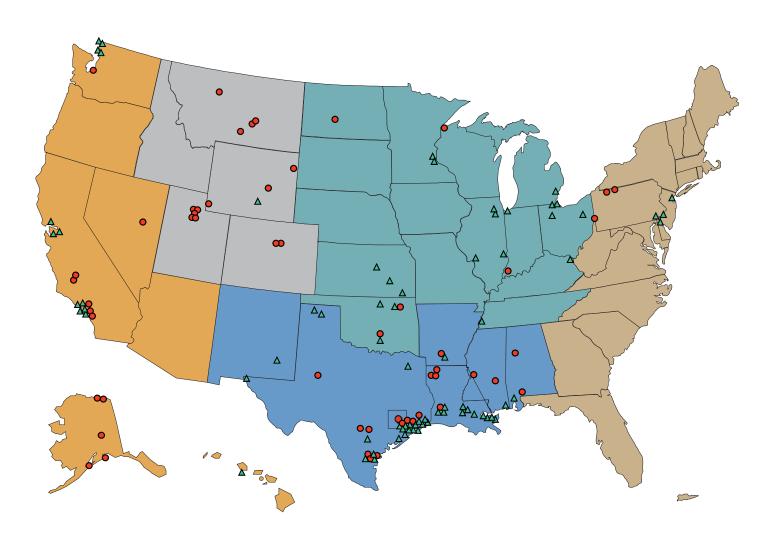


AFPM United States Refining Capacity Report

January 1, 2025 Published August 2025





Summary

The enclosed statistics provide U.S. refining capacity data as reported by the Energy Information Administration (EIA) in its 2025 Refinery Capacity Report. These data, along with other EIA statistics, are also available online (See the note at the bottom for details). This report is also available on the AFPM website (www.afpm.org) located within the Data & Reports dropdown menu at the top of the webpage by clicking the Data & Statistics link.

As of January 1, 2025, there were 132 operable refineries in the United States with atmospheric crude distillation capacity of 18.4 million barrels per calendar day (bbl/cd). Since the start of this year, operable capacity has decreased by 263,776 bbl/cd to 18.2 million bbl/cd with the shutdown of the LyondellBasell Houston Refining complex in the first quarter of 2025.

Details

According to the 2025 Refinery Capacity Report as of January 1, 2025, the United States had 132 operable refineries with total atmospheric crude distillation capacity of 18.4 million bbl/cd. Of the 132 operable refineries, 126 have atmospheric crude distillation capacity, and 6 do not but do produce petroleum product blending components. Of the 132 operable refineries, as of January 1, 2025, 131 were operating with crude distillation capacity of 18.4 million bbl/cd.

The EIA count of operable refineries did not change from January 1, 2024, to January 1, 2025. However, one refinery that operated in 2024 closed, and EIA added one facility. The Phillips 66 San Franciso (Rodeo) refinery ceased operating in 2024 following conversion of the refinery complex to a renewable fuels production facility. EIA added Pasadena Performance Products LLC. Pasadena Performance Products is a standalone alkylation unit in Pasadena, Texas that reached steady-state operations in 2024.

The CPI Operations, LLC facility in Paulsboro, New Jersey, which was restarted in late 2023, was idled in 2024.

As noted, the EIA refinery survey includes 6 facilities that do not have crude distillation capacity but do produce petroleum product blending components. Prior to 2024, EIA included such facilities in the refinery survey only if they were operated by petroleum refiners. In 2024, EIA expanded the refinery survey to include non-petroleum refinery operators of distillation, reforming, cracking, coking, hydrotreating and similar units that produce petroleum products or blending components.

The 6 facilities include 3 facilities not operated by petroleum refiners, two natural gasoline hydrotreaters, both located in Mont Belvieu, Texas, one owned by Targa Downstream and the other by Enterprise Products, and both added in 2024. As noted earlier, EIA added Pasadena Performance Products in 2025. The EIA count of refineries includes 3 other facilities owned by refiners that do not have crude oil distillation capacity: Equistar Chemical's alkylation unit in Channelview, Texas, Trecora Hydrocarbons' specialty chemical processing facility in Silsbee, Texas, and Excel Paralubes' lubricant production facility in Westlake, Louisiana.

Total U.S. crude distillation capacity increased as of January 1, 2025, for the third consecutive year. Net capacity increased by ~39,300 bbl/cd to 18.4 million bbl/cd. The net increase includes small decreases in individual refinery capacities totaling 38,200 bbl/cd, small increases in individual refinery capacities, totaling 135,700 bbl/cd, and the closure of the 58,200 bbl/cd Phillips 66 Rodeo refinery.

In February of 2025, the Lyondell Basell Houston Refining complex was closed. As a result, the count of U.S. operable refineries has decreased to 131, and U.S. atmospheric crude distillation capacity has decreased by 263,776 bbl/cd to 18.2 million bbl/cd.

In addition, Phillips 66 has announced plans to close its 138,700 bbl/cd Wilmington refinery in the Los Angeles area by the end of 2025, and Valero has announced plans to close its 145,000 bbl/cd Benicia refinery in the San Francisco Bay Area by April 2026.

January 1 - Total Operable Capacity in Thousands of Barrels Per Calendar Day

	2021	2022	2023	2024	2025
U.S. Capacity	18,127	17,944	18,060	18,384	18,423

Percentage Change in U.S. Operable Capacity from Previous Year

2021	2022	2023	2024	2025
-4.47%	-1.01%	0.65%	1.79%	0.21%

Changes in 2024 U.S. Refinery Capacity in Thousands of Barrels Per Calendar Day

	2025 E I A Refinery Capacity Report	Year-on-Year Changes in Refinery Capacity	Capacity Changes since Jan 1, 2025	Current Refinery Capacity	Changes B/W now and End 2025	Refinery Capacity end 2025
PADD1	911,800	2,000	0	911,800	0	911,800
PADD 2	4,247,755	2,093	0	4,247,755	0	4,247,755
PADD 3	10,062,653	75,622	-263,776	9,798,877	0	9,798,877
PADD 4	643,714	-8,450	0	643,714	0	643,714
PADD 5	2,557,571	-32,000	0	2,557,571	-138,700	2,418,871
Total	18,423,493	39,265	-263,776	18,159,717	-138,700	18,021,017

This summary of refineries in the United States and U.S. territories is taken from EIA's 2025 Refinery Capacity report published June 20, 2025.

Capacity data are reproduced by AFPM as a courtesy to members. The data enclosed, as well as other EIA refining statistics, are available online from EIA (www.eia.gov). For more information, call EIA's automated information line at 202.586.8800 or email them at InfoCtr@eia.gov.

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Table 1. Number and Capacity of Operable Petroleum Refineries by PAD District and State as of January 1, 2025

		Number of			Atmospheric Crude Oil Distillation Capacity						
PAD District and	Ol	perable Refinerie	s		Barrels per Calendar Day			Barrels per Stream Day			
State	Total	Operating	ldle ^a	Total	Operating	ldle b	Total	Operating	ldle b		
PAD District I	8	7	1	911,800	819,800	92,000	965,935	869,935	96,000		
De l aware	1	1	0	171,000	171,000	0	180,000	180,000	0		
New Jersey	3	2	1	450,500	358,500	92,000	473,135	377,135	96,000		
Pennsylvania	3	3	0	268,000	268,000	0	289,800	289,800	(
West Virginia	1	1	0	22,300	22,300	0	23,000	23,000	C		
PAD District II	25	25	0	4,247,755	4,247,755	0	4,502,986	4,502,986	0		
Illinois	4	4	0	1,050,023	1,050,023	0	1,123,139	1,123,139	C		
Indiana	2	2	0	469,500	469,500	0	475,800	475,800	(
Kansas		3	0	408,200	408,200	0	418,100	418,100	(
Kentucky		1	0	300,000	300,000	0	316,000	316,000	C		
Michigan		1	0	144,000	144,000	0	152,000	152,000	(
Minnesota		2	0	440,000	440,000	0	486,000	486,000	(
North Dakota		1	0	71,000	71,000	0	75,500	75,500	(
Ohio		4	0	606,600	606,600	0	630,000	630,000	(
Ok l ahoma		5	0	532,500	532,500	0	571,447	571,447			
Tennessee		1	0	180.000	180.000	0	205,000	205,000	(
Wisconsin		1	0	45,932	45,932	0	50,000	50,000	(
PAD District III		59	0	10,062,653	10,062,653	0	10,648,791	10,648,791	0		
Alabama		3	0	142,100	142,100	0	148,700	148,700	C		
Arkansas		2	0	90,500	90,500	0	92,700	92,700	(
Louisiana		15	0	2,982,647	2,982,647	0	3,154,471	3,154,471	(
Mississippi		3	0	393,940	393,940	0	415,000	415,000	(
• • • • • • • • • • • • • • • • • • • •		3 1	0	110,000	110,000	0	124,000	124,000	(
New Mexico Texas		35	0	6,343,466	6,343,466	0	6,713,920	6,713,920	(
									(
PAD District IV		15	0	643,714	643,714	0	699,375	699,375			
Colorado		2	0	103,000	103,000	0	111,700	111,700	(
Montana		4	0	205,000	205,000	0	216,875	216,875	(
Utah		5	0	208,714	208,714	0	223,200	223,200	C		
Wyoming	4	4	0	127,000	127,000	0	147,600	147,600	(
PAD District V	25	25	0	2,557,571	2,557,571	0	2,676,955	2,676,955	(
Alaska	5	5	0	176,000	176,000	0	186,000	186,000	C		
Ca l ifornia	13	13	0	1,637,871	1,637,871	0	1,718,900	1,718,900	(
Hawaii	1	1	0	93,500	93,500	0	95,000	95,000	C		
Nevada	1	1	0	2,000	2,000	0	5,000	5,000	C		
Washington	5	5	0	648,200	648,200	0	672,055	672,055	(
J.S. Total	132	131	1	18,423,493	18,331,493	92,000	19,494,042	19,398,042	96,000		

Table 1. Number and Capacity of Operable Petroleum Refineries by PAD District and State as of January 1, 2025

			Dow	nstream Charge	Capacity (Barrel	s per Stream Day)		
PAD District and State	Vacuum Distillation	Thermal Cracking	Catalytic Fresh	Cracking Recycled	Catalytic Hydro- Cracking	Catalytic Reforming	Hydrotreating/ Desulfurization	Fuels Solvent Deasphalting
PAD District I	391,200	54,500	305,000	5,000	47,000	182,939	777,941	22,000
Delaware	104,600	54,500	82,000	4,000	24,000	43,000	180,300	0
New Jersey	·	0	145,000	0	0	69,039	321,241	22,000
Pennsylvania	•	0	78,000	1,000	23,000	66,200	252,300	0
West Virginia		0	0	0	0	4,700	24,100	0
PAD District II	1,870,662	603,010	1,363,758	8,800	368,770	908,738	4,214,816	19,000
Illinois	503,560	207,910	327,300	0	107,770	252,330	991,249	0
Indiana	· ·	102,000	186,000	200	0	73,850	619,300	0
Kansas		75,000	105,700	500	43,000	86,000	413,200	0
Kentucky	·	0	109,000	0	0	59,000	282,000	14,500
Michigan		40,500	44,000	0	0	21,500	140,000	0
Minnesota	285,000	82,000	127,000	2,500	67,000	72,500	439,000	4,500
North Dakota	. 0	0	28,000	3,600	0	12,500	62,100	0
Ohio		59,000	206,300	0	110,500	172,300	526,400	0
Oklahoma	209,802	36,600	149,135	2,000	14,000	113,458	569,067	0
Tennessee	. 0	0	70,000	0	26,500	36,000	132,000	0
Wisconsin	29,100	0	11,323	0	0	9,300	40,500	0
PAD District III	4,704,218	1,729,428	2,841,962	16,500	1,421,300	1,860,984	9,467,203	247,500
Alabama	55,000	38,500	0	0	54,000	41,500	123,700	0
Arkansas	48,850	0	21,000	0	0	15,300	98,750	0
Louisiana	1,543,000	586,416	945,341	3,500	456,900	571,986	2,703,076	72,000
Mississippi	358,875	104,000	88,000	0	119,000	101,600	308,500	0
New Mexico	34,300	0	30,000	0	18,000	24,000	118,000	18,000
Texas	2,664,193	1,000,512	1,757,621	13,000	773,400	1,106,598	6,115,177	157,500
PAD District IV	243,800	76,050	212,760	1,000	37,200	120,700	569,630	6,000
Colorado	33,500	0	30,000	500	0	21,900	87,430	0
Montana	124,400	46,050	68,060	0	6,200	35,400	215,000	0
Utah	34,900	10,000	74,700	0	15,000	38,000	152,800	6,000
Wyoming	51,000	20,000	40,000	500	16,000	25,400	114,400	0
PAD District V	1,327,509	510,100	767,579	16,600	489,600	504,205	2,411,044	80,000
Alaska	26,000	0	0	0	13,000	13,500	24,500	0
California	940,056	412,300	619,000	13,600	391,600	335,300	1,837,700	56,000
Hawaii	40,000	11,000	0	0	20,000	13,500	13,000	0
Nevada	2,750	0	0	0	0	0	0	0
Washington	318,703	86,800	148,579	3,000	65,000	141,905	535,844	24,000
U.S. Total	8,537,389	2,973,088	5,491,059	47,900	2,363,870	3,577,566	17,440,634	374,500

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

^a Refineries where distillation units were completely idle but not permanently shutdown on January 1, 2025.

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

Table 2. Production Capacity of Operable Petroleum Refineries by PAD District and State as of January 1, 2025 (Barrels per Stream Day, Except Where Noted)

			Produ	iction Capacity				
PAD District and State	Alkylates	Aromatics	Asphalt and Road Oil	Isomers	Lubricants	Marketable Petroleum Coke	a Hydrogen (MMcfd)	Sulfur (short tons/day)
PAD District I	47,961	5,191	45,260	19,280	20,945	13,620	109	1,074
De l aware	12,500	5,191	0	6,000	0	13,620	65	596
New Jersey	18,961	0	21,000	4,000	12,000	0	31	320
Pennsy l vania	16,500	0	23,560	9,280	2,945	0	10	157
West Virginia	0	0	700	0	6,000	0	3	1
PAD District II	310,015	112,500	279,900	169,350	9,900	194,911	640	8,501
Illinois	98,570	17,100	43,100	16,000	0	73,559	183	2,187
Indiana	34,400	16,800	33,200	31,750	0	30,000	0	1,913
Kansas	33,500	0	4,000	31,000	0	24,190	156	795
Kentucky	25,000	2,500	35,400	20,000	0	0	0	438
Michigan	8,500	0	32,000	0	0	12,850	0	435
Minnesota	21,000	0	64,500	33,500	0	28,400	209	1,339
North Dakota	5,500	0	0	0	0	0	0	15
Ohio	29,950	20,000	26,000	23,200	0	16,300	0	951
Oklahoma	34,895	21,000	21,700	13,900	9,900	9,612	62	275
Tennessee	17,000	29,000	0	0	0	0	30	116
Wisconsin	1,700	6,100	20,000	0	0	0	0	37
PAD District III	729,308	230,318	204,894	347,870	192,250	510,359	892	24,300
Alabama	0	0	26,000	10,150	0	8,000	45	233
Arkansas	5,000	0	21,300	8,000	5,350	0	13	90
Louisiana	230,120	34,400	86,769	117,720	66,000	164,855	118	5,876
Mississippi	22,600	15,600	16,125	0	48,000	35,500	242	1,264
New Mexico	9,500	0	7,000	0	0	0	38	224
Texas	462,088	180,318	47,700	212,000	72,900	302,004	436	16,613
PAD District IV	44,980	0	62,000	16,368	0	23,574	218	959
Colorado	0	0	13,200	0	0	0	22	116
Montana	16,980	0	39,000	6,750	0	15,274	144	538
Utah	21,700	0	1,800	9,618	0	2,500	0	92
Wyoming	6,300	0	8,000	0	0	5,800	52	213
PAD District V	236,173	1,500	49,050	214,600	39,800	134,232	1,163	5,038
Alaska	0	0	12,500	5,000	0	0	13	25
California	193,962	1,500	25,950	167,000	39,800	110,582	944	4,138
Hawaii	0	0	0	0	0	0	18	38
Nevada	0	0	1,600	0	0	0	0	0
Washington	42,211	0	9,000	42,600	0	23,650	188	837
U.S. Total	1,368,437	349,509	641,104	767,468	262,895	876,696	3,022	39,872

^a Includes hydrogen production capacity of hydrogen plants on refinery grounds and operated by the refinery operator.

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	Lazarus Energy LLC	TX
Alon USA Energy Inc	TX	Lima Refining Company	ОН
American Refining Group Inc	PA	Lion Oil Co	AR
Big West Oil Co	UT	Magellan Processing LP	TX
BP Products North America Inc	IN, WA	Lunday Thagard Co	CA
Buckeye Texas Processing LLC	TX	Marathon Petroleum Co LP	IL, KY, LA, MI, OH, TX
Calcasieu Refining Co	LA	PDV Midwest Refining LLC	IL
Calumet Cotton Valley Refining LLC	LA	Par Hawaii Refining LLC	HI
Calumet Montana Refining LLC	MT	Par Montana LLC	MT
Calumet Princeton Refining LLC	LA	Pasadena Performance Products LLC	TX
Calumet Shreveport Refining LLC	LA	Pasadena Refining Systems Inc	TX
Cenex Harvest States Coop	MT	Paulsboro Refining Co LLC	NJ
Chalmette Refining LLC	LA	Petro Star Inc	AK
Chevron USA Inc	CA, MS, UT	Petromax Refining Co LLC	TX
CHS McPherson Refinery Inc	KS	Martinez Refining Co LLC	CA
Citgo Petroleum Corp	LA	Phillips 66 Company	CA, LA, MT, NJ, OK, TX, WA
Citgo Refining & Chemical Inc	TX	Placid Refining Co	LA
ConocoPhillips Alaska Inc	AK	Premcor Refining Group Inc	TX
Countrymark Refining & Logistics LLC	IN	San Joaquin Refining Co Inc	CA
CPI Operations LLC	NJ	Monroe Energy LLC	PA
Cross Oil Refining & Marketing Inc	AR	Shell Oil Products US	LA
CVR Refining CVL LLC	KS	Motiva Enterprises LLC	TX
CVR Refining WYN LLC	OK	Ohio Refining Company LLC	OH
Deer Park Refining LP	TX	Silver Eagle Refining	UT, WY
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
Enterprise Prod Texas Operating LLC	TX	Talley Asphalt Products Inc	CA
Equistar Chemicals LP	TX	Targa Downstream LLC	TX
Ergon Refining Inc	MS	Tesoro Alaska Company LLC	AK
Ergon West Virginia Inc	WV	Tesoro Refining & Marketing Co	CA, ND, UT, WA
		Texas International Terminals	
Excel Paralubes	LA		TX
ExxonMobil Refining & Supply Co	IL, LA, TX	The San Antonio Refinery LLC	TX
Flint Hills Resources LP	MN, TX	Toledo Refining Co LLC	OH
Foreland Refining Corp	NV	Torrance Refining Co LLC	CA
Goodway Refining LLC	AL	TotalEnergies Petrochem & Refg USA	TX
Hartree Refining LLC	TX	Valero Refining Co Oklahoma	OK
HF Sinclair Casper Refining Company	WY	Trecora Hydrocarbons LLC	TX
HF Sinclair El Dorado Refining LLC	KS	US Oil & Refining Co	WA
HF Sinclair Navajo Refining LLC	NM	Ultramar Inc	CA
HF Sinclair Puget Sound Refg LLC	WA	United Refining Co	PA
HF Sinclair Tulsa Refining LLC	OK	Valero Ref Company Tennessee LLC	TN
HF Sinclair Woods Cross Refining LLC	UT	Valero Refining - Meraux LLC	LA
HF Sinclair Wyoming Refining Co	WY	Valero Refining Co California	CA
Hilcorp North Slope LLC	AK	Valero Refining Co Texas LP	TX
Houston Refining LP	TX	Valero Refining New Orleans LLC	LA
Hunt Refining Co	AL	Vertex Refining Alabama LLC	AL
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	Wyoming Refining Co	WY

