

Fats and Oils: Oilseed Crushings, Production, Consumption and Stocks

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Highlights

February 2023 contained 28 days. **March 2023** contained 31 days.

Soybeans crushed for crude oil was 5.94 million tons (198 million bushels) in March 2023, compared with 5.31 million tons (177 million bushels) in February 2023 and 5.79 million tons (193 million bushels) in March 2022. Crude oil produced was 2.34 billion pounds up 12 percent from February 2023 and up 3 percent from March 2022. Soybean once refined oil production at 1.81 billion pounds during March 2023 increased 9 percent from February 2023 and increased 1 percent from March 2022.

Canola seeds crushed for crude oil was 191,291 tons in March 2023, compared with 177,907 tons in February 2023 and 163,923 tons in March 2022. Canola crude oil produced was 155 million pounds, up 9 percent from February 2023 and up 24 percent from March 2022. Canola once refined oil production, at 152 million pounds during March 2023, was up 4 percent from February 2023 and up 1 percent from March 2022.

Cottonseed once refined oil production, at 31.5 million pounds during March 2023, was down 9 percent from February 2023 and down 33 percent from March 2022.

Edible tallow production was 91.5 million pounds during March 2023, down 15 percent from February 2023 but up 19 percent from March 2022. Inedible tallow production was 374 million pounds during March 2023, up 2 percent from February 2023 and up 19 percent from March 2022. Technical tallow production was 100 million pounds during March 2023, down 7 percent from February 2023 and down 8 percent from March 2022. Choice white grease production, at 119 million pounds during March 2023, increased 4 percent from February 2023 but decreased 2 percent from March 2022.

Soybean Crushing, Production, Consumption and Stocks – United States: March 2023 with Comparisons

Item	March 2022	February 2023	March 2023
Crush			_
Soybeans crushedtons	5,786,159	5,306,995	5,939,012
Crude oil produced	2,277,541	2,091,218	2,339,581
Cake and meal producedtons	4,249,054	3,934,588	4,402,548
For animal feedtons	4,190,876	3,897,622	4,358,712
For edible protein productstons	58,178	36,966	43,836
Millfeed producedtons	300,577	262,996	295,613
Refine			
Crude oil processed in refining	1,831,109	1,696,242	1,853,676
Once refined oil produced		1,662,072	1,811,949
Concuration			
Consumption Crude all removed for inadible use in presenting	161,282	(D)	(D)
Crude oil removed for inedible use in processing		(D) 1,653,129	(D) 1,833,386
Once refined oil removed for use in processing		1,165,502	1,306,300
Removed for inedible use in processing	445,720	487,627	527,086
Removed for inequale use in processing	443,720	407,027	327,000
Stocks			
Cake and meal on hand end of monthtons	347,191	430,341	324,292
Millfeed on hand end of monthtons	33,777	45,318	54,758
Crude oil on hand end of month1,000 pounds	2,084,253	1,902,382	1,946,997
Crusher1,000 pounds	986,203	1,004,199	1,010,089
Refiner1,000 pounds	390,616	287,238	308,795
Offsite1,000 pounds	707,434	610,945	628,113
Once refined oil on hand end of month1,000 pounds	349,465	461,415	440,516

⁽D) Withheld to avoid disclosing data for individual operations.

Soybean Crushing - Regional: March 2023 with Comparisons

Decies		Soybeans crushed		
Region	March 2022	February 2023	March 2023	
	(tons)	(tons)	(tons)	
Illinois	675,525	637,413	716,050	
owa	1,201,743	1,114,094	1,254,041	
North and East 1	1,307,652	1,214,284	1,325,535	
North Central ²	964,389	882,404	993.561	
South, West and Pacific ³	669,125	610,874	677,617	
Vest Central ⁴	967,725	847,926	972,208	
	,	Crude oil produced		
Region	March 2022	February 2023	March 2023	
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	
Ilinois	265,000	244,933	290,186	
owa	478,317	441,149	496,091	
North and East 1	512,552	470,795	510,961	
North Central ²	374,489	345,272	381,024	
South, West and Pacific ³	· ·	•	•	
West Central ⁴	257,838 389,345	234,916 354,153	261,056 400,263	
	330,310	Crude oil stocks at crusher	.00,200	
Region	March 2022	February 2023	March 2023	
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	
llinois	136,293	(D)	166,220	
owa	205,612	211,806	210,635	
North and East 1	209,325	234,704	229,345	
	*	•	,	
North Central ²	252,019	223,356	224,344	
South, West and Pacific 3	63,585	(D)	66,278	
Nest Central 4	119,369	103,501	113,267	
Region	Cake and meal produced			
. tog.c	March 2022	February 2023	March 2023	
	(tons)	(tons)	(tons)	
Illinois	487,917	465,380	512,452	
owa	886,163	837,061	941,704	
North and East 1	954,196	903,185	982,273	
North Central ²	710,466	653,356	743,481	
South, West and Pacific 3	491,191	448.156	498,227	
West Central ⁴	719,121	627,450	724,411	
Daries	Cake and meal stocks			
Region	March 2022	February 2023	March 2023	
	(tons)	(tons)	(tons)	
Ilinois	42,072	90,912	59,678	
owa	50,613	60,064	42,980	
North and East 1	117,923	134,621	103,484	
North Central ²	38,943	57,223	45,030	
South, West and Pacific ³	55,829	34,027	35,429	
	· · · · · · · · · · · · · · · · · · ·	-		
West Central ⁴	41,811	53,494	37,691	

⁽D) Withheld to avoid disclosing data for individual operations.

