



Independent Statistics & Analysis

U.S. Energy Information
Administration

Refinery Capacity Report

June 2020

With Data as of January 1, 2020



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Table 1. Number and Capacity of Operable Petroleum Refineries by PAD District and State as of January 1, 2020

PAD District and State	Number of Operable Refineries			Atmospheric Crude Oil Distillation Capacity					
				Barrels per Calendar Day			Barrels per Stream Day		
	Total	Operating	Idle ^a	Total	Operating	Idle ^b	Total	Operating	Idle ^b
PAD District I	8	7	1	1,224,000	889,000	335,000	1,291,100	941,100	350,000
Delaware.....	1	1	0	182,200	182,200	0	190,200	190,200	0
New Jersey.....	2	2	0	418,500	418,500	0	438,100	438,100	0
Pennsylvania.....	4	3	1	601,000	266,000	335,000	639,800	289,800	350,000
West Virginia.....	1	1	0	22,300	22,300	0	23,000	23,000	0
PAD District II	26	25	1	4,196,065	4,158,065	38,000	4,441,124	4,391,124	50,000
Illinois.....	4	4	0	1,026,865	1,026,865	0	1,097,200	1,097,200	0
Indiana.....	2	2	0	463,800	463,800	0	470,800	470,800	0
Kansas.....	3	3	0	403,800	403,800	0	415,930	415,930	0
Kentucky.....	1	1	0	291,000	291,000	0	306,000	306,000	0
Michigan.....	1	1	0	140,000	140,000	0	147,000	147,000	0
Minnesota.....	2	2	0	438,000	438,000	0	483,000	483,000	0
North Dakota.....	2	2	0	90,000	90,000	0	94,000	94,000	0
Ohio.....	4	4	0	601,800	601,800	0	633,000	633,000	0
Oklahoma.....	5	5	0	522,800	522,800	0	559,194	559,194	0
Tennessee.....	1	1	0	180,000	180,000	0	185,000	185,000	0
Wisconsin.....	1	0	1	38,000	0	38,000	50,000	0	50,000
PAD District III	58	57	1	9,983,235	9,948,235	35,000	10,592,395	10,554,395	38,000
Alabama.....	3	3	0	139,600	139,600	0	145,600	145,600	0
Arkansas.....	2	2	0	90,500	90,500	0	92,700	92,700	0
Louisiana.....	17	17	0	3,366,666	3,366,666	0	3,569,295	3,569,295	0
Mississippi.....	3	3	0	393,940	393,940	0	415,000	415,000	0
New Mexico.....	2	2	0	137,000	137,000	0	152,000	152,000	0
Texas.....	31	30	1	5,855,529	5,820,529	35,000	6,217,800	6,179,800	38,000
PAD District IV	16	16	0	698,214	688,614	9,600	750,200	740,200	10,000
Colorado.....	2	2	0	103,000	103,000	0	111,700	111,700	0
Montana.....	4	4	0	223,000	213,400	9,600	232,900	222,900	10,000
Utah.....	5	5	0	203,714	203,714	0	214,200	214,200	0
Wyoming.....	5	5	0	168,500	168,500	0	191,400	191,400	0
PAD District V	27	26	1	2,874,571	2,865,071	9,500	3,017,400	3,007,400	10,000
Alaska.....	5	5	0	164,200	164,200	0	178,500	178,500	0
California.....	15	14	1	1,909,171	1,899,671	9,500	2,009,400	1,999,400	10,000
Hawaii.....	1	1	0	147,500	147,500	0	152,000	152,000	0
Nevada.....	1	1	0	2,000	2,000	0	5,000	5,000	0
Washington.....	5	5	0	651,700	651,700	0	672,500	672,500	0
U.S. Total	135	131	4	18,976,085	18,548,985	427,100	20,092,219	19,634,219	458,000
Virgin Islands.....	1	0	1	176,400	0	176,400	180,000	0	180,000

Table 1. Number and Capacity of Operable Petroleum Refineries by PAD District and State as of January 1, 2020

PAD District and State	Downstream Charge Capacity (Barrels per Stream Day)							Fuels Solvent Deasphalting
	Vacuum Distillation	Thermal Cracking	Catalytic Cracking		Catalytic Hydro- Cracking	Catalytic Reforming	Hydrotreating/ Desulfurization	
			Fresh	Recycled				
PAD District I	554,400	81,500	497,500	5,000	45,300	268,600	1,063,000	22,000
Delaware	104,600	54,500	82,000	4,000	22,300	43,800	151,500	0
New Jersey	165,000	27,000	200,000	0	0	67,900	335,100	22,000
Pennsylvania	276,200	0	215,500	1,000	23,000	152,200	552,300	0
West Virginia	8,600	0	0	0	0	4,700	24,100	0
PAD District II	1,842,942	605,285	1,358,935	15,800	379,700	900,958	4,067,214	22,350
Illinois	476,400	212,850	324,300	0	101,200	250,100	953,310	0
Indiana	290,200	102,000	185,600	7,200	0	71,500	541,800	0
Kansas	161,000	74,550	104,000	500	43,000	84,000	406,400	0
Kentucky	134,000	0	104,000	0	0	58,000	274,500	13,000
Michigan	89,000	36,500	44,000	0	0	21,500	133,000	0
Minnesota	284,000	82,000	126,500	2,500	67,000	73,800	446,500	4,500
North Dakota	0	0	27,000	3,600	0	12,500	53,200	0
Ohio	164,500	59,000	208,300	0	109,800	170,800	519,900	0
Oklahoma	220,342	38,385	153,912	2,000	32,200	113,458	569,104	4,850
Tennessee	0	0	70,000	0	26,500	36,000	129,000	0
Wisconsin	23,500	0	11,323	0	0	9,300	40,500	0
PAD District III	4,876,495	1,681,207	3,080,090	21,500	1,433,000	1,935,870	9,553,650	265,400
Alabama	47,000	34,000	0	0	20,500	37,300	125,100	0
Arkansas	48,850	0	21,000	0	0	15,300	98,750	7,400
Louisiana	1,760,470	587,500	1,140,800	5,500	511,400	663,390	3,104,480	72,000
Mississippi	354,875	104,000	88,000	0	119,000	101,600	307,300	0
New Mexico	34,300	0	39,100	3,000	18,000	31,200	136,200	18,000
Texas	2,631,000	955,707	1,791,190	13,000	764,100	1,087,080	5,781,820	168,000
PAD District IV	276,600	87,970	220,860	1,990	60,200	128,100	603,950	6,000
Colorado	33,500	0	30,000	500	0	21,900	87,430	0
Montana	129,600	44,270	66,360	990	30,200	35,200	218,820	0
Utah	34,500	10,000	70,000	0	15,000	36,900	145,200	6,000
Wyoming	79,000	33,700	54,500	500	15,000	34,100	152,500	0
PAD District V	1,620,406	613,100	831,100	17,600	586,800	575,500	2,637,700	80,000
Alaska	26,000	0	0	0	13,000	13,500	24,500	0
California	1,201,556	515,300	683,700	14,600	488,800	408,000	2,080,800	56,000
Hawaii	71,000	11,000	0	0	20,000	13,500	13,000	0
Nevada	2,750	0	0	0	0	0	0	0
Washington	319,100	86,800	147,400	3,000	65,000	140,500	519,400	24,000
U.S. Total	9,170,843	3,069,062	5,988,485	61,890	2,505,000	3,809,028	17,925,514	395,750
Virgin Islands	90,000	62,000	0	0	0	46,000	282,000	0

^a Refineries where distillation units were completely idle but not permanently shutdown on January 1, 2020.

^b Includes capacity from refineries that are either completely or partially idle.

Source: Energy Information Administration (EIA), Form EIA-820, "Annual Refinery Report."

Table 2. Production Capacity of Operable Petroleum Refineries by PAD District and State as of January 1, 2020

(Barrels per Stream Day, Except Where Noted)

PAD District and State	Production Capacity							
	Alkylates	Aromatics	Asphalt and Road Oil	Isomers	Lubricants	Marketable Petroleum Coke	Hydrogen ^a (MMcfd)	Sulfur (short tons/day)
PAD District I	66,529	10,111	44,260	23,080	20,945	21,120	84	1,150
Delaware	11,729	5,191	0	6,000	0	13,620	40	596
New Jersey	30,800	0	21,000	4,000	12,000	7,500	31	320
Pennsylvania	24,000	4,920	22,560	13,080	2,945	0	10	233
West Virginia	0	0	700	0	6,000	0	3	1
PAD District II	288,436	112,500	291,014	167,000	9,900	186,419	635	8,783
Illinois	86,400	17,200	43,100	16,000	0	67,285	202	2,380
Indiana	34,200	16,800	33,700	31,100	0	30,000	0	1,913
Kansas	33,600	0	4,000	32,300	0	23,064	120	831
Kentucky	21,500	2,500	35,400	17,000	0	0	0	448
Michigan	7,500	0	32,000	0	0	12,320	0	460
Minnesota	20,500	0	59,600	33,500	0	28,400	209	1,339
North Dakota	4,800	0	0	0	0	0	2	17
Ohio	29,950	20,000	23,800	23,200	0	16,300	0	922
Oklahoma	35,586	21,000	43,414	13,900	9,900	9,050	72	324
Tennessee	12,700	29,000	0	0	0	0	30	116
Wisconsin	1,700	6,000	16,000	0	0	0	0	33
PAD District III	694,271	207,865	179,125	341,410	189,900	497,582	742	25,171
Alabama	0	0	17,500	5,350	0	7,120	40	228
Arkansas	5,000	0	21,300	7,500	6,000	0	13	157
Louisiana	244,900	49,900	63,000	125,220	66,000	173,152	118	7,071
Mississippi	21,500	15,600	16,125	0	48,000	35,500	242	1,224
New Mexico	11,800	0	7,000	0	0	0	38	227
Texas	411,071	142,365	54,200	203,340	69,900	281,810	291	16,264
PAD District IV	49,150	0	83,300	15,950	0	28,480	232	1,027
Colorado	0	0	13,200	0	0	0	22	116
Montana	17,150	0	44,300	6,750	0	15,480	148	489
Utah	21,500	0	1,800	9,200	0	2,500	0	93
Wyoming	10,500	0	24,000	0	0	10,500	62	329
PAD District V	250,762	1,500	53,350	225,000	39,800	174,973	1,433	5,786
Alaska	0	0	12,500	5,000	0	0	13	25
California	208,562	1,500	30,550	180,100	39,800	151,323	1,216	4,907
Hawaii	0	0	0	0	0	0	18	38
Nevada	0	0	1,600	0	0	0	0	0
Washington	42,200	0	8,700	39,900	0	23,650	186	816
U.S. Total	1,349,148	331,976	651,049	772,440	260,545	908,574	3,126	41,917
Virgin Islands	0	0	0	0	0	13,800	0	380

^a Includes hydrogen production capacity of hydrogen plants on refinery grounds.

MMcfd = Million cubic feet per day.

Source: Energy Information Administration (EIA), Form EIA-820, "Annual Refinery Report."

Directory of Operable Petroleum Refineries on Tables 3 and 4

Refiner	State(s)	Refiner	State(s)
Alon Refining Krotz Springs Inc.....		LA Lima Refining Company.....	OH
Alon USA Energy Inc.....		TX Limetree Bay Refining LLC.....	VI
American Refining Group Inc.....		PA Lion Oil Co.....	AR
BP Exploration Alaska Inc.....		AK Little America Refining Co.....	WY
BP Products North America Inc.....		IN Lunday Thagard Co.....	CA
BP West Coast Products LLC.....		WA Magellan Terminal Holdings LP.....	TX
BP-Husky Refining LLC.....		OH Marathon Petroleum Co LP.....	IL, KY, LA, MI, OH, TX
Big West Oil Co.....		UT Monroe Energy LLC.....	PA
Buckeye Texas Processing LLC.....		TX Motiva Enterprises LLC.....	TX
CHS McPherson Refinery Inc.....		KS PDV Midwest Refining LLC.....	IL
Calcasieu Refining Co.....		LA Par Hawaii Refining LLC.....	HI
Calumet Cotton Valley Refining LLC.....		LA Pasadena Refining Systems Inc.....	TX
Calumet Montana Refining LLC.....		MT Paulsboro Refining Co LLC.....	NJ
Calumet Princeton Refining LLC.....		LA Petro Star Inc.....	AK
Calumet Shreveport Refining LLC.....		LA Petromax Refining Co LLC.....	TX
Cenex Harvest States Coop.....		MT Philadelphia Energy Solutions.....	PA
Chalmette Refining LLC.....		LA Phillips 66 Company.....	CA, LA, MT, NJ, OK, TX, WA
Chevron USA Inc.....	CA, MS, UT	Placid Refining Co.....	LA
Citgo Petroleum Corp.....	LA	Premcor Refining Group Inc.....	TX
Citgo Refining & Chemical Inc.....	TX	San Joaquin Refining Co Inc.....	CA
Coffeyville Resources Rfg & Mktg.....	KS	Santa Maria Refining Company.....	CA
ConocoPhillips Alaska Inc.....	AK	Shell Chemical LP.....	AL
Countrymark Cooperative Inc.....	IN	Shell Oil Products US.....	CA, LA, WA
Cross Oil Refining & Marketing Inc.....	AR	Silver Eagle Refining.....	UT, WY
Dakota Prairie Refining LLC.....	ND	Sinclair Wyoming Refining Co.....	WY
Deer Park Refining LTD Partnership.....	TX	South Hampton Resources Inc.....	TX
Delaware City Refining Co LLC.....	DE	St Paul Park Refining Co LLC.....	MN
Delek Refining LTD.....	TX	Suncor Energy (USA) Inc.....	CO
Diamond Shamrock Refining Co LP.....	TX	Superior Refining Company LLC.....	WI
Equistar Chemicals LP.....	TX	Targa Channelview LLC.....	TX
Ergon Refining Inc.....	MS	Tesoro Alaska Company LLC.....	AK
Ergon West Virginia Inc.....	WV	Tesoro Refining & Marketing Co.....	CA, ND, UT, WA
Excel Paralubes.....	LA	The San Antonio Refinery LLC.....	TX
ExxonMobil Refining & Supply Co.....	IL, LA, MT, TX	Toledo Refining Co LLC.....	OH
Flint Hills Resources LP.....	MN, TX	Torrance Refining Co LLC.....	CA
Foreland Refining Corp.....	NV	Total Petrochemicals & Refining USA.....	TX
Goodway Refining LLC.....	AL	US Oil & Refining Co.....	WA
Hermes Consolidated LLC.....	WY	Ultramar Inc.....	CA
HollyFrontier Cheyenne Refining LLC.....	WY	United Refining Co.....	PA
HollyFrontier El Dorado Refining LLC.....	KS	Valero Ref Company Tennessee LLC.....	TN
HollyFrontier Navajo Refining LLC.....	NM	Valero Refining - Meraux LLC.....	LA
HollyFrontier Tulsa Refining LLC.....	OK	Valero Refining Co California.....	CA
HollyFrontier Woods Cross Refining LLC.....	UT	Valero Refining Co Oklahoma.....	OK
Houston Refining LP.....	TX	Valero Refining Co Texas LP.....	TX
Hunt Refining Co.....	AL	Valero Refining New Orleans LLC.....	LA
Hunt Southland Refining Co.....	MS	WRB Refining LP.....	IL, TX
Kern Oil & Refining Co.....	CA	Western Refining Company LP.....	TX
Kinder Morgan Crude & Condensate.....	TX	Western Refining Southwest Inc.....	NM
Lazarus Energy LLC.....	TX	Wynnewood Refining Co.....	OK

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2020

(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Atmospheric Crude Oil Distillation Capacity				Downstream Charge Capacity				
	Barrels per Calendar Day		Barrels per Stream Day		Vacuum Distillation	Thermal Cracking			
	Operating	Idle	Operating	Idle		Delayed Coking	Fluid Coking	Visbreaking	Other/Gas Oil
Alabama	139,600	0	145,600	0	47,000	34,000	0	0	0
Goodway Refining LLC									
Atmore	4,100	0	5,000	0	0	0	0	0	0
Hunt Refining Co									
Tuscaloosa	48,000	0	50,000	0	18,000	34,000	0	0	0
Shell Chemical LP									
Saraland	87,500	0	90,600	0	29,000	0	0	0	0
Alaska	164,200	0	178,500	0	26,000	0	0	0	0
BP Exploration Alaska Inc									
Prudhoe Bay	6,500	0	8,000	0	0	0	0	0	0
ConocoPhillips Alaska Inc									
Prudhoe Bay	15,000	0	16,000	0	0	0	0	0	0
Petro Star Inc									
North Pole	19,700	0	22,500	0	0	0	0	0	0
Valdez	55,000	0	60,000	0	0	0	0	0	0
Tesoro Alaska Company LLC									
Kenai	68,000	0	72,000	0	26,000	0	0	0	0
Arkansas	90,500	0	92,700	0	48,850	0	0	0	0
Cross Oil Refining & Marketing Inc									
Smackover	7,500	0	7,700	0	3,850	0	0	0	0
Lion Oil Co									
El Dorado	83,000	0	85,000	0	45,000	0	0	0	0
California	1,899,671	9,500	1,999,400	10,000	1,201,556	458,300	52,000	5,000	0
Chevron USA Inc									
El Segundo	269,000	0	290,500	0	169,100	76,700	0	0	0
Richmond	245,271	0	257,200	0	123,456	0	0	0	0
Kern Oil & Refining Co									
Bakersfield	26,000	0	27,000	0	0	0	0	0	0
Lunday Thagard Co									
South Gate	8,500	0	10,000	0	5,000	0	0	0	0
Phillips 66 Company									
Rodeo	120,200	0	128,000	0	93,200	51,000	0	0	0
Wilmington	139,000	0	147,000	0	82,000	53,200	0	0	0
San Joaquin Refining Co Inc									
Bakersfield	15,000	0	25,000	0	14,300	0	0	5,000	0
Santa Maria Refining Company									
Santa Maria	0	9,500	0	10,000	10,000	0	0	0	0
Shell Oil Products US									
Martinez	156,400	0	158,000	0	102,000	25,500	22,500	0	0
Tesoro Refining & Marketing Co									
Carson	363,000	0	382,000	0	205,000	109,100	0	0	0
Martinez	161,000	0	166,000	0	158,700	52,000	0	0	0