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2025 (Barrels per Stream Day, Except Where Noted)

	Atmospheric Cr	ude Oil Di	stillation Capa	city		Downstr	eam Charge Capa	city	
	Barrels pe		Barrels	•			Thermal Crae	cking	
State/Refiner/Location	Calendar D Operating	ldle	Stream Operating	Idle Idle	Vacuum Distillation	Delayed Coking	Fluid Coking	Visbreaking	Other/Gas Oil
Alabama	142,100	0	148,700	0	55,000	38,500	0	0	0
Goodway Refining LLC Atmore Hunt Refining Co	4,100	0	5,000	0	0	0	0	0	0
Tuscaloosa	50,000	0	52,500	0	26,000	38,500	0	0	0
Vertex Refining Alabama LLC Saraland	88,000	0	91,200	0	29,000	0	0	0	0
Alaska	176,000	0	186,000	0	26,000	0	0	0	0
ConocoPhillips Alaska Inc Prudhoe BayHilcorp North Slope LLC	15,000	0	16,000	0	0	0	0	0	0
Prudhoe Bay	6,500	0	8,000	0	0	0	0	0	0
Petro Star Inc North Pole Valdez		0	,	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	1,637,871	0	1,718,900	0	940,056	355,300	52,000	5,000	0
Chevron USA Inc El SegundoRichmond		0	290,500 257,200	0	169,100 123,456	76,700 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
Martinez Refining Co LLC Martinez	156,400	0	157,000	0	101,000	26,800	22,500	0	0
Phillips 66 Company Wilmington	138,700	0	156,000	0	83,400	51,900	0	0	0
San Joaquin Refining Co Inc Bakersfield	15,000	0	25,000	0	14,300	0	0	5,000	0
Talley Asphalt Products Inc Kern	1,700	0	2,000	0	0	0	0	0	0
Tesoro Refining & Marketing Co	365,000	0	384,500	0	205,000	109,100	0	0	0
Carson Torrance Refining Co LLC Torrance	ŕ	0		0	102,300	62,000	0	0	0
Ultramar Inc Wilmington	85,000	0	87,000	0	46,000	28,800	0	0	0

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2025 (Barrels per Stream Day, Except Where Noted)

	Downstream Charge Capacity									
	Catalytic C	racking	Catal	ytic Hydrocrac	king	Catalytic F	Reforming			
State/Refiner/Location	Fresh	Recycled	Distillate	Gas Oil	Residual	Low Pressure	High Pressure	Fuels Solvent Deasphalting		
Alabama	0	0	0	54,000	C	19,500	22,000	0		
Goodway Refining LLC Atmore	0	0	0	0	C	0	0	0		
Hunt Refining Co Tusca l oosa	0	0	0	24,000	C	19,500	0	0		
Vertex Refining Alabama LLC Saraland	0	0	0	30,000	C) 0	22,000	0		
Alaska	0	0	0	13,000	C	13,500	0	0		
ConocoPhillips Alaska Inc Prudhoe Bay	0	0	0	0	C	0	0	0		
Hilcorp North Slope LLC Prudhoe Bay	0	0	0	0	C	0	0	0		
Petro Star Inc North Pole	0	0	0	0	C) 0	0	0		
Valdez	0	0	0	0	C	0	0	0		
Tesoro Alaska Company LLC Kenai	0	0	0	13,000	C	13,500	0	0		
Arkansas	21,000	0	0	0	C	15,300	0	0		
Cross Oil Refining & Marketing Inc Smackover	0	0	0	0	C	0	0	0		
Lion Oil Co El Dorado	21,000	0	0	0	C	15,300	0	0		
California	619,000	13,600	233,200	158,400	C	171,800	163,500	56,000		
Chevron USA Inc EI Segundo	73,800 90,000	0	0	55,000 103,400	0	,		0 56.000		
Kern Oi l & Refining Co Bakersfield	0	0	0	0	C			0		
Lunday Thagard Co South Gate	0	0	0	0	C) 0	0	0		
Martinez Refining Co LLC Martinez	72,000	0	42,900	0	C	31,000	0	0		
Phillips 66 Company Wilmington	51,600	0	27,500	0	C	0	40,000	0		
San Joaquin Refining Co Inc Bakersfield	0	0	0	0	C) 0	0	0		
Talley Aspha l t Products Inc Kern	0	0	0	0	C) 0	0	0		
Tesoro Refining & Marketing Co Carson	110,000	0	100,500	0	C) 0	83,000	0		
Torrance Refining Co LLC Torrance	90,000	13,600	28,300	0	C) 0	0	0		
Ultramar Inc Wilmington	56,300	0	0	0	C	18,000	0	0		

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2025 (Barrels per Stream Day, Except Where Noted)

			Downstre	eam Charge Capac	ity			
		De	sulfurization (in	cl. Catalytic Hydro	treating)			
State/Refiner/Location	Naphtha/ Reformer Feed	Gasoline	Kerosene/ Jet Fuel	Diesel Fuel	Other Distillate	Residual	Heavy Gas Oil	Other
Alabama	46,200	0	21,500	17,000	28,500	0	10,500	0
Goodway Refining LLC Atmore	0	0	0	0	0	0	0	0
Hunt Refining Co Tuscaloosa	19,500	0	3,500	0	28,500	0	10,500	0
Vertex Refining Alabama LLC Saraland	26,700	0	18,000	17,000	0	0	0	0
Alaska	13,000	0	0	11,500	0	0	0	0
ConocoPhillips Alaska Inc Prudhoe Bay	0	0	0	0	0	0	0	0
Hilcorp North Slope LLC Prudhoe Bay	0	0	0	0	0	0	0	0
Petro Star Inc North Pole 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		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	376,900	215,000	204,300	252,100	81,100	0	638,100	70,200
Chevron USA Inc El SegundoRichmond	62,500 57,600	0 64,800	41,500 96,000	51,500 64,800	14,000	0	74,000 65,000	0 34,000
Kern Oil & Refining Co Bakersfie l d	5,000	0	0	0	9,000	0	0	0
Lunday Thagard Co South Gate	0	0	0	0	0	0	0	0
Martinez Refining Co LLC Martinez	28,000	90,000	0	0	49,500	0	80,500	14,500
Phillips 66 Company Wilmington	57,500	0	12,900	32,000	0	0	55,500	0
San Joaquin Refining Co Inc Bakersfield	0	0	0	0	3,600	0	1,800	0
Talley Asphalt Products Inc Kern	0	0	0	0	0	0	0	0
Tesoro Refining & Marketing Co Carson	79,000	17,000	38,500	24,000	0	0	147,000	0
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

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2025 (Barrels per Stream Day, Except Where Noted)

	Atmospheric Cr	rude Oil Di	stillation Capa	city		Downstr	eam Charge Capac	city	
	Barrels pe		Barrels	-			Thermal Crac	king	
State/Refiner/Location	Calendar D Operating	ay Idle	Stream I Operating	Day Idle	Vacuum Distillation	Delayed Coking	Fluid Coking	Visbreaking	Other/Gas Oil
California	1,637,871	0	1,718,900	0	940,056	355,300	52,000	5,000	0
Valero Refining Co California Benicia Wilmington		0		0	85,500 5,000	0	29,500 0	0	0
Colorado	103,000	0	111,700	0	33,500	0	0	0	0
Suncor Energy (USA) Inc Commerce City East Commerce City West		0	,	0	8,500 25,000	0	0	0	0
Delaware	171,000	0	180,000	0	104,600	0	54,500	0	0
Delaware City Refining Co LLC Delaware City	171,000	0	180,000	0	104,600	0	54,500	0	0
Hawaii	93,500	0	95,000	0	40,000	0	0	11,000	0
Par Hawaii Refining LLC Kapolei	93,500	0	95,000	0	40,000	0	0	11,000	0
Illinois	1,050,023	0	1,123,139	0	503,560	207,910	0	0	0
ExxonMobil Refining & Supply Co Joliet	264,000	0	275,000	0	143,800	58,500	0	0	0
Marathon Petroleum Co LP Robinson	253,000	0	266,000	0	76,000	31,000	0	0	0
PDV Midwest Refining LLC Lemont	188,023	0	197,919	0	77,200	41,220	0	0	0
WRB Refining LP Wood River	345,000	0	384,220	0	206,560	77,190	0	0	0
Indiana	469,500	0	475,800	0	290,700	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 Refining & Logistics LLC Mount Vernon		0	35,800	0	14,500	0	0	0	0
Kansas	408,200	0	418,100	0	163,500	75,000	0	0	0
CHS McPherson Refinery Inc McPherson	114,200	0	117,100	0	52,500	27,500	0	0	0
CVR Refining CVL LLC Coffeyville	132,000	0	136,000	0	46,000	25,000	0	0	0
HF Sinclair El Dorado Refining LLC El Dorado	162,000	0	165,000	0	65,000	22,500	0	0	0
Kentucky	300,000	0	316,000	0	134,000	0	0	0	0
Marathon Petroleum Co LP Catlettsburg	300,000	0	316,000	0	134,000	0	0	0	0
Louisiana	2,982,647	0	3,154,471	0	1,543,000	567,043	0	0	19,373
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

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2025 (Barrels per Stream Day, Except Where Noted)

			Downstrea	m Charge Cap	acity			
	Catalytic C	racking	Catal	ytic Hydrocrac	king	Catalytic R	eforming	
State/Refiner/Location	Fresh	Recycled	Distillate	Gas Oil	Residual	Low Pressure	High Pressure	Fuels Solvent Deasphalting
California	619,000	13,600	233,200	158,400	(171,800	163,500	56,000
Valero Refining Co Ca l ifornia Benicia Wilmington	75,300 0	0	34,000 0	0		0 0	37,200 0	0
Colorado	30,000	500	0	0	(21,900	0	0
Suncor Energy (USA) Inc Commerce City East Commerce City West	9,000 21,000	500 0	0	0		0 11,000 0 10,900	0	0
Delaware	82,000	4,000	0	24,000	(0 43,000	0	0
Delaware City Refining Co LLC Delaware City	82,000	4,000	0	24,000	(3 43,000	0	0
Hawaii	0	0	2,000	18,000	(13,500	0	0
Par Hawaii Refining LLC Kapo l ei	0	0	2,000	18,000	(13,500	0	0
Illinois	327,300	0	0	107,770	(216,530	35,800	0
ExxonMobil Refining & Supply Co Joliet	100,300	0	0	0	(52,600	0	0
Marathon Petroleum Co LP Robinson	54,500	0	0	44,000	(82,000	0	0
PDV Midwest Refining LLC Lemont	69,500	0	0	0	(0	35,800	0
WRB Refining LP Wood River	103,000	0	0	63,770	(81,930	0	0
Indiana	186,000	200	0	0	(6,850	67,000	0
BP Products North America Inc Whiting	177,000	0	0	0	(0	67,000	0
Countrymark Refining & Logistics LLC Mount Vernon	9,000	200	0	0	(6,850	0	0
Kansas	105,700	500	0	43,000	(62,500	23,500	0
CHS McPherson Refinery Inc McPherson	24,800	500	0	43,000	(28,500	0	0
CVR Refining CVL LLC Coffeyville	36,900	0	0	0	(26,500	0	0
HF Sinclair El Dorado Refining LLC El Dorado	44,000	0	0	0	(7,500	23,500	0
Kentucky	109,000	0	0	0	(24,500	34,500	14,500
Marathon Petroleum Co LP Catlettsburg	109,000	0	0	0	(24,500	34,500	14,500
Louisiana	945,341	3,500	55,000	401,900	(0 475,786	96,200	72,000
Alon Refining Krotz Springs Inc Krotz Springs	34,000	0	0	0	(0	13,000	0
Calcasieu Refining Co Lake Charles	0	0	0	0	(0	0	0

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2025 (Barrels per Stream Day, Except Where Noted)

		Downstream Charge Capacity											
		Des	sulfurization (in	cl. Catalytic Hydro	treating)								
State/Refiner/Location	Naphtha/ Reformer Feed	Gasoline	Kerosene/ Jet Fuel	Diesel Fuel	Other Distillate	Residual	Heavy Gas Oil	Other					
California	376,900	215,000	204,300	252,100	81,100	0	638,100	70,200					
Valero Refining Co California Benicia Wilmington	30,000	43,200 0	15,400 0	15,000 0	5,000 0	0		21,700 0					
Colorado	22,000	0	12,100	23,330	0	0	30,000	0					
Suncor Energy (USA) Inc Commerce City East Commerce City West	11,000 11,000	0	0 12,100	0 23,330	0	0	_	0					
Delaware	58,800	33,000	16,500	52,000	0	0	0	20,000					
Delaware City Refining Co LLC Delaware City	58,800	33,000	16,500	52,000	0	0	0	20,000					
Hawaii	13,000	0	0	0	0	0	0	0					
Par Hawaii Refining LLC Kapo l ei	13,000	0	0	0	0	0	0	0					
Illinois	450,970	122,190	66,950	333,339	0	0	0	17,800					
ExxonMobil Refining & Supply Co Joliet	179,300	0	0	89,100	0	0	0	0					
Marathon Petroleum Co LP Robinson	71,000	46,000	0	84,000	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	89,370	76,190	53,250	63,079	0	0	0	11,000					
Indiana	134,400	103,700	51,400	137,800	0	0	192,000	0					
BP Products North America Inc Whiting	122,700	97,000	51,400	121,500	0	0	192,000	0					
Countrymark Refining & Logistics LLC Mount Vernon	11,700	6,700	0	16,300	0	0	0	0					
Kansas	130,400	49,000	21,000	135,000	27,800	0	50,000	0					
CHS McPherson Refinery Inc McPherson	42,400	0	0	47,000	0	0	0	0					
CVR Refining CVL LLC Coffeyville	38,000	22,000	9,000	34,000	27,800	0	0	0					
HF Sinclair El Dorado Refining LLC El Dorado	50,000	27,000	12,000	54,000	0	0	50,000	0					
Kentucky	59,500	0	34,000	81,500	0	0		0					
Marathon Petroleum Co LP Catlettsburg	59,500	0	34,000	81,500	0	0	107,000	0					
Louisiana	605,985	764,520	208,453	803,700	9,500	0	266,740	44,178					
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					

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2025 (Barrels per Stream Day, Except Where Noted)

	Atmospheric Cr	ude Oil Di	stillation Capac	ity		Downstr	eam Charge Capa	city	
	Barrels pe		Barrels				Thermal Cra		
State/Refiner/Location	Calendar D Operating	ay Idle	Stream I	Day Idle	Vacuum Distillation	Delayed Coking	Fluid Coking	Visbreaking	Other/Gas Oil
Louisiana	2,982,647	0	3,154,471	0	1,543,000	567,043	0	0	19,373
Calumet Cotton Valley Refining LLC Cotton Valley	13,020	C	14,000	0	0	0	0	0	0
Calumet Princeton Refining LLC Princeton	8,300	C	8,655	0	7,000	0	0	0	0
Calumet Shreveport Refining LLC Shreveport	57,000	O	60,000	0	28,000	0	0	0	0
Chalmette Refining LLC Chalmette	190,000	O	197,000	0	169,000	42,000	0	0	0
Citgo Petroleum Corp Lake Charles	459,800	C	484,000	0	230,000	110,000	0	0	0
Excel Paralubes Westlake	0	C	0	0	0	0	0	0	0
ExxonMobil Refining & Supply Co Baton Rouge	522,500	С	544,600	0	254,000	123,500	0	0	0
Marathon Petroleum Co LP Garyville	606,000	C	638,000	0	299,000	110,500	0	0	0
Phillips 66 Company Westlake	263,700	C	285,716	0	128,900	66,543	0	0	19,373
Placid Refining Co Port Allen	75,000	C	82,500	0	27,000	0	0	0	0
Shell Oil Products US Norco	231,827	О	250,000	0	91,300	28,500	0	0	0
Valero Refining - Meraux LLC Meraux	125,000	О	135,000	0	56,600	0	0	0	0
Valero Refining New Orleans LLC Norco	215,000	О	235,000	0	180,000	86,000	0	0	0
Michigan	144,000	0	152,000	0	90,500	40,500	0	0	0
Marathon Petroleum Co LP Detroit	144,000	O	152,000	0	90,500	40,500	0	0	0
Minnesota	440,000	0	486,000	0	285,000	82,000	0	0	0
Flint Hills Resources LP Saint Paul	335,000	C	375,000	0	234,000	82,000	0	0	0
St Paul Park Refining Co LLC Saint Paul	105,000	C	111,000	0	51,000	0	0	0	0
Mississippi	393,940	0	415,000	0	358,875	104,000	0	0	0
Chevron USA Inc	356,440	C	375,200	0	334,000	104,000	0	0	0
Ergon Refining Inc Vicksburg		C		0	18,000	0	0	0	0
Hunt Southland Refining Co Sandersville		C	12,500	0	6,875	0	0	0	0
Montana	205.000	0	216,875	0	124,400	36,050	10,000	0	0
Calumet Montana Refining LLC Great Falls		C	,	0	10,000	0	0	0	0
Cenex Harvest States Coop Laurel		C		0	32,200	16,000	0	0	0
Par Montana LLC Billings		C		0	32,300	0	10,000	0	0

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2025 (Barrels per Stream Day, Except Where Noted)

			Downstrea	m Charge Cap	acity			
	Catalytic C	racking	Catal	ytic Hydrocrac	king	Catalytic R	eforming	
State/Refiner/Location	Fresh	Recycled	Distillate	Gas Oil	Residual	Low Pressure	High Pressure	Fuels Solvent Deasphalting
Louisiana	945,341	3,500	55,000	401,900	(475,786	96,200	72,000
Calumet Cotton Valley Refining LLC Cotton Valley	0	0	0	0	(0	0	0
Calumet Princeton Refining LLC Princeton	0	0	0	0	(0	0	0
Calumet Shreveport Refining LLC Shreveport	0	0	0	0	(12,000	0	0
Chalmette Refining LLC Chalmette	75,600	0	0	0	(22,700	30,000	0
Citgo Petroleum Corp Lake Charles	148,000	3,000	0	51,200	(65,000	53,200	0
Excel Paralubes Westlake	0	0	0	43,000	(0	0	0
ExxonMobil Refining & Supply Co Baton Rouge	243,000	0	27,000	0	(80,000	0	0
Marathon Petroleum Co LP Garyville	150,000	0	0	130,000	(138,500	0	38,000
Phillips 66 Company Westlake	50,941	0	0	0	(49,086	0	0
Placid Refining Co Port Allen	25,000	500	0	0	(11,500	0	12,000
Shell Oil Products US Norco	118,800	0	0	44,000	(40,000	0	0
Valero Refining - Meraux LLC Meraux	0	0	0	48,700	(32,000	0	22,000
Valero Refining New Orleans LLC Norco	100,000	0	28,000	85,000	(25,000	0	0
Michigan	44,000	0	0	0	(21,500	0	0
Marathon Petroleum Co LP Detroit	44,000	0	0	0	(21,500	0	0
Minnesota	127,000	2,500	67,000	0	(36,000	36,500	4,500
Flint Hills Resources LP Saint Paul	96,000	0	67,000	0	(36,000	13,000	0
St Paul Park Refining Co LLC Saint Paul	31,000	2,500	0	0	(0	23,500	4,500
Mississippi	88,000	0	0	119,000	(61,600	40,000	0
Chevron USA Inc Pascagoula	88,000	0	0	119,000	(61,600	40,000	0
Ergon Refining Inc Vicksburg	0	0	0	0	(0	0	0
Hunt Southland Refining Co Sandersville	0	0	0	0	(0	0	0
Montana	68,060	0	6,200	0	(12,500	22,900	0
Calumet Montana Refining LLC Great Falls	3,000	0	0	0	(0	1,400	0
Cenex Harvest States Coop Laurel	16,500	0	0	0	(12,500	0	0
Par Montana LLC Billings	23,660	0	6,200	0	(0	12,500	0

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2025 (Barrels per Stream Day, Except Where Noted)