1 North and East includes Indiana, Kentucky, Maryland, Ohio, Pennsylvania and Virginia.

2 North Central includes Michigan, Minnesota, North Dakota and South Dakota.

3 South, West, and Pacific includes Alabama, Arkansas, California, Georgia, Louisiana, Mississippi, North Carolina and South Carolina.

4 West Central includes Kansas, Missouri and Nebraska.

Selected Oilseed Crushing, Production, Consumption and Stocks – United States: March 2023 with Comparisons

Item	March 2022	February 2023	March 2023
Canola			
Crush			
Seeds crushed	*		191,291
Crude oil produced1,00	•		154,876
Cake and meal produced	tons 94,	104,119	112,018
Refine			
Crude oil processed in refining			156,645
Once refined oil produced1,00	0 pounds 150,	795 147,045	152,471
Consumption	0	(D)	(D)
Crude oil removed for inedible use in processing		(D) (D)	(D)
Once refined oil removed for use in processing			157,923
Removed for edible use in processing		(D) (D)	(D) (D)
Stocks	o pourius	(D) (D)	(D)
Cake and meal on hand end of month	tons 38,	634 (D)	(D)
Crude oil on hand end of month			74,092
Once refined oil on hand end of month		· · · · · · · · · · · · · · · · · · ·	103,413
Office refilled oil off fland end of floridi	o pourius 04,	99,557	103,413
Cottonseed Crush			
Seeds crushed	tons 132,	127,037	136,880
Crude oil produced		-	33,483
Cake and meal produced			55,723
Refine	5010	32,020	00,120
Crude oil processed in refining	0 pounds 48,	588 35,631	32,132
Once refined oil produced	•	-	31,507
Consumption	'	,	
Crude oil removed for inedible use in processing1,00	0 pounds	(D) (D)	(D)
Once refined oil removed for use in processing1,00		36,027	28,335
Removed for edible use in processing1,00		(D) (D)	(D)
Removed for inedible use in processing1,00	0 pounds	(D) (D)	(D)
Stocks			
Cake and meal on hand end of month		593 23,208	23,316
Crude oil on hand end of month1,00	•	(D) (D)	(D)
Once refined oil on hand end of month1,00	0 pounds 25,	086 34,549	38,214
Coconut			
Refine			
Crude oil processed in refining1,00			32,135
Once refined oil produced1,00	0 pounds 40,	352 46,651	31,550
Consumption	_		,_,
Crude oil removed for inedible use in processing		(D) (D)	(D)
Once refined oil removed for use in processing			41,167
Removed for edible use in processing		(D) (D)	(D)
Removed for inedible use in processing1,00	0 pounas	(D) (D)	(D)
Stocks Crude eil en hand and ef manth	O noundo	74.624	70 004
Crude oil on hand end of month		329 74,624 (D) (D)	78,221 (D)
Corn			
Crush			
Crude oil produced	0 pounds 135,	106 142,574	154,472
Refine	100,	112,014	101,772
Crude oil processed in refining	0 pounds 162,	798 135,395	146,551
Once refined oil produced			143,808
Consumption		=,000	
Crude oil removed for inedible use in processing	0 pounds	(D) (D)	(D)
Once refined oil removed for use in processing			113,511
Removed for edible use in processing1,00		(D) (D)	(D)
Removed for inedible use in processing1,00		(D) (D)	(D)
	•		(-)
Stocks			
Stocks Crude oil on hand end of month	0 pounds 93,	107,448	114,118

See footnote(s) at end of table.

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Selected Oilseed Crushing, Production, Consumption and Stocks – United States: March 2023 with Comparisons (continued)