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2020

(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Downstream Charge Capacity							
	Catalytic Cracking		Catalytic Hydrocracking			Catalytic Reforming		Fuels Solvent Deasphalting
	Fresh	Recycled	Distillate	Gas Oil	Residual	Low Pressure	High Pressure	
Alabama	0	0	0	20,500	0	15,300	22,000	0
Goodway Refining LLC								
Atmore	0	0	0	0	0	0	0	0
Hunt Refining Co								
Tuscaloosa	0	0	0	20,500	0	15,300	0	0
Shell Chemical LP								
Saraland	0	0	0	0	0	0	22,000	0
Alaska	0	0	0	13,000	0	13,500	0	0
BP Exploration Alaska Inc								
Prudhoe Bay	0	0	0	0	0	0	0	0
ConocoPhillips Alaska Inc								
Prudhoe Bay	0	0	0	0	0	0	0	0
Petro Star Inc								
North Pole	0	0	0	0	0	0	0	0
Valdez	0	0	0	0	0	0	0	0
Tesoro Alaska Company LLC								
Kenai	0	0	0	13,000	0	13,500	0	0
Arkansas	21,000	0	0	0	0	15,300	0	7,400
Cross Oil Refining & Marketing Inc								
Smackover	0	0	0	0	0	0	0	0
Lion Oil Co								
El Dorado	21,000	0	0	0	0	15,300	0	7,400
California	683,700	14,600	224,700	264,100	0	197,800	210,200	56,000
Chevron USA Inc								
El Segundo	73,800	0	0	55,000	0	49,000	0	0
Richmond	90,000	0	0	103,400	0	71,300	0	56,000
Kern Oil & Refining Co								
Bakersfield	0	0	0	0	0	2,500	3,300	0
Lunday Thagard Co								
South Gate	0	0	0	0	0	0	0	0
Phillips 66 Company								
Rodeo	0	0	0	69,000	0	0	34,000	0
Wilmington	51,600	0	27,500	0	0	0	36,200	0
San Joaquin Refining Co Inc								
Bakersfield	0	0	0	0	0	0	0	0
Santa Maria Refining Company								
Santa Maria	0	0	0	0	0	0	0	0
Shell Oil Products US								
Martinez	72,000	0	42,900	0	0	31,000	0	0
Tesoro Refining & Marketing Co								
Carson	102,500	0	92,000	0	0	0	79,500	0
Martinez	72,200	1,000	0	36,700	0	26,000	0	0

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2020
(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Downstream Charge Capacity							
	Desulfurization (incl. Catalytic Hydrotreating)							
	Naphtha/ Reformer Feed	Gasoline	Kerosene/ Jet Fuel	Diesel Fuel	Other Distillate	Residual	Heavy Gas Oil	Other
Alabama	40,100	0	20,500	30,000	24,000	0	10,500	0
Goodway Refining LLC								
Atmore	0	0	0	0	0	0	0	0
Hunt Refining Co								
Tuscaloosa	12,100	0	2,500	0	24,000	0	10,500	0
Shell Chemical LP								
Saraland	28,000	0	18,000	30,000	0	0	0	0
Alaska	13,000	0	0	11,500	0	0	0	0
BP Exploration Alaska Inc								
Prudhoe Bay	0	0	0	0	0	0	0	0
ConocoPhillips Alaska Inc								
Prudhoe Bay	0	0	0	0	0	0	0	0
Petro Star Inc								
North Pole	0	0	0	0	0	0	0	0
Valdez	0	0	0	0	0	0	0	0
Tesoro Alaska Company LLC								
Kenai	13,000	0	0	11,500	0	0	0	0
Arkansas	20,000	8,750	0	35,000	0	0	21,000	14,000
Cross Oil Refining & Marketing Inc								
Smackover	0	0	0	0	0	0	0	6,000
Lion Oil Co								
El Dorado	20,000	8,750	0	35,000	0	0	21,000	8,000
California	424,200	248,300	203,800	326,100	100,100	0	708,100	70,200
Chevron USA Inc								
El Segundo	62,500	0	41,500	51,500	14,000	0	74,000	0
Richmond	57,600	64,800	96,000	64,800	0	0	65,000	34,000
Kern Oil & Refining Co								
Bakersfield	5,000	0	0	0	9,000	0	0	0
Lunday Thagard Co								
South Gate	0	0	0	0	0	0	0	0
Phillips 66 Company								
Rodeo	27,500	0	0	35,000	0	0	0	0
Wilmington	50,800	0	12,900	32,000	0	0	55,000	0
San Joaquin Refining Co Inc								
Bakersfield	0	0	0	0	3,600	0	1,800	0
Santa Maria Refining Company								
Santa Maria	0	0	0	0	0	0	0	0
Shell Oil Products US								
Martinez	27,500	92,500	0	0	49,000	0	84,500	14,500
Tesoro Refining & Marketing Co								
Carson	79,000	17,000	38,000	24,000	0	0	144,000	0
Martinez	27,000	30,800	0	39,000	19,500	0	69,500	0

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2020
(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Atmospheric Crude Oil Distillation Capacity				Downstream Charge Capacity				
	Barrels per Calendar Day		Barrels per Stream Day		Vacuum Distillation	Thermal Cracking			
	Operating	Idle	Operating	Idle		Delayed Coking	Fluid Coking	Visbreaking	Other/Gas Oil
California	1,899,671	9,500	1,999,400	10,000	1,201,556	458,300	52,000	5,000	0
Torrance Refining Co LLC									
Torrance	160,000	0	166,200	0	102,300	62,000	0	0	0
Ultramar Inc									
Wilmington	85,000	0	87,000	0	46,000	28,800	0	0	0
Valero Refining Co California									
Benicia	145,000	0	149,000	0	85,500	0	29,500	0	0
Wilmington	6,300	0	6,500	0	5,000	0	0	0	0
Colorado	103,000	0	111,700	0	33,500	0	0	0	0
Suncor Energy (USA) Inc									
Commerce City East	36,000	0	38,700	0	8,500	0	0	0	0
Commerce City West	67,000	0	73,000	0	25,000	0	0	0	0
Delaware	182,200	0	190,200	0	104,600	0	54,500	0	0
Delaware City Refining Co LLC									
Delaware City	182,200	0	190,200	0	104,600	0	54,500	0	0
Hawaii	147,500	0	152,000	0	71,000	0	0	11,000	0
Par Hawaii Refining LLC									
Kapolei	147,500	0	152,000	0	71,000	0	0	11,000	0
Illinois	1,026,865	0	1,097,200	0	476,400	212,850	0	0	0
ExxonMobil Refining & Supply Co									
Joliet	238,600	0	275,000	0	126,700	57,500	0	0	0
Marathon Petroleum Co LP									
Robinson	253,000	0	266,000	0	76,000	30,500	0	0	0
PDV Midwest Refining LLC									
Lemont	179,265	0	188,700	0	77,200	41,150	0	0	0
WRB Refining LP									
Wood River	356,000	0	367,500	0	196,500	83,700	0	0	0
Indiana	463,800	0	470,800	0	290,200	102,000	0	0	0
BP Products North America Inc									
Whiting	435,000	0	440,000	0	276,200	102,000	0	0	0
Countrymark Cooperative Inc									
Mount Vernon	28,800	0	30,800	0	14,000	0	0	0	0
Kansas	403,800	0	415,930	0	161,000	74,550	0	0	0
CHS McPherson Refinery Inc									
McPherson	109,800	0	114,930	0	50,000	30,550	0	0	0
Coffeyville Resources Rfg & Mktg									
Coffeyville	132,000	0	136,000	0	46,000	25,000	0	0	0
HollyFrontier El Dorado Refining LLC									
El Dorado	162,000	0	165,000	0	65,000	19,000	0	0	0
Kentucky	291,000	0	306,000	0	134,000	0	0	0	0
Marathon Petroleum Co LP									
Catlettsburg	291,000	0	306,000	0	134,000	0	0	0	0

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2020

(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Downstream Charge Capacity							
	Catalytic Cracking		Catalytic Hydrocracking			Catalytic Reforming		Fuels Solvent Deasphalting
	Fresh	Recycled	Distillate	Gas Oil	Residual	Low Pressure	High Pressure	
California	683,700	14,600	224,700	264,100	0	197,800	210,200	56,000
Torrance Refining Co LLC								
Torrance	90,000	13,600	28,300	0	0	0	20,000	0
Ultramar Inc								
Wilmington	56,300	0	0	0	0	18,000	0	0
Valero Refining Co California								
Benicia	75,300	0	34,000	0	0	0	37,200	0
Wilmington	0	0	0	0	0	0	0	0
Colorado	30,000	500	0	0	0	21,900	0	0
Suncor Energy (USA) Inc								
Commerce City East	9,000	500	0	0	0	11,000	0	0
Commerce City West	21,000	0	0	0	0	10,900	0	0
Delaware	82,000	4,000	0	22,300	0	43,800	0	0
Delaware City Refining Co LLC								
Delaware City	82,000	4,000	0	22,300	0	43,800	0	0
Hawaii	0	0	2,000	18,000	0	13,500	0	0
Par Hawaii Refining LLC								
Kapolei	0	0	2,000	18,000	0	13,500	0	0
Illinois	324,300	0	0	101,200	0	214,300	35,800	0
ExxonMobil Refining & Supply Co								
Joliet	99,300	0	0	0	0	52,600	0	0
Marathon Petroleum Co LP								
Robinson	54,500	0	0	44,000	0	82,000	0	0
PDV Midwest Refining LLC								
Lemont	69,500	0	0	0	0	0	35,800	0
WRB Refining LP								
Wood River	101,000	0	0	57,200	0	79,700	0	0
Indiana	185,600	7,200	0	0	0	6,500	65,000	0
BP Products North America Inc								
Whiting	177,000	7,000	0	0	0	0	65,000	0
Countrymark Cooperative Inc								
Mount Vernon	8,600	200	0	0	0	6,500	0	0
Kansas	104,000	500	0	43,000	0	60,500	23,500	0
CHS McPherson Refinery Inc								
McPherson	24,000	500	0	43,000	0	27,000	0	0
Coffeyville Resources Rfg & Mktg								
Coffeyville	36,000	0	0	0	0	26,000	0	0
HollyFrontier El Dorado Refining LLC								
El Dorado	44,000	0	0	0	0	7,500	23,500	0
Kentucky	104,000	0	0	0	0	24,500	33,500	13,000
Marathon Petroleum Co LP								
Catlettsburg	104,000	0	0	0	0	24,500	33,500	13,000

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2020
(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Downstream Charge Capacity							
	Desulfurization (incl. Catalytic Hydrotreating)							
	Naphtha/ Reformer Feed	Gasoline	Kerosene/ Jet Fuel	Diesel Fuel	Other Distillate	Residual	Heavy Gas Oil	Other
California	424,200	248,300	203,800	326,100	100,100	0	708,100	70,200
Torrance Refining Co LLC								
Torrance	25,300	0	0	19,800	0	0	108,300	0
Ultramar Inc								
Wilmington	32,000	0	0	45,000	0	0	67,000	0
Valero Refining Co California								
Benicia	30,000	43,200	15,400	15,000	5,000	0	39,000	21,700
Wilmington	0	0	0	0	0	0	0	0
Colorado	22,000	0	12,100	23,330	0	0	30,000	0
Suncor Energy (USA) Inc								
Commerce City East	11,000	0	0	0	0	0	0	0
Commerce City West	11,000	0	12,100	23,330	0	0	30,000	0
Delaware	50,000	33,000	16,500	52,000	0	0	0	0
Delaware City Refining Co LLC								
Delaware City	50,000	33,000	16,500	52,000	0	0	0	0
Hawaii	13,000	0	0	0	0	0	0	0
Par Hawaii Refining LLC								
Kapolei	13,000	0	0	0	0	0	0	0
Illinois	435,600	115,500	66,950	318,960	0	0	0	16,300
ExxonMobil Refining & Supply Co								
Joliet	169,500	0	0	78,000	0	0	0	0
Marathon Petroleum Co LP								
Robinson	70,500	41,500	0	83,500	0	0	0	0
PDV Midwest Refining LLC								
Lemont	111,300	0	13,700	97,160	0	0	0	6,800
WRB Refining LP								
Wood River	84,300	74,000	53,250	60,300	0	0	0	9,500
Indiana	78,000	91,500	46,000	134,300	0	0	192,000	0
BP Products North America Inc								
Whiting	69,000	85,000	46,000	120,800	0	0	192,000	0
Countrymark Cooperative Inc								
Mount Vernon	9,000	6,500	0	13,500	0	0	0	0
Kansas	128,400	49,000	21,000	131,000	27,000	0	50,000	0
CHS McPherson Refinery Inc								
McPherson	42,400	0	0	47,000	0	0	0	0
Coffeyville Resources Rfg & Mktg								
Coffeyville	36,000	22,000	9,000	30,000	27,000	0	0	0
HollyFrontier El Dorado Refining LLC								
El Dorado	50,000	27,000	12,000	54,000	0	0	50,000	0
Kentucky	59,000	0	31,000	77,500	0	0	107,000	0
Marathon Petroleum Co LP								
Catlettsburg	59,000	0	31,000	77,500	0	0	107,000	0

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2020

(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Atmospheric Crude Oil Distillation Capacity				Downstream Charge Capacity				
	Barrels per Calendar Day		Barrels per Stream Day		Vacuum Distillation	Thermal Cracking			Other/Gas Oil
	Operating	Idle	Operating	Idle		Delayed Coking	Fluid Coking	Visbreaking	
Louisiana	3,366,666	0	3,569,295	0	1,760,470	575,700	0	0	11,800
Alon Refining Krotz Springs Inc Krotz Springs	80,000	0	83,000	0	36,200	0	0	0	0
Calcasieu Refining Co Lake Charles	135,500	0	137,000	0	36,000	0	0	0	0
Calumet Cotton Valley Refining LLC Cotton Valley	13,020	0	14,000	0	0	0	0	0	0
Calumet Princeton Refining LLC Princeton	8,300	0	8,655	0	7,000	0	0	0	0
Calumet Shreveport Refining LLC Shreveport	57,000	0	60,000	0	28,000	0	0	0	0
Chalmette Refining LLC Chalmette	190,000	0	197,000	0	169,000	42,000	0	0	0
Citgo Petroleum Corp Lake Charles	418,000	0	440,000	0	230,000	110,000	0	0	0
Excel Paralubes Westlake	0	0	0	0	0	0	0	0	0
ExxonMobil Refining & Supply Co Baton Rouge	517,700	0	539,000	0	253,000	123,500	0	0	0
Marathon Petroleum Co LP Garyville	578,000	0	608,000	0	297,500	94,500	0	0	0
Phillips 66 Company Belle Chasse	255,600	0	269,140	0	104,170	26,000	0	0	0
Westlake	260,000	0	273,000	0	125,000	65,200	0	0	11,800
Placid Refining Co Port Allen	75,000	0	82,500	0	27,000	0	0	0	0
Shell Oil Products US Convent	211,146	0	260,000	0	116,300	0	0	0	0
Norco	227,400	0	250,000	0	91,300	28,500	0	0	0
Valero Refining - Meraux LLC Meraux	125,000	0	128,000	0	60,000	0	0	0	0
Valero Refining New Orleans LLC Norco	215,000	0	220,000	0	180,000	86,000	0	0	0
Michigan	140,000	0	147,000	0	89,000	36,500	0	0	0
Marathon Petroleum Co LP Detroit	140,000	0	147,000	0	89,000	36,500	0	0	0
Minnesota	438,000	0	483,000	0	284,000	82,000	0	0	0
Flint Hills Resources LP Saint Paul	335,000	0	375,000	0	234,000	82,000	0	0	0
St Paul Park Refining Co LLC Saint Paul	103,000	0	108,000	0	50,000	0	0	0	0
Mississippi	393,940	0	415,000	0	354,875	104,000	0	0	0
Chevron USA Inc Pascagoula	356,440	0	375,200	0	330,000	104,000	0	0	0
Ergon Refining Inc Vicksburg	26,500	0	27,300	0	18,000	0	0	0	0
Hunt Southland Refining Co Sandersville	11,000	0	12,500	0	6,875	0	0	0	0