			Downstre	am Charge Capac	ity			
		Des	sulfurization (in	cl. Catalytic Hydro	treating)			
State/Refiner/Location	Naphtha/ Reformer Feed	Gasoline	Kerosene/ Jet Fuel	Diesel Fuel	Other Distillate	Residual	Heavy Gas Oil	Other
Louisiana	605,985	764,520	208,453	803,700	9,500	0	266,740	44,178
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	9,500	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	80,000	266,300	0	216,900	0	0	0	0
Marathon Petroleum Co LP Garyville	125,000	128,000	85,000	181,500	0	0	106,000	0
Phillips 66 Company Westlake	52,285	63,820	38,353	55,300	0	0	50,040	19,178
Placid Refining Co Port Allen	12,000	20,000	0	25,000	0	0	0	0
Shell Oil Products US Norco	42,000	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	36,500	0	8,000	51,000	0	0	44,500	0
Marathon Petroleum Co LP Detroit	36,500	0	8,000	51,000	0	0	44,500	0
Minnesota	74,000	57,000	53,500	95,500	0	0	159,000	0
Flint Hills Resources LP Saint Paul	49,000	57,000	43,500	63,500	0	0	128,000	0
St Paul Park Refining Co LLC Saint Paul	25,000	0	10,000	32,000	0	0	31,000	0
Mississippi	62,000	0	34,000	38,000	0	0	104,000	70,500
Chevron USA Inc	62,000	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
Montana	45,900	27,800	13,400	47,100	25,000	0	47,900	7,900
Calumet Montana Refining LLC Great Falls	2,750	0	0	7,000	0	0	0	0
Cenex Harvest States Coop Laurel	17,000	0	0	0	25,000	0	20,000	0
Par Montana LLC Billings	13,900	20,500	7,600	11,000	0	0	0	7,900

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2025 (Barrels per Stream Day, Except Where Noted)

	Atmospheric Cr	ude Oil Dis	stillation Capa	city		Downstr	eam Charge Capad	city	
ļ	Barrels pe		Barrels	per			Thermal Crac	cking	
State/Refiner/Location	Calendar D Operating	ay Idle	Stream I	Day Idle	Vacuum Distillation	Delayed Coking	Fluid Coking	Visbreaking	Other/Gas Oil
Montana	205,000	0	216,875	0	124,400	36,050	10,000	0	0
Phillips 66 Company Billings	66,000	0	72,975	0	49,900	20,050	0	0	0
Nevada	2,000	0	5,000	0	2,750	0	0	0	0
Foreland Refining Corp	2,000	0	5,000	0	2,750	0	0	0	0
New Jersey	358,500	92,000	377,135	96,000	165,000	0	0	0	0
CPI Operations LLC Paulsboro	0	32,000	0	35,000	0	0	0	0	0
Paulsboro Refining Co LLC Paulsboro	100,000	60,000	105,000	61,000	90,000	0	0	0	0
Phillips 66 Company Linden	258,500	0	272,135	0	75,000	0	0	0	0
New Mexico	110,000	0	124,000	0	34,300	0	0	0	0
HF Sinclair Navajo Refining LLC Artesia	110,000	0	124,000	0	34,300	0	0	0	0
North Dakota	71,000	0	75,500	0	0	0	0	0	0
Tesoro Refining & Marketing Co Mandan	71,000	0	75,500	0	0	0	0	0	0
Ohio	606,600	0	630,000	0	164,500	59,000	0	0	0
Lima Refining Company Lima	183,000	0	185,000	0	57,000	23,000	0	0	0
Marathon Petroleum Co LP Canton	100,000	0	105,000	0	35,000	0	0	0	0
Ohio Refining Company LLC Toledo	150,800	0	160,000	0	72,500	36,000	0	0	0
Toledo Refining Co LLC Toledo	172,800	0	180,000	0	0	0	0	0	0
Oklahoma	532,500	0	571,447	0	209,802	36,600	0	0	0
CVR Refining WYN LLC Wynnewood	74,500	0	78,000	0	34,000	0	0	0	0
HF Sinclair Tulsa Refining LLC Tulsa East Tulsa West		0	75,500 91,020	0	27,000 32,000	0 9,300	0	0	0
Phillips 66 Company Ponca City	216,700	0	236,927	0	84,802	27,300	0	0	0
Valero Refining Co Oklahoma Ardmore	86,000	0	90,000	0	32,000	0	0	0	0
Pennsylvania	268,000	0	289,800	0	113,000	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
United Refining Co Warren	67,000	0	70,000	0	40,000	0	0	0	0

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2025 (Barrels per Stream Day, Except Where Noted)

			Downstrea	m Charge Cap	acity			
	Catalytic C	racking	Catal	ytic Hydrocrac	king	Catalytic R	teforming	
State/Refiner/Location	Fresh	Recycled	Distillate	Gas Oil	Residual	Low Pressure	High Pressure	Fuels Solvent Deasphalting
Montana	68,060	0	6,200	0	(12,500	22,900	0
Phillips 66 Company Billings	24,900	0	0	0	(0	9,000	0
Nevada	0	0	0	0	(0	0	0
Foreland Refining Corp	0	0	0	0	() 0	0	0
New Jersey	145,000	0	0	0	(32,000	37,039	22,000
CPI Operations LLC Paulsboro	0	0	0	0	() 0	0	0
Paulsboro Refining Co LLC Paulsboro	0	0	0	0	(32,000	0	0
Phillips 66 Company Linden	145,000	0	0	0	() 0	37,039	22,000
New Mexico	30,000	0	0	18,000	(24,000	0	18,000
HF Sinclair Navajo Refining LLC Artesia	30,000	0	0	18,000	(24,000	0	18,000
North Dakota	28,000	3,600	0	0	(0	12,500	0
Tesoro Refining & Marketing Co Mandan	28,000	3,600	0	0	(0	12,500	0
Ohio	206,300	0	52,000	58,500	(65,500	106,800	0
Lima Refining Company Lima	45,300	0	0	26,000	() 0	55,000	0
Marathon Petroleum Co LP Canton	24,000	0	0	0	(23,500	0	0
Ohio Refining Company LLC Toledo	55,000	0	0	32,500	(42,000	0	0
Toledo Refining Co LLC Toledo	82,000	0	52,000	0	(0	51,800	0
Oklahoma	149,135	2,000	14,000	0	(64,200	49,258	0
CVR Refining WYN LLC Wynnewood	21,200	0	0	0	(18,700	0	0
HF Sinclair Tulsa Refining LLC Tulsa East Tulsa West	28,000 0	2,000	0	0	(,	0	0
Phillips 66 Company Ponca City	69,935	0	0	0	(49,258	0
Valero Refining Co Oklahoma Ardmore	30,000	0	14,000	0	(20,500	0	0
Pennsylvania	78,000	1,000	23,000	0	(50,000	16,200	0
American Refining Group Inc Bradford	0	0	0	0	() 0	2,200	0
Monroe Energy LLC Trainer	53,000	0	23,000	0	(50,000	0	0
United Refining Co Warren	25,000	1,000	0	0	(0	14,000	0

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2025 (Barrels per Stream Day, Except Where Noted)

		Downstream Charge Capacity											
		Des	sulfurization (in	cl. Catalytic Hydro	treating)								
State/Refiner/Location	Naphtha/ Reformer Feed	Gasoline	Kerosene/ Jet Fuel	Diesel Fuel	Other Distillate	Residual	Heavy Gas Oil	Other					
Montana	45,900	27,800	13,400	47,100	25,000	0	47,900	7,900					
Phillips 66 Company Billings	12,250	7,300	5,800	29,100	0	0	27,900	0					
Nevada	0	0	0	0	0	0	0	0					
Foreland Refining Corp	0	0	0	0	0	0	0	0					
New Jersey	70,944	65,500	29,100	155,697	0	0	0	0					
CPI Operations LLC Paulsboro	0	0	0	0	0	0	0	0					
Paulsboro Refining Co LLC Paulsboro	32,000	0	29,100	46,000	0	0	0	0					
Phillips 66 Company Linden	38,944	65,500	0	109,697	0	0	0	0					
New Mexico	42,000	0	15,000	43,000	0	0	18,000	0					
HF Sinclair Navajo Refining LLC	42,000	0	15,000	43,000	0	0	18,000	0					
North Dakota	29,600	0	7,000	25,500	0	0	0	0					
Tesoro Refining & Marketing Co Mandan	29,600	0	7,000	25,500	0	0	0	0					
Ohio	187,400	107,000	72,500	84,000	0	0	75,500	0					
Lima Refining Company Lima	63,000	35,000	27,000	36,000	0	0	0	0					
Marathon Petroleum Co LP Canton	36,500	0	13,500	25,500	0	0	22,500	0					
Ohio Refining Company LLC To l edo	42,000	0	0	22,500	0	0	53,000	0					
Toledo Refining Co LLC Toledo	45,900	72,000	32,000	0	0	0	0	0					
Oklahoma	158,558	114,379	18,902	145,336	39,161	0	56,875	35,856					
CVR Refining WYN LLC Wynnewood	29,300	14,900	0	28,200	0	0	0	0					
HF Sinclair Tulsa Refining LLC Tulsa East Tulsa West	25,000 28,000	29,000 0	0	45,000 0	0	0	0	0 21,600					
Phillips 66 Company Ponca City	49,258	53,979	18,902	37,136	39,161	0	22,425	14,256					
Valero Refining Co Oklahoma Ardmore	27,000	16,500	0	35,000	0	0	34,450	0					
Pennsylvania	109,900	39,000	28,300	75,100	0	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					
United Refining Co Warren	26,000	5,000	5,000	17,000	0	0	0	0					

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2025 (Barrels per Stream Day, Except Where Noted)

	Atmospheric Crude Oil Distillation Capacity Downstream Charge Capacity								
	Barrels pe	er	Barrels	per			Thermal Crac	cking	
	Calendar D		Stream	Ť	Vacuum	Delayed			Other/Gas
State/Refiner/Location	Operating	Idle	Operating	Idle	Distillation	Coking	Fluid Coking	Visbreaking	Oil
Tennessee	180,000	0	205,000	0	0	0	0	0	0
Valero Ref Company Tennessee LLC Memphis	180,000	0	205,000	0	0	0	0	0	0
Texas	6,343,466	0	6,713,920	0	2,664,193	958,512	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	165,000	0	175,500	0	85,300	45,100	0	0	0
Deer Park Refining LP Deer Park	312,500	0	340,000	0	180,000	96,000	0	0	0
Delek Refining LTD Tyler	74,000	0	77,500	0	28,000	7,500	0	0	0
Diamond Shamrock Refining Co LP Sunray Three Rivers		0		0	50,000 33,500	0	0	0	0
Enterprise Prod Texas Operating LLC Mont Belvieu		0	,	0	0	0	0	0	0
Equistar Chemica l s LP Channelview	0	0	0	0	0	0	0	0	0
ExxonMobil Refining & Supply Co Baytown Beaumont		0		0	297,000 180,000	54,000 47,000	42,000 0	0	0
Flint Hills Resources LP Corpus Christi East	87,500	0	90,000	0	0	0	0	0	0
Corpus Christi West		0	,	0	87,500	0	0	0	0
Channelview Houston Refining LP Houston		0	,	0	196,500	100,500	0	0	0
Kinder Morgan Crude & Condensate Galena Park		0	·	0	0	0	0	0	0
Lazarus Energy LLC Nixon		0		0	0	0	0	0	0
Magellan Processing LP Corpus Christi	50,000	0	55,000	0	0	0	0	0	0
Marathon Petroleum Co LP Galveston Bay	631,000	0	665,000	0	259,500	32,500	0	0	0
Motiva Enterprises LLC Port Arthur	640,500	0	659,700	0	331,800	178,000	0	0	0
Pasadena Performance Products LLC Pasadena		0	0	0	0	0	0	0	0
Pasadena Refining Systems Inc Pasadena	118,750	0	125,000	0	38,000	0	0	0	0
Petromax Refining Co LLC Houston	25,000	0	27,500	0	0	0	0	0	0
Phillips 66 Company Sweeny	264,500	0	293,532	0	132,066	78,732	0	0	0

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2025 (Barrels per Stream Day, Except Where Noted)

			Downstrea	m Charge Cap	acity			
	Catalytic C	racking	Catal	ytic Hydrocracl	king	Catalytic R	eforming	
State/Refiner/Location	Fresh	Recycled	Distillate	Gas Oil	Residual	Low Pressure	High Pressure	Fuels Solvent Deasphalting
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	1,757,621	13,000	255,100	433,800	84,500	1,005,476	101,122	157,500
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	70,700	0	0	0	0	51,500	0	0
Deer Park Refining LP Deer Park	75,100	5,000	0	62,000	0	44,000	24,500	0
Delek Refining LTD Tyler	20,250	0	0	0	0	17,500	0	0
Diamond Shamrock Refining Co LP Sunray	56,000 23,840	0	0	27,000 28.000	0	29,000	18,000 10.000	13,500
Three Rivers Enterprise Prod Texas Operating LLC Mont Belvieu	23,840	0	0	28,000	0	,	10,000	0
Equistar Chemicals LP Channelview	0	0	0	0	0		0	0
ExxonMobil Refining & Supply Co Baytown Beaumont	220,000 115,000	8,000 0	30,600 70,000	0	0		0	47,000 0
Flint Hills Resources LP Corpus Christi East Corpus Christi West	49,100 58,100	0	0	0 15,500	0	_	0	0
Hartree Refining LLC Channelview	0	0	0	0	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 Processing LP Corpus Christi	0	0	0	0	0	0	0	0
Marathon Petroleum Co LP Galveston Bay	219,500	0	79,500	0	84,500	147,000	0	20,000
Motiva Enterprises LLC Port Arthur	92,600	0	0	115,500	0	134,500	0	0
Pasadena Performance Products LLC Pasadena	0	0	0	0	0	0	0	0
Pasadena Refining Systems Inc Pasadena	0	0	0	0	0	24,000	0	0
Petromax Refining Co LLC Houston	0	0	0	0	0	0	0	0
Phillips 66 Company Sweeny	116,005	0	0	0	0	46,176	0	0

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2025 (Barrels per Stream Day, Except Where Noted)

	Downstream Charge Capacity											
		Des	sulfurization (in	cl. Catalytic Hydro	treating)							
State/Refiner/Location	Naphtha/ Reformer Feed	Gasoline	Kerosene/ Jet Fuel	Diesel Fuel	Other Distillate	Residual	Heavy Gas Oil	Other				
Tennessee	55,000	39,000	0	38,000	0	0	0	0				
Valero Ref Company Tennessee LLC Memphis	55,000	39,000	0	38,000	0	0	0	0				
Texas	1,487,779	1,095,420	685,473	1,492,220	0	75,000	985,185	294,100				
Alon USA Energy Inc Big Spring	25,500	0	5,000	24,000	0	0	6,300	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	102,267	0	0	70,900	0				
Deer Park Refining LP Deer Park	80,000	46,600	40,000	50,000	0	0	45,000	63,000				
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	48,000	0	0	0	0				
Three Rivers	35,000	0	0	28,000	0	0	20,000	0				
Enterprise Prod Texas Operating LLC Mont Belvieu	0	0	0	0	0	0	0	65,000				
Equistar Chemicals LP Channelview	0	0	0	0	0	0	0	0				
ExxonMobil Refining & Supply Co Baytown Beaumont	158,000 173,700	212,100 69,700	134,400 121,000	160,000 97,000	0	0	117,000 0	50,300 23,300				
Flint Hills Resources LP Corpus Christi East Corpus Christi West	33,000 60,000	0 72,000	0 32,000	0 91,000	0	0	0	0				
Hartree Refining LLC Channelview	0	0	0	0	0	0	0	0				
Houston Refining LP Houston	61,000	89,000	41,000	92,600	0	0	117,000	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 Processing LP Corpus Christi	0	0	0	0	0	0	0	0				
Marathon Petroleum Co LP Galveston Bay	129,000	57,000	76,000	60,000	0	0	108.500	0				
Motiva Enterprises LLC Port Arthur	186,500	55,000	79,000	182,000	0	0	65,000	21,000				
Pasadena Performance Products LLC Pasadena	0	0	0	0	0		0	0				
Pasadena Refining Systems Inc Pasadena	24,000	0	12,400	0	0		0	0				
Petromax Refining Co LLC Houston	24,000	0	12,400	0	0	-	0	0				
Phillips 66 Company Sweeny	70,590	60,000	0	124,107	0	-	107,751	16,000				
Owoony	10,550	00,000	U	127, 107	U	U	101,131	10,000				

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2025 (Barrels per Stream Day, Except Where Noted)

ļ	Atmospheric Cr	ude Oil Di	stillation Capad	city	Downstream Charge Capacity					
	Barrels pe		Barrels	•			Thermal Crac	king		
State/Refiner/Location	Calendar Day	Idle	Stream I Operating	Idle	Vacuum Distillation	Delayed Coking	Fluid Coking	Visbreaking	Other/Gas Oil	
Texas	6,343,466	0	6,713,920	0	2,664,193	958,512	42,000	0		
Premcor Refining Group Inc Port Arthur	380,000	C	424,000	0	220,000	158,000	0	0		
Targa Downstream LLC Mont Belvieu	0	C	0	0	0	0	0	0		
Texas International Terminals Galveston	45,000	C	50,000	0	0	0	0	0		
The San Antonio Refinery LLC San Antonio		C	21,000	0	0	0	0	0		
TotalEnergies Petrochem & Refg USA Port Arthur		C	245,000	0	117,000	60.000	0	0		
Trecora Hydrocarbons LLC Silsbee		C		0	0		0	0		
Valero Refining Co Texas LP Corpus Christi		C		0	91,000	19,000	0	0		
Houston		C		0	38,000	19,000	0	0		
Texas City		C		0	133,500	53,500	0	0		
Western Refining Company LP El Paso	133,000	C	140,000	0	55,500	0	0	0		
WRB Refining LP Borger	149,000	C	159,688	0	82,027	28,680	0	0		
Jtah	208,714	0	223,200	0	34,900	10,000	0	0		
Big West Oil Co North Salt Lake	31,664	C	36,000	0	0	0	0	0		
Chevron USA Inc Salt Lake City	54,720	C	57,600	0	27,900	10,000	0	0		
HF Sindair Woods Cross Refining LLC Woods Cross		C	41,400	0	0	0	0	0		
Silver Eagle Refining Woods Cross	15,000	C	15,700	0	7,000	0	0	0		
Tesoro Refining & Marketing Co Salt Lake City	68,000	C	72,500	0	0	0	0	0		
Vashington	648,200	0	672,055	0	318,703	86,800	0	0		
BP Products North America Inc		C		0	139,000	61,500	0	0		
HF Sindair Puget Sound Refg LLC Anacortes		C		0	65,800	25,300	0	0		
Phillips 66 Company		C		0	46,703		0	0		
Tesoro Refining & Marketing Co			,				0	0		
Anacortes US Oil & Refining Co		C	,	0	48,000	0		-		
Tacoma	40,700	С	42,000	0	19,200	0	0	0		
Vest Virginia	22,300	0	23,000	0	8,600	0	0	0		
Ergon West Virginia Inc Newell	22,300	C	23,000	0	8,600	0	0	0		

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2025 (Barrels per Stream Day, Except Where Noted)

