6	94.0
Downstream Processing Fresh Feed Input (daily average)							
Catalytic Reforming	124	16	140	484	66	182	732
Catalytic Cracking	273	16	289	763	40	231	1,034
Catalytic Hydrocracking	40	–	40	202	38	63	303
Delayed and Fluid Coking	45	–	45	352	40	78	470
Crude Oil Qualities							
Sulfur Content, Weighted Average (percent)	0.76	1.71	0.87	1.49	1.35	0.62	1.27
API Gravity, Weighted Average (degrees)	36.02	31.36	35.43	33.61	31.12	38.17	34.40
Operable Capacity (daily average)	**1,126**	**98**	**1,224**	**2,678**	**547**	**923**	**4,147**
Operating	791	98	889	2,650	509	923	4,082
Idle	335	–	335	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, September 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	**21,746**	**125,992**	**103,208**	**6,619**	**3,485**	**261,050**	**19,164**	**70,689**	**492,105**
Hydrocarbon Gas Liquids	**468**	**4,107**	**4,004**	**30**	**161**	**8,770**	**473**	**1,586**	**14,193**
Natural Gas Liquids	468	4,107	4,004	30	161	8,770	473	1,586	14,193
Normal Butane	107	931	1,176	–	–	2,214	125	414	3,152
Isobutane	224	2,136	1,351	26	161	3,898	195	683	6,715
Natural Gasoline	137	1,040	1,477	4	–	2,658	153	489	4,326
Other Liquids	**-9,003**	**-48,466**	**-30,426**	**-1,326**	**-1,626**	**-90,847**	**-4,807**	**-28,897**	**-183,310**
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	292	1,912	1,595	136	78	4,013	539	1,705	8,203
Hydrogen	7	1,855	1,387	66	48	3,363	208	1,339	5,962
Oxygenates (excluding Fuel Ethanol)	–	–	–	–	–	–	–	–	–
Methyl Tertiary Butyl Ether (MTBE)	–	–	–	–	–	–	–	–	–
All Other Oxygenates[1]	–	–	–	–	–	–	–	–	–
Renewable Fuels (including Fuel Ethanol)	285	57	208	70	30	650	331	366	2,207
Fuel Ethanol	221	47	165	45	19	497	286	90	1,552
Renewable Diesel Fuel[2]	64	10	43	25	11	153	45	276	655
Other Renewable Fuels	–	–	–	–	–	–	–	–	–
Other Hydrocarbons	–	–	–	–	–	–	–	–	34
Unfinished Oils (net)	-606	-2,123	9,253	-164	-11	6,349	-28	4,412	11,443
Naphthas and Lighter	-325	-4,871	385	-47	6	-4,852	-258	7	-4,087
Kerosene and Light Gas Oils	104	-1,495	1,053	-16	-5	-359	-220	-437	-686
Heavy Gas Oils	-391	2,568	5,587	-33	-12	7,719	446	4,002	11,344
Residuum	6	1,675	2,228	-68	–	3,841	4	840	4,872
Motor Gasoline Blend.Comp. (MGBC)(net)	-8,710	-48,255	-41,271	-1,298	-1,693	-101,227	-5,318	-35,014	-202,974
Reformulated - RBOB	-872	-13,062	-2,016	–	-828	-16,778	–	-25,993	-57,289
Conventional	-7,838	-35,193	-39,255	-1,298	-865	-84,449	-5,318	-9,021	-145,685
CBOB	-7,606	-29,113	-37,065	-1,259	-955	-75,998	-5,302	-9,158	-136,719
GTAB	–	–	–	–	–	–	–	–	–
Other	-232	-6,080	-2,190	-39	90	-8,451	-16	137	-8,966
Aviation Gasoline Blend. Comp. (net)	21	–	-3	–	–	18	–	–	18
Total Input to Refineries	**13,211**	**81,633**	**76,786**	**5,323**	**2,020**	**178,973**	**14,830**	**43,378**	**322,988**
Atmospheric Crude Oil Distillation									
Gross Input (daily average)	724	4,355	3,599	194	118	8,990	641	2,385	16,738
Operable Capacity (daily average)	745	5,042	3,696	256	136	9,876	687	2,875	18,808
Operable Utilization Rate (percent)[3]	97.1	86.4	97.4	75.7	87.0	91.0	93.3	83.0	89.0
Downstream Processing Fresh Feed Input (daily average)									
Catalytic Reforming	153	621	608	32	21	1,435	98	367	2,772
Catalytic Cracking	168	1,299	987	15	25	2,494	181	694	4,693
Catalytic Hydrocracking	45	405	397	17	18	882	28	468	1,722
Delayed and Fluid Coking	24	662	507	26	–	1,219	66	407	2,206
Crude Oil Qualities									
Sulfur Content, Weighted Average (percent)	0.53	1.32	1.23	1.57	0.84	1.21	1.42	1.58	1.27
API Gravity, Weighted Average (degrees)	40.13	33.74	33.15	29.09	37.57	34.01	32.70	28.74	33.33
Operable Capacity (daily average)	**745**	**5,042**	**3,696**	**256**	**136**	**9,876**	**687**	**2,875**	**18,808**
Operating	745	5,007	3,696	256	136	9,841	677	2,875	18,363
Idle	–	35	–	–	–	35	10	–	445
Alaskan Crude Oil Receipts	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**11,657**	**11,657**

– = 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."