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2020

(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Downstream Charge Capacity							
	Catalytic Cracking		Catalytic Hydrocracking			Catalytic Reforming		Fuels Solvent Deasphalting
	Fresh	Recycled	Distillate	Gas Oil	Residual	Low Pressure	High Pressure	
Louisiana	1,140,800	5,500	55,000	401,900	54,500	521,190	142,200	72,000
Alon Refining Krotz Springs Inc Krotz Springs	34,000	0	0	0	0	0	13,000	0
Calcasieu Refining Co Lake Charles	0	0	0	0	0	0	0	0
Calumet Cotton Valley Refining LLC Cotton Valley	0	0	0	0	0	0	0	0
Calumet Princeton Refining LLC Princeton	0	0	0	0	0	0	0	0
Calumet Shreveport Refining LLC Shreveport	0	0	0	0	0	12,000	0	0
Chalmette Refining LLC Chalmette	75,600	0	0	0	0	22,700	30,000	0
Citgo Petroleum Corp Lake Charles	148,000	3,000	0	51,200	0	65,000	53,200	0
Excel Paralubes Westlake	0	0	0	43,000	0	0	0	0
ExxonMobil Refining & Supply Co Baton Rouge	244,500	0	27,000	0	0	80,000	0	0
Marathon Petroleum Co LP Garyville	146,000	0	0	130,000	0	136,500	0	38,000
Phillips 66 Company Belle Chasse	105,000	2,000	0	0	0	48,490	0	0
Westlake	51,600	0	0	0	0	48,000	0	0
Placid Refining Co Port Allen	25,000	500	0	0	0	11,500	0	12,000
Shell Oil Products US Convent	92,300	0	0	0	54,500	0	46,000	0
Norco	118,800	0	0	44,000	0	40,000	0	0
Valero Refining - Meraux LLC Meraux	0	0	0	48,700	0	32,000	0	22,000
Valero Refining New Orleans LLC Norco	100,000	0	28,000	85,000	0	25,000	0	0
Michigan	44,000	0	0	0	0	21,500	0	0
Marathon Petroleum Co LP Detroit	44,000	0	0	0	0	21,500	0	0
Minnesota	126,500	2,500	67,000	0	0	37,000	36,800	4,500
Flint Hills Resources LP Saint Paul	96,000	0	67,000	0	0	37,000	13,800	0
St Paul Park Refining Co LLC Saint Paul	30,500	2,500	0	0	0	0	23,000	4,500
Mississippi	88,000	0	0	119,000	0	61,600	40,000	0
Chevron USA Inc Pascagoula	88,000	0	0	119,000	0	61,600	40,000	0
Ergon Refining Inc Vicksburg	0	0	0	0	0	0	0	0
Hunt Southland Refining Co Sandersville	0	0	0	0	0	0	0	0

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2020
(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Downstream Charge Capacity							
	Desulfurization (incl. Catalytic Hydrotreating)							
	Naphtha/ Reformer Feed	Gasoline	Kerosene/ Jet Fuel	Diesel Fuel	Other Distillate	Residual	Heavy Gas Oil	Other
Louisiana	690,740	875,740	239,600	953,700	0	13,500	306,200	25,000
Alon Refining Krotz Springs Inc Krotz Springs	14,000	18,000	0	0	0	0	0	0
Calcasieu Refining Co Lake Charles	0	0	0	0	0	0	0	0
Calumet Cotton Valley Refining LLC Cotton Valley	6,500	0	0	0	0	0	0	0
Calumet Princeton Refining LLC Princeton	0	0	0	0	0	0	0	0
Calumet Shreveport Refining LLC Shreveport	16,000	0	0	14,000	0	0	21,100	1,200
Chalmette Refining LLC Chalmette	42,000	46,000	0	35,000	0	0	65,600	0
Citgo Petroleum Corp Lake Charles	131,200	85,400	70,100	100,000	0	0	0	23,800
Excel Paralubes Westlake	0	0	0	0	0	0	0	0
ExxonMobil Refining & Supply Co Baton Rouge	79,000	259,000	0	211,100	0	0	0	0
Marathon Petroleum Co LP Garyville	116,000	116,500	84,500	179,500	0	0	106,000	0
Phillips 66 Company Belle Chasse	50,540	72,340	0	74,800	0	0	0	0
Westlake	50,000	63,500	28,000	62,000	0	13,500	50,000	0
Placid Refining Co Port Allen	12,000	20,000	0	25,000	0	0	0	0
Shell Oil Products US Convent	50,000	58,000	42,000	76,300	0	0	39,500	0
Norco	38,500	77,000	0	70,000	0	0	0	0
Valero Refining - Meraux LLC Meraux	40,000	0	15,000	40,000	0	0	0	0
Valero Refining New Orleans LLC Norco	45,000	60,000	0	66,000	0	0	24,000	0
Michigan	35,000	0	7,000	46,500	0	0	44,500	0
Marathon Petroleum Co LP Detroit	35,000	0	7,000	46,500	0	0	44,500	0
Minnesota	89,300	51,200	53,500	94,000	0	0	158,500	0
Flint Hills Resources LP Saint Paul	51,300	51,200	43,500	62,000	0	0	128,000	0
St Paul Park Refining Co LLC Saint Paul	38,000	0	10,000	32,000	0	0	30,500	0
Mississippi	60,800	0	34,000	38,000	0	0	104,000	70,500
Chevron USA Inc Pascagoula	60,800	0	34,000	35,500	0	0	104,000	50,000
Ergon Refining Inc Vicksburg	0	0	0	2,500	0	0	0	20,500
Hunt Southland Refining Co Sandersville	0	0	0	0	0	0	0	0

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2020

(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Atmospheric Crude Oil Distillation Capacity				Downstream Charge Capacity				
	Barrels per Calendar Day		Barrels per Stream Day		Vacuum Distillation	Thermal Cracking			Other/Gas Oil
	Operating	Idle	Operating	Idle		Delayed Coking	Fluid Coking	Visbreaking	
Montana	213,400	9,600	222,900	10,000	129,600	34,270	10,000	0	0
Calumet Montana Refining LLC									
Great Falls	25,000	9,600	27,000	10,000	20,000	0	0	0	0
Cenex Harvest States Coop									
Laurel	62,000	0	63,500	0	32,200	16,000	0	0	0
ExxonMobil Refining & Supply Co									
Billings	61,500	0	62,900	0	32,300	0	10,000	0	0
Phillips 66 Company									
Billings	64,900	0	69,500	0	45,100	18,270	0	0	0
Nevada	2,000	0	5,000	0	2,750	0	0	0	0
Foreland Refining Corp									
Ely	2,000	0	5,000	0	2,750	0	0	0	0
New Jersey	418,500	0	438,100	0	165,000	27,000	0	0	0
Paulsboro Refining Co LLC									
Paulsboro	160,000	0	166,000	0	90,000	27,000	0	0	0
Phillips 66 Company									
Linden	258,500	0	272,100	0	75,000	0	0	0	0
New Mexico	137,000	0	152,000	0	34,300	0	0	0	0
HollyFrontier Navajo Refining LLC									
Artesia	110,000	0	124,000	0	34,300	0	0	0	0
Western Refining Southwest Inc									
Gallup	27,000	0	28,000	0	0	0	0	0	0
North Dakota	90,000	0	94,000	0	0	0	0	0	0
Dakota Prairie Refining LLC									
Dickinson	19,000	0	20,000	0	0	0	0	0	0
Tesoro Refining & Marketing Co									
Mandan	71,000	0	74,000	0	0	0	0	0	0
Ohio	601,800	0	633,000	0	164,500	59,000	0	0	0
BP-Husky Refining LLC									
Toledo	155,000	0	160,000	0	72,500	36,000	0	0	0
Lima Refining Company									
Lima	179,000	0	185,000	0	57,000	23,000	0	0	0
Marathon Petroleum Co LP									
Canton	95,000	0	100,000	0	35,000	0	0	0	0
Toledo Refining Co LLC									
Toledo	172,800	0	188,000	0	0	0	0	0	0
Oklahoma	522,800	0	559,194	0	220,342	38,385	0	0	0
HollyFrontier Tulsa Refining LLC									
Tulsa East	70,300	0	75,500	0	27,000	0	0	0	0
Tulsa West	85,000	0	91,020	0	32,000	11,000	0	0	0
Phillips 66 Company									
Ponca City	207,000	0	226,674	0	89,042	27,385	0	0	0
Valero Refining Co Oklahoma									
Ardmore	86,000	0	88,000	0	32,000	0	0	0	0
Wynnewood Refining Co									
Wynnewood	74,500	0	78,000	0	40,300	0	0	0	0

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2020

(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Downstream Charge Capacity							
	Catalytic Cracking		Catalytic Hydrocracking			Catalytic Reforming		Fuels Solvent Deasphalting
	Fresh	Recycled	Distillate	Gas Oil	Residual	Low Pressure	High Pressure	
Montana	66,360	990	6,200	24,000	0	12,500	22,700	0
Calumet Montana Refining LLC								
Great Falls	3,000	0	0	24,000	0	0	1,000	0
Cenex Harvest States Coop								
Laurel	16,500	0	0	0	0	12,500	0	0
ExxonMobil Refining & Supply Co								
Billings	23,660	0	6,200	0	0	0	12,500	0
Phillips 66 Company								
Billings	23,200	990	0	0	0	0	9,200	0
Nevada	0	0	0	0	0	0	0	0
Foreland Refining Corp								
Ely	0	0	0	0	0	0	0	0
New Jersey	200,000	0	0	0	0	67,900	0	22,000
Paulsboro Refining Co LLC								
Paulsboro	55,000	0	0	0	0	32,000	0	0
Phillips 66 Company								
Linden	145,000	0	0	0	0	35,900	0	22,000
New Mexico	39,100	3,000	0	18,000	0	24,000	7,200	18,000
HollyFrontier Navajo Refining LLC								
Artesia	30,000	0	0	18,000	0	24,000	0	18,000
Western Refining Southwest Inc								
Gallup	9,100	3,000	0	0	0	0	7,200	0
North Dakota	27,000	3,600	0	0	0	0	12,500	0
Dakota Prairie Refining LLC								
Dickinson	0	0	0	0	0	0	0	0
Tesoro Refining & Marketing Co								
Mandan	27,000	3,600	0	0	0	0	12,500	0
Ohio	208,300	0	52,000	57,800	0	64,000	106,800	0
BP-Husky Refining LLC								
Toledo	55,000	0	0	31,800	0	42,000	0	0
Lima Refining Company								
Lima	45,300	0	0	26,000	0	0	55,000	0
Marathon Petroleum Co LP								
Canton	26,000	0	0	0	0	22,000	0	0
Toledo Refining Co LLC								
Toledo	82,000	0	52,000	0	0	0	51,800	0
Oklahoma	153,912	2,000	14,000	18,200	0	64,200	49,258	4,850
HollyFrontier Tulsa Refining LLC								
Tulsa East	25,000	2,000	0	0	0	25,000	0	0
Tulsa West	0	0	0	0	0	0	0	0
Phillips 66 Company								
Ponca City	76,912	0	0	0	0	0	49,258	0
Valero Refining Co Oklahoma								
Ardmore	30,000	0	14,000	0	0	20,500	0	0
Wynnewood Refining Co								
Wynnewood	22,000	0	0	18,200	0	18,700	0	4,850

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2020
(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Downstream Charge Capacity							
	Desulfurization (incl. Catalytic Hydrotreating)							
	Naphtha/ Reformer Feed	Gasoline	Kerosene/ Jet Fuel	Diesel Fuel	Other Distillate	Residual	Heavy Gas Oil	Other
Montana	45,900	27,800	19,400	46,750	25,000	0	46,070	7,900
Calumet Montana Refining LLC								
Great Falls	2,750	0	6,000	6,000	0	0	0	0
Cenex Harvest States Coop								
Laurel	17,000	0	0	0	25,000	0	20,000	0
ExxonMobil Refining & Supply Co								
Billings	13,900	20,500	7,600	11,000	0	0	0	7,900
Phillips 66 Company								
Billings	12,250	7,300	5,800	29,750	0	0	26,070	0
Nevada	0	0	0	0	0	0	0	0
Foreland Refining Corp								
Ely	0	0	0	0	0	0	0	0
New Jersey	97,500	37,000	29,100	154,000	17,500	0	0	0
Paulsboro Refining Co LLC								
Paulsboro	32,000	37,000	29,100	46,000	0	0	0	0
Phillips 66 Company								
Linden	65,500	0	0	108,000	17,500	0	0	0
New Mexico	50,000	0	19,900	48,300	0	0	18,000	0
HollyFrontier Navajo Refining LLC								
Artesia	42,000	0	15,000	43,000	0	0	18,000	0
Western Refining Southwest Inc								
Gallup	8,000	0	4,900	5,300	0	0	0	0
North Dakota	13,000	0	6,900	33,300	0	0	0	0
Dakota Prairie Refining LLC								
Dickinson	0	0	0	9,500	0	0	0	0
Tesoro Refining & Marketing Co								
Mandan	13,000	0	6,900	23,800	0	0	0	0
Ohio	185,400	107,000	69,500	82,500	0	0	75,500	0
BP-Husky Refining LLC								
Toledo	42,000	0	0	22,500	0	0	53,000	0
Lima Refining Company								
Lima	63,000	35,000	24,000	36,000	0	0	0	0
Marathon Petroleum Co LP								
Canton	34,500	0	13,500	24,000	0	0	22,500	0
Toledo Refining Co LLC								
Toledo	45,900	72,000	32,000	0	0	0	0	0
Oklahoma	158,411	119,487	18,678	139,600	37,590	0	58,338	37,000
HollyFrontier Tulsa Refining LLC								
Tulsa East	25,000	29,000	0	45,000	0	0	0	0
Tulsa West	28,000	0	0	0	0	0	0	21,600
Phillips 66 Company								
Ponca City	51,511	58,987	18,678	34,000	37,590	0	23,888	15,400
Valero Refining Co Oklahoma								
Ardmore	27,000	16,500	0	35,000	0	0	34,450	0
Wynnewood Refining Co								
Wynnewood	26,900	15,000	0	25,600	0	0	0	0

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2020
(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Atmospheric Crude Oil Distillation Capacity				Downstream Charge Capacity				
	Barrels per Calendar Day		Barrels per Stream Day		Vacuum Distillation	Thermal Cracking			
	Operating	Idle	Operating	Idle		Delayed Coking	Fluid Coking	Visbreaking	Other/Gas Oil
Pennsylvania	266,000	335,000	289,800	350,000	276,200	0	0	0	0
American Refining Group Inc Bradford	11,000	0	11,800	0	0	0	0	0	0
Monroe Energy LLC Trainer	190,000	0	208,000	0	73,000	0	0	0	0
Philadelphia Energy Solutions Philadelphia	0	335,000	0	350,000	163,200	0	0	0	0
United Refining Co Warren	65,000	0	70,000	0	40,000	0	0	0	0
Tennessee	180,000	0	185,000	0	0	0	0	0	0
Valero Ref Company Tennessee LLC Memphis	180,000	0	185,000	0	0	0	0	0	0
Texas	5,820,529	35,000	6,179,800	38,000	2,631,000	913,707	42,000	0	0
Alon USA Energy Inc Big Spring	73,000	0	74,000	0	28,000	0	0	0	0
Buckeye Texas Processing LLC Corpus Christi	60,000	0	65,000	0	0	0	0	0	0
Citgo Refining & Chemical Inc Corpus Christi	167,500	0	174,000	0	85,300	45,127	0	0	0
Deer Park Refining LTD Partnership Deer Park	318,000	0	340,000	0	180,000	92,000	0	0	0
Delek Refining LTD Tyler	75,000	0	76,000	0	28,000	7,500	0	0	0
Diamond Shamrock Refining Co LP Sunray	195,000	0	200,000	0	50,000	0	0	0	0
Three Rivers	89,000	0	91,000	0	33,500	0	0	0	0
Equistar Chemicals LP Channelview	0	0	0	0	0	0	0	0	0
ExxonMobil Refining & Supply Co Baytown	560,500	0	584,000	0	297,000	54,000	42,000	0	0
Beaumont	369,024	0	384,400	0	148,800	46,500	0	0	0
Flint Hills Resources LP Corpus Christi East	73,500	0	75,000	0	0	0	0	0	0
Corpus Christi West	265,000	0	275,000	0	87,500	14,500	0	0	0
Houston Refining LP Houston	263,776	0	289,000	0	196,500	100,500	0	0	0
Kinder Morgan Crude & Condensate Galena Park	84,000	0	100,000	0	0	0	0	0	0
Lazarus Energy LLC Nixon	13,000	0	13,600	0	0	0	0	0	0
Magellan Terminal Holdings LP Corpus Christi	42,500	0	50,000	0	0	0	0	0	0
Marathon Petroleum Co LP Galveston Bay	585,000	0	616,000	0	259,500	33,000	0	0	0
Motiva Enterprises LLC Port Arthur	607,000	0	639,700	0	331,800	178,000	0	0	0
Pasadena Refining Systems Inc Pasadena	112,229	0	115,700	0	38,000	0	0	0	0