	Downstream Charge Capacity										
	Catalytic C	racking	Cataly	∕tic Hydrocrac	king	Catalytic R	eforming				
State/Refiner/Location	Fresh	Recycled	Distillate	Gas Oil	Residual	Low Pressure	High Pressure	Fuels Solvent Deasphalting			
Texas	1,757,621	13,000	255,100	433,800	84,500	1,005,476	101,122	157,500			
Premcor Refining Group Inc Port Arthur	75,000	0	0	134,800	0	58,000	0	0			
Targa Downstream LLC Mont Belvieu	0	0	0	0	0	0	0	0			
Texas International Terminals Galveston	0	0	0	0	0	0	0	0			
The San Antonio Refinery LLC San Antonio	0	0	0	0	0	0	6,000	0			
TotalEnergies Petrochem & Refg USA Port Arthur	80,000	0	0	0	0	43,000	0	15,500			
Trecora Hydrocarbons LLC Silsbee	0	0	0	0	0	5,200	0	0			
Valero Refining Co Texas LP Corpus Christi	95,500	0	0	51,000	0	39,000	11,000	0			
Houston Texas City	75,200 86,000	0	75,000 0	0	0	0	0	18,000 33,500			
Western Refining Company LP El Paso	35,000	0	0	0	0	31,000	0	0			
WRB Refining LP Borger	61,226	0	0	0	0	0	31,622	0			
Utah	74,700	0	0	15,000	0	0	38,000	6,000			
Big West Oil Co North Salt Lake	12,500	0	0	0	0	0	9,000	0			
Chevron USA Inc Salt Lake City	15,500	0	0	0	0	0	9,100	0			
HF Sindair Woods Cross Refining LLC Woods Cross	18,200	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 Sa l t Lake City	28,500	0	0	0	0	0	11,500	0			
Washington	148,579	3,000	0	65,000	0	113,405	28,500	24,000			
BP Products North America Inc Ferndale	0	0	0	65,000	0	65,400	0	0			
HF Sindair Puget Sound Refg LLC Anacortes	57,900	0	0	0	0	0	21,700	0			
Phillips 66 Company Ferndale	39,179	0	0	0	0	18,505	0	C			
Tesoro Refining & Marketing Co Anacortes	51,500	3,000	0	0	0	29,500	0	24,000			
US Oil & Refining Co Tacoma	0	0	0	0	0	0	6,800	0			
West Virginia	0	0	0	0	0	4,700	0	0			
Ergon West Virginia Inc	0	0	0	0	0	4,700	0	0			

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2025 (Barrels per Stream Day, Except Where Noted)

			Downstre	am Charge Capac	ity			
		Des	sulfurization (in	cl. Catalytic Hydro	treating)			
State/Refiner/Location	Naphtha/ Reformer Feed	Gasoline	Kerosene/ Jet Fuel	Diesel Fuel	Other Distillate	Residual	Heavy Gas Oil	Other
Texas	1,487,779	1,095,420	685,473	1,492,220	0	75,000	985,185	294,100
Premcor Refining Group Inc Port Arthur	58,000	90,000	33,000	104,600	0	0	60,000	0
Targa Downstream LLC Mont Belvieu	0	0	0	0	0	0	0	45,000
Texas International Terminals Galveston	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
TotalEnergies Petrochem & Refg USA Port Arthur	57,500	51,600	31,000	80,000	0	0	54,400	0
Trecora Hydrocarbons LLC Silsbee	11,000	0	0	0	0	0	0	4,000
Valero Refining Co Texas LP Corpus Christi Houston Texas City	57,000 9,000 25,000	54,500 38,240 61,500	10,000 18,000 28,000	72,000 0 55,000	0	75,000 0 0	25,000 0 110,000	0 0 6,500
Western Refining Company LP El Paso	34,000	38,500	9,500	49,000	0	0	0	0,300
WRB Refining LP Borger	67,789	0	15,173	28,646	0	0	78,334	0
Utah	46,400	13,000	2,900	51,800	31,500	0	0	7,200
Big West Oil Co North Salt Lake	11,800	0	0	13,000	0	0	0	0
Chevron USA Inc Salt Lake City	9,100	0	0	13,300	20,700	0	0	7,200
HF Sinclair 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	12,000	13,000	0	22,500	0	0	0	0
Washington	205,144	108,933	45,000	176,767	0	0	0	0
BP Products North America Inc	100,500	0	20,000	59,400	0	0	0	0
HF Sinclair Puget Sound Refg LLC Anacortes	21,700	43,900	25,000	39,900	0	0	0	0
Phillips 66 Company Ferndale	19,444	37,033	0	40,367	0	0	0	0
Tesoro Refining & Marketing Co Anacortes	52,500	28,000	0	28,500	0	0	0	0
US Oil & Refining Co Tacoma	11,000	0	0	8,600	0	0	0	0
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

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2025 (Barrels per Stream Day, Except Where Noted)

	Atmospheric Cr	ude Oil Dis	stillation Capaci	ty		Downstr	eam Charge Capac	ity	
	Barrels pe	I	Barrels p				Thermal Crac	king	
State/Refiner/Location	Calendar Da	ay Idle	Stream D Operating	ay Idle	Vacuum Distillation	Delayed Coking	Fluid Coking	Visbreaking	Other/Gas Oil
State/Refiller/Location	Operating	lule	Operating	lule	Distillation	Coking	Fluid Coking	Visbreaking	
Wisconsin	45,932	0	50,000	0	29,100	0	0	0	(
Superior Refining Company LLC Superior	45,932	0	50,000	0	29,100	0	0	0	(
Wyoming	127,000	0	147,600	0	51,000	20,000	0	0	(
HF Sinclair Casper Refining Company Evansville		0	32,200	0	0	0	0	0	(
HF Sinclair Wyoming Refining Co Sinclair	75,000	0	92,000	0	51,000	20,000	0	0	(
Silver Eagle Refining Evanston	3,000	0	3,400	0	0	0	0	0	(
Wyoming Refining Co Newcastle	18,000	0	20,000	0	0	0	0	0	
U.S. Total	18,331,493	92,000	19,398,042	96,000	8,537,389	2,779,215	158,500	16,000	19,37

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2025 (Barrels per Stream Day, Except Where Noted)

			Downstrea	m Charge Cap	acity			
	Catalytic C	racking	Catal	ytic Hydrocrac	king	Catalytic F	Reforming	
State/Refiner/Location	Fresh	Recycled	Distillate	Gas Oil	Residual	Low Pressure	High Pressure	Fuels Solvent Deasphalting
Wisconsin	11,323	0	0	0	C	9,300	0	0
Superior Refining Company LLC Superior	11,323	0	0	0	C	9,300	0	0
Wyoming	40,000	40,000 500		0	C	5,000	20,400	0
HF Sinclair Casper Refining Company Evansville	10,500	500	0	0	C	5,000	0	0
HF Sinclair Wyoming Refining Co Sinclair	22,000	0	16,000	0	C	0	13,000	0
Silver Eagle Refining Evanston	0	0	0	0	C	0	2,900	0
Wyoming Refining Co Newcastle	7,500	0	0	0	C	0	4,500	0
U.S. Total	5,491,059	47,900	750,000	1,529,370	84,500	2,625,847	951,719	374,500

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2025 (Barrels per Stream Day, Except Where Noted)

			Downstre	am Charge Capac	ity			
		Des	sulfurization (in	cl. Catalytic Hydro	treating)			
State/Refiner/Location	Naphtha/ Reformer Feed	Gasoline	Kerosene/ Jet Fuel	Diesel Fuel	Other Distillate	Residual	Heavy Gas Oil	Other
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	38,100	6,500	14,000	35,800	0	0	20,000	0
HF Sinclair Casper Refining Company Evansville	8,200	6,500	0	11,200	0	0	0	0
HF Sinclair Wyoming Refining Co Sinclair	21,500	0	14,000	18,500	0	0	20,000	0
Silver Eagle Refining Evanston	3,900	0	0	0	0	0	0	0
Wyoming Refining Co Newcas tl e	4,500	0	0	6,100	0	0	0	0
U.S. Total	4,600,580	2,982,192	1,671,278	4,454,089	242,561	75,000	2,833,200	581,734

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

LA	Lazarus Energy LLC	TX
TX	Lima Refining Company	ОН
PA	Lion Oil Co	AR
UT	Magellan Processing LP	TX
IN, WA	Lunday Thagard Co	CA
TX	Marathon Petroleum Co LP	IL, KY, LA, MI, OH, TX
LA	PDV Midwest Refining LLC	IL
LA	Par Hawaii Refining LLC	HI
MT	Par Montana LLC	MT
LA	Pasadena Performance Products LLC	TX
LA	Pasadena Refining Systems Inc	TX
MT	Paulsboro Refining Co LLC	NJ
LA	Petro Star Inc	AK
CA, MS, UT	Petromax Refining Co LLC	TX
KS	Martinez Refining Co LLC	CA
LA	Phillips 66 Company	CA, LA, MT, NJ, OK, TX, WA
TX	Placid Refining Co	LA
AK	Premcor Refining Group Inc	TX
IN	- '	CA
NJ	Monroe Energy LLC	PA
AR	Shell Oil Products US	LA
KS	Motiva Enterprises LLC	TX
OK		ОН
TX		UT, WY
DE		MN
TX		СО
TX		WI
TX		CA
	• •	TX
		AK
		CA, ND, UT, WA
		TX
		TX
		ОН
	-	CA
		TX
		OK
	-	TX
		WA
		CA
		PA
		TN
		LA
	-	
	-	CA TX
	-	
	· ·	LA
		AL II TY
	_	IL, TX
	- ' '	TX WY
	TX PA UT IN, WA TX LA LA MT LA LA MT LA CA, MS, UT KS LA TX AK IN NJ AR KS OK TX DE TX	TX Lima Refining Company

Table 4. Production Capacity of Operable Petroleum Refineries by State as of January 1, 2025 (Barrels per Stream Day, Except Where Noted)

				<u></u>	somers					
State/Refiner/Location	Alkylates	Aromatics	Asphalt and Road Oil	Sobutane	Isopentane and Isohexane	Isooctane	Lubricants	Marketable Petroleum Coke	a Hydrogen (MMcfd)	Sulfur (short tons per day)
АІврата	0	0	26.000	1.150	0006	0	0	8.000	45	233
Hunt Refining Co										
Tuscaloosa	0	0	26,000	0	000'6	0	0	8,000	45	200
Saraland	0	0	0	1,150	0	0	0	0	0	33
Alaska	0	0	12,500	0	2,000	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	2,000	0	21,300	0	8,000	0	5,350	0	13	06
Cross Oil Refining & Marketing Inc Smackover	0	0	800	0	0	0	5,350	0	က	0
Lion Oil Co El Dorado	5,000	0	20,500	0	8,000	0	0	0	10	06
California	193,962	1,500	25,950	45,400	121,600	0	39,800	110,582	944	4,138
Chevron USA Inc El Segundo	33 300	C	C	10.500	22.300	c	C	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	Ξ
Lunday Thagard Co										
South Gate	0	0	3,750	0	0	0	0	0	0	0
Martinez Refining Co LLC Martinez	12,800	0	0	0	15,000	0	0	000'6	179	413

Table 4. Production Capacity of Operable Petroleum Refineries by State as of January 1, 2025 (Barrels per Stream Day, Except Where Noted)

					somers					
			Asphalt		sopentane			Marketable	œ	Sulfur
State/Refiner/Location	Alkylates	Aromatics	and Road Oil	Isobutane	and Isohexane	Isooctane	Lubricants	Petroleum Coke	Hydrogen (MMcfd)	(short tons per day)
Phillips 66 Company		,	,	1	:	,	,	:		;
Wilmington	16,600	0	0	2,000	12,800	0	0	12,962	100	340
San Joaquin Refining Co Inc Bakersfield	0	1,500	8,000	0	0	0	5,800	0	4	9
Talley Asphalt Products Inc										
Kern	0	0	1,700	0	0	0	0	0	0	0
Tesoro Refining & Marketing Co										
Carson	29,500	0	0	16,500	25,500	0	0	22,640	122	749
Torrance Refining Co LLC										
Torrance	30,000	0	0	0	0	0	0	19,180	0	400
Ultramar Inc										
Wilmington	22,000	0	0	0	0	0	0	10,000	0	280
Valero Refining Co California										
Benicia	17,100	0	000'6	4,200	0	0	0	008'9	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	411
Delaware	12,500	5,191	0	6,000	0	0	0	13,620	65	596
Delaware City Refining Co LLC Delaware City	12,500	5,191	0	9'000	0	0	0	13,620	65	296
Hawaii	0	0	0	0	0	0	0	0	18	38
Par Hawaii Refining LLC Kapolei	0	0	0	0	0	0	0	0	8	38
Illinois	98,570	17,100	43,100	0	16,000	0	0	73,559	183	2,187

Table 4. Production Capacity of Operable Petroleum Refineries by State as of January 1, 2025 (Barrels per Stream Day, Except Where Noted)

					3000					
			Asphalt		Isopentane			Marketable		Sulfur
State/Refiner/Location	Alkylates	Aromatics	and Road Oil	Sobutane	and Sohexane	Sooctane	Lubricants	Petroleum Coke	Hydrogen (MMcfd)	(short tons per day)
ExxonMobil Refining & Supply Co										
Joliet	32,000	0	17,100	0	0	0	0	26,000	0	683
Marathon Petroleum Co LP Robinson	19,000	3,300	0	0	16,000	0	0	7,890	0	192
Lemont	24,800	9,400	0	0	0	0	0	12,900	12	487
WRB Refining LP Wood River	22,770	4,400	26,000	0	0	0	0	26,769	171	825
Indiana	34,400	16,800	33,200	0	31,750	0	0	30,000	0	1,913
BP Products North America Inc Whiting	32,000	16,800	29,500	0	27,900	0	0	30,000	0	1,904
Countrymark Refining & Logistics LLC Mount Vernon	2,400	0	3,700	0	3,850	0	0	0	0	6
Kansas	33,500	0	4,000	4,000	27,000	0	0	24,190	156	795
CHS McPherson Refinery Inc McPherson	10,500	0	0	2,500	12,000	0	0	8,490	78	287
CVK Ketining CVL LLC Coffeyville	000'6	0	0	0	0	0	0	8,700	22	193
HF Sinclair El Dorado Refining LLC El Dorado	14,000	0	4,000	1,500	15,000	0	0	7,000	56	315
Kentucky	25,000	2,500	35,400	0	20,000	0	0	0	0	438
Marathon Petroleum Co LP Catlettsburg	25,000	2,500	35,400	0	20,000	0	0	0	0	438
Louisiana	230,120	34,400	86,769	23,000	94,720	0	000'99	164,855	118	5,876
Alon Refining Krotz Springs Inc Krotz Springs	6,000	0	0	0	6,220	0	0	0	0	0

Table 4. Production Capacity of Operable Petroleum Refineries by State as of January 1, 2025 (Barrels per Stream Day, Except Where Noted)

			_		somers					
			Asphalt		sopentane			Marketable	n	Sulfur
State/Refiner/Location	Alkylates	Aromatics	and Road Oil	Sobutane	and Sohexane	sooctane	Lubricants	Petroleum Coke	Hydrogen (MMcfd)	(short tons per day)
Calumet Cotton Valley Refining LLC						-				
Cotton Valley	0	0	0	0	200	0	0	0	2	0
Calumet Princeton Refining LLC Princeton	C	C	0000	C	C	0	7 000	C	4	m
Column Shravanat Dafining 11	•)	Î))	,))
ShreveportShreveport	0	0	6,500	0	0	0	12,500	0	12	40
Chalmette Refining LLC										
Chalmette	16,800	10,500	0	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	43,200	0	40,000	0	0	0	16,500	31,525	0	944
Marathon Petroleum Co LP										
Garyville	52,500	0	33,000	23,000	35,000	0	0	33,275	0	1,402
Phillips 66 Company										
Westlake	9,920	0	5,269	0	25,000	0	0	22,919	0	337
Placid Refining Co										
Port Allen	7,500	0	0	0	0	0	0	0	0	22
Shell Oil Products US										
Norco	18,100	0	0	0	0	0	0	7,316	0	509
Valero Refining - Meraux LLC										
Meraux	0	0	0	0	0	0	0	0	0	224
Valero Refining New Orleans LLC										
Norco	48,000	3,000	0	0	0	0	0	24,000	100	840
Michigan	8 500	c	32 000	c	c	c	c	12 850	c	135
	6	•	200120	•	•	•	•	2001-1	•	2
Marathon Petroleum Co LP										
Detroit	8,500	0	32,000	0	0	0	0	12,850	0	435

Table 4. Production Capacity of Operable Petroleum Refineries by State as of January 1, 2025 (Barrels per Stream Day, Except Where Noted)

					somers					
			Asphalt		Isopentane		_	Marketable	ro	Sulfur
State/Refiner/Location	Alkylates	Aromatics	and Road Oil	Isobutane	and Isohexane	Isooctane	Lubricants	Petroleum Coke	Hydrogen (MMcfd)	(short tons per day)
Minnesota	21,000	0	64,500	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	7,000	0	19,500	0	15,500	0	0	0	10	110
Mississippi	22,600	15,600	16,125	0	0	0	48,000	35,500	242	1,264
Chevron USA Inc Pascagoula	22,600	15,600	0	0	0	0	25,000	35,500	229	1,264
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	16,980	0	39,000	5,250	1,500	0	0	15,274	144	538
Calumet Montana Refining LLC Great Falls	750	0	4,700	0	1,500	0	0	0	Ŋ	0
Cenex narvest oxates Coop Laurel	4,000	0	19,800	1,250	0	0	0	4,800	70	243
Par Montana LLC Billings	5,100	0	14,500	0	0	0	0	4,000	23	0
Phillips 66 Company Billings	7,130	0	0	4,000	0	0	0	6,474	46	295
Nevada	0	0	1,600	0	0	0	0	0	0	0
Foreland Refining Corp Ely	0	0	1,600	0	0	0	0	0	0	0
New Jersey	18,961	0	21,000	4,000	0	0	12,000	0	31	320

Table 4. Production Capacity of Operable Petroleum Refineries by State as of January 1, 2025 (Barrels per Stream Day, Except Where Noted)

				<u> </u>	somers					
			Asphalt		Isopentane			Marketable	ď	Sulfur
State/Refiner/Location	Alkylates	Aromatics	and Road Oil	sobutane	and Isohexane	Isooctane	Lubricants	Petroleum Coke	Hydrogen (MMcfd)	(short tons per day)
Paulsboro Refining Co LLC Paulsboro	0	0	21,000	0	0	0	12,000	0	6	320
Phillips 66 Company Linden	18,961	0	0	4,000	0	0	0	0	22	0
New Mexico	9,500	0	7,000	0	0	0	0	0	38	224
HF Sinclair Navajo Refining LLC Artesia	9,500	0	7,000	0	0	0	0	0	38	224
North Dakota	5,500	0	0	0	0	0	0	0	0	15
Tesoro Refining & Marketing Co Mandan	5,500	0	0	0	0	0	0	0	0	51
Ohio	29,950	20,000	26,000	4,500	18,700	0	0	16,300	0	951
Lima Refining Company Lima	0	9,200	0	4,500	18,700	0	0	6,300	0	269
Canton	8,500	0	17,000	0	0	0	0	0	0	104
Ohio Refining Company LLC Toledo	11,500	0	000'6	0	0	0	0	10,000	0	462
Toledo Refining Co LLC	9,950	10,800	0	0	0	0	0	0	0	116
Oklahoma	34,895	21,000	21,700	006	13,000	0	006'6	9,612	62	275
CVR Refining WYN LLC Wynnewood	5,500	21,000	0	0	0	0	0	0	0	0
HF Sinclair Tulsa Refining LLC Tulsa East	5,500	0 (15,200	0	13,000	0 (0	0	0 (75
Tulsa West	0	0	6,500	006	0	0	6,900	2,750	0	0

Table 4. Production Capacity of Operable Petroleum Refineries by State as of January 1, 2025 (Barrels per Stream Day, Except Where Noted)

					somers					
			Asphalt		Isopentane			Marketable	n	Sulfur
State/Refiner/Location	Alkylates	Aromatics	and Road Oil	Sobutane	and Sohexane	Isooctane	Lubricants	Petroleum Coke	Hydrogen (MMcfd)	(short tons per day)
Phillips 66 Company Ponca City	16,883	0	0	0	0	0	0	6,862	35	0
Valero Refining Co Oklahoma ArdmoreArdmore	7,012	0	0	0	0	0	0	0	27	200
Pennsylvania	16,500	0	23,560	0	9,280	0	2,945	0	10	157
American Refining Group Inc Bradford	0	0	260	0	780	0	2,945	0	0	0
Monroe Energy LLC Trainer	12,000	0	0	0	0	0	0	0	0	06
United Kefining Co Warren	4,500	0	23,000	0	8,500	0	0	0	10	29
Tennessee	17,000	29,000	0	0	0	0	0	0	30	116
Valero Ref Company Tennessee LLC Memphis	17,000	29,000	0	0	0	0	0	0	30	116
Texas	462,088	180,318	47,700	55,100	156,900	0	72,900	302,004	436	16,613
Alon USA Energy Inc Big Spring	5,000	1,000	7,600	0	0	0	0	0	0	100
Citgo Refining & Chemical Inc Corpus Christi	24,878	16,270	0	0	0	0	0	16,999	0	366
Deer Park Kerning LP Deer Park	21,000	0	0	0	0	0	0	26,100	0	1,220
Tyler	4,720	0	0	0	0	0	0	1,500	0	39
Diamond Shamrock Retining Co LP Sunray	9,800	0 10,800	5,500	3,000	0 0	0 0	0 0,1	0 0	30	75
					,			•		}