Item		March 2022	February 2023	March 2023
Palm kernel				
Consumption				
Once refined oil removed for use in processing		46,006	24,699	30,970
Removed for edible use in processing		(D)	(D)	(D)
Removed for inedible use in processing	1,000 pounds	(D)	(D)	(D)
Stocks	•	` ,	` `	
Once refined oil on hand end of month	1,000 pounds	58,658	55,149	57,766
Palm				
Consumption				
Once refined oil removed for use in processing	1 000 pounds	235.095	193,523	212,217
Removed for edible use in processing		226,185	190,974	210,370
Removed for inedible use in processing		8,910	2,549	1,847
Stocks	1,000 pourius	0,310	2,549	1,047
Once refined oil on hand end of month	1,000 pounds	404,466	339,582	349,658
			·	
Peanut Pofine				
Refine	1 000	(D)	22.027	40.000
Crude oil processed in refining		(D)	33,837	18,392
Once refined oil produced	1,000 pounds	22,764	31,871	17,613
Consumption	4.055		<u></u> .	,-·
Crude oil removed for inedible use in processing	1,000 pounds	(D)	(D)	(D)
Once refined oil removed for use in processing		20,821	24,113	21,207
Removed for edible use in processing		(D)	(D)	(D)
Removed for inedible use in processing	1,000 pounds	(D)	(D)	(D)
Stocks				
Crude oil on hand end of month		25,664	25,965	25,961
Once refined oil on hand end of month	1,000 pounds	(D)	(D)	(D)
Safflower				
Refine				
Crude oil processed in refining	1 000 pounds	(D)	(D)	(D)
Once refined oil produced		(D)	(D)	(D)
Consumption		(D)	(2)	(D)
· · · · · · · · · · · · · · · · · · ·	1 000 pounds	(D)	(D)	(D)
Crude oil removed for inedible use in processing		(D) 1,824	(D) 4,899	(D) 3,782
Once refined oil removed for use in processing			·	·
Removed for edible use in processing		(D)	(D)	(D)
Removed for inedible use in processing	1,000 pounds	(D)	(D)	(D)
Stocks	4 000	(D)	44.44	44.000
Crude oil on hand end of month		(D)	11,444	11,838
Once refined oil on hand end of month	1,000 pounds	(D)	(D)	(D)
Sunflower				
Refine			40.040	44.00=
Crude oil processed in refining		41,721	46,913	44,285
Once refined oil produced	1,000 pounds	40,929	45,343	43,400
Consumption				
Crude oil removed for inedible use in processing		(D)	(D)	(D)
Once refined oil removed for use in processing	1,000 pounds	37,243	34,611	(D)
Removed for edible use in processing	1,000 pounds	(D)	(D)	(D)
Removed for inedible use in processing	1,000 pounds	(D)	(D)	(D)
Stocks		, ,	` ´	, ,
Crude oil on hand end of month	1,000 pounds	(D)	54,115	57,952
Once refined oil on hand end of month		19,266	47,606	50,455
Vegetable foots, raw and acidulated				
Refine				
0" 1 1	1.000 pounds	(D)	(D)	(D)
Oil produced			` '	` '
Oil produced	1,000 pod.100	, ,		
	•	(D)	(D)	(D)
Consumption	•	(D)	(D)	(D)

⁽D) Withheld to avoid disclosing data for individual operations.

Animal Fats and Oils Production, Consumption and Stocks – United States: March 2023 with Comparisons

ltem	March 2022	February 2023	March 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Choice white grease			
Production	121,744	114,672	118,738
Removed for inedible use	122,380	116,733	119,212
Stocks on hand end of month	6,135	5,752	5,277
Feather meal			
Production	83,735	101,084	89,646
Stocks on hand end of month	19,273	18,677	18,081
Lard			
Production	25,219	22,883	25,655
Removed for use in processing	17,504	19,228	(D)
Removed for edible use in processing	(D)	(D)	(D)
Removed for inedible use in processing	(D)	(D)	(D)
Stocks on hand end of month	16,203	7,107	(D)
Meat meal, meat and bone meal, and dry rendered tankage	,	.,	(-)
Production	465,363	483,855	503,002
Stocks on hand end of month	75,961	52,335	54,173
Other grease	70,001	02,000	01,170
Production	36,086	28,077	30,803
Removed for inedible use in processing	30,799	27,321	35,115
Stocks on hand end of month	30,799 (D)	(D)	(D)
Poultry fats	(b)	(D)	(D)
Production	153,766	196,350	173,738
Removed for inedible use in processing	152,313	196,411	171,646
Stocks on hand end of month	30,720	25,432	27,229
Poultry by-product meals	30,720	23,432	21,229
, , ,	201 F01	202 727	227 751
Production Stocks on hand end of month	291,501 88,029	393,727 65,113	337,751 57,490
Tallow, edible	88,029	00,113	37,490
, and the second	76 722	107 107	04.460
Production	76,732	107,107	91,469
Removed for use in processing	75,635	128,932	76,297
Removed for edible use in processing	(D)	(D)	(D)
Removed for inedible use in processing	(D)	(D)	(D)
Stocks on hand end of month	23,823	12,918	(D)
Tallow, inedible			
Production	313,741	367,157	374,079
Removed for inedible use in processing	318,145	399,683	378,197
Stocks on hand end of month	110,218	83,198	79,080
Tallow, technical			
Production	108,555	107,979	99,955
Removed for inedible use in processing	109,079	110,967	101,622
Stocks on hand end of month	(D)	(D)	(D)
Yellow grease			
Production	181,127	177,582	199,791
Removed for inedible use in processing	153,284	160,856	210,972
Stocks on hand end of month	116,420	113,840	102,566

⁽D) Withheld to avoid disclosing data for individual operations.

Statistical Methodology

Survey Procedures: Fats and Oils: Oilseed Crushings, Production, Consumption and Stocks is part of the Current Agricultural Industrial Reports (CAIR) program