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2020

(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Downstream Charge Capacity							
	Catalytic Cracking		Catalytic Hydrocracking			Catalytic Reforming		Fuels Solvent Deasphalting
	Fresh	Recycled	Distillate	Gas Oil	Residual	Low Pressure	High Pressure	
Pennsylvania	215,500	1,000	23,000	0	0	50,000	102,200	0
American Refining Group Inc Bradford	0	0	0	0	0	0	2,200	0
Monroe Energy LLC Trainer	53,000	0	23,000	0	0	50,000	0	0
Philadelphia Energy Solutions Philadelphia	137,500	0	0	0	0	0	86,000	0
United Refining Co Warren	25,000	1,000	0	0	0	0	14,000	0
Tennessee	70,000	0	26,500	0	0	36,000	0	0
Valero Ref Company Tennessee LLC Memphis	70,000	0	26,500	0	0	36,000	0	0
Texas	1,791,190	13,000	250,300	429,300	84,500	981,800	105,280	168,000
Alon USA Energy Inc Big Spring	23,500	0	0	0	0	21,500	0	10,000
Buckeye Texas Processing LLC Corpus Christi	0	0	0	0	0	0	0	0
Citgo Refining & Chemical Inc Corpus Christi	83,800	0	0	0	0	51,500	0	0
Deer Park Refining LTD Partnership Deer Park	75,000	5,000	0	60,000	0	44,900	24,500	0
Delek Refining LTD Tyler	20,250	0	0	0	0	13,000	4,500	0
Diamond Shamrock Refining Co LP Sunray	54,500	0	0	29,000	0	29,000	18,000	14,500
Three Rivers	23,840	0	0	28,000	0	23,500	10,000	10,500
Equistar Chemicals LP Channelview	0	0	0	0	0	0	0	0
ExxonMobil Refining & Supply Co Baytown	220,000	8,000	29,900	0	0	127,500	0	47,000
Beaumont	115,000	0	70,000	0	0	143,500	0	0
Flint Hills Resources LP Corpus Christi East	48,800	0	0	0	0	0	0	0
Corpus Christi West	56,200	0	0	14,500	0	0	0	0
Houston Refining LP Houston	110,000	0	0	0	0	0	0	0
Kinder Morgan Crude & Condensate Galena Park	0	0	0	0	0	0	0	0
Lazarus Energy LLC Nixon	0	0	0	0	0	0	0	0
Magellan Terminal Holdings LP Corpus Christi	0	0	0	0	0	0	0	0
Marathon Petroleum Co LP Galveston Bay	205,500	0	78,500	0	84,500	144,500	0	19,000
Motiva Enterprises LLC Port Arthur	92,600	0	0	112,000	0	129,500	0	0
Pasadena Refining Systems Inc Pasadena	52,000	0	0	0	0	23,000	0	0

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2020
(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Downstream Charge Capacity							
	Desulfurization (incl. Catalytic Hydrotreating)							
	Naphtha/ Reformer Feed	Gasoline	Kerosene/ Jet Fuel	Diesel Fuel	Other Distillate	Residual	Heavy Gas Oil	Other
Pennsylvania	187,900	104,000	28,300	75,100	157,000	0	0	0
American Refining Group Inc Bradford	3,900	0	0	4,800	0	0	0	0
Monroe Energy LLC Trainer	80,000	34,000	23,300	53,300	0	0	0	0
Philadelphia Energy Solutions Philadelphia	78,000	65,000	0	0	157,000	0	0	0
United Refining Co Warren	26,000	5,000	5,000	17,000	0	0	0	0
Tennessee	52,000	39,000	0	38,000	0	0	0	0
Valero Ref Company Tennessee LLC Memphis	52,000	39,000	0	38,000	0	0	0	0
Texas	1,424,090	1,116,180	629,700	1,398,710	16,000	75,000	980,140	142,000
Alon USA Energy Inc Big Spring	25,500	0	5,000	24,000	0	0	6,500	0
Buckeye Texas Processing LLC Corpus Christi	0	0	0	0	0	0	0	0
Citgo Refining & Chemical Inc Corpus Christi	52,800	47,080	0	101,610	0	0	70,900	0
Deer Park Refining LTD Partnership Deer Park	80,000	46,600	40,000	50,000	0	0	49,500	43,000
Delek Refining LTD Tyler	28,000	13,000	0	36,000	0	0	0	0
Diamond Shamrock Refining Co LP Sunray	44,400	39,600	0	47,500	0	0	0	0
Three Rivers	25,000	0	10,000	25,000	0	0	20,000	0
Equistar Chemicals LP Channelview	0	0	0	0	0	0	0	0
ExxonMobil Refining & Supply Co Baytown	155,500	196,000	132,700	146,300	0	0	117,000	46,500
Beaumont	163,100	71,000	51,000	42,000	0	0	0	20,000
Flint Hills Resources LP Corpus Christi East	33,000	0	21,000	42,500	0	0	0	0
Corpus Christi West	60,000	72,000	32,000	29,500	0	0	0	0
Houston Refining LP Houston	61,000	89,000	44,500	92,600	0	0	117,000	1,000
Kinder Morgan Crude & Condensate Galena Park	0	0	0	0	0	0	0	0
Lazarus Energy LLC Nixon	0	0	0	0	0	0	0	0
Magellan Terminal Holdings LP Corpus Christi	0	0	0	0	0	0	0	0
Marathon Petroleum Co LP Galveston Bay	125,000	57,000	79,000	58,500	0	0	108,500	0
Motiva Enterprises LLC Port Arthur	163,150	55,000	79,000	173,300	0	0	53,300	21,000
Pasadena Refining Systems Inc Pasadena	23,000	40,000	0	0	16,000	0	0	0

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2020

(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Atmospheric Crude Oil Distillation Capacity				Downstream Charge Capacity				
	Barrels per Calendar Day		Barrels per Stream Day		Vacuum Distillation	Thermal Cracking			Other/Gas Oil
	Operating	Idle	Operating	Idle		Delayed Coking	Fluid Coking	Visbreaking	
Texas	5,820,529	35,000	6,179,800	38,000	2,631,000	913,707	42,000	0	0
Petromax Refining Co LLC									
Houston	25,000	0	27,500	0	0	0	0	0	0
Phillips 66 Company									
Sweeny	265,000	0	278,900	0	132,100	78,700	0	0	0
Premcor Refining Group Inc									
Port Arthur	335,000	0	415,000	0	220,000	103,000	0	0	0
South Hampton Resources Inc									
Silsbee	0	0	0	0	0	0	0	0	0
Targa Channelview LLC									
Channelview	0	35,000	0	38,000	0	0	0	0	0
The San Antonio Refinery LLC									
San Antonio (Formerly Calumet San Antonio Refining LLC)	20,000	0	21,000	0	0	0	0	0	0
Total Petrochemicals & Refining USA									
Port Arthur	225,500	0	245,000	0	117,000	60,000	0	0	0
Valero Refining Co Texas LP									
Corpus Christi	290,000	0	297,000	0	91,000	19,000	0	0	0
Houston	205,000	0	210,000	0	38,000	0	0	0	0
Texas City	225,000	0	231,000	0	133,500	53,500	0	0	0
Western Refining Company LP									
El Paso	131,000	0	138,000	0	55,500	0	0	0	0
WRB Refining LP									
Borger	146,000	0	154,000	0	80,000	28,380	0	0	0
Utah	203,714	0	214,200	0	34,500	10,000	0	0	0
Big West Oil Co									
North Salt Lake	31,664	0	33,000	0	0	0	0	0	0
Chevron USA Inc									
Salt Lake City	54,720	0	57,600	0	27,500	10,000	0	0	0
HollyFrontier Woods Cross Refining LLC									
Woods Cross	39,330	0	41,400	0	0	0	0	0	0
Silver Eagle Refining									
Woods Cross	15,000	0	15,700	0	7,000	0	0	0	0
Tesoro Refining & Marketing Co									
Salt Lake City	63,000	0	66,500	0	0	0	0	0	0
Washington	651,700	0	672,500	0	319,100	86,800	0	0	0
BP West Coast Products LLC									
Ferndale	242,000	0	251,000	0	139,000	61,500	0	0	0
Phillips 66 Company									
Ferndale	105,000	0	110,500	0	48,100	0	0	0	0
Shell Oil Products US									
Anacortes	145,000	0	149,000	0	65,800	25,300	0	0	0
Tesoro Refining & Marketing Co									
Anacortes	119,000	0	120,000	0	47,000	0	0	0	0
US Oil & Refining Co									
Tacoma	40,700	0	42,000	0	19,200	0	0	0	0

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2020

(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Downstream Charge Capacity							
	Catalytic Cracking		Catalytic Hydrocracking			Catalytic Reforming		Fuels Solvent Deasphalting
	Fresh	Recycled	Distillate	Gas Oil	Residual	Low Pressure	High Pressure	
Texas	1,791,190	13,000	250,300	429,300	84,500	981,800	105,280	168,000
Petromax Refining Co LLC								
Houston	0	0	0	0	0	0	0	0
Phillips 66 Company								
Sweeny	107,700	0	0	0	0	42,100	0	0
Premcor Refining Group Inc								
Port Arthur	75,000	0	0	134,800	0	55,000	0	0
South Hampton Resources Inc								
Silsbee	0	0	0	0	0	5,200	0	0
Targa Channelview LLC								
Channelview	0	0	0	0	0	0	0	0
The San Antonio Refinery LLC								
San Antonio	0	0	0	0	0	0	6,000	0
(Formerly Calumet San Antonio Refining LLC)								
Total Petrochemicals & Refining USA								
Port Arthur	80,000	0	0	0	0	43,000	0	15,500
Valero Refining Co Texas LP								
Corpus Christi	95,500	0	0	51,000	0	39,000	11,000	0
Houston	75,000	0	71,900	0	0	0	0	18,000
Texas City	86,000	0	0	0	0	18,100	0	33,500
Western Refining Company LP								
El Paso	35,000	0	0	0	0	28,000	0	0
WRB Refining LP								
Borger	56,000	0	0	0	0	0	31,280	0
Utah	70,000	0	0	15,000	0	0	36,900	6,000
Big West Oil Co								
North Salt Lake	12,500	0	0	0	0	0	8,500	0
Chevron USA Inc								
Salt Lake City	15,500	0	0	0	0	0	8,500	0
HollyFrontier Woods Cross Refining LLC								
Woods Cross	17,500	0	0	15,000	0	0	8,400	6,000
Silver Eagle Refining								
Woods Cross	0	0	0	0	0	0	0	0
Tesoro Refining & Marketing Co								
Salt Lake City	24,500	0	0	0	0	0	11,500	0
Washington	147,400	3,000	0	65,000	0	112,000	28,500	24,000
BP West Coast Products LLC								
Ferndale	0	0	0	65,000	0	65,000	0	0
Phillips 66 Company								
Ferndale	38,000	0	0	0	0	18,500	0	0
Shell Oil Products US								
Anacortes	57,900	0	0	0	0	0	21,700	0
Tesoro Refining & Marketing Co								
Anacortes	51,500	3,000	0	0	0	28,500	0	24,000
US Oil & Refining Co								
Tacoma	0	0	0	0	0	0	6,800	0

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2020
(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Downstream Charge Capacity							
	Desulfurization (incl. Catalytic Hydrotreating)							
	Naphtha/ Reformer Feed	Gasoline	Kerosene/ Jet Fuel	Diesel Fuel	Other Distillate	Residual	Heavy Gas Oil	Other
Texas	1,424,090	1,116,180	629,700	1,398,710	16,000	75,000	980,140	142,000
Petromax Refining Co LLC								
Houston	0	0	0	0	0	0	0	0
Phillips 66 Company								
Sweeny	73,400	68,700	0	126,300	0	0	110,200	0
Premcor Refining Group Inc								
Port Arthur	48,700	85,000	33,000	104,600	0	0	60,000	0
South Hampton Resources Inc								
Silsbee	11,000	0	0	0	0	0	0	4,000
Targa Channelview LLC								
Channelview	0	0	0	0	0	0	0	0
The San Antonio Refinery LLC								
San Antonio	7,000	0	0	8,000	0	0	0	0
(Formerly Calumet San Antonio Refining LLC)								
Total Petrochemicals & Refining USA								
Port Arthur	57,500	51,600	31,000	80,000	0	0	54,400	0
Valero Refining Co Texas LP								
Corpus Christi	57,000	54,500	10,000	72,000	0	75,000	25,000	0
Houston	9,000	33,600	16,000	0	0	0	0	0
Texas City	25,000	61,500	28,000	55,000	0	0	110,000	6,500
Western Refining Company LP								
El Paso	30,500	35,000	9,000	48,500	0	0	0	0
WRB Refining LP								
Borger	65,540	0	8,500	35,500	0	0	77,840	0
Utah	45,300	8,000	2,900	50,300	31,500	0	0	7,200
Big West Oil Co								
North Salt Lake	11,800	0	0	11,500	0	0	0	0
Chevron USA Inc								
Salt Lake City	8,500	0	0	13,300	20,700	0	0	7,200
HollyFrontier Woods Cross Refining LLC								
Woods Cross	12,500	0	2,900	0	10,800	0	0	0
Silver Eagle Refining								
Woods Cross	1,000	0	0	3,000	0	0	0	0
Tesoro Refining & Marketing Co								
Salt Lake City	11,500	8,000	0	22,500	0	0	0	0
Washington	199,300	104,500	45,000	170,600	0	0	0	0
BP West Coast Products LLC								
Ferndale	101,800	0	20,000	59,000	0	0	0	0
Phillips 66 Company								
Ferndale	19,400	34,100	0	35,000	0	0	0	0
Shell Oil Products US								
Anacortes	21,700	43,900	25,000	39,900	0	0	0	0
Tesoro Refining & Marketing Co								
Anacortes	46,000	26,500	0	28,500	0	0	0	0
US Oil & Refining Co								
Tacoma	10,400	0	0	8,200	0	0	0	0

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2020

(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Atmospheric Crude Oil Distillation Capacity				Downstream Charge Capacity				
	Barrels per Calendar Day		Barrels per Stream Day		Vacuum Distillation	Thermal Cracking			
	Operating	Idle	Operating	Idle		Delayed Coking	Fluid Coking	Visbreaking	Other/Gas Oil
West Virginia	22,300	0	23,000	0	8,600	0	0	0	0
Ergon West Virginia Inc Newell	22,300	0	23,000	0	8,600	0	0	0	0
Wisconsin	0	38,000	0	50,000	23,500	0	0	0	0
Superior Refining Company LLC Superior	0	38,000	0	50,000	23,500	0	0	0	0
Wyoming	168,500	0	191,400	0	79,000	33,700	0	0	0
Hermes Consolidated LLC New Castle	18,000	0	18,500	0	0	0	0	0	0
HollyFrontier Cheyenne Refining LLC Cheyenne	48,000	0	52,000	0	28,000	13,700	0	0	0
Little America Refining Co Evansville	24,500	0	25,500	0	0	0	0	0	0
Silver Eagle Refining Evanston	3,000	0	3,400	0	0	0	0	0	0
Sinclair Wyoming Refining Co Sinclair	75,000	0	92,000	0	51,000	20,000	0	0	0
U.S. Total	18,548,985	427,100	19,634,219	458,000	9,170,843	2,882,762	158,500	16,000	11,800
Virgin Islands	0	176,400	0	180,000	90,000	62,000	0	0	0
Limetree Bay Refining LLC Kingshill	0	176,400	0	180,000	90,000	62,000	0	0	0

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2020

(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Downstream Charge Capacity							
	Catalytic Cracking		Catalytic Hydrocracking			Catalytic Reforming		Fuels Solvent Deasphalting
	Fresh	Recycled	Distillate	Gas Oil	Residual	Low Pressure	High Pressure	
West Virginia	0	0	0	0	0	4,700	0	0
Ergon West Virginia Inc Newell	0	0	0	0	0	4,700	0	0
Wisconsin	11,323	0	0	0	0	9,300	0	0
Superior Refining Company LLC Superior	11,323	0	0	0	0	9,300	0	0
Wyoming	54,500	500	15,000	0	0	14,200	19,900	0
Hermes Consolidated LLC New Castle	7,500	0	0	0	0	0	4,000	0
HollyFrontier Cheyenne Refining LLC Cheyenne	13,500	0	0	0	0	9,200	0	0
Little America Refining Co Evansville	11,500	500	0	0	0	5,000	0	0
Silver Eagle Refining Evanston	0	0	0	0	0	0	2,900	0
Sinclair Wyoming Refining Co Sinclair	22,000	0	15,000	0	0	0	13,000	0
U.S. Total	5,988,485	61,890	735,700	1,630,300	139,000	2,708,790	1,100,238	395,750
Virgin Islands	0	0	0	0	0	46,000	0	0
Limetree Bay Refining LLC Kingshill	0	0	0	0	0	46,000	0	0

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2020
(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Downstream Charge Capacity							
	Desulfurization (incl. Catalytic Hydrotreating)							
	Naphtha/ Reformer Feed	Gasoline	Kerosene/ Jet Fuel	Diesel Fuel	Other Distillate	Residual	Heavy Gas Oil	Other
West Virginia	7,700	0	0	9,500	0	0	6,900	0
Ergon West Virginia Inc Newell	7,700	0	0	9,500	0	0	6,900	0
Wisconsin	12,500	12,500	8,000	7,500	0	0	0	0
Superior Refining Company LLC Superior	12,500	12,500	8,000	7,500	0	0	0	0
Wyoming	48,000	16,500	14,000	54,000	0	0	20,000	0
Hermes Consolidated LLC New Castle	4,000	0	0	6,000	0	0	0	0
HollyFrontier Cheyenne Refining LLC Cheyenne	11,000	10,000	0	19,000	0	0	0	0
Little America Refining Co Evansville	7,500	6,500	0	10,500	0	0	0	0
Silver Eagle Refining Evanston	4,000	0	0	0	0	0	0	0
Sinclair Wyoming Refining Co Sinclair	21,500	0	14,000	18,500	0	0	20,000	0
U.S. Total	4,686,141	3,164,957	1,643,328	4,580,050	435,690	88,500	2,936,748	390,100
Virgin Islands	100,000	0	66,000	66,000	0	0	50,000	0
Limetree Bay Refining LLC Kingshill	100,000	0	66,000	66,000	0	0	50,000	0

Note: Refer to Table 5 for corporate ownership information. Some names of previously independent companies have been preserved by acquiring companies.