Table 4. Production Capacity of Operable Petroleum Refineries by State as of January 1, 2025 (Barrels per Stream Day, Except Where Noted)

					Isomers					
			Asphalt		Sopentane			Marketable	:	Sulfur
State/Refiner/Location	Alkylates	Aromatics	and Road Oi l	sobutane	and Isohexane	Sooctane	Lubricants	Petroleum Coke	Hydrogen (MMcfd)	(short tons per day)
Equistar Chemica ls LP										
Channelview	22,370	0	0	0	0	0	0	0	0	0
ExxonMobil Refining & Supply Co										
Baytown	42,000	0	0	0	0	0	32,000	22,750	0	1,828
Beaumont	16,300	0	0	14,600	38,600	0	0	15,039	0	661
Flint Hills Resources LP										
Corpus Christi East	0	0	0	0	0	0	0	0	0	102
Corpus Christi West	15,500	0	0	0	0	0	0	0	0	160
Houston Refining LP										
Houston	11,250	0	0	0	0	0	0	30,150	0	1,123
Marathon Petroleum Co LP										
Galveston Bay	67,000	92,000	0	0	0	0	0	11,910	0	1,332
Motiva Enterprises LLC										
Port Arthur	21,800	0	0	0	58,500	0	39,000	50,975	0	3,203
Pasadena Performance Products LLC										
Pasadena	43,000	0	0	0	0	0	0	0	0	0
Phillips 66 Company										
Sweeny	27,304	21,553	0	0	10,100	0	0	22,653	140	869
Premcor Refining Group Inc										
Port Arthur	19,500	0	0	0	0	0	0	52,325	0	2,178
TotalEnergies Petrochem & Refg USA										
Port Arthur	7,500	13,600	0	0	7,800	0	0	19,200	0	806
Trecora Hydrocarbons LLC										
Silsbee	0	3,640	0	0	4,400	0	0	0	0	0
Valero Refining Co Texas LP										
Corpus Christi	24,500	16,455	30,600	16,000	0	0	0	5,919	160	1,142
Houston	28,875	0	0	0	0	0	0	0	0	336
Texas City	14,700	0	0	0	6,500	0	0	19,000	0	089
Western Refining Company LP										
El Paso	13,500	0	4,000	3,500	0	0	0	0	10	0

Table 4. Production Capacity of Operable Petroleum Refineries by State as of January 1, 2025 (Barrels per Stream Day, Except Where Noted)

					o.c.					
								:		:
State/Refiner/Location	Alkylates	Aromatics	Asphalt and Road Oil	Sobutane	Isopentane and Isohexane	Isooctane	Lubricants	Marketable Petroleum Coke	Hydrogen (MMcfd)	Sulfur (short tons per day)
WRB Refining LP Borger	14,591	0	0	15,000	31,000		0	7,484	96	340
Utah	21,700	0	1,800	3,318	6,300	0	0	2,500	0	92
Big West Oil Co North Salt Lake	3,200	0	0	1,900	3,300	0	0	0	0	n
Chevron USA Inc Salt Lake City	5,200	0	0	1,418	0	0	0	2,500	0	63
HF Sinclair 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	8,000	0	0	0	0	0	0	0	0	16
Washington	42,211	0	000'6	11,600	31,000	0	0	23,650	188	837
BP Products North America Inc Ferndale	0	0	0	0	26,000	0	0	15,250	188	328
Anacortes	12,500	0	0	0	0	0	0	8,400	0	350
Phillips 66 Company Femdale	12,711	0	0	2,900	0	0	0	0	0	100
Tesoro Refining & Marketing Co Anacortes	17,000	0	0	8,700	0	0	0	0	0	48
US Oll & Retining Co Tacoma	0	0	00006	0	5,000	0	0	0	0	7
West Virginia	0	0	700	0	0	0	000'9	0	က	-
Ergon West Virginia Inc Newell	0	0	700	0	0	0	6,000	0	ю	~
Wisconsin	1,700	6,100	20,000	0	0	0	0	0	0	37

Table 4. Production Capacity of Operable Petroleum Refineries by State as of January 1, 2025 (Barrels per Stream Day, Except Where Noted)

					Isomers					
State/Refiner/Location	Alkylates	Aromatics	Asphalt and Road Oil	Sobutane	Isopentane and Isohexane	sooctane	Lubricants	Marketable Petroleum Coke	a Hydrogen (MMcfd)	Sulfur (short tons per day)
Superior Refining Company LLC Superior	1,700	6,100	20,000	0	0	0	0	0	0	37
Wyoming	6,300	0	8,000	0	0	0	0	5,800	52	213
HF Sinclair Casper Refining Company Evansville	0	0	0	0	0	0	0	0	0	10
HF Sinclair Wyoming Refining Co Sinclair	5,000	0	8,000	0	0	0	0	5,800	52	203
Wyoming Refining Co Newcastle	1,300	0	0	0	0	0	0	0	0	0
U.S. Total	1,368,437	349,509	641,104	164,218	603,250	0	262,895	876,696	3,022	39,872

ancludes hydrogen production capacity of hydrogen plants on refinery grounds and operated by the refinery operator.

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, 2025

	Barrels per alendar Day	CORPORATION / Refiner / Location	Barrels per Calendar Day
Companies with Capacity Over 100,000 bbl/cd		Three Rivers, Texas	89,000
MARATHON PETROLEUM CORP	2,963,000	Valero Refining New Orleans LLC	
Marathon Petroleum Co LP		Norco, Louisiana	215,000
Galveston Bay, Texas	631,000	Valero Ref Company Tennessee LLC	
Garyville, Louisiana	606,000	Memphis, Tennessee	180,000
Catlettsburg, Kentucky	300,000	Valero Refining Co California	
Robinson, Illinois	253,000	Benicia, California	
Detroit, Michigan	144,000	Wilmington, California	6,300
Canton, Ohio	100,000	Valero Refining - Meraux LLC	
Tesoro Refining & Marketing Co		Meraux, Louisiana	125,000
Carson, California	365,000	Valero Refining Co Oklahoma	
Anacortes, Washington	119,000	Ardmore, Oklahoma	86,000
Mandan, North Dakota	71,000	Ultramar Inc	
Salt Lake City, Utah	68,000	Wilmington, California	85,000
Western Refining Company LP		EXXONMOBIL CORP	1,962,940
El Paso, Texas	133,000	ExxonMobil Refining & Supply Co	
St Paul Park Refining Co LLC		Beaumont, Texas	612,000
Saint Paul, Minnesota	105,000	Baytown, Texas	564,440
Tesoro Alaska Company LLC		Baton Rouge, Louisiana	522,500
Kenai, A l aska	68,000	Joliet, Illinois	264,000
VALERO ENERGY CORP	2,226,300	PHILLIPS 66 COMPANY	1,313,100
Valero Refining Co Texas LP		Phillips 66 Company	
Corpus Christi, Texas	290,000	Sweeny, Texas	264,500
Texas City, Texas	225,000	Westlake, Louisiana	263,700
Houston, Texas	205,000	Linden, New Jersey	258,500
Premcor Refining Group Inc		Ponca City, Oklahoma	216,700
Port Arthur, Texas	380,000	Wilmington, California	138,700
Diamond Shamrock Refining Co LP		Ferndale, Washington	105,000
Sunray, Texas	195,000	Billings, Montana	66,000

Table 5. Refiners' Total Operable Atmospheric Crude Oil Distillation Capacity as of January 1, 2025

CORPORATION / Refiner / Location	Barrels per Calendar Day	CORPORATION / Refiner / Location	Barrels per Calendar Day
CHEVRON CORP	1,060,181	HF SINCLAIR CORP	717,630
Chevron USA Inc		HF Sinclair El Dorado Refining LLC	
Pascagoula, Mississippi	356,440	El Dorado, Kansas	162,000
El Segundo, Ca l ifornia	285,000	HF Sindair Tu l sa Refining LLC	
Richmond, California	245,271	Tulsa West, Oklahoma	85,000
Salt Lake City, Utah	54,720	Tulsa East, Oklahoma	70,300
Pasadena Refining Systems Inc		HF Sinclair Puget Sound Refg LLC	
Pasadena, Texas	118,750	Anacortes, Washington	145,000
PBF ENERGY CO LLC	1,042,200	HF Sindair Navajo Refining LLC	
Challmette Refining LLC		Artesia, New Mexico	110,000
Chalmette, Louisiana	190,000	HF Sinclair Wyoming Refining Co	
Toledo Refining Co LLC		Sinclair, Wyoming	75,000
Toledo, Ohio	172,800	HF Sindair Woods Cross Refining LLC	
Delaware City Refining Co LLC		Woods Cross, Utah	39,330
Delaware City, Delaware	171,000	HF Sindair Casper Refining Company	
Paulsboro Refining Co LLC		Evansville, Wyoming	31,000
Paulsboro, New Jersey	160,000	KOCH INDUSTRIES INC	691,000
Torrance Refining Co LLC		Flint Hills Resources LP	
Torrance, California	160,000	Saint Paul, Minnesota	335,000
Martinez Refining Co LLC		Corpus Christi West, Texas	268,500
Martinez, California	156,400	Corpus Christi East, Texas	87,500
CPI Operations LLC		BP PLC	673,500
Paulsboro, New Jersey	32,000	BP Products North America Inc	
PDV AMERICA INC	812,823	Whiting, Indiana	435,000
Citgo Petroleum Corp		Ferndale, Washington	238,500
Lake Charles, Louisiana	459,800	SAUDI ARAMCO	
PDV Midwest Refining LLC		Motiva Enterprises LLC	
Lemont, Illinois	188,023	Port Arthur, Texas	640,500
Citgo Refining & Chemical Inc			
Corpus Christi, Texas	165,000		

Table 5. Refiners' Total Operable Atmospheric Crude Oil Distillation Capacity as of January 1, 2025

CORPORATION / Refiner / Location	Barrels per Calendar Day	CORPORATION / Refiner / Location	Barrels per Calendar Day
WRB REFINING LP	494,000	SHELL PLC	
WRB Refining LP		Shell Oil Products US	
Wood River, Illinois (50% Phillips 66, 50% Cenovus)	345,000	Norco, Louisiana	231,827
Borger, Texas	149,000	PAR PACIFIC HOLDINGS	213,700
(50% Phillips 66, 50% Cenovus)	140,000	Par Hawaii Refining LLC	
CENOVUS ENERGY INC	379,732	Kapolei, Hawaii	93,500
Lima Refining Company		Par Montana LLC	
Lima, Ohio	183,000	Billings, Montana	61,500
Ohio Refining Company LLC		US Oil & Refining Co	
Toledo, Ohio	150,800	Tacoma, Washington	40,700
Superior Refining Company LLC		Wyoming Refining Co	
Superior, Wisconsin	45,932	Newcastle, Wyoming	18,000
PEMEX		CVR ENERGY	206,500
Deer Park Refining LP		CVR Refining CVL LLC	
Deer Park, Texas	312,500	Coffeyville, Kansas	132,000
DELEK GROUP LTD	310,000	CVR Refining WYN LLC	
Lion Oil Co		Wynnewood, Oklahoma	74,500
El Dorado, Arkansas	83,000	DELTA AIR LINES INC	
Alon Refining Krotz Springs Inc		Monroe Energy LLC	
Krotz Springs, Louisiana	80,000	Trainer, Pennsylvania	190,000
Delek Refining LTD		CHS INC	176,700
Tyler, Texas	74,000	CHS McPherson Refinery Inc	
Alon USA Energy Inc		McPherson, Kansas	114,200
Big Spring, Texas	73,000	Cenex Harvest States Coop	
ACCESS INDUSTRIES		Laurel, Montana	62,500
Houston Refining LP		TRANSWORLD OIL USA INC	
Houston, Texas	263,776	Calcasieu Refining Co	
TOTALENERG I ES SE		Lake Charles, Louisiana	135,500
TotalEnergies Petrochem & Refg USA			
Port Arthur, Texas	238,000		

Table 5. Refiners' Total Operable Atmospheric Crude Oil Distillation Capacity as of January 1, 2025

CORPORATION / Refiner / Location	Barrels per Calendar Day	CORPORATION / Refiner / Location	Barrels per Calendar Day
KINDER MORGAN ENERGY PTNRS LP		United Refining Co	
Kinder Morgan Crude & Condensate		Warren, Pennsylvania	67,000
Galena Park, Texas	105,000	HUNT CONSLD INC	61,000
SUNCOR ENERGY INC	103,000	Hunt Refining Co	
Suncor Energy (USA) Inc		Tuscaloosa, Alabama	50,000
Commerce City West, Colorado	67,000	Hunt Southland Refining Co	
Commerce City East, Colorado	,	Sandersville, Mississippi	11,000
Total	17,463,409	BUCKEYE PARTNERS LP	,
Companies with Capacity 30,001 to 100,000 bbl/cd			
CALUMET SPECIALTY PRODUCTS PARTNERS, L.P.	93,320	Buckeye Texas Processing LLC	
Calumet Shreveport Refining LLC		Corpus Christi, Texas	60,000
Shreveport, Louisiana	57,000	ONEOK INC	
Calumet Montana Refining LLC		Magellan Processing LP	
Great Falls, Montana	15.000	Corpus Christi, Texas	50,000
	13,000	ERGON INC	48,800
Calumet Cotton Valley Refining LLC		Ergon Refining Inc	
Cotton Valley, Louisiana	13,020	Vicksburg, Mississippi	26,500
Calumet Princeton Refining LLC		Ergon West Virginia Inc	
Princeton, Louisiana	8,300	Newell, West Virginia	22,300
VERTEX ENERGY LP		HARTREE PARTNERS LP	
Vertex Refining Alabama LLC		Hartree Refining LLC	
Saraland, Alabama	88,000	Channelview, Texas	45,000
ARCTIC SLOPE REGIONAL CORP	86,500		40,000
Petro Star Inc		TEXAS INTL TERMINALS	
Valdez, Alaska	62,500	Texas International Terminals	
North Pole, Alaska	24,000	Galveston, Texas	45,000
PLACID OIL CO		COUNTRYMARK COOP INC	
Placid Refining Co		Countrymark Refining & Logistics LLC	
	75 000	Mount Vernon, Indiana	34,500
Port Allen, Louisiana	75,000		
RED APPLE GROUP INC			

Table 5. Refiners' Total Operable Atmospheric Crude Oil Distillation Capacity as of January 1, 2025

CORPORATION / Refiner / Location	Barrels per Calendar Day	CORPORATION / Refiner / Location	Barrels per Calendar Day
FJ MANAGEMENT INC		Bradford, Pennsylvania	11,000
Big West Oil Co		Total	144,000
North Salt Lake, Utah	31,664	Companies with Capacity 10,000 bbl/cd or Less	
Total	785,784	WORLD OIL CO	
Companies with Capacity 10,001 to 30,000 bbl/cd		Lunday Thagard Co	
KERN OIL & REFINING CO		South Gate, California	8,500
Kern Oil & Refining Co		MARTIN RESOURCE MGMT CORP	
Bakersfield, California	26,000	Cross Oil Refining & Marketing Inc	
PETROMAX REFINING CO LLC		Smackover, Arkansas	7,500
Petromax Refining Co LLC			7,500
Houston, Texas	25,000	HILCORP ENERGY CO	
STARLIGHT RELATIVITY ACQUISITION CO		Hilcorp North Slope LLC	
The San Antonio Refinery LLC		Prudhoe Bay, Alaska	6,500
San Antonio, Texas	20,000	GOODWAY REFINING LLC	
SILVER EAGLE REFINING INC	18,000	Goodway Refining LLC	
Silver Eagle Refining		Atmore, Alabama	4,100
Woods Cross, Utah	15,000	FORELAND REFINING CORP	
Evanston, Wyoming	3,000	Foreland Refining Corp	
CONOCOPHILLIPS CO		Ely, Nevada	2,000
ConocoPhillips Alaska Inc		TALLEY ASPHALT PRODUCTS INC	
Prudhoe Bay, Alaska	15,000	Talley Asphalt Products Inc	
SAN JOAQUIN REFINING CO INC		Kem, California	1,700
San Joaquin Refining Co Inc		Total	30,300
Bakersfield, California	15,000	U.S. Total	18,423,493
BLUE DOLPH I N ENERGY CO			
Lazarus Energy LLC			
Nixon, Texas	14,000		
AMERICAN REFINING GROUP INC			
American Refining Group Inc			

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

					Downstrea	m Charge Capacit	ty		
	Atmospheric					Catalytic			Fuels
Year/PAD	Crude Oil	Vacuum	Thermal	Catalytic	Cracking	Hydro-	Catalytic	Hydrotreating/	Solvent
District	Distillation	Distillation	Cracking	Fresh	Recycled	Cracking	Reforming	Desulfurization	Deasphalting
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
JAN 1, 2021	19,160	8,710	2,994	5,600	58	2,417	3,606	17,191	396
JAN 1, 2022	18,949	8,583	2,960	5,502	49	2,427	3,571	16,996	397
JAN 1, 2023	19,157	8,604	2,962	5,466	49	2,392	3,606	17,099	385
JAN 1, 2024	19,453	8,617	3,020	5,487	49	2,400	3,602	17,303	385
JAN 1, 2025	19,494	8,537	2,973	5,491	48	2,364	3,578	17,441	375
PADD I	966	391	55	305	5	47	183	778	22
PADD II	4,503	1,871	603	1,364	9	369	909	4,215	19
PADD III	10,649	4,704	1,729	2,842	17	1,421	1,861	9,467	248
PADD IV	699	244	76	213	1	37	121	570	6
PADD V	2,677	1,328	510	768	17	490	504	2,411	80
JAN 1, 2026	a 19,065	8,281	2,824	5,329	48	2,336	3,540	16,889	375
PADD I	966	391	55	305	5	47	183	778	22
PADD II	4,504	1,871	603	1,364	9	369	909	4,217	19
PADD III	10,375	4,532	1,632	2,732	17	1,421	1,863	9,072	248
PADD IV	699	244	76	213		37	121	570	7
PADD V	2,521	1,244	458	716	17	462	464	2,253	80
2025-2026 a	,	-256	-149	-162		-28	-38	-552	0
PADD I	0	0	0	0	0	0	0	0	0
PADD II	1	0	0	0		0	0	2	0
PADD III	- 274	-172	- 97	-110		0	2	-395	0
PADD IV	0	0	0	0		0	0	0	1
PADD V	-156		-52	- 52		- 28	-40	-158	0
I ADD V	-156	-04	- 52	-52	0	-20	-40	-158	U

^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.