Source: Energy Information Administration (EIA), Form EIA-820, "Annual Refinery Report."

Directory of Operable Petroleum Refineries on Tables 3 and 4

Refiner	State(s)	Refiner	State(s)
Alon Refining Krotz Springs Inc.....	LA	Lima Refining Company.....	OH
Alon USA Energy Inc.....	TX	Limetree Bay Refining LLC.....	VI
American Refining Group Inc.....	PA	Lion Oil Co.....	AR
BP Exploration Alaska Inc.....	AK	Little America Refining Co.....	WY
BP Products North America Inc.....	IN	Lunday Thagard Co.....	CA
BP West Coast Products LLC.....	WA	Magellan Terminal Holdings LP.....	TX
BP-Husky Refining LLC.....	OH	Marathon Petroleum Co LP.....	IL, KY, LA, MI, OH, TX
Big West Oil Co.....	UT	Monroe Energy LLC.....	PA
Buckeye Texas Processing LLC.....	TX	Motiva Enterprises LLC.....	TX
CHS McPherson Refinery Inc.....	KS	PDV Midwest Refining LLC.....	IL
Calcasieu Refining Co.....	LA	Par Hawaii Refining LLC.....	HI
Calumet Cotton Valley Refining LLC.....	LA	Pasadena Refining Systems Inc.....	TX
Calumet Montana Refining LLC.....	MT	Paulsboro Refining Co LLC.....	NJ
Calumet Princeton Refining LLC.....	LA	Petro Star Inc.....	AK
Calumet Shreveport Refining LLC.....	LA	Petromax Refining Co LLC.....	TX
Cenex Harvest States Coop.....	MT	Philadelphia Energy Solutions.....	PA
Chalmette Refining LLC.....	LA	Phillips 66 Company.....	CA, LA, MT, NJ, OK, TX, WA
Chevron USA Inc.....	CA, MS, UT	Placid Refining Co.....	LA
Citgo Petroleum Corp.....	LA	Premcor Refining Group Inc.....	TX
Citgo Refining & Chemical Inc.....	TX	San Joaquin Refining Co Inc.....	CA
Coffeyville Resources Rfg & Mktg.....	KS	Santa Maria Refining Company.....	CA
ConocoPhillips Alaska Inc.....	AK	Shell Chemical LP.....	AL
Countrymark Cooperative Inc.....	IN	Shell Oil Products US.....	CA, LA, WA
Cross Oil Refining & Marketing Inc.....	AR	Silver Eagle Refining.....	UT, WY
Dakota Prairie Refining LLC.....	ND	Sinclair Wyoming Refining Co.....	WY
Deer Park Refining LTD Partnership.....	TX	South Hampton Resources Inc.....	TX
Delaware City Refining Co LLC.....	DE	St Paul Park Refining Co LLC.....	MN
Delek Refining LTD.....	TX	Suncor Energy (USA) Inc.....	CO
Diamond Shamrock Refining Co LP.....	TX	Superior Refining Company LLC.....	WI
Equistar Chemicals LP.....	TX	Targa Channelview LLC.....	TX
Ergon Refining Inc.....	MS	Tesoro Alaska Company LLC.....	AK
Ergon West Virginia Inc.....	WV	Tesoro Refining & Marketing Co.....	CA, ND, UT, WA
Excel Paralubes.....	LA	The San Antonio Refinery LLC.....	TX
ExxonMobil Refining & Supply Co.....	IL, LA, MT, TX	Toledo Refining Co LLC.....	OH
Flint Hills Resources LP.....	MN, TX	Torrance Refining Co LLC.....	CA
Foreland Refining Corp.....	NV	Total Petrochemicals & Refining USA.....	TX
Goodway Refining LLC.....	AL	US Oil & Refining Co.....	WA
Hermes Consolidated LLC.....	WY	Ultramar Inc.....	CA
HollyFrontier Cheyenne Refining LLC.....	WY	United Refining Co.....	PA
HollyFrontier El Dorado Refining LLC.....	KS	Valero Ref Company Tennessee LLC.....	TN
HollyFrontier Navajo Refining LLC.....	NM	Valero Refining - Meraux LLC.....	LA
HollyFrontier Tulsa Refining LLC.....	OK	Valero Refining Co California.....	CA
HollyFrontier Woods Cross Refining LLC.....	UT	Valero Refining Co Oklahoma.....	OK
Houston Refining LP.....	TX	Valero Refining Co Texas LP.....	TX
Hunt Refining Co.....	AL	Valero Refining New Orleans LLC.....	LA
Hunt Southland Refining Co.....	MS	WRB Refining LP.....	IL, TX
Kern Oil & Refining Co.....	CA	Western Refining Company LP.....	TX
Kinder Morgan Crude & Condensate.....	TX	Western Refining Southwest Inc.....	NM
Lazarus Energy LLC.....	TX	Wynnewood Refining Co.....	OK

Table 4. Production Capacity of Operable Petroleum Refineries by State as of January 1, 2020

(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Alkylates	Aromatics	Asphalt and Road Oil	Isomers			Lubricants	Marketable Petroleum Coke	Hydrogen ^a (MMcfd)	Sulfur (short tons per day)
				Isobutane	Isopentane and Isohexane	Isooctane				
Alabama	0	0	17,500	1,150	4,200	0	0	7,120	40	228
Hunt Refining Co										
Tuscaloosa	0	0	17,500	0	4,200	0	0	7,120	40	195
Shell Chemical LP										
Saraland	0	0	0	1,150	0	0	0	0	0	33
Alaska	0	0	12,500	0	5,000	0	0	0	13	25
Petro Star Inc										
North Pole	0	0	3,000	0	0	0	0	0	0	0
Tesoro Alaska Company LLC										
Kenai	0	0	9,500	0	5,000	0	0	0	13	25
Arkansas	5,000	0	21,300	0	7,500	0	6,000	0	13	157
Cross Oil Refining & Marketing Inc										
Smackover	0	0	800	0	0	0	6,000	0	3	0
Lion Oil Co										
El Dorado	5,000	0	20,500	0	7,500	0	0	0	10	157
California	208,562	1,500	30,550	49,000	131,100	0	39,800	151,323	1,216	4,907
Chevron USA Inc										
El Segundo	33,300	0	0	10,500	22,300	0	0	30,000	74	628
Richmond	32,662	0	0	7,200	46,000	0	34,000	0	330	1,008
Kern Oil & Refining Co										
Bakersfield	0	0	0	0	0	0	0	0	0	11
Lunday Thagard Co										
South Gate	0	0	3,750	0	0	0	0	0	0	0
Phillips 66 Company										
Rodeo	0	0	0	3,800	10,000	0	0	14,500	22	560
Wilmington	16,000	0	0	7,000	12,800	0	0	16,800	105	370

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(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Alkylates	Aromatics	Asphalt and Road Oil	Isomers			Lubricants	Marketable Petroleum Coke	Hydrogen ^a (MMcfd)	Sulfur (short tons per day)
				Isobutane	Isopentane and Isohexane	Isooctane				
San Joaquin Refining Co Inc										
Bakersfield	0	1,500	8,000	0	0	0	5,800	0	4	6
Santa Maria Refining Company										
Santa Maria	0	0	6,300	0	0	0	0	0	0	0
Shell Oil Products US										
Martinez	12,500	0	0	0	15,000	0	0	9,000	193	413
Tesoro Refining & Marketing Co										
Carson	29,000	0	0	16,300	25,000	0	0	31,243	120	749
Martinez	16,000	0	0	0	0	0	0	13,800	87	179
Torrance Refining Co LLC										
Torrance	30,000	0	0	0	0	0	0	19,180	146	400
Ultramar Inc										
Wilmington	22,000	0	0	0	0	0	0	10,000	0	280
Valero Refining Co California										
Benicia	17,100	0	9,000	4,200	0	0	0	6,800	135	303
Wilmington	0	0	3,500	0	0	0	0	0	0	0
Colorado	0	0	13,200	0	0	0	0	0	22	116
Suncor Energy (USA) Inc										
Commerce City East	0	0	0	0	0	0	0	0	0	2
Commerce City West	0	0	13,200	0	0	0	0	0	22	114
Delaware	11,729	5,191	0	6,000	0	0	0	13,620	40	596
Delaware City Refining Co LLC										
Delaware City	11,729	5,191	0	6,000	0	0	0	13,620	40	596
Hawaii	0	0	0	0	0	0	0	0	18	38
Par Hawaii Refining LLC										
Kapolei	0	0	0	0	0	0	0	0	18	38

Table 4. Production Capacity of Operable Petroleum Refineries by State as of January 1, 2020

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State/Refiner/Location	Alkylates	Aromatics	Asphalt and Road Oil	Isomers			Lubricants	Marketable Petroleum Coke	Hydrogen ^a (MMcfd)	Sulfur (short tons per day)
				Isobutane	Isopentane and Isohexane	Isooctane				
Illinois	86,400	17,200	43,100	0	16,000	0	0	67,285	202	2,380
ExxonMobil Refining & Supply Co										
Joliet	29,100	0	15,100	0	0	0	0	18,595	0	683
Marathon Petroleum Co LP										
Robinson	12,500	3,300	0	0	16,000	0	0	7,890	0	202
PDV Midwest Refining LLC										
Lemont	23,000	9,400	0	0	0	0	0	12,900	12	487
WRB Refining LP										
Wood River	21,800	4,500	28,000	0	0	0	0	27,900	190	1,008
Indiana	34,200	16,800	33,700	0	31,100	0	0	30,000	0	1,913
BP Products North America Inc										
Whiting	32,000	16,800	30,000	0	27,900	0	0	30,000	0	1,904
Countrymark Cooperative Inc										
Mount Vernon	2,200	0	3,700	0	3,200	0	0	0	0	9
Kansas	33,600	0	4,000	5,300	27,000	0	0	23,064	120	831
CHS McPherson Refinery Inc										
McPherson	9,600	0	0	3,800	12,000	0	0	7,364	42	287
Coffeyville Resources Rfg & Mktg										
Coffeyville	10,000	0	0	0	0	0	0	8,700	22	229
HollyFrontier El Dorado Refining LLC										
El Dorado	14,000	0	4,000	1,500	15,000	0	0	7,000	56	315
Kentucky	21,500	2,500	35,400	0	17,000	0	0	0	0	448
Marathon Petroleum Co LP										
Catlettsburg	21,500	2,500	35,400	0	17,000	0	0	0	0	448
Louisiana	244,900	49,900	63,000	23,000	102,220	0	66,000	173,152	118	7,071

Table 4. Production Capacity of Operable Petroleum Refineries by State as of January 1, 2020

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State/Refiner/Location	Alkylates	Aromatics	Asphalt and Road Oil	Isomers			Lubricants	Marketable Petroleum Coke	Hydrogen ^a (MMcfd)	Sulfur (short tons per day)
				Isobutane	Isopentane and Isohexane	Isooctane				
Alon Refining Krotz Springs Inc										
Krotz Springs	6,000	0	0	0	6,220	0	0	0	0	0
Calumet Cotton Valley Refining LLC										
Cotton Valley	0	0	0	0	500	0	0	0	2	0
Calumet Princeton Refining LLC										
Princeton	0	0	2,000	0	0	0	7,000	0	4	3
Calumet Shreveport Refining LLC										
Shreveport	0	0	6,500	0	0	0	12,500	0	12	40
Chalmette Refining LLC										
Chalmette	16,800	10,500	15,000	0	0	0	0	13,000	0	920
Citgo Petroleum Corp										
Lake Charles	28,100	20,900	0	0	28,000	0	0	32,820	0	717
Excel Paralubes										
Westlake	0	0	0	0	0	0	30,000	0	0	185
ExxonMobil Refining & Supply Co										
Baton Rouge	41,000	0	0	0	0	0	16,500	31,525	0	944
Marathon Petroleum Co LP										
Garyville	38,000	0	33,000	23,000	26,500	0	0	33,275	0	1,476
Phillips 66 Company										
Belle Chasse	35,000	15,500	0	0	0	0	0	6,716	0	125
Westlake	9,000	0	6,500	0	25,000	0	0	22,500	0	440
Placid Refining Co										
Port Allen	7,500	0	0	0	0	0	0	0	0	55
Shell Oil Products US										
Convent	22,700	0	0	0	16,000	0	0	0	0	922
Norco	16,800	0	0	0	0	0	0	7,316	0	180
Valero Refining - Meraux LLC										
Meraux	0	0	0	0	0	0	0	0	0	224
Valero Refining New Orleans LLC										
Norco	24,000	3,000	0	0	0	0	0	26,000	100	840

Table 4. Production Capacity of Operable Petroleum Refineries by State as of January 1, 2020

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State/Refiner/Location	Alkylates	Aromatics	Asphalt and Road Oil	Isomers			Lubricants	Marketable Petroleum Coke	Hydrogen ^a (MMcfd)	Sulfur (short tons per day)
				Isobutane	Isopentane and Isohexane	Isooctane				
Michigan	7,500	0	32,000	0	0	0	0	12,320	0	460
Marathon Petroleum Co LP										
Detroit	7,500	0	32,000	0	0	0	0	12,320	0	460
Minnesota	20,500	0	59,600	0	33,500	0	0	28,400	209	1,339
Flint Hills Resources LP										
Saint Paul	14,000	0	45,000	0	18,000	0	0	28,400	199	1,229
St Paul Park Refining Co LLC										
Saint Paul	6,500	0	14,600	0	15,500	0	0	0	10	110
Mississippi	21,500	15,600	16,125	0	0	0	48,000	35,500	242	1,224
Chevron USA Inc										
Pascagoula	21,500	15,600	0	0	0	0	25,000	35,500	229	1,224
Ergon Refining Inc										
Vicksburg	0	0	10,000	0	0	0	23,000	0	13	0
Hunt Southland Refining Co										
Sandersville	0	0	6,125	0	0	0	0	0	0	0
Montana	17,150	0	44,300	5,250	1,500	0	0	15,480	148	489
Calumet Montana Refining LLC										
Great Falls	800	0	10,000	0	1,500	0	0	0	20	0
Cenex Harvest States Coop										
Laurel	4,000	0	19,800	1,250	0	0	0	4,800	70	243
ExxonMobil Refining & Supply Co										
Billings	5,100	0	14,500	0	0	0	0	4,000	23	0
Phillips 66 Company										
Billings	7,250	0	0	4,000	0	0	0	6,680	35	246
Nevada	0	0	1,600	0	0	0	0	0	0	0

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State/Refiner/Location	Alkylates	Aromatics	Asphalt and Road Oil	Isomers			Lubricants	Marketable Petroleum Coke	Hydrogen ^a (MMcfd)	Sulfur (short tons per day)
				Isobutane	Isopentane and Isohexane	Isooctane				
Foreland Refining Corp										
Ely	0	0	1,600	0	0	0	0	0	0	0
New Jersey	30,800	0	21,000	4,000	0	0	12,000	7,500	31	320
Paulsboro Refining Co LLC										
Paulsboro	12,000	0	21,000	0	0	0	12,000	7,500	9	320
Phillips 66 Company										
Linden	18,800	0	0	4,000	0	0	0	0	22	0
New Mexico	11,800	0	7,000	0	0	0	0	0	38	227
HollyFrontier Navajo Refining LLC										
Artesia	9,500	0	7,000	0	0	0	0	0	38	224
Western Refining Southwest Inc										
Gallup	2,300	0	0	0	0	0	0	0	0	3
North Dakota	4,800	0	0	0	0	0	0	0	2	17
Dakota Prairie Refining LLC										
Dickinson	0	0	0	0	0	0	0	0	2	2
Tesoro Refining & Marketing Co										
Mandan	4,800	0	0	0	0	0	0	0	0	15
Ohio	29,950	20,000	23,800	4,500	18,700	0	0	16,300	0	922
BP-Husky Refining LLC										
Toledo	11,500	0	9,000	0	0	0	0	10,000	0	462
Lima Refining Company										
Lima	0	9,200	0	4,500	18,700	0	0	6,300	0	240
Marathon Petroleum Co LP										
Canton	8,500	0	14,800	0	0	0	0	0	0	104
Toledo Refining Co LLC										
Toledo	9,950	10,800	0	0	0	0	0	0	0	116

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				Isobutane	Isopentane and Isohexane	Isooctane				
Oklahoma	35,586	21,000	43,414	900	13,000	0	9,900	9,050	72	324
HollyFrontier Tulsa Refining LLC										
Tulsa East	5,500	0	15,200	0	13,000	0	0	0	0	75
Tulsa West	0	0	6,500	900	0	0	9,900	2,750	0	0
Phillips 66 Company										
Ponca City	17,574	0	0	0	0	0	0	6,300	35	0
Valero Refining Co Oklahoma										
Ardmore	7,012	0	14,714	0	0	0	0	0	27	249
Wynnewood Refining Co										
Wynnewood	5,500	21,000	7,000	0	0	0	0	0	10	0
Pennsylvania	24,000	4,920	22,560	3,800	9,280	0	2,945	0	10	233
American Refining Group Inc										
Bradford	0	0	560	0	780	0	2,945	0	0	0
Monroe Energy LLC										
Trainer	12,000	0	0	0	0	0	0	0	0	90
Philadelphia Energy Solutions										
Philadelphia	7,500	4,920	0	3,800	0	0	0	0	0	76
United Refining Co										
Warren	4,500	0	22,000	0	8,500	0	0	0	10	67
Tennessee	12,700	29,000	0	0	0	0	0	0	30	116
Valero Ref Company Tennessee LLC										
Memphis	12,700	29,000	0	0	0	0	0	0	30	116
Texas	411,071	142,365	54,200	57,100	146,240	0	69,900	281,810	291	16,264
Alon USA Energy Inc										
Big Spring	5,000	1,000	7,600	0	0	0	0	0	0	150

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				Isobutane	Isopentane and Isohexane	Isooctane				
Citgo Refining & Chemical Inc										
Corpus Christi	24,351	16,270	0	0	0	0	0	17,374	0	370
Deer Park Refining LTD Partnership										
Deer Park	21,000	0	0	0	0	0	0	22,000	0	1,140
Delek Refining LTD										
Tyler	4,700	0	0	0	0	0	0	1,500	0	39
Diamond Shamrock Refining Co LP										
Sunray	9,800	0	12,000	3,000	0	0	0	0	30	75
Three Rivers	7,000	10,800	0	3,000	0	0	1,900	0	0	224
Equistar Chemicals LP										
Channelview	22,370	0	0	0	0	0	0	0	0	0
ExxonMobil Refining & Supply Co										
Baytown	41,000	0	0	0	0	0	28,000	22,750	0	1,828
Beaumont	14,900	0	0	11,200	33,800	0	0	15,039	0	661
Flint Hills Resources LP										
Corpus Christi East	0	0	0	900	0	0	0	0	0	102
Corpus Christi West	15,500	0	0	4,000	3,500	0	0	2,953	0	160
Houston Refining LP										
Houston	11,250	20,700	0	0	0	0	1,000	30,150	0	1,123
Marathon Petroleum Co LP										
Galveston Bay	58,000	39,400	0	0	0	0	0	11,910	0	1,452
Motiva Enterprises LLC										
Port Arthur	20,500	0	0	0	49,140	0	39,000	50,975	0	3,203
Pasadena Refining Systems Inc										
Pasadena	12,500	0	0	0	0	0	0	0	0	28
Phillips 66 Company										
Sweeny	21,600	20,500	0	0	10,100	0	0	22,800	0	915
Premcor Refining Group Inc										
Port Arthur	19,500	0	0	0	0	0	0	32,240	0	1,490

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				Isobutane	Isopentane and Isohexane	Isooctane				
South Hampton Resources Inc										
Silsbee	0	3,640	0	0	4,400	0	0	0	0	0
Total Petrochemicals & Refining USA										
Port Arthur	7,500	13,600	0	0	7,800	0	0	19,200	0	806
Valero Refining Co Texas LP										
Corpus Christi	24,500	16,455	30,600	16,000	0	0	0	5,919	160	1,142
Houston	28,900	0	0	0	0	0	0	0	0	336
Texas City	14,700	0	0	0	6,500	0	0	19,000	0	680
Western Refining Company LP										
El Paso	12,500	0	4,000	4,000	0	0	0	0	10	0
WRB Refining LP										
Borger	14,000	0	0	15,000	31,000	0	0	8,000	91	340
Utah	21,500	0	1,800	3,200	6,000	0	0	2,500	0	93
Big West Oil Co										
North Salt Lake	3,100	0	0	1,900	3,000	0	0	0	0	4
Chevron USA Inc										
Salt Lake City	5,600	0	0	1,300	0	0	0	2,500	0	63
HollyFrontier Woods Cross Refining LLC										
Woods Cross	5,300	0	1,800	0	3,000	0	0	0	0	10
Tesoro Refining & Marketing Co										
Salt Lake City	7,500	0	0	0	0	0	0	0	0	16
Washington	42,200	0	8,700	9,400	30,500	0	0	23,650	186	816
BP West Coast Products LLC										
Ferndale	0	0	0	0	26,000	0	0	15,250	186	284
Phillips 66 Company										
Ferndale	12,700	0	0	2,900	0	0	0	0	0	123
Shell Oil Products US										
Anacortes	12,500	0	0	0	0	0	0	8,400	0	350

Table 4. Production Capacity of Operable Petroleum Refineries by State as of January 1, 2020

(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Alkylates	Aromatics	Asphalt and Road Oil	Isomers			Lubricants	Marketable Petroleum Coke	Hydrogen ^a (MMcfd)	Sulfur (short tons per day)
				Isobutane	Isopentane and Isohexane	Isooctane				
Tesoro Refining & Marketing Co										
Anacortes	17,000	0	0	6,500	0	0	0	0	0	48
US Oil & Refining Co										
Tacoma	0	0	8,700	0	4,500	0	0	0	0	11
West Virginia	0	0	700	0	0	0	6,000	0	3	1
Ergon West Virginia Inc										
Newell	0	0	700	0	0	0	6,000	0	3	1
Wisconsin	1,700	6,000	16,000	0	0	0	0	0	0	33
Superior Refining Company LLC										
Superior	1,700	6,000	16,000	0	0	0	0	0	0	33
Wyoming	10,500	0	24,000	0	0	0	0	10,500	62	329
Hermes Consolidated LLC										
New Castle	1,300	0	0	0	0	0	0	0	0	0
HollyFrontier Cheyenne Refining LLC										
Cheyenne	4,200	0	16,000	0	0	0	0	4,700	10	116
Little America Refining Co										
Evansville	0	0	0	0	0	0	0	0	0	10
Sinclair Wyoming Refining Co										
Sinclair	5,000	0	8,000	0	0	0	0	5,800	52	203
U.S. Total	1,349,148	331,976	651,049	172,600	599,840	0	260,545	908,574	3,126	41,917
Virgin Islands	0	0	0	0	0	0	0	13,800	0	380
Limetree Bay Refining LLC										
Kingshill	0	0	0	0	0	0	0	13,800	0	380

Table 4. Production Capacity of Operable Petroleum Refineries by State as of January 1, 2020

(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Alkylates	Aromatics	Asphalt and Road Oil	Isomers			Lubricants	Marketable Petroleum Coke	Hydrogen ^a (MMcfd)	Sulfur (short tons per day)
				Isobutane	Isopentane and Isohexane	Isooctane				

^a Includes hydrogen production capacity of hydrogen plants on refinery grounds.

Note: Refer to Table 5 for corporate ownership information. Some names of previously independent companies have been preserved by acquiring companies.

Source: Energy Information Administration (EIA), Form EIA-820, "Annual Refinery Report."

Table 5. Refiners' Total Operable Atmospheric Crude Oil Distillation Capacity as of January 1, 2020

CORPORATION / Refiner / Location	Barrels per Calendar Day	CORPORATION / Refiner / Location	Barrels per Calendar Day
Companies with Capacity Over 100,000 bbl/cd		Diamond Shamrock Refining Co LP	
MARATHON PETROLEUM CORP	3,067,000	Sunray, Texas	195,000
Marathon Petroleum Co LP		Three Rivers, Texas	89,000
Galveston Bay, Texas	585,000	Valero Refining New Orleans LLC	
Garyville, Louisiana	578,000	Norco, Louisiana	215,000
Catlettsburg, Kentucky	291,000	Valero Ref Company Tennessee LLC	
Robinson, Illinois	253,000	Memphis, Tennessee	180,000
Detroit, Michigan	140,000	Valero Refining Co California	
Canton, Ohio	95,000	Benicia, California	145,000
Tesoro Refining & Marketing Co		Wilmington, California	6,300
Carson, California	363,000	Valero Refining - Meraux LLC	
Martinez, California	161,000	Meraux, Louisiana	125,000
Anacortes, Washington	119,000	Valero Refining Co Oklahoma	
Mandan, North Dakota	71,000	Ardmore, Oklahoma	86,000
Salt Lake City, Utah	63,000	Ultramar Inc	
Western Refining Company LP		Wilmington, California	85,000
El Paso, Texas	131,000	EXXON MOBIL CORP	1,747,324
St Paul Park Refining Co LLC		ExxonMobil Refining & Supply Co	
Saint Paul, Minnesota	103,000	Baytown, Texas	560,500
Tesoro Alaska Company LLC		Baton Rouge, Louisiana	517,700
Kenai, Alaska	68,000	Beaumont, Texas	369,024
Western Refining Southwest Inc		Joliet, Illinois	238,600
Gallup, New Mexico	27,000	Billings, Montana	61,500
Dakota Prairie Refining LLC			
Dickinson, North Dakota	19,000		
VALERO ENERGY CORP	2,181,300		
Valero Refining Co Texas LP			
Corpus Christi, Texas	290,000		
Texas City, Texas	225,000		
Houston, Texas	205,000		
Premcor Refining Group Inc			
Port Arthur, Texas	335,000		

Table 5. Refiners' Total Operable Atmospheric Crude Oil Distillation Capacity as of January 1, 2020

CORPORATION / Refiner / Location	Barrels per Calendar Day	CORPORATION / Refiner / Location	Barrels per Calendar Day
PHILLIPS 66 COMPANY	1,675,200	Norco, Louisiana	227,400
Phillips 66 Company		Convent, Louisiana	211,146
Sweeny, Texas	265,000	Martinez, California	156,400
Westlake, Louisiana	260,000	Anacortes, Washington	145,000
Linden, New Jersey	258,500	Shell Chemical LP	
Belle Chasse, Louisiana	255,600	Saraland, Alabama	87,500
Ponca City, Oklahoma	207,000	PDV AMERICA INC	764,765
Wilmington, California	139,000	Citgo Petroleum Corp	
Rodeo, California	120,200	Lake Charles, Louisiana	418,000
Ferndale, Washington	105,000	PDV Midwest Refining LLC	
Billings, Montana	64,900	Lemont, Illinois	179,265
CHEVRON CORP	1,037,660	Citgo Refining & Chemical Inc	
Chevron USA Inc		Corpus Christi, Texas	167,500
Pascagoula, Mississippi	356,440	BP PLC	683,500
El Segundo, California	269,000	BP Products North America Inc	
Richmond, California	245,271	Whiting, Indiana	435,000
Salt Lake City, Utah	54,720	BP West Coast Products LLC	
^a Pasadena Refining Systems Inc		Ferndale, Washington	242,000
Pasadena, Texas	112,229	BP Exploration Alaska Inc	
PBF ENERGY CO LLC	865,000	Prudhoe Bay, Alaska	6,500
Chalmette Refining LLC		KOCH INDUSTRIES INC	673,500
Chalmette, Louisiana	190,000	^b Flint Hills Resources LP	
Delaware City Refining Co LLC		Saint Paul, Minnesota	335,000
Delaware City, Delaware	182,200	Corpus Christi West, Texas	265,000
Toledo Refining Co LLC		Corpus Christi East, Texas	73,500
Toledo, Ohio	172,800	SAUDI ARAMCO	
Paulsboro Refining Co LLC		Motiva Enterprises LLC	
Paulsboro, New Jersey	160,000	Port Arthur, Texas	607,000
Torrance Refining Co LLC			
Torrance, California	160,000		
ROYAL DUTCH/SHELL GROUP	827,446		
Shell Oil Products US			

Table 5. Refiners' Total Operable Atmospheric Crude Oil Distillation Capacity as of January 1, 2020

CORPORATION / Refiner / Location	Barrels per Calendar Day	CORPORATION / Refiner / Location	Barrels per Calendar Day
HOLLYFRONTIER CORP	514,630	ACCESS INDUSTRIES	
HollyFrontier El Dorado Refining LLC		Houston Refining LP	
El Dorado, Kansas	162,000	Houston, Texas	263,776
HollyFrontier Tulsa Refining LLC		TOTAL SA	
Tulsa West, Oklahoma	85,000	Total Petrochemicals & Refining USA	
Tulsa East, Oklahoma	70,300	Port Arthur, Texas	225,500
HollyFrontier Navajo Refining LLC		HUSKY ENERGY INC	217,000
Artesia, New Mexico	110,000	Lima Refining Company	
HollyFrontier Cheyenne Refining LLC		Lima, Ohio	179,000
Cheyenne, Wyoming	48,000	Superior Refining Company LLC	
HollyFrontier Woods Cross Refining LLC		Superior, Wisconsin	38,000
Woods Cross, Utah	39,330	CVR ENERGY	206,500
WRB REFINING LP	502,000	Coffeyville Resources Rfg & Mktg	
WRB Refining LP		Coffeyville, Kansas	132,000
Wood River, Illinois (50% Phillips 66, 50% Cenovus)	356,000	Wynnewood Refining Co	
Borger, Texas (50% Phillips 66, 50% Cenovus)	146,000	Wynnewood, Oklahoma	74,500
CARLYLE GROUP		PAR PACIFIC HOLDINGS	206,200
Philadelphia Energy Solutions		Par Hawaii Refining LLC	
Philadelphia, Pennsylvania	335,000	Kapolei, Hawaii	147,500
DEER PARK REFINING LTD PTNRSHP (50% Royal Dutch/Shell Group, 50% Pemex)		US Oil & Refining Co ^c	
Deer Park Refining LTD Partnership		Tacoma, Washington	40,700
Deer Park, Texas	318,000	Hermes Consolidated LLC	
DELEK GROUP LTD	311,000	New Castle, Wyoming	18,000
Lion Oil Co		DELTA AIR LINES INC	
El Dorado, Arkansas	83,000	Monroe Energy LLC	
Alon Refining Krotz Springs Inc		Trainer, Pennsylvania	190,000
Krotz Springs, Louisiana	80,000	CHS INC	171,800
Delek Refining LTD		CHS McPherson Refinery Inc	
Tyler, Texas	75,000	McPherson, Kansas	109,800
Alon USA Energy Inc		Cenex Harvest States Coop	
Big Spring, Texas	73,000	Laurel, Montana	62,000

Table 5. Refiners' Total Operable Atmospheric Crude Oil Distillation Capacity as of January 1, 2020

CORPORATION / Refiner / Location	Barrels per Calendar Day	CORPORATION / Refiner / Location	Barrels per Calendar Day
Companies with Capacity 10,001 to 30,000 bbl/cd			
COUNTRYMARK COOP INC		GREKA ENERGY	
Countrymark Cooperative Inc		Santa Maria Refining Company	
Mount Vernon, Indiana	28,800	Santa Maria, California	9,500
KERN OIL & REFINING CO		WORLD OIL CO	
Kern Oil & Refining Co		Lunday Thagard Co	
Bakersfield, California	26,000	South Gate, California	8,500
PETROMAX REFINING CO LLC		MARTIN RESOURCE MGMT CORP	
Petromax Refining Co LLC		Cross Oil Refining & Marketing Inc	
Houston, Texas	25,000	Smackover, Arkansas	7,500
STARLIGHT RELATIVITY ACQUISITION CO		GOODWAY REFINING LLC	
The San Antonio Refinery LLC ^d		Goodway Refining LLC	
San Antonio, Texas	20,000	Atmore, Alabama	4,100
SILVER EAGLE REFINING INC		FORELAND REFINING CORP	
Silver Eagle Refining		Foreland Refining Corp	
Woods Cross, Utah	15,000	Ely, Nevada	2,000
Evanston, Wyoming	3,000	Total.....	31,600
CONOCOPHILLIPS CO		U.S. Total.....	
ConocoPhillips Alaska Inc			18,976,085
Prudhoe Bay, Alaska	15,000		
SAN JOAQUIN REFINING CO INC			
San Joaquin Refining Co Inc			
Bakersfield, California	15,000		
BLUE DOLPHIN ENERGY CO			
Lazarus Energy LLC			
Nixon, Texas	13,000		
AMERICAN REFINING GROUP INC			
American Refining Group Inc			
Bradford, Pennsylvania	11,000		
Total.....	171,800		
Companies with Capacity 10,000 bbl/cd or Less			

Table 5. Refiners' Total Operable Atmospheric Crude Oil Distillation Capacity as of January 1, 2020

CORPORATION / Refiner / Location	Barrels per Calendar Day	CORPORATION / Refiner / Location	Barrels per Calendar Day

a Formerly owned by Petrobras America Inc

b Flint Hills Resource LP, Corpus Christi East and Corpus Christi West started reporting as separate entities with the 2020 Refinery Capacity Report.

c Formerly owned by Trailstone LP

d Formerly owned by Calumet Specialty Products Partners, L.P.

Source: Energy Information Administration (EIA), Form EIA-820, "Annual Refinery Report."