Table 7. Operable Production Capacity of Petroleum Refineries (Thousand Barrels per Stream Day, Except Where Noted)

			Asphalt			Marketable		Sulfur
Year/PAD			and			Petroleum	a Hydrogen	(short
District	Alkylates	Aromatics	Road Oil	Isomers	Lubricants	Coke	(MMcfd)	tons/day)
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, 2001	1,181	313	917	658	218	548	3,244	29,107
JAN 1, 2002 JAN 1, 2003	1,191	316	873	679	216	646	3,265	29,766
	1,191	322	887	688	210	672		30,606
JAN 1, 2004	,						3,258	,
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
JAN 1, 2021	1,314	327	642	744	264	894	2,893	40,578
JAN 1, 2022	1,294	312	690	758	264	883	2,893	40,453
JAN 1, 2023	1,302	291	659	768	264	883	2,875	40,437
JAN 1, 2024	1,317	349	644	779	264	890	2,913	40,376
JAN 1, 2025	1,368	350	641	767	263	877	3,022	39,872
PADD I	48	5	45	19	21	14	109	1,074
PADD II	310	113	280	169	10	195	640	8,501
PADD III PADD IV	729 45	230 0	205 62	348 16	192 0	510 24	892 218	24,300 959
PADD V	236	2	49	215	40	134	1,163	5,038
	1,341	350	641	748	263	834	2,934	38,480
PADD I	48	5	45	19	21	14	109	1,074
PADD II	310	113	280	169	10	195	647	8,572
PADD III	718	230	205	348	192	481	897	23,177
PADD I V PADD V	45 220	0 2	62 49	16 195	0 40	24 121	218 1,063	959 4,698
2025-2026 b	-27	0	0	-19	0	-43	-88	-1.392
PADD	0	0	0	-19 0	0	-43 0	-88 0	-1,392 0
PADD II	0	0	0	0	0	0	7	71
PADD III	-11	0	0	0	0	- 29	5	-1,123
PADD IV	0	0	0	0	0	0	0	0
PADD V	-16	0	0	- 20	0	- 13	- 100	- 340

Includes hydrogen production capacity of hydrogen plants on refinery grounds and operated by the refinery operator.
 Projected data from refiners.

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.

Table 8. Capacity and Fresh Feed Input to Selected Downstream Units at U.S. Refineries, 2023 - 2025 (Barrels per Calendar Day)

Year/PAD	Cokers		Catalytic	Catalytic Crackers	Hydrocrackers	ackers	Reformers	ners
District	Capacity	Inputs	Capacity	Inputs	Capacity	Inputs	Capacity	Inputs
2023	2,675,408	2,247,271	5,063,828	4,372,230	2,211,475	1,803,679	3,323,502	2,772,236
PADD I	49,100	30,405	277,300	218,751	44,100	35,956	164,050	136,121
PADD II	552,714	471,625	1,257,319	1,068,436	332,195	282,170	833,344	691,658
PADD III	1,503,074	1,323,742	2,623,764	2,329,016	1,295,488	1,055,855	1,706,300	1,485,923
PADD IV	70,270	57,707	197,445	156,438	35,092	15,227	111,700	87,090
PADD V	500,250	363,792	708,000	599,589	504,600	414,471	508,108	371,444
2024	2,731,238	2,212,044	5,078,119	4,385,682	2,226,438	1,753,915	3,308,735	2,714,951
PADD I	49,100	37,792	277,300	236,756	43,100	39,219	164,050	132,619
PADD II	553,937	444,063	1,261,677	1,060,630	339,881	301,611	836,487	684,647
PADD III	1,557,581	1,323,288	2,628,997	2,317,589	1,302,265	1,020,014	1,704,698	1,458,732
PADD IV	70,270	55,263	199,145	167,052	35,092	15,466	111,300	96,378
PADD V	500,350	351,638	711,000	603,655	506,100	377,605	492,200	342,575
2025	2,694,542	AN	5,099,771	NA	2,201,801	NA	3,290,897	AN
PADD I	49,100	Ϋ́	279,800	Ϋ́	43,100	Ϋ́Z	164,050	Ϋ́Z
PADD II	555,341	NA	1,272,097	NA	343,141	NA	840,394	AN
PADD III	1,566,101	NA	2,636,629	NA	1,336,958	NA	1,712,376	AN
PADD IV	68,400	NA	198,345	NA	35,092	NA	111,300	AN
PADD V	455,600	ΑN	712,900	٧Z	443,510	NA	462,777	NA

NA = Not Available.

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

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

Inputs are from the form EIA-810, "Monthly Refinery Report." Year 2023 data are final, 2024 data are preliminary.

Table 9. Refinery Receipts of Crude Oil by Method of Transportation by PAD District, 2024 (Thousand Barrels)

		PAD Dis	tricts			
Method	I	II	III	IV	٧	United States
Pipeline	24,798	1,390,975	2,805,544	184,609	245,358	4,651,284
Domestic	2,769	747,257	2,316,309	90,008	120,901	3,277,244
Foreign	22,029	643,718	489,235	94,601	124,457	1,374,040
Tanker	241,136	0	414,809	0	467,198	1,123,143
Domestic	33,026	0	22,664	0	158,717	214,407
Foreign	208,110	0	392,145	0	308,481	908,736
Barge	3,546	16,316	93,123	0	29,615	142,600
Domestic	3,440	16,316	74,008	0	3,919	97,683
Foreign	106	0	19,115	0	25,696	44,917
Tank Cars (Rail)	9,034	0	9,017	0	42,784	60,835
Domestic	3,056	0	2,891	0	37,382	43,329
Foreign	5,978	0	6,126	0	5,402	17,506
Trucks	1,991	2,161	39,867	32,756	7,242	84,017
Domestic	1,877	2,161	39,867	32,756	6,892	83,553
Foreign	114	0	0	0	350	464
Total	280,505	1,409,452	3,362,360	217,365	792,197	6,061,879
Domestic	44,168	765,734	2,455,739	122,764	327,811	3,716,216
Foreign	236,337	643,718	906,621	94,601	464,386	2,345,663

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.

Table 10a. Fuel Consumed at Refineries by PAD District, 2024 (Thousand Barrels, Except Where Noted)

		P.	AD Districts			United	
Commodity	I	II	III	IV	V	States	
Crude Oi l	0	0	0	0	0	0	
Hydrocarbon Gas Liquids	0	954	302	0	1,167	2,423	
Distillate Fue l Oi l	0	17	164	0	54	235	
Residual Fuel Oil	3	23	96	0	0	122	
Still Gas	7,694	54,541	103,757	8,624	38,960	213,576	
Marketable Petroleum Coke	0	0	0	0	0	0	
Catalyst Petroleum Coke	5,057	16,637	36,352	2,399	10,392	70,837	
latural Gas (million cubic feet)	51,803	184,753	595,535	30,535	168,521	1,031,147	
Coal (thousand short tons)	0	0	0	0	0	0	
Purchased Electricity (million kWh)	1,723	13,083	22,502	2,478	3,854	43,640	
Purchased Steam (million pounds)	7,009	15,478	76,733	1,103	3,793	104,116	
Other Products	0	0	444	22	318	784	

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.)

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 at Refineries by PAD District, 2024 (Million Cubic Feet)

		P/	AD Districts			United
Commodity	1	II	III	IV	V	States
Natural Gas Used As Feedstock For Hydrogen Production	5,715	54,065	62,261	16,539	31,426	170,006

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

Table 11. New, Shutdown and Reactivated Refineries During 2024

PAD District / Refinery	Location	Total Atmospheric Crude Oil Distillation Capacity (bbl/cd)	Total Downstream Charge Capacity (bbl/sd)	Date Operable	Date of Last Operation	Date Shutdown
		c NEW				
PAD District III			43,000			
Pasadena Performance Products LLC	Pasadena, TX		43,000	02/24		
		d SHUTDOWN				
PAD District V		58,200	274,700			
Phillips 66 Company	Rodeo, CA	58,200	274,700		03/24	03/24

a bbl/cd=Barrels per calendar day.

b bbl/sd=Barrels per stream day.

^c Non-refinery with alkylation capacity added to the Annual Refinery Report as of January 1, 2025.

^d Converted to a renewable diesel plant

Table 12. Refinery Sales from January 2, 2024 to January 1, 2025

	Total Atmospheric Crude Oil Distillation Capacity		
Former Corporation/Refiner	(bbl/cd)	New Corporation/Refiner	Date of Sale

There were no refinery sales in 2024.

Table 13. Refineries Permanently Shutdown By PAD District Between January 1, 1990 and January 1, 2025

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		979,450	1,662,600			
GNC Energy Corp	Greensboro, NC	3,000	0		а	
Primary Energy Corp	Richmond, VA	6,100	0		а	
Saint Mary's Refining Co	Saint Mary's, WV	4,000	4,480	02/93	03/93	
Cibro Refining	A l bany, 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 Speciality Products LLC	Savannah, GA	28,000	0	09/12	11/14	
Axeon Specialty Products LLC	Paulsboro, NJ	74,000	32,000	04/17	09/17	
Philadelphia Energy Solutions	Phi l ade l phia, PA	335,000	686,700	08/19	05/20	
PAD District II		496,815	670,790			
Coastal Refining & Mktg	El Dorado, KS	0	20,000		b	
Intercoastal Energy Svcs Corp	Troy, İ N	1,250	2,250	11/90	03/91	
Farmland Industries	Phi l ipsburg, 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, I L	80,750	103,000	09/95	10/95	
Cyril Petrochemical Corp	Cyri l , OK	7,500	0	09/95	12/95	
Laketon Refining	Laketon, I N	11,100	0	06/95	01/96	
Total Petroleum, Inc.	Arkansas City, KS	56,000	74,840	08/96	09/96	
TPI Petro Inc.	A l ma, M l	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	
Dakota Prairie Refining LLC	Dickinson, ND	19,000	9,500	05/20	d	

Table 13. Refineries Permanently Shutdown By PAD District Between January 1, 1990 and January 1, 2025

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		832,426	1,447,640		
Imron Refining, Inc.	San Leon, TX	7,000	0		С
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		С
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	Ki l gore, 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
Gulf Atlantic Operations LLC	Mobi l e, 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
Western Refining Southwest Inc	Gallup, NM	27,000	37,500	04/20	09/20
Shell Oil Products US	Convent, LA	211,146	574,900	12/20	01/21
Phillips 66 Company	Belle Chasse, LA	255,600	483,340	08/21	a
PAD District IV		109,800	188,100		
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
HollyFrontier Cheyenne Refining LLC	Cheyenne, WY	48,000	104,400	08/20	d

Table 13. Refineries Permanently Shutdown By PAD District Between January 1, 1990 and January 1, 2025

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		723,560	1,312,450			
Gibson Oil & Refining	Bakersfie l d, 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		С	
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.	Bakersfie l d, 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	Bakersfie l d, 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	05/14	а	
Alon Bakersfield Operating Inc	Bakersfie l d, CA	0	52,000	12/08	09/17	
Paramount Petroleum Corporation	Paramount, CA	84,500	78,500	10/12	d	
Tesoro Refining & Marketing Co	Martinez, CA	161,000	532,400	04/20	d	
California Asphalt Production Inc	Santa Maria, CA	9,500		04/21	01/22	
Phillips 66 Company	Rodeo, CA	58,200	274,700	03/24	d	
U.S. Total		3,142,051	5,281,580			

Table 13. Refineries Permanently Shutdown By PAD District Between January 1, 1990 and January 1, 2025

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		380,700	807,200		
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
Port Hami l ton Refg & Transp Lllp	Kingshill, VI	176,400	480,000	05/21	08/22

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."

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

d. Converted to a renewable diesel plant





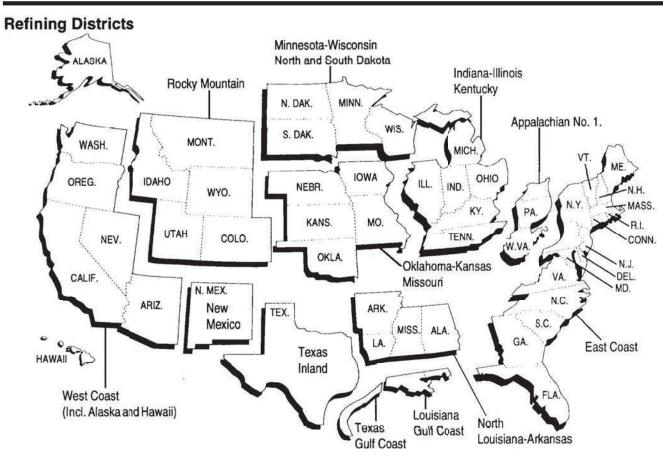
AFPM United States Refining Capacity Report

Appendix A:
District Descriptions and Maps



Petroleum Administration for Defense (PAD) Districts





District Descriptions and Maps

The following are the Refining Districts which make up the Petroleum Administration for Defense (PAD) Districts.

PAD District I

East Coast: The District of Columbia and the States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New Jersey, Delaware, Maryland, Virginia, North Carolina, South Carolina, Georgia, Florida, and the following counties of the State of New York: Cayuga, Tompkins, Chemung, and all counties east and north thereof. Also the following counties in the State of Pennsylvania: Bradford, Sullivan, Columbia, Montour, Northumberland, Dauphin, York, and all counties east thereof.

Appalachian No. 1: The State of West Virginia and those parts of the States of Pennsylvania and New York not included in the East Coast District.

Sub-PAD District I

New England: The States of Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island and Vermont.

Central Atlantic: The District of Columbia and the States of Delaware, Maryland, New Jersey, New York, and Pennsylvania.

Lower Atlantic: The States of Florida, Georgia, North Carolina, South Carolina, Virginia and West Virginia.

PAD District II

Indiana-Illinois-Kentucky: The States of Indiana, Illinois, Kentucky, Tennessee, Michigan, and Ohio.

Minnesota-Wisconsin-North and South Dakota: The States of Minnesota, Wisconsin, North Dakota, and South Dakota.

Oklahoma-Kansas-Missouri: The States of Oklahoma, Kansas, Missouri, Nebraska, and Iowa.

PAD District III

Texas Inland: The State of Texas except the Texas Gulf Coast District.

Texas Gulf Coast: The following counties of the State of Texas: Newton, Orange, Jefferson, Jasper, Tyler, Hardin, Liberty, Chambers, Polk, San Jacinto, Montgomery, Harris, Galveston, Waller, Fort Bend, Brazoria, Wharton, Matagorda, Jackson, Victoria, Calhoun, Refugio, Aransas, San Patricio, Nueces, Kleberg, Kenedy, Willacy, and Cameron.

Louisiana Gulf Coast: The following Parishes of the State of Louisiana: Vernon, Rapides, Avoyelles, Pointe Coupee, West Feliciana, East Feliciana, Saint Helena, Tangipahoa, Washington, and all Parishes south thereof. Also the following counties of the State of Mississippi: Pearl River, Stone, George, Hancock, Harrison, and Jackson. Also the following counties of the State of Alabama: Mobile and Baldwin.

North Louisiana-Arkansas: The State of Arkansas and those parts of the States of Louisiana, Mississippi, and Alabama not included in the Louisiana Gulf Coast District.

New Mexico: The State of New Mexico.

PAD District IV

Rocky Mountain: The States of Montana, Idaho, Wyoming, Utah, and Colorado.

PAD District V

West Coast: The States of Washington, Oregon, California, Nevada, Arizona, Alaska, and Hawaii.





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Appendix B: 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 selected 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, 2025 there were 131 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 secure file transfer. 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 two 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, 1 O 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."



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Glossary



Alcohol. The family name of a group of organic chemical compounds composed of carbon, hydrogen, and oxygen. The series of molecules vary in chain length and are composed of a hydrocarbon plus a hydroxyl group; CH3 (CH2) n-OH (e.g., methanol, ethanol, and tertiary butyl alcohol).

Alkylate. The product of an alkylation reaction. It usually refers to the high-octane product from alkylation units. This alkylate is used in blending high octane gasoline.

Alkylation. A refining process for chemically combining isobutane with olefin hydrocarbons (e.g., propylene, butylenes) through the control of temperature and pressure in the presence of an acid catalyst, usually sulfuric acid or hydrofluoric acid. The product, alkylate, an isoparaffin, has high octane value and is blended with motor and aviation gasoline to improve the antiknock value of the fuel.

API Gravity. A scale expressing the gravity or density of liquid petroleum products. The measuring scale is calibrated in terms of degrees API; it may be calculated in terms of the following formula:

Degrees API = $141.5/\text{sp.gr.}60^{\circ} \text{ F}/60^{\circ}\text{F} - 131.5$

The higher the API gravity, the lighter the compound. Light crudes generally exceed 38 degrees API and heavy crudes are commonly labeled as all crudes with an API gravity of 22 degrees or below. Intermediate crudes fall in the range of 22 degrees to 38 degrees API gravity.

Aromatics. Hydrocarbons characterized by unsaturated ring structures of carbon atoms. Commercial petroleum aromatics are benzene, toluene, and xylenes (BTX).

Asphalt. A dark-brown-to-black cement-like material containing bitumens as the predominant constituent obtained by petroleum processing; used primarily for road construction. It includes crude asphalt as well as the following finished products: cements, fluxes, the asphalt content of emulsions (exclusive of water), and petroleum distillates blended with asphalt to make cutback asphalts. Note: The conversion factor for asphalt is 5.5 barrels per short ton.

ASTM. The acronym for the American Society for Testing and Materials.

Atmospheric Crude Oil Distillation. The refining process of separating crude oil components at atmospheric pressure by heating to temperatures of about 600 degrees Fahrenheit to 750 degrees Fahrenheit (depending on the nature of the crude oil and desired products) and subsequent condensing of the fractions by cooling.

Aviation Gasoline (Finished). A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in aviation reciprocating engines. Fuel specifications are provided in ASTM Specification D 910 and Military Specification MIL-G-5572. Note: Data on blending components are not counted in data on finished aviation gasoline.

Aviation Gasoline Blending Components. Naphtha's which will be used for blending or compounding into finished aviation gasoline (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, and xylenes). Excludes oxygenates (alcohols, ethers), butanes, and pentanes. Oxygenates are reported as other hydrocarbons, hydrogen, and oxygenates.

Barrel. A unit of volume equal to 42 U.S. gallons.

Barrels per Calendar Day. The amount of input that a distillation facility can process under usual operating conditions. The amount is expressed in terms of capacity during a 24-hour period and reduces the maximum processing capability of all units at the facility under continuous operation (see Barrels per Stream Day) to account for the following limitations that may delay, interrupt, or slow down production: the capability of downstream facilities to absorb the output of crude oil processing facilities of a given refinery. No reduction is made when a planned distribution of intermediate streams through other than downstream facilities is part of a refinery's normal operation; the types and grades of inputs to be processed; the types and grades of products expected to be manufactured; the environmental constraints associated with refinery operations; the reduction of capacity for scheduled downtime due to such conditions as routine inspection, maintenance, repairs, and turnaround; and the reduction of capacity for unscheduled downtime due to such conditions as mechanical problems, repairs, and slowdowns.

Barrels Per Stream Day. The maximum number of barrels of input that a distillation facility can process within a 24-hour period when running at full capacity under optimal crude and product slate conditions with no allowance for downtime.

Benzene (C6H6). An aromatic hydrocarbon present in small proportion in some crude oils and made commercially from petroleum by the catalytic reforming of naphthenes in petroleum naphtha. It is also made from coal in the manufacture of coke. Used as a solvent, in manufacturing detergents, synthetic fibers, and petrochemicals and as a component of high-octane gasoline.

Blending Components. See Motor or Aviation Gasoline Blending Components.

Blending Plant. A facility which has no refining capability but is either capable of producing finished motor gasoline through mechanical blending or blends oxygenates with motor gasoline.

Bonded Petroleum Imports. Petroleum imported and entered into Customs bonded storage. These imports are not included in the import statistics until they are: (1) withdrawn from storage free of duty for use as fuel for vessels and aircraft engaged in international trade; or (2) withdrawn from storage with duty paid for domestic use.

BTX. The acronym for the commercial petroleum aromatics benzene, toluene, and xylenes. See individual categories for definitions.

Bulk Station. A facility used primarily for the storage and/or marketing of petroleum products which has a total bulk storage capacity of less than 50,000 barrels and receives its petroleum products by tank car or truck.

Bulk Terminal. A facility used primarily for the storage and/or marketing of petroleum products which has a total bulk storage capacity of 50,000 barrels or more and/or receives petroleum products by tanker, barge, or pipeline.

Butane (C4H10). A normally gaseous four-carbon straight-chain or branched-chain hydrocarbon extracted from natural gas or refinery gas streams. It includes normal butane and refinery-grade butane and is designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial butane.

Refinery-Grade Butane (C4H10). A refinery-produced stream that is composed predominantly of normal butane and/or isobutane and may also contain propane and/or natural gasoline. These streams may also contain significant levels of olefins and/or fluorides contamination.

Butylenes (C4H8). A four-carbon olefinic hydrocarbon recovered from refinery processes.

Captive Refinery Oxygenate Plants. Oxygenate production facilities located within or adjacent to a refinery complex.