Table 6. Operable Crude Oil and Downstream Charge Capacity of Petroleum Refineries, January 1, 1991 to January 1, 2020
(Thousand Barrels per Stream Day, Except Where Noted)

Year/PAD District	Atmospheric Crude Oil Distillation	Downstream Charge Capacity							
		Vacuum Distillation	Thermal Cracking	Catalytic Cracking		Catalytic Hydro- Cracking	Catalytic Reforming	Hydrotreating/ Desulfurization	Fuels Solvent Deasphalting
				Fresh	Recycled				
JAN 1, 1991	16,557	7,276	2,158	5,559	304	1,308	3,926	9,676	271
JAN 1, 1992	16,633	7,127	2,100	5,608	280	1,363	3,907	9,644	276
JAN 1, 1993	15,935	6,892	2,082	5,540	244	1,397	3,728	9,677	269
JAN 1, 1994	15,904	6,892	2,107	5,586	191	1,376	3,875	10,616	261
JAN 1, 1995	16,326	7,248	2,123	5,583	169	1,386	3,867	10,916	251
JAN 1, 1997	16,287	7,349	2,050	5,595	155	1,388	3,727	11,041	275
JAN 1, 1999	17,155	7,538	2,046	5,920	153	1,552	3,779	11,461	319
JAN 1, 2000	17,393	7,617	2,163	5,949	99	1,576	3,770	11,440	351
JAN 1, 2001	17,511	7,798	2,277	5,983	86	1,615	3,797	11,673	350
JAN 1, 2002	17,676	7,779	2,329	5,989	80	1,633	3,753	11,845	362
JAN 1, 2003	17,675	7,788	2,377	6,052	79	1,644	3,777	11,987	350
JAN 1, 2004	17,815	7,964	2,435	6,098	87	1,602	3,812	13,501	366
JAN 1, 2005	18,031	8,120	2,491	6,151	87	1,624	3,836	14,087	384
JAN 1, 2006	18,308	8,398	2,540	6,188	87	1,637	3,859	14,808	386
JAN 1, 2007	18,425	8,251	2,564	6,219	82	1,791	3,908	15,447	379
JAN 1, 2008	18,558	8,421	2,606	6,266	79	1,770	3,892	15,807	378
JAN 1, 2009	18,681	8,542	2,639	6,292	79	1,743	3,829	16,131	381
JAN 1, 2010	18,581	8,543	2,632	6,140	92	1,820	3,700	16,023	383
JAN 1, 2011	18,953	8,650	2,672	6,220	96	1,856	3,721	16,683	383
JAN 1, 2012	18,560	8,680	2,763	6,033	85	1,880	3,642	16,565	375
JAN 1, 2013	18,972	8,938	2,877	6,089	84	2,081	3,758	16,860	368
JAN 1, 2014	19,064	8,987	2,959	6,032	76	2,208	3,759	17,095	370
JAN 1, 2015	19,134	8,979	2,975	6,012	76	2,305	3,741	17,324	370
JAN 1, 2016	19,508	9,073	2,983	6,052	76	2,318	3,743	17,483	371
JAN 1, 2017	19,800	9,126	2,994	6,007	76	2,421	3,750	17,621	393
JAN 1, 2018	19,794	9,076	3,023	6,031	77	2,462	3,801	17,697	393
JAN 1, 2019	19,961	9,121	3,046	5,986	62	2,490	3,810	17,795	395
JAN 1, 2020	20,092	9,171	3,069	5,988	62	2,505	3,809	17,926	396
PADD I	1,291	554	82	498	5	45	269	1,063	22
PADD II	4,441	1,843	605	1,359	16	380	901	4,067	22
PADD III	10,592	4,876	1,681	3,080	22	1,433	1,936	9,554	265
PADD IV	750	277	88	221	2	60	128	604	6
PADD V	3,017	1,620	613	831	18	587	576	2,638	80
JAN 1, 2021^a	20,096	9,171	3,069	5,988	62	2,505	3,809	17,938	396
PADD I	1,291	554	82	498	5	45	269	1,063	22
PADD II	4,441	1,843	605	1,359	16	380	901	4,069	22
PADD III	10,595	4,876	1,681	3,080	22	1,433	1,936	9,564	265
PADD IV	751	277	88	221	2	60	128	604	6
PADD V	3,018	1,620	613	831	18	587	576	2,638	80
2020-2021^a	4	0	0	0	0	0	0	12	0
PADD I	0	0	0	0	0	0	0	0	0
PADD II	0	0	0	0	0	0	0	2	0
PADD III	3	0	0	0	0	0	0	10	0
PADD IV	1	0	0	0	0	0	0	0	0
PADD V	1	0	0	0	0	0	0	0	0

^a Projected data from refiners.

Notes:

NA = Not available.

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

The EIA-820 refinery capacity survey was not conducted for January 1, 1996 or January 1, 1998.

Source: Energy Information Administration (EIA), Form EIA-820, "Annual Refinery Report."

Table 7. Operable Production Capacity of Petroleum Refineries, January 1, 1991 to January 1, 2020

(Thousand Barrels per Stream Day, Except Where Noted)

Year/PAD District	Production Capacity							
	Alkylates	Aromatics	Asphalt and Road Oil	Isomers	Lubricants	Marketable Petroleum Coke	Hydrogen ^a (MMcfd)	Sulfur (short tons/day)
JAN 1, 1991	1,077	292	866	490	229	367	2,527	23,875
JAN 1, 1992	1,095	290	812	494	217	356	2,644	23,811
JAN 1, 1993	1,083	286	814	499	217	393	2,674	25,940
JAN 1, 1994	1,086	278	793	499	213	410	2,940	24,554
JAN 1, 1995	1,105	285	846	502	217	427	3,139	24,885
JAN 1, 1997	1,120	288	872	577	244	458	3,052	26,466
JAN 1, 1999	1,172	302	846	667	233	441	3,104	26,423
JAN 1, 2000	1,185	315	886	643	218	464	3,143	26,645
JAN 1, 2001	1,191	318	900	654	214	538	3,230	27,446
JAN 1, 2002	1,181	313	917	658	218	548	3,244	29,107
JAN 1, 2003	1,191	316	873	679	216	646	3,265	29,766
JAN 1, 2004	1,205	322	887	688	210	672	3,258	30,606
JAN 1, 2005	1,229	318	881	703	217	696	2,965	31,004
JAN 1, 2006	1,238	319	893	708	220	709	2,823	32,421
JAN 1, 2007	1,227	306	877	739	234	722	3,100	33,021
JAN 1, 2008	1,261	285	858	727	249	735	3,109	33,487
JAN 1, 2009	1,261	299	847	736	230	762	2,914	33,500
JAN 1, 2010	1,249	271	844	715	240	760	2,985	34,058
JAN 1, 2011	1,262	297	828	703	243	778	3,082	35,483
JAN 1, 2012	1,247	297	796	688	242	823	3,215	36,663
JAN 1, 2013	1,269	318	741	737	241	867	3,047	39,478
JAN 1, 2014	1,266	297	744	739	240	883	3,094	41,375
JAN 1, 2015	1,267	316	710	757	265	887	3,102	41,266
JAN 1, 2016	1,286	323	733	755	273	889	2,997	41,343
JAN 1, 2017	1,300	324	726	749	261	898	3,009	41,766
JAN 1, 2018	1,316	324	659	743	262	896	3,037	41,419
JAN 1, 2019	1,337	332	645	740	263	903	3,073	41,639
JAN 1, 2020	1,349	332	651	772	261	909	3,126	41,917
PADD I	67	10	44	23	21	21	84	1,150
PADD II	288	113	291	167	10	186	635	8,783
PADD III	694	208	179	341	190	498	742	25,171
PADD IV	49	0	83	16	0	28	232	1,027
PADD V	251	2	53	225	40	175	1,433	5,786
JAN 1, 2021^b	1,363	332	651	786	261	909	3,151	41,917
PADD I	67	10	44	23	21	21	109	1,150
PADD II	288	113	291	167	10	186	635	8,783
PADD III	708	208	179	355	190	498	742	25,171
PADD IV	49	0	83	16	0	28	232	1,027
PADD V	251	2	53	225	40	175	1,433	5,786
2020-2021^b	14	0	0	14	0	0	25	0
PADD I	0	0	0	0	0	0	25	0
PADD II	0	0	0	0	0	0	0	0
PADD III	14	0	0	14	0	0	0	0
PADD IV	0	0	0	0	0	0	0	0
PADD V	0	0	0	0	0	0	0	0

^a Includes hydrogen production capacity of hydrogen plants on refinery grounds.^b Projected data from refiners.

Notes:

NA = Not available. MMcfd = Million cubic feet per day.

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

The EIA-820 refinery capacity survey was not conducted for January 1, 1996 or January 1, 1998.

Source: Energy Information Administration (EIA), Form EIA-820, "Annual Refinery Report."

Table 8. Capacity and Fresh Feed Input to Selected Downstream Units at U.S. Refineries, 2018 - 2020
(Barrels per Calendar Day)

Year/PAD District	Cokers		Catalytic Crackers		Hydrocrackers		Reformers	
	Capacity	Inputs	Capacity	Inputs	Capacity	Inputs	Capacity	Inputs
2018	2,719,950	2,419,764	5,552,991	4,967,063	2,245,934	1,903,636	3,463,906	2,801,553
PADD I	74,900	56,647	442,800	367,674	41,500	31,975	237,600	186,164
PADD II	541,430	482,540	1,238,749	1,104,301	340,520	302,370	824,435	681,989
PADD III	1,499,920	1,349,175	2,850,087	2,603,304	1,277,749	1,062,230	1,769,985	1,436,633
PADD IV	84,300	64,397	202,555	166,277	57,325	22,400	119,880	91,833
PADD V	519,400	467,005	818,800	725,507	528,840	484,660	512,006	404,934
2019	2,762,557	2,294,381	5,577,090	4,707,290	2,284,833	1,809,964	3,487,295	2,774,753
PADD I	74,900	41,148	466,100	320,384	41,500	34,416	243,500	161,910
PADD II	549,505	470,655	1,249,347	1,062,866	342,020	293,104	828,328	681,321
PADD III	1,506,262	1,288,805	2,884,088	2,493,230	1,318,588	999,079	1,769,030	1,436,751
PADD IV	85,300	62,759	204,255	167,696	57,325	25,847	119,140	98,849
PADD V	546,590	431,014	773,300	663,115	525,400	457,518	527,297	395,923
2020	2,793,506	NA	5,573,398	NA	2,296,131	NA	3,509,171	NA
PADD I	74,900	NA	466,100	NA	41,500	NA	243,750	NA
PADD II	554,035	NA	1,253,114	NA	346,420	NA	834,520	NA
PADD III	1,530,321	NA	2,872,679	NA	1,322,786	NA	1,783,450	NA
PADD IV	81,750	NA	204,905	NA	52,125	NA	118,960	NA
PADD V	552,500	NA	776,600	NA	533,300	NA	528,491	NA

NA = Not Available.

Note: Capacities are as of January 1 of the indicated year.

Sources: Capacities are from the Energy Information Administration (EIA) Form EIA-820, "Annual Refinery Report."

Inputs are from the form EIA-810, "Monthly Refinery Report." Year 2018 data is final, 2019 data is preliminary.

Table 9. Refinery Receipts of Crude Oil by Method of Transportation by PAD District, 2019^a

(Thousand Barrels)

Method	PAD Districts					United States
	I	II	III	IV	V	
Pipeline	27,221	1,371,313	2,552,374	186,408	298,828	4,436,144
Domestic	4,718	710,499	2,188,117	88,678	185,020	3,177,032
Foreign	22,503	660,814	364,257	97,730	113,808	1,259,112
Tanker	243,556	0	533,688	0	503,850	1,281,094
Domestic	35,389	0	31,794	0	165,488	232,671
Foreign	208,167	0	501,894	0	338,362	1,048,423
Barge	3,753	14,072	171,100	0	28,685	217,610
Domestic	3,753	14,072	135,932	0	467	154,224
Foreign	0	0	35,168	0	28,218	63,386
Tank Cars (Rail)	51,280	0	7,406	18	64,868	123,572
Domestic	31,887	0	1,280	18	59,432	92,617
Foreign	19,393	0	6,126	0	5,436	30,955
Trucks	1,847	7,713	45,342	43,786	8,157	106,845
Domestic	1,762	7,713	45,342	43,786	8,157	106,760
Foreign	85	0	0	0	0	85
Total	327,657	1,393,098	3,309,910	230,212	904,388	6,165,265
Domestic	77,509	732,284	2,402,465	132,482	418,564	3,763,304
Foreign	250,148	660,814	907,445	97,730	485,824	2,401,961

^a

Receipts are reported by the last method of transportation used if the distance traveled is greater than 100 miles. If several methods are used and none are greater than 100 miles, the method which represents the greatest distance traveled is reported. For example, if crude oil traveled by rail for 1,500 miles and then by barge for 120 miles, then the reported mode of transportation would be barge rather than rail.

Source: Energy Information Administration (EIA), Form EIA-820, "Annual Refinery Report."

Table 10a. Fuel Consumed at Refineries by PAD District, 2019
(Thousand Barrels, Except Where Noted)

Commodity	PAD Districts					United States
	I	II	III	IV	V	
Crude Oil	0	0	0	0	0	0
Hydrocarbon Gas Liquids	10	1,107	430	99	532	2,178
Distillate Fuel Oil	0	46	183	13	132	374
Residual Fuel Oil	5	20	1	0	0	26
Still Gas	15,469	51,955	112,882	8,010	44,000	232,316
Marketable Petroleum Coke	0	0	0	560	0	560
Catalyst Petroleum Coke	6,420	16,952	42,232	2,725	12,207	80,536
Natural Gas (million cubic feet)	58,688	168,366	495,521	29,465	187,889	939,929
Coal (thousand short tons)	0	0	0	0	0	0
Purchased Electricity (million kWh)	2,205	12,905	25,312	2,544	4,174	47,140
Purchased Steam (million pounds)	6,246	11,110	86,227	1,391	12,823	117,797
Other Products ^a	105	40	418	3	328	894

Note: Includes volumes used as fuel at refineries and all nonprocessing losses of crude oil and petroleum products (e.g., spills, fire losses, contamination, etc.)

^a Includes other hydrocarbons, hydrogen, unfinished oils, gasoline, special naphthas, jet fuel, lubricants, asphalt and road oil, and miscellaneous products.

Source: Energy Information Administration (EIA), Form EIA-820, "Annual Refinery Report," and Form EIA-810, "Monthly Refinery Report."

Table 10b. Natural Gas Used as Feedstock for Hydrogen Production by PAD District, 2019
(Million Cubic Feet)

Commodity	PAD Districts					United States
	I	II	III	IV	V	
Natural Gas Used As Feedstock For Hydrogen Production	5,605	49,188	59,847	17,496	66,914	199,050

Source: Energy Information Administration (EIA), Form EIA-820, "Annual Refinery Report".

Table 11. New, Shutdown and Reactivated Refineries During 2019

PAD District / Refinery	Location	Total Atmospheric Crude Oil Distillation Capacity (bbl/cd) ^a	Total Downstream Charge Capacity (bbl/sd) ^b	Date Operable	Date of Last Operation	Date Shutdown
REACTIVATED						
PAD District VI		176,400				
Limetree Bay Refining LLC	Kingshill, VI	176,400		01/20		
SHUTDOWN						
PAD District II		5,500	3,600			
Continental Refining Company LLC	Somerset, KY	5,500	3,600		02/18	12/19
OTHER						
PAD District III		338,500				
^c Flint Hills Resources LP	Corpus Christi West, TX	265,000				
^c Flint Hills Resources LP	Corpus Christi East, TX	73,500				

^a bbl/cd=Barrels per calendar day.

^b bbl/sd=Barrels per stream day.

^c Flint Hills Resource LP, Corpus Christi East and Corpus Christi West started reporting as separate entities with the 2020 Refinery Capacity Report.

Table 12. Refinery Sales During 2019

Former Corporation/Refiner	Total Atmospheric Crude Oil Distillation Capacity (bbl/cd)	New Corporation/Refiner	Date of Sale
Trailstone LP/U.S. Oil & Refining Co		Par Pacific Holdings/U.S. Oil & Refining Co	1/19
Tacoma, WA	40,700		
Petrobras America Inc/Pasadena Refining Systems Inc		Chevron Corp/Pasadena Refining Systems Inc	5/19
Pasadena, TX	112,229		
Calumet Specialty Product Partners, L.P./Calumet San Antonio Refining LLC		Starlight Relativity Acquisition Co/The San Antonio Refinery LLC	11/19
San Antonio, TX	20,000		

bbl/cd= Barrels per calendar day

Sources: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report" and Form EIA-820, "Annual Refinery Report."