Catalytic Cracking. The refining process of breaking down the larger, heavier, and more complex hydrocarbon molecules into simpler and lighter molecules. Catalytic cracking is accomplished by the use of a catalyst and is an effective process for increasing the yield of gasoline from crude oil. Catalytic cracking processes fresh feeds and recycled feeds.

Fresh Feeds. Crude oil or petroleum distillates which are being fed to processing units for the first time.

Recycled Feeds. Streams that have been processed and are fed back to the reactor for additional processing.

Catalytic Hydrocracking. A refining process that uses hydrogen and catalysts with relatively low temperatures and high pressures for converting middle boiling or residual material to high-octane gasoline, reformer charge stock, jet fuel, and/or high-grade fuel oil. The process uses one or more catalysts, depending upon product output, and can handle high sulfur feedstocks without prior desulfurization.

Catalytic Hydrotreating. A refining process for treating petroleum fractions from atmospheric or vacuum distillation units (e.g., naphthas, middle distillates, reformer feeds, residual fuel oil, and heavy gas oil) and other petroleum (e.g., cat cracked naphtha, coker naphtha, gas oil, etc.) in the presence of catalysts and substantial quantities of hydrogen. Hydrotreating includes desulfurization, removal of substances (e.g., nitrogen compounds) that deactivate catalysts, conversion of olefins to paraffins to reduce gum formation in gasoline, and other processes to upgrade the quality of the fractions.

Catalytic Reforming. A refining process using controlled heat and pressure with catalysts to rearrange certain hydrocarbon molecules, thereby converting paraffinic and naphthenic hydrocarbons (e.g., low-octane gasoline boiling range fractions) into petrochemical feedstocks and higher-octane stocks suitable for blending into finished gasoline. Catalytic reforming is reported in two categories. They are:

Low Pressure. A processing unit operating at less than 225 pounds per square inch gauge (PSIG) measured at the outlet separator.

High Pressure. A processing unit operating at either equal to or greater than 225 pounds per square inch gauge (PSIG) measured at the outlet separator.

Charge Capacity. The input (feed) capacity of the refinery processing facilities.

Coal. A readily combustible black or brownish-black rock whose composition, including inherent moisture, consists of more than 50 percent by weight and more than 70 percent by volume of carbonaceous material. It is formed from plant remains that have been compacted, hardened, chemically altered, and metamorphosed by heat and pressure over geologic time.

Commercial Kerosene-Type Jet Fuel. See Kerosene-type Jet Fuel.

Conventional Gasoline, See Motor Gasoline (Finished).

Crude Oil. A mixture of hydrocarbons that exists in liquid phase in natural underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Depending upon the characteristics of the crude stream, it may also include:

Small amounts of hydrocarbons that exist in gaseous phase in natural underground reservoirs but are liquid at atmospheric pressure after being recovered from oil well (casinghead) gas in lease separators and are subsequently commingled with the crude stream without being separately measured. Lease condensate recovered as a liquid from natural gas wells in lease or field separation facilities and later mixed into the crude stream is also included; Small amounts of nonhydrocarbons produced from oil, such as sulfur and various metals; Drip gases, and liquid hydrocarbons produced from oil sands, gilsonite, and oil shale. Liquids produced at natural gas processing plants are excluded. Crude oil is refined to produce a wide array of petroleum products, including heating oils; gasoline, diesel and jet fuels; lubricants; asphalt; ethane, propane, and butane; and many other products used for their energy or chemical content.

Crude oil is considered as either domestic or foreign, according to the following:

Domestic. Crude oil produced in the United States or from its "outer continental shelf' as defined in 43 USC 1331.

Foreign. Crude oil produced outside the United States. Imported Athabasca hydrocarbons (derived from Canadian oil sands) are included.

Crude Oil, Refinery Receipts. Receipts of domestic and foreign crude oil at a refinery. Includes all crude oil in transit except crude oil in transit by pipeline. Foreign crude oil is reported as a receipt only after entry through customs. Crude oil of foreign origin held in bonded storage is excluded.

Crude Oil Losses. Represents the volume of crude oil reported by petroleum refineries as being lost in their operations. These losses are due to spills, contamination, fires, etc. as opposed to refinery processing losses.

Crude Oil Production. The volume of crude oil produced from oil reservoirs during given periods of time. The amount of such production for a given period is measured as volumes delivered from lease storage tanks (i.e., the point of custody transfer) to pipelines, trucks, or other media for transport to refineries or terminals with adjustments for (1) net differences between opening and closing lease inventories, and (2) basic sediment and water (BS&W).

Crude Oil Qualities. Refers to two properties of crude oil, the sulfur content and API gravity, which affect processing complexity and product characteristics.

Delayed Coking. A process by which heavier crude oil fractions can be thermally decomposed under conditions of elevated temperatures and low pressure to produce a mixture of lighter oils and petroleum coke. The light oils can be processed further in other refinery units to meet product specifications. The coke can be used either as a fuel or in other applications such as the manufacturing of steel or aluminum.

Desulfurization. The removal of sulfur, from molten metals, petroleum oil, or flue gases. Petroleum desulfurization is a process that removes sulfur and its compounds from various streams during the refining process. Desulfurization processes include catalytic hydrotreating and other chemical/physical processes such as adsorption. Desulfurization processes vary based on the type of stream treated (e.g. naphtha, distillate, heavy gas oil, etc.) and the amount of sulfur removed (e.g. sulfur reduction to 10 ppm). See Catalytic Hydrotreating.

Disposition. The components of petroleum disposition are stock change, crude oil losses, refinery inputs, exports, and products supplied for domestic consumption.

Distillate Fuel Oil. A general classification for one of the petroleum fractions produced in conventional distillation operations. It includes diesel fuels and fuel oils. Products known as No. 1, No. 2, and No. 4 diesel fuel are used in on-highway diesel engines, such as those in trucks and automobiles, as well as off-highway engines, such as those in railroad locomotives and agricultural machinery. Products known as No. 1, No. 2, and No. 4 fuel oils are used primarily for space heating and electric power generation.

No. 1 Distillate. A light petroleum distillate that can be used as either a diesel fuel or a fuel oil.

No. 1 Diesel Fuel. A light distillate fuel oil that has distillation temperatures of 550 degrees Fahrenheit at the 90-percent point and meets the specifications defined in ASTM Specification D 975. It is used in high-speed diesel engines generally operated under frequent speed and load changes, such as those in city buses and similar vehicles.

No. 1 Fuel Oil. A light distillate fuel oil that has distillation temperatures of 400 degrees Fahrenheit at the 10-percent recovery point and 550 degrees Fahrenheit at the 90-percent point and meets the specifications defined in ASTM Specification D 396. It is used primarily as fuel for portable outdoor stoves and portable outdoor heaters.

No. 2 Distillate. A petroleum distillate that can be used as either a diesel fuel or a fuel oil.

No. 2 Diesel Fuel. A fuel that has distillation temperatures of 500 degrees Fahrenheit at the 10-percent recovery point and 640 degrees Fahrenheit at the 90 percent recovery point and meets the specifications defined in ASTM Specification D 975. It is used in high speed diesel engines that are generally operated under uniform speed and load conditions, such as those in railroad locomotives, trucks, and automobiles.

Low Sulfur No. 2 Diesel Fuel. No. 2 diesel fuel that has a sulfur level no higher than 0.05 percent by weight. It is used primarily in motor vehicle diesel engines for on-highway use.

High Sulfur No. 2 Diesel Fuel. No. 2 diesel fuel that has a sulfur level above 0.05 percent by weight.

No. 2 Fuel Oil (Heating Oil). A distillate fuel oil that has distillation temperatures of 400 degrees Fahrenheit at the 10-percent recovery point and 640 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 396. It is used in atomizing type burners for domestic heating or for moderate capacity commercial/industrial burner units.

No. 4 Fuel. A distillate fuel oil made by blending distillate fuel oil and residual fuel oil stocks. It conforms with ASTM Specification D 396 or Federal Specification VV-F-815C and is used extensively in industrial plants and in commercial burner installations that are not equipped with preheating facilities. It also includes No. 4 diesel fuel used for low-and medium-speed diesel engines and conforms to ASTM Specification D 975.

No. 4 Diesel Fuel. See No. 4 Fuel.

No. 4 Fuel Oil. See No. 4 Fuel.

Electricity (Purchased). Electricity purchased for refinery operations that is not produced within the refinery complex.

Ending Stocks. Primary stocks of crude oil and petroleum products held in storage as of 12 midnight on the last day of the month. Primary stocks include crude oil or petroleum products held in storage at (or in) leases, refineries, natural gas processing plants, pipelines, tank farms, and bulk terminals that can store at least 50,000 barrels of petroleum products or that can receive petroleum products by tanker, barge, or pipeline. Crude oil that is in-transit by water from Alaska, or that is stored on Federal leases or in the Strategic Petroleum Reserve is included. Primary Stocks exclude stocks of foreign origin that are held in bonded warehouse storage.

ETBE (Ethyl tertiary butyl ether) (CH3)3COC2H5. An oxygenate blend stock formed by the catalytic etherification of isobutylene with ethanol.

Ethane (C2H6). A normally gaseous straight-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of -127.48 degrees Fahrenheit. It is extracted from natural gas and refinery gas streams.

Ether. A generic term applied to a group of organic chemical compounds composed of carbon, hydrogen, and oxygen, characterized by an oxygen atom attached to two carbon atoms (e.g., methyl tertiary butyl ether).

Ethylene (C2H4). An olefinic hydrocarbon recovered from refinery processes or petrochemical processes. Ethylene is used as a petrochemical feedstock for numerous chemical applications and the production of consumer goods.

Exports. Shipments of crude oil and petroleum products from the 50 States and the District of Columbia to foreign countries, Puerto Rico, the Virgin Islands, and other U.S. possessions and territories.

Field Production. Represents crude oil production on leases, natural gas liquids production at natural gas processing plants, new supply of other hydrocarbons/ oxygenates and motor gasoline blending components, and fuel ethanol blended into finished motor gasoline.

Flexicoking. A thermal cracking process which converts heavy hydrocarbons such as crude oil, oil sands bitumen, and distillation residues into light hydrocarbons. Feedstocks can be any pumpable hydrocarbons including those containing high concentrations of sulfur and metals.

Fluid Coking. A thermal cracking process utilizing the fluidized-solids technique to remove carbon (coke) for continuous conversion of heavy, low-grade oils into lighter products.

Fresh Feed Input. Represents input of material (crude oil, unfinished oils, natural gas liquids, other hydrocarbons and oxygenates or finished products) to processing units at a refinery that is being processed (input) into a particular unit for the first time.

Examples:

(1) Unfinished oils coming out of a crude oil distillation unit which are input into a catalytic cracking unit are considered fresh feed to the catalytic cracking unit.

(2) Unfinished oils coming out of a catalytic cracking unit being looped back into the same catalytic cracking unit to be reprocessed are not considered fresh feed.

Fuel Ethanol (C2H5OH). An anhydrous denatured aliphatic alcohol intended for gasoline blending as described in Oxygenates definition.

Fuels Solvent Deasphalting. A refining process for removing asphalt compounds from petroleum fractions, such as reduced crude oil. The recovered stream from this process is used to produce fuel products.

Gas Oil. A liquid petroleum distillate having a viscosity intermediate between that of kerosene and lubricating oil. It derives its name from having originally been used in the manufacture of illuminating gas. It is now used to produce distillate fuel oils and gasoline.

Gasohol. A blend of finished motor gasoline containing alcohol (generally ethanol but sometimes methanol) at a concentration of 10 percent or less by volume. Data on gasohol that has at least 2.7 percent oxygen, by weight, and is intended for sale inside carbon monoxide nonattainment areas are included in data on oxygenated gasoline. See Oxygenates.

Gasoline Blending Components. Naphthas which will be used for blending or compounding into finished aviation or motor gasoline (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, and xylenes). Excludes oxygenates (alcohols, ethers), butane, and natural gasoline.

Gross Input to Atmospheric Crude Oil Distillation Units.

Total input to atmospheric crude oil distillation units. Includes all crude oil, lease condensate, natural gas plant liquids, unfinished oils, liquefied refinery gases, slop oils, and other liquid hydrocarbons produced from oil sands, gilsonite, and oil shale.

Heavy Gas Oil. Petroleum distillates with an approximate boiling range from 651 degrees Fahrenheit to 1000 degrees Fahrenheit.

Hydrogen. The lightest of all gases, occurring chiefly in combination with oxygen in water; exists also in acids, bases, alcohols, petroleum, and other hydrocarbons.

Idle Capacity. The component of operable capacity that is not in operation and not under active repair, but capable of being placed in operation within 30 days; and capacity not in operation but under active repair that can be completed within 90 days.

Imported Crude Oil Burned As Fuel. The amount of foreign crude oil burned as a fuel oil, usually as residual fuel oil, without being processed as such. Imported crude oil burned as fuel includes lease condensate and liquid hydrocarbons produced from oil sands, gilsonite, and oil shale.

Imports. Receipts of crude oil and petroleum products into the 50 States and the District of Columbia from foreign countries, Puerto Rico, the Virgin Islands, and other U.S. possessions and territories.

Isobutane (C4H10). A normally gaseous four-carbon, branched-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 10.9 degrees Fahrenheit. It is extracted from natural gas or refinery gas streams.

Isobutylene (C4H8). An olefinic four-carbon hydrocarbon recovered from refinery processes or petrochemical processes.

Isohexane (C6H14). A saturated six-carbon branched-chain hydrocarbon. It is a colorless liquid that boils at a temperature of 156.2 degrees Fahrenheit.

Isomerization. A refining process which alters the fundamental arrangement of atoms in the molecule without adding or removing anything from the original material. Used to convert normal butane into isobutane (C4), an alkylation process feedstock, and normal pentane and hexane into isopentane (C5) and isohexane (C6), high-octane gasoline components.

Isopentane. See Natural Gasoline

Kerosene. A light petroleum distillate that is used in space heaters, cook stoves, and water heaters and is suitable for use as a light source when burned in wick-fed lamps. Kerosene has a maximum distillation temperature of 400 degrees Fahrenheit at the 10-percent recovery point, a final boiling point of 572 degrees Fahrenheit, and a minimum flash point of 100 degrees Fahrenheit. Included are No. 1-K and No. 2-K, the two grades recognized by ASTM Specification D 3699 as well as all other grades of kerosene called range or stove oil, which have properties similar to those of No. 1 fuel oil. See **Kerosene-Type Jet Fuel**.

Kerosene-Type Jet Fuel. A kerosene-based product having a maximum distillation temperature of 400 degrees Fahrenheit at the 10-percent recovery point and a final maximum boiling point of 572 degrees Fahrenheit and meeting ASTM Specification D 1655 and Military Specifications MIL-T5624P and MIL-T-83133D (Grades JP-5 and JP-8). It is used for commercial and military turbojet and turboprop aircraft engines.

Commercial. Kerosene-type jet fuel intended for use in commercial aircraft.

Military. Kerosene-type jet fuel intended for use in military aircraft.

Lease Condensate. A mixture consisting primarily of pentanes and heavier hydrocarbons which is recovered as a liquid from natural gas in lease separation facilities. This category excludes natural gas liquids, such as butane and propane, which are recovered at downstream natural gas processing plants or facilities. See Natural Gas Liquids.

Light Gas Oils. Liquid petroleum distillates heavier than naphtha, with an approximate boiling range from 401 degrees Fahrenheit to 650 degrees Fahrenheit.

Liquefied Petroleum Gases (LPG). A group of hydrocarbon-based gases derived from crude oil refining or natural gas fractionation. They include: ethane, ethylene, propane, propylene, normal butane, butylenes, isobutane, and isobutylene. For convenience of transportation, these gases are liquefied through pressurization.

Liquefied Refinery Gases (LRG). Liquefied petroleum gases fractionated from refinery or still gases. Through compression and/or refrigeration, they are retained in the liquid state. The reported categories are ethane/ethylene, propane/propylene, normal butane/butylenes, and isobutane/isobutylene. Excludes still gas.

Lubricants. Substances used to reduce friction between bearing surfaces or as process materials either incorporated into other materials used as processing aids in the manufacture

of other products, or used as carriers of other materials. Petroleum lubricants may be produced either from distillates or residues. Lubricants include all grades of lubricating oils from spindle oil to cylinder oil and those used in greases.

Merchant Oxygenate Plants. Oxygenate production facilities that are not associated with a petroleum refinery. Production from these facilities is sold under contract or on the spot market to refiners or other gasoline blenders.

Methanol (CH3OH). A light, volatile alcohol intended for gasoline blending as described in Oxygenate definition.

Middle Distillates. A general classification of refined petroleum products that includes distillate fuel oil and kerosene.

Military Kerosene-Type Jet Fuel. See Kerosene-Type Jet Fuel.

Miscellaneous Products. Includes all finished products not classified elsewhere (e.g., petrolatum, lube refining byproducts (aromatic extracts and tars), absorption oils, ram-jet fuel, petroleum rocket fuels, synthetic natural gas feedstocks, and specialty oils). Note: Beginning with January 2004 data, naphtha-type jet fuel is included in Miscellaneous Products.

Motor Gasoline (Finished). A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in sparkignition engines. Motor gasoline, as defined in ASTM Specification D 4814 or Federal Specification VV-G-1690C, is characterized as having a boiling range of 122 to 158 degrees Fahrenheit at the 10 percent recovery point to 365 to 374 degrees Fahrenheit at the 90 percent recovery point. "Motor Gasoline" includes conventional gasoline; all types of oxygenated gasoline, including gasohol; and reformulated gasoline, but excludes aviation gasoline. Note: Volumetric data on blending components, such as oxygenates, are not counted in data on finished motor gasoline until the blending components are blended into the gasoline.

Conventional Gasoline. Finished motor gasoline not included in the oxygenated or reformulated gasoline categories. Note: This category excludes reformulated gasoline blendstock for oxygenate blending (RBOB) as well as other blendstock.

OPRG. "Oxygenated Fuels Program Reformulated Gasoline" is reformulated gasoline which is intended for use in an oxygenated fuels program control area.

Oxygenated Gasoline (Including Gasohol). Oxygenated gasoline includes all finished motor gasoline, other than reformulated gasoline, having oxygen content of 2.0 percent or higher by weight. Gasohol containing a minimum 5.7 percent ethanol by volume is included in oxygenated gasoline. Oxygenated gasoline was reported as a separate product from January 1993 until December 2003 inclusive. Beginning

with monthly data for January 2004, oxygenated gasoline is included in conventional gasoline. Historical data for oxygenated gasoline excluded Federal Oxygenated Program Reformulated Gasoline (OPRG). Historical oxygenated gasoline data also excluded other reformulated gasoline with a seasonal oxygen requirement regardless of season.

Reformulated Gasoline. Finished gasoline formulated for use in motor vehicles, the composition and properties of which meet the requirements of the reformulated gasoline regulations promulgated by the U.S. Environmental Protection Agency under Section 211(k) of the Clean Air Act. It includes gasoline produced to meet or exceed emissions performance and benzene content standards of federal-program reformulated gasoline even though the gasoline may not meet all of the composition requirements (e.g. oxygen content) of federal-program reformulated gasoline. Reformulated gasoline excludes Reformulated Blendstock for Oxygenate Blending (RBOB) and Gasoline Treated as Blendstock (GTAB). Historical reformulated gasoline statistics included Oxygenated Fuels Program Reformulated Gasoline (OPRG).

Reformulated (Blended with Ether). Reformulated gasoline blended with an ether component (e.g. methyl tertiary butyl ether) at a terminal or refinery to raise the oxygen content.

Reformulated (Blended with Alcohol). Reformulated gasoline blended with an alcohol component (e.g. fuel ethanol) at a terminal or refinery to raise the oxygen content.

Reformulated (Non-Oxygenated). Reformulated gasoline without added ether or alcohol components.

Motor Gasoline Blending. Mechanical mixing of motor gasoline blending components, and oxygenates when required, to produce finished motor gasoline. Finished motor gasoline may be further mixed with other motor gasoline blending components or oxygenates, resulting in increased volumes of finished motor gasoline and/or changes in the formulation of finished motor gasoline (e.g., conventional motor gasoline mixed with MTBE to produce oxygenated motor gasoline).