Table 13. Refineries Permanently Shutdown By PAD District Between January 1, 1991 and January 1, 2020

PAD District / Refinery	Location	Total Atmospheric Crude Oil Distillation Capacity (bbl/cd)	Total Downstream Charge Capacity (bbl/sd)	Date of Last Operation	Date Shutdown
PAD District I		644,450	975,900		
Primary Energy Corp	Richmond, VA	6,100	0	a	
GNC Energy Corp	Greensboro, NC	3,000	0	a	
Saint Mary's Refining Co	Saint Mary's, WV	4,000	4,480	02/93	03/93
Cibro Refining	Albany, NY	41,850	27,000	07/93	09/93
Calumet Lubricants Co LP	Rouseville, PA	12,800	26,820	03/00	06/00
Young Refining Corp.	Douglasville, GA	5,400	0	07/04	07/04
Sunoco Inc	Westville, NJ	145,000	263,000	11/09	02/10
Western Refining Yorktown Inc	Yorktown, VA	66,300	182,600	09/11	12/11
Sunoco Inc	Marcus Hook, PA	178,000	278,000	12/11	12/11
Chevron USA Inc	Perth Amboy, NJ	80,000	47,000	03/08	07/12
Hess Corporation	Port Reading, NJ	0	115,000	02/13	03/13
Axeon Specialty Products LLC	Savannah, GA	28,000	0	09/12	12/14
Axeon Specialty Products LLC	Paulsboro, NJ	74,000	32,000	04/17	06/17
PAD District II		477,815	661,290		
Coastal Refining & Mktg	El Dorado, KS	0	20,000	b	
Intercoastal Energy Svcs Corp	Troy, IN	1,250	2,250	11/90	03/91
Farmland Industries	Philipsburg, KS	26,400	22,800	12/91	07/92
Coastal Refining & Mktg	Wichita, KS	28,800	41,300	05/93	06/93
Coastal Refining & Mktg	Augusta, KS	0	21,000	06/93	06/93
Crystal Refining	Carson City, MI	3,000	0	10/92	09/93
Marathon	Indianapolis, IN	50,000	68,000	09/93	10/93
Indian Refining	Lawrenceville, IL	80,750	103,000	09/95	10/95
Cyril Petrochemical Corp	Cyril, OK	7,500	0	09/95	12/95
Laketon Refining	Laketon, IN	11,100	0	06/95	01/96
Total Petroleum, Inc.	Arkansas City, KS	56,000	74,840	08/96	09/96
TPI Petro Inc.	Alma, MI	51,000	63,300	11/99	12/99
Premcor Refining Group	Blue Island, IL	80,515	124,500	01/01	04/01
Premcor Refining Group	Hartford, IL	64,000	116,700	09/02	10/02
Ventura Refining & Transmission LLC	Thomas, OK	12,000	0	10/10	11/14
Continental Refining Company LLC	Somerset, KY	5,500	3,600	02/18	12/19

Table 13. Refineries Permanently Shutdown By PAD District Between January 1, 1991 and January 1, 2020

PAD District / Refinery	Location	Total Atmospheric Crude Oil Distillation Capacity (bbl/cd)	Total Downstream Charge Capacity (bbl/sd)	Date of Last Operation	Date Shutdown
PAD District III		344,480	351,900		
Imron Refining, Inc.	San Leon, TX	7,000	0	c	08/90
Eagle Refining	Jackson, TX	1,800	1,800	01/90	10/90
Vulcan Refining	Cordova, AL	9,500	5,000	09/90	12/90
Sabine Resources	Stonewall, LA	12,000	0	c	02/92
Rattlesnake Refining	Wickett, TX	8,000	10,400	02/92	03/92
Longview Refining Assoc	Longview, TX	13,300	13,800	08/92	09/92
Thriftway Co	Bloomfield, NM	4,000	3,250	01/92	10/92
El Paso Refining	El Paso, TX	50,000	76,000	10/92	12/92
Dubach Gas	Dubach, LA	8,500	3,000	12/93	12/93
Amerada Hess	Purvis, MS	30,000	50,500	01/94	02/94
Barrett Refg Corp	Vicksburg, MS	8,000	0	06/95	01/96
Arcadia Refining & Mktg	Lisbon, LA	7,350	6,700	01/96	02/96
Canal Refg Co.	Chuch Point, LA	9,500	2,100	07/95	09/97
Gold Line Refining LTD	Jennings, LA	12,000	0	07/97	01/98
Petrolite Corp	Kilgore, TX	600	750	12/97	02/98
Pride Refining Inc.	Abilene, TX	42,750	40,500	05/98	04/98
Shell Oil Co	Odessa, TX	28,300	33,500	10/98	11/98
Berry Petroleum Co.	Stephens, AR	6,700	3,700	07/99	02/00
Dow Haltermann Products	Channelview, TX	880	0	09/04	12/05
Hunt Southland Refining Co	Lumberton, MS	5,800	0	03/05	12/06
Gulf Atlantic Operations LLC	Mobile, AL	16,700	15,400	03/06	09/07
Western Refining Southwest Inc	Bloomfield, NM	16,800	19,500	12/09	11/12
Trigeant LTD	Corpus Christi, TX	0	29,000	12/13	12/14
Pelican Refining Company LLC	Lake Charles, LA	0	12,000	12/14	01/15
Shell Oil Products US	Saint Rose, LA	45,000	25,000	01/18	01/18
PAD District IV		61,800	83,700		
Amoco Oil Co.	Casper, WY	40,000	44,900	12/91	12/91
Landmark Refining	Fruita, CO	10,000	25,900	01/92	11/93
Pennzoil Producing Co.	Roosevelt, UT	8,000	12,900	09/94	10/94
Antelope Refining LLC	Douglas, WY	3,800	0	02/15	12/16

Table 13. Refineries Permanently Shutdown By PAD District Between January 1, 1991 and January 1, 2020

PAD District / Refinery	Location	Total Atmospheric Crude Oil Distillation Capacity (bbl/cd)	Total Downstream Charge Capacity (bbl/sd)	Date of Last Operation	Date Shutdown
PAD District V		494,860	505,350		
Gibson Oil & Refining	Bakersfield, CA	9,600	0	07/87	12/90
Chevron USA Inc	Kenai, AK	22,000	0	06/91	07/91
Anchor Refining Co.	McKittrick, CA	10,000	6,000	06/91	08/91
Golden West	Santa Fe Springs, CA	47,000	94,300	02/92	03/92
Eco Asphalt Inc.	Long Beach, CA	10,550	7,000	c	10/92
Fletcher Oil & Refining	Carson, CA	29,675	48,100	09/92	10/92
Sunbelt Refining	Coolidge, AZ	10,000	7,000	08/93	09/93
Chemoil Refining Corp	Long Beach, CA	18,000	0	02/94	04/94
Powerine Oil Co.	Santa Fe Springs, CA	46,500	100,300	06/95	09/95
Sunland Refining Corp.	Bakersfield, CA	12,000	2,650	03/95	12/95
Intermountain Refining Co.	Fredonia, AZ	3,800	2,000	01/94	05/96
Pacific Refining Co.	Hercules, CA	50,000	62,400	07/95	09/97
Sound Refining Inc	Tacoma, WA	11,900	6,000	10/98	12/98
Chevron USA Inc.	Richmond Beach, WA	0	6,200	05/00	06/00
Foreland Refining Corp.	Tonopah, NV	0	3,000	02/01	01/02
Tricor Refining LLC	Bakersfield, CA	0	14,400	07/01	01/02
Paramount Petroleum Corporation	Portland, OR	0	10,000	11/06	12/08
Tenby Inc	Oxnard, CA	2,800	0	12/11	12/11
Flint Hills Resources LP	North Pole, AK	126,535	5,500	a	06/14
Alon Bakersfield Operating Inc	Bakersfield, CA	0	52,000	12/08	09/17
Paramount Petroleum Corporation	Paramount, CA	84,500	78,500	10/12	09/17
U.S. Total		2,023,405	2,578,140		

Table 13. Refineries Permanently Shutdown By PAD District Between January 1, 1991 and January 1, 2020

PAD District / Refinery	Location	Total Atmospheric Crude Oil Distillation Capacity (bbl/cd)	Total Downstream Charge Capacity (bbl/sd)	Date of Last Operation	Date Shutdown
PAD District VI		204,300	327,200		
Arochem International	Ponce, PR	75,600	37,000	12/91	12/92
Peerless Oil & Chemical	Ponce, PR	8,800	45,200	09/94	12/94
Chevron Phillips Chem	Guayama, PR	0	93,200	03/01	01/02
Caribbean Petroleum Corp	San Juan, PR	42,000	60,500	12/00	01/05
Shell Chem Yabucoa Inc	Yabucoa, PR	77,900	91,300	10/08	12/09

a. Facility in operation as other than a refinery since it no longer processes crude oil or unfinished oils.

b. Facility maintained asphalt production capacity until September, 2004.

c. Never Operated

bbl/cd=Barrels per calendar day

bbl/sd=Barrels per stream day.

Sources: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report" and Form EIA-820, "Annual Refinery Report."

Explanatory Notes

Survey Methodology

Description of Survey Form

The Form EIA-820, “Annual Refinery Report,” is the primary source of data in the “Refinery Capacity Report” tables. The form collects data on the consumption of purchased steam, electricity, coal, and natural gas; refinery receipts of crude oil by method of transportation; operable capacity for atmospheric crude oil distillation units and downstream units; and production capacity for crude oil and petroleum products.

Frame

The respondent frame consists of all operating and idle petroleum refineries, located in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, Guam and other U.S. possessions. As of January 1, 2020 there were 136 refineries.

The respondent frame is maintained by monitoring the monthly Form EIA-810, “Monthly Refinery Report,” and industry publications for changes and developments in the petroleum industry such as refinery sales, mergers and new operations.

Collection

The Form EIA-820 is sent to respondents in January. Survey forms can be submitted by electronic mail or facsimile. Completed forms are required to be submitted by the 15th day of February of the current report year. Receipt of the reports is monitored using an automated respondent mailing list. Telephone follow-up calls are made to secure responses from those companies failing to report by February 15th.

Processing and Micro Editing

Upon receipt, all reported data are transformed into a standard format and sent through a log-in and prescreening process to validate respondent control information and resolve any discrepancies. The data are then processed using generalized edit and imputation procedures. Automated editing procedures check current data for consistency with past data and for internal consistency (e.g., totals equal to the sums of the parts).

After the edit failures are resolved and imputation performed for nonrespondents, preliminary tables are produced and used to identify anomalies. Anomalies result in further review of respondent data which in turn may result in additional flagged data and imputation.

Imputation and Estimation

Imputation is performed for companies that fail to file prior to the publication deadline. When nonresponse occurs, values for these companies are imputed from data reported on the most recent year’s Form EIA-820 and/or from data reported on Form EIA-810, “Monthly Refinery Report,” for that company. For most surveyed items, the value imputed for nonrespondents is the value that the company reported on the Form EIA-820 for the most recent year. For three categories of information however, the imputed value is also based on their data from the Form EIA-810 as follows:

Part 4: Refinery Receipts of Crude Oil by Method of Transportation

The imputation methodology for this section is based on data reported on both the monthly Form EIA-810 and the annual Form EIA-820. Annual refinery receipts of domestic and foreign crude oil for a nonrespondent are imputed by aggregating the values for the refinery on the monthly survey. These values are allocated to the method of transportation by using the percentages reported for the refinery in the previous year.

Part 5: Atmospheric Crude Oil Distillation Capacity

Operable atmospheric crude oil distillation capacity in barrels per calendar day is collected on the monthly Form EIA-810 as of the first day of each month and on the annual Form EIA-820 as of January 1. As part of the editing process for the Form EIA-820, these two values are compared. Companies are contacted and any discrepancies are resolved by the time of publication. Imputed values for operable atmospheric crude oil distillation capacity in barrels per calendar day are taken directly from the January Form EIA-810. A barrel per stream day capacity is then derived by dividing the reported barrels per calendar day capacity by .95.

Parts 6 and 7: Downstream Charge Capacity and Production Capacity

Current year and projected year data for downstream charge capacity and production capacity are taken directly from the previous year's annual report.

Macro Editing

A comparison of the data collected on the EIA-820 with other similar data series and industry trade journals is performed each year.

Dissemination

Prior to 2006, the data collected on Form EIA-820, "Annual Refinery Report," was published in the *Petroleum Supply Annual, Volume 1*. Beginning with data for 2006, the Form EIA-820 data are published as a standalone product in the EIA publication "Refinery Capacity Report." This report contains statistics on consumption of purchased steam, electricity, coal, and natural gas; refinery receipts of crude oil by method of transportation; current and projected capacities for atmospheric crude oil distillation, downstream charge and production capacities. The data are also published in the *Annual Energy Review*. The "Refinery Capacity Report" can be found at:

<http://www.eia.gov/petroleum/refinerycapacity/>

Additional Sources of Data

The Form EIA-820, "Annual Refinery Report," is the primary source of data in the "Refinery Capacity Report" tables. In addition, some data collected on the Form EIA-810, "Monthly Refinery Report," are included.

Quality

Response Rates

The response rate for the Form EIA-820 is normally 100 percent.

Non-sampling Errors

There are two types of errors usually associated with data produced from a survey -sampling errors and nonsampling errors. Because estimates from the Form

EIA-820 survey are based on a complete census of the frame of petroleum refineries, there is no sampling error in the data presented in this report. The data, however, are subject to nonsampling errors. Nonsampling errors are those which can arise from: (1) the inability to obtain data from all companies in the frame or sample (nonresponse) and the method used to account for nonresponses; (2) definitional difficulties and/or improperly worded questions which lead to different interpretations; (3) mistakes in recording or coding the data obtained from respondents; and (4) other errors of collection, response, coverage, and estimation. Quality control procedures are employed in the collection and editing operations to minimize misrepresentation and misreporting. Nonresponse follow-up procedures are employed to reduce the number of nonrespondents, and procedures employed to impute missing data, introduce a minimal amount of error, given the relatively small volume of imputed data.

Resubmissions

EIA-820 resubmissions are required whenever an error greater than 5 percent of the true value is discovered. In the event of a reporting error, company reports are updated after contact with the company and are followed up by corrected report resubmissions.

Revision Policy

The "Refinery Capacity Report" reflects EIA's final data on refinery capacity and will be revised only if, in EIA's judgment, a revision is expected to substantively affect understanding of the U.S. refinery capacity.

Confidentiality

Information on operable atmospheric crude oil distillation capacity, downstream charge capacity, and production capacity reported on Parts 5, 6, and 7 of Form EIA-820 are not considered confidential and are published in the "Refinery Capacity Report." All other information reported on Form EIA-820 (i.e. Parts 3 and 4 and respondent information) will be protected and not disclosed to the public to the extent that it satisfies the criteria for exemption under the Freedom of Information Act (FOIA), 5 U.S.C. §552, the DOE regulations, 10 C.F.R. §1004.11, implementing the FOIA, and the Trade Secrets Act, 18 U.S.C. §1905.

The Federal Energy Administration Act requires the EIA to provide company-specific data to other Federal agencies when requested for official use. The information reported on this form may also be made available, upon request, to another component of the Department of Energy (DOE); to any Committee of Congress, the General Accountability Office, or other Federal agencies authorized by law to receive such information. A court of competent jurisdiction may obtain this information in response to an order. The information may be used for any nonstatistical purposes such as administrative, regulatory, law enforcement, or adjudicatory purposes.

Company specific data are also provided to other DOE offices for the purpose of examining specific petroleum operations in the context of emergency response planning and actual emergencies.

Disclosure limitation procedures are not applied to the statistical data published from this survey's information. Thus, there may be some statistics that are based on data from fewer than three respondents, or that are dominated by data from one or two large respondents. In these cases, it may be possible for a knowledgeable person to estimate the information reported by a specific respondent.

Refinery Capacity History

Refinery capacity data collection was begun in 1918 by the Bureau of Mines, then in the Department of Commerce, and was operated on a voluntary basis until 1980. In 1980, the mandatory Energy Information Administration (EIA) Form EIA-177, "Capacity of Petroleum Refineries," was implemented. Information on refining capacity was expanded to include not only current year operations, but two-year projections, and refinery input/production data. Working storage capacity data was also added to the form and product categories were added for total coverage. Information on refinery downstream facilities was expanded to include a breakdown of thermal operations and to add vacuum distillation, catalytic hydrorefining and hydrotreating. Production capacity was also added to include information on isomerization, alkylation, aromatics, asphalt/road oil, coking, lubricants and hydrogen.

In 1983, the form was revised to improve the consistency and quality of the data collected by the EIA and redesignated as Form EIA-820, "Annual Refinery

Report." Two sections for data previously reported monthly were added: (1) refinery receipts of crude oil by method of transportation, and (2) fuels consumed for all purposes at refineries. Also, the second year projections on refining capacity were eliminated. As a result of a study conducted by the EIA evaluating motor gasoline data collected by the Federal Highway Administration (FHWA) and by the EIA, motor gasoline blending plants were included for the first time in the respondent frame in order to produce more accurate statistics on the production of motor gasoline.

In 1987, the form was revised to reduce respondent burden and to better reflect current refinery operations through updated terminology. Information on projected input/production of refinery processing facilities was deleted. Several categories under catalytic hydrotreating were combined: naphtha and reformer feeds were combined into a single category as well as residual fuel oil and "other." Thermal cracking types, gas oil and "other" were also combined into a single category. Catalytic reforming types, conventional and bi-metallic were replaced with low and high pressure processing units. Two new categories were added: fuels solvent deasphalting was added to downstream charge capacity and sulfur recovery was added to production capacity.

In 1994, the form was revised to enable EIA to calculate utilization rates for certain downstream processing units and to reflect storage capacity of fuels mandated by the Clean Air Act Amendments of 1990. Additions to the form included calendar day downstream charge capacity for fluid and delayed coking, catalytic cracking, and catalytic hydrocracking. Also storage capacity categories for reformulated, oxygenated, and other finished motor gasoline were added, as well as oxygenate storage capacity and separate categories for high and low sulfur distillate fuel oil.

In 1995, motor gasoline blending plants were dropped from the survey frame, since by this time, the only section of the form that applied to them was working and shell storage capacity. Also in 1995, a decision was made to no longer collect storage capacity from shutdown refineries; therefore, these refineries were also eliminated from the survey frame.

In 1996, the survey was moved to a biennial schedule (every other year) and was renamed "Biennial Refinery Report." The survey was not conducted for January 1, 1996 or January 1, 1998. Respondents were not required

to submit data for crude oil and petroleum products consumed at refineries during 1995 and 1997. These data are available from the Form EIA-810, "Monthly Refinery Report." The requirement to submit data for refinery consumption of natural gas, coal, and purchased steam and electricity on the Form EIA-820 remained.

In 2000, the survey was moved to an annual schedule.

In 2004, the survey form was amended to reflect the increasing emphasis on the removal of sulfur from transportation fuels.

In 2009, natural gas used as feedstock for hydrogen plant production was added to the form. Also, isooctane production capacity was added.

In 2010, the survey form was amended to reflect the increasing use of bio-fuels. Storage capacities of biomass-based diesel fuel, other renewable diesel fuel and other renewable fuels were added to the form. Also, barrels per calendar day capacity of the catalytic reformer was added; previously this was only collected on a stream day basis.

In 2011, storage capacity data was removed from the form. Storage capacity is now being collected as of March 31 on the Form EIA-810, "Monthly Refinery Report."