Motor Gasoline Blending Components. Naphthas (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, xylenes) used for blending or compounding into finished motor gasoline. These components include reformulated gasoline blendstock for oxygenate blending (RBOB) but exclude oxygenates (alcohols, ethers), butane, and pentanes. Note: Oxygenates are reported as individual components and are included in the total for other hydrocarbons and oxygenates.

Conventional Blendstock for Oxygenate Blending (CBOB). Conventional gasoline blendstock intended for blending with oxygenates downstream of the refinery where it was produced. CBOB must become conventional gasoline after blending with oxygenates. Motor gasoline blending components that require blending other than with oxygenates to become finished

conventional gasoline are reported as All Other Motor Gasoline Blending Components. Excludes reformulated blendstock for oxygenate blending (RBOB).

Gasoline Treated as Blendstock (GTAB). Non-certified Foreign Refinery gasoline classified by an importer as blendstock to be either blended or reclassified with respect to reformulated or conventional gasoline. GTAB is classified as either reformulated or conventional based on emissions performance and the intended end use.

Reformulated Blendstock for Oxygenate Blending (RBOB). Specially produced reformulated gasoline blendstock intended for blending with oxygenates downstream of the refinery where it was produced. Includes RBOB used to meet requirements of the Federal reformulated gasoline program and other blendstock intended for blending with oxygenates to produce finished gasoline that meets or exceeds emissions performance requirements of Federal reformulated gasoline (e.g. California RBOB and Arizona RBOB). Excludes conventional gasoline blendstocks for oxygenate blending (CBOB).

RBOB for Blending with Ether. Motor gasoline blending components intended to be blended with an ether component (e.g. methyl tertiary butyl ether) at a terminal or refinery to raise the oxygen content.

RBOB for Blending with Alcohol. Motor gasoline blending components intended to be blended with an alcohol component (e.g. fuel ethanol) at a terminal or refinery to raise the oxygen content.

All Other Motor Gasoline Blending Components.

Naphthas (e.g. straight-run gasoline, alkylate, reformate, benzene, toluene, xylenes) used for blending or compounding into finished motor gasoline. Includes receipts and inputs of Gasoline Treated as Blendstock (GTAB). Excludes conventional blendstock for oxygenate blending (CBOB), reformulated blendstock for oxygenate blending, oxygenates (e.g. fuel ethanol and methyl tertiary butyl ether), butane, and natural gasoline.

MTBE (Methyl tertiary butyl ether) (CH3)3COCH3.

An ether intended for gasoline blending as described in Oxygenate definition.

Naphtha. A generic term applied to a petroleum fraction with an approximate boiling range between 122 degrees Fahrenheit and 400 degrees Fahrenheit.

Naphtha Less Than 401o F. See Petrochemical Feedstocks.

Naphtha-Type Jet Fuel. A fuel in the heavy naphtha boiling range having an average gravity of 52.8 degrees API, 20 to 90 percent distillation temperatures of 290 degrees to 470 degrees Fahrenheit, and meeting Military Specification MIL-T-5624L (Grade JP-4). It is used primarily for military

turbojet and turboprop aircraft engines because it has a lower freeze point than other aviation fuels and meets engine requirements at high altitudes and speeds. Note: Beginning with January 2004 data, naphtha-type jet fuel is included in **Miscellaneous Products.**

Natural Gas. A gaseous mixture of hydrocarbon compounds, the primary one being methane.

Natural Gas Field Facility. A field facility designed to process natural gas produced from more than one lease for the purpose of recovering condensate from a stream of natural gas; however, some field facilities are designed to recover propane, normal butane, natural gasoline, etc., and to control the quality of natural gas to be marketed.

Natural Gas Liquids. Those hydrocarbons in natural gas that are separated from the gas as liquids through the process of absorption, condensation, adsorption, or other methods in gas processing or cycling plants. Generally, such liquids consist of propane and heavier hydrocarbons and are commonly referred to as lease condensate, natural gasoline, and liquefied petroleum gases. Natural gas liquids include natural gas plant liquids (primarily ethane, propane, butane, and isobutane; see Natural Gas Plant Liquids) and lease condensate (primarily pentanes produced from natural gas at lease separators and field facilities; see Lease Condensate).

Natural Gas Plant Liquids. Those hydrocarbons in natural gas that are separated as liquids at natural gas processing plants, fractionating and cycling plants, and, in some instances, field facilities. Lease condensate is excluded. Products obtained include ethane; liquefied petroleum gases (propane, butanes, propane-butane mixtures, ethane-propane mixtures); isopentane; and other small quantities of finished products, such as motor gasoline, special naphthas, jet fuel, kerosene, and distillate fuel oil.

Natural Gas Processing Plant. Facilities designed to recover natural gas liquids from a stream of natural gas that may or may not have passed through lease separators and/or field separation facilities. These facilities control the quality of the natural gas to be marketed. Cycling plants are classified as gas processing plants.

Natural Gasoline and Isopentane. A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas, that meets vapor pressure, end-point, and other specifications for natural gasoline set by the Gas Processors Association. Includes isopentane which is a saturated five-carbon branched-chain hydrocarbon, (C5H12), obtained by fractionation of natural gasoline or isomerization of normal pentane.

Net Receipts. The difference between total movements into and total movements out of each PAD District by pipeline, tanker, and barge.

Normal Butane. See Butane.

OPEC. The acronym for the Organization of Petroleum Exporting Countries, that have organized for the purpose of negotiating with oil companies on matters of oil production, prices and future concession rights. Current members are Algeria, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela. The Neutral Zone between Kuwait and Saudi Arabia is considered part of OPEC. Prior to January 1, 1993, Ecuador was a member of OPEC. Prior to January 1995, Gabon was a member of OPEC.

Operable Capacity. The amount of capacity that, at the beginning of the period, is in operation; not in operation and not under active repair, but capable of being placed in operation within 30 days; or not in operation but under active repair that can be completed within 90 days. Operable capacity is the sum of the operating and idle capacity and is measured in barrels per calendar day or barrels per stream day.

Operating Capacity. The component of operable capacity that is in operation at the beginning of the period.

Operable Utilization Rate. Represents the utilization of the atmospheric crude oil distillation units. The rate is calculated by dividing the gross input to these units by the operable refining capacity of the units.

Operating Utilization Rate. Represents the utilization of the atmospheric crude oil distillation units. The rate is calculated by dividing the gross input to these units by the operating refining capacity of the units.

Other Hydrocarbons. Materials received by a refinery and consumed as a raw material. Includes hydrogen, coal tar derivatives, gilsonite, and natural gas received by the refinery for reforming into hydrogen. Natural gas to be used as fuel is excluded.

Other Oils Equal To or Greater Than 4010 F. See Petrochemical Feedstocks.

Other Oxygenates. Other aliphatic alcohols and aliphatic ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

Oxygenated Gasoline. See Motor Gasoline (Finished).

Oxygenates. Substances which, when added to gasoline, increase the amount of oxygen in that gasoline blend. Fuel Ethanol, Methyl Tertiary Butyl Ether (MTBE), Ethyl Tertiary Butyl Ether (ETBE), and methanol are common oxygenates.

Fuel Ethanol. Blends of up to 10 percent by volume anhydrous ethanol (200 proof) (commonly referred to as the "gasohol waiver").

Methanol. Blends of methanol and gasoline-grade tertiary butyl alcohol (GTBA) such that the total oxygen content does

not exceed 3.5 percent by weight and the ratio of methanol to GTBA is less than or equal to 1. It is also specified that this blended fuel must meet ASTM volatility specifications (commonly referred to as the "ARCO" waiver). Blends of up to 5.0 percent by volume methanol with a minimum of 2.5 percent by volume co-solvent alcohols having a carbon number of 4 or less (i.e., ethanol, propanol, butanol, and/or GTBA). The total oxygen must not exceed 3.7 percent by weight, and the blend must meet ASTM volatility specifications as well as phase separation and alcohol purity specifications (commonly referred to as the "DuPont" waiver).

MTBE (Methyl tertiary butyl ether). Blends up to 15.0 percent by volume MTBE which must meet the ASTM D4814 specifications. Blenders must take precautions that the blends are not used as base gasolines for other oxygenated blends (commonly referred to as the "Sun" waiver).

Pentanes Plus. A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas. Includes isopentane, natural gasoline, and plant condensate.

Persian Gulf. The countries that comprise the Persian Gulf are: Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab Emirates.

Petrochemical Feedstocks. Chemical feedstocks derived from petroleum principally for the manufacture of chemicals, synthetic rubber, and a variety of plastics. The categories reported are "Naphtha Less Than 401° F" and "Other Oils Equal To or Greater Than 401° F."

Naphtha less Than 4010 F. A naphtha with a boiling range of less than 401 degrees Fahrenheit that is intended for use as a petrochemical feedstock.

Other Oils Equal To or Greater Than 401o F. Oils with a boiling range equal to or greater than 401 degrees Fahrenheit that are intended for use as a petrochemical feedstock.

Petroleum Administration for Defense (PAD) Districts.

Geographic aggregations of the 50 States and the District of Columbia into five districts by the Petroleum Administration for Defense in 1950. These districts were originally defined during World War II for purposes of administering oil allocation.

Petroleum Coke. A residue high in carbon content and low in hydrogen that is the final product of thermal decomposition in the condensation process in cracking. This product is reported as marketable coke. The conversion is 5 barrels (of 42 U.S. gallons each) per short ton. Coke from petroleum has a heating value of 6.024 million Btu per barrel.

Marketable Coke. Those grades of coke produced in delayed or fluid cokers which may be recovered as relatively pure carbon. This "green" coke may be sold as is or further purified by calcining.

Catalyst Coke. The only catalytic coke used as a fuel is the coke on catalyst in the FCC process. In other catalytic processes there is coke deposited on catalyst, but it is not regenerated in a way such that the heat of combustion is recovered.

Petroleum Products. Petroleum products are obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include unfinished oils, liquefied petroleum gases, pentanes plus, aviation gasoline, motor gasoline, naphthatype jet fuel, kerosene-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, petrochemical feedstocks, special naphthas, lubricants, waxes, petroleum coke, asphalt, road oil, still gas, and miscellaneous products.

Pipeline (Petroleum). Crude oil and product pipelines used to transport crude oil and petroleum products respectively, (including interstate, intrastate, and intra-company pipelines) within the 50 States and the District of Columbia.

Plant Condensate. One of the natural gas liquids, mostly pentanes and heavier hydrocarbons, recovered and separated as liquids at gas inlet separators or scrubbers in processing plants.

Processing Gain. The volumetric amount by which total output is greater than input for a given period of time. This difference is due to the processing of crude oil into products which, in total, have a lower specific gravity than the crude oil processed.

Processing Loss. The volumetric amount by which total refinery output is less than input for a given period of time. This difference is due to the processing of crude oil into products which, in total, have a higher specific gravity than the crude oil processed.

Product Supplied, Crude Oil. Crude oil burned on leases and by pipelines as fuel.

Production Capacity. The maximum amount of product that can be produced from processing facilities.

Products Supplied. Approximately represents consumption of petroleum products because it measures the disappearance of these products from primary sources, i.e., refineries, natural gas processing plants, blending plants, pipelines, and bulk terminals. In general, product supplied of each product in any given period is computed as follows: field production, plus refinery production, plus imports, plus unaccounted for crude oil, (plus net receipts when calculated on a PAD District basis), minus stock change, minus crude oil losses, minus refinery inputs, minus exports. Propane (C3H8). A normally gaseous three-carbon straight-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of -43.67 degrees Fahrenheit. It is extracted from natural gas or refinery gas streams. It includes all products designated in

ASTM Specification D1835 and Gas Processors Association Specifications for commercial propane and HD-5 propane.

Propylene (C3H6). An olefinic three-carbon hydrocarbon recovered from refinery processes or petrochemical processes.

Propylene (C3H6) (nonfuel use). Propylene that is intended for use in nonfuel applications such as petrochemical manufacturing. Nonfuel use propylene includes chemical-grade propylene, polymer-grade propylene, and trace amounts of propane. Nonfuel use propylene also includes the propylene component of propane/propylene mixes where the propylene will be separated from the mix in a propane/propylene splitting process. Excluded is the propylene component of propane/propylene mixes where the propylene component of the mix is intended for sale into the fuel market.

Refinery. An installation that manufactures finished petroleum products from crude oil, unfinished oils, natural gas liquids, other hydrocarbons, and oxygenates.

Refinery-Grade Butane. See Butane.

Refinery Input, Crude Oil. Total crude oil (domestic plus foreign) input to crude oil distillation units and other refinery processing units (cokers, etc.).

Refinery Input, Total. The raw materials and intermediate materials processed at refineries to produce finished petroleum products. They include crude oil, products of natural gas processing plants, unfinished oils, other hydrocarbons and oxygenates, motor gasoline and aviation gasoline blending components and finished petroleum products.

Refinery Production. Petroleum products produced at a refinery or blending plant. Published production of these products equals refinery production minus refinery input. Negative production will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the same month. Refinery production of unfinished oils, and motor and aviation gasoline blending components appear on a net basis under refinery input.

Refinery Yield. Refinery yield (expressed as a percentage) represents the percent of finished product produced from input of crude oil and net input of unfinished oils. It is calculated by dividing the sum of crude oil and net unfinished input into the individual net production of finished products. Before calculating the yield for finished motor gasoline, the input of natural gas liquids, other hydrocarbons and oxygenates, and net input of motor gasoline blending components must be subtracted from the net production of finished motor gasoline. Before calculating the yield for finished aviation gasoline, input of aviation gasoline blending components must be subtracted from the net production of finished aviation gasoline.

Reformulated Gasoline. See Motor Gasoline (Finished).

Residual Fuel Oil. A general classification for the heavier oils, known as No. 5 and No. 6 fuel oils, that remain after the distillate fuel oils and lighter hydrocarbons are distilled away in refinery operations. It conforms to ASTM Specifications D 396 and D 975 and Federal Specification VV-F-815C. No. 5, a residual fuel oil of medium viscosity, is also known as Navy Special and is defined in Military Specification MIL-F-859E, including Amendment 2 (NATO Symbol F-770). It is used in steam-powered vessels in government service and inshore power plants. No. 6 fuel oil includes Bunker C fuel oil and is used for the production of electric power, space heating, vessel bunkering, and various industrial purposes.

Residuum. Residue from crude oil after distilling off all but the heaviest components, with a boiling range greater than 1000 degrees Fahrenheit.

Road Oil. Any heavy petroleum oil, including residual asphaltic oil used as a dust palliative and surface treatment on roads and highways. It is generally produced in six grades from 0, the most liquid, to 5, the most viscous.

Shell Storage Capacity. The design capacity of a petroleum storage tank which is always greater than or equal to working storage capacity.

Special Naphthas. All finished products within the naphtha boiling range that are used as paint thinners, cleaners, or solvents. These products are refined to a specified flash point. Special naphthas include all commercial hexane and cleaning solvents conforming to ASTM Specification D1836 and D484, respectively. Naphthas to be blended or marketed as motor gasoline or aviation gasoline, or that are to be used as petrochemical and synthetic natural gas (SNG) feedstocks are excluded.

Steam (Purchased). Steam, purchased for use by a refinery that was not generated from within the refinery complex.

Still Gas (Refinery Gas). Any form or mixture of gases produced in refineries by distillation, cracking, reforming, and other processes. The principal constituents are methane, ethane, ethylene, normal butane, butylenes, propane, propylene, etc. Still gas is used as a refinery fuel and a petrochemical feedstock. The conversion factor is 6 million BTU's per fuel oil equivalent barrel.

Stock Change. The difference between stocks at the beginning of the reporting period and stocks at the end of the reporting period. Note: A negative number indicates a decrease (i.e., a drawdown) in stocks and a positive number indicates an increase (i.e., a buildup) in stocks during the reporting period.

Strategic Petroleum Reserve (SPR). Petroleum stocks maintained by the Federal Government for use during periods of major supply interruption.

Sulfur. A yellowish nonmetallic element, sometimes known as "brimstone." It is present at various levels of concentration in many fossil fuels whose combustion releases sulfur compounds that are considered harmful to the environment. Some of the most commonly used fossil fuels are categorized according to their sulfur content, with lower sulfur fuels usually selling at a higher price. Note: No. 2 Distillate fuel is currently reported as having either a 0.05 percent or lower sulfur level for on-highway vehicle use or a greater than 0.05 percent sulfur level for off-highway use, home heating oil, and commercial and industrial uses. This also includes Ultra Low Sulfur Diesel (<15 ppm sulfur). Residual fuel, regardless of use, is classified as having either no more than 1 percent sulfur or greater than 1 percent sulfur. Coal is also classified as being low-sulfur at concentrations of 1 percent or less or high-sulfur at concentrations greater than 1 percent.

Supply. The components of petroleum supply are field production, refinery production, imports, and net receipts when calculated on a PAD District basis.

TAME (Tertiary amyl methyl ether) (CH3)2(C2H5)COCH3. An oxygenate blend stock formed by the catalytic etherification of isoamylene with methanol.

Tank Farm. An installation used by gathering and trunk pipeline companies, crude oil producers, and terminal operators (except refineries) to store crude oil.

Tanker and Barge. Vessels that transport crude oil or petroleum products. Data are reported for movements between PAD Districts; from a PAD District to the Panama Canal; or from the Panama Canal to a PAD District.

TBA (Tertiary butyl alcohol) (CH3)3COH. An alcohol primarily used as a chemical feedstock, a solvent or f eedstock for isobutylene production for MTBE; produced as a co-product of propylene oxide production or by direct hydration of isobutylene.

Thermal Cracking. A refining process in which heat and pressure are used to break down, rearrange, or combine hydrocarbon molecules. Thermal cracking includes gas oil, visbreaking, fluid coking, delayed coking, and other thermal cracking processes (e.g., Flexicoking). See individual categories for definition.

Toluene (C6H5CH3). Colorless liquid of the aromatic group of petroleum hydrocarbons, made by the catalytic reforming of petroleum naphthas containing methyl cyclohexane. A high-octane gasoline-blending agent, solvent, and chemical intermediate, base for TNT.

Unaccounted for Crude Oil. Represents the arithmetic difference between the calculated supply and the calculated disposition of crude oil. The calculated supply is the sum of crude oil production plus imports minus changes in crude oil stocks. The calculated disposition of crude oil is the sum of crude oil input to refineries, crude oil exports, crude oil burned as fuel, and crude oil losses.

Unfinished Oils. All oils requiring further processing, except those requiring only mechanical blending. Unfinished oils are produced by partial refining of crude oil and include naphthas and lighter oils, kerosene and light gas oils, heavy gas oils, and residuum.

Unfractionated Streams. Mixtures of unsegregated natural gas liquid components excluding, those in plant condensate. This product is extracted from natural gas.

United States. The United States is defined as the 50 States and the District of Columbia.

Vacuum Distillation. Distillation under reduced pressure (less than atmospheric) which lowers the boiling temperature of the liquid being distilled. This technique prevents cracking or decomposition of the charge stock which occurs above 1000°F.

Visbreaking. A thermal cracking process in which heavy atmospheric or vacuum-still bottoms are cracked at moderate temperatures to increase production of distillate products and reduce viscosity of the distillation residues.

Wax. A solid or semi-solid material consisting of a mixture of hydrocarbons obtained or derived from petroleum fractions, or through a Fischer-Tropsch type process, in which the straight-chained paraffin series predominates. This includes all marketable wax, whether crude or refined, with a congealing point (ASTM D 938) between 100 and 200 degrees Fahrenheit and a maximum oil content (ASTM D 3235) of 50 weight percent.

Working Storage Capacity. The difference in volume between the maximum safe fill capacity and the quantity below which pump suction is ineffective (bottoms).

Xylenes (C6H4(CH3)2). Colorless liquid of the aromatic group of hydrocarbons made the catalytic reforming of certain naphthenic petroleum fractions. Used as high-octane motor and aviation gasoline blending agents, solvents, chemical intermediates. Isomers are metaxylene, orthoxylene, paraxylene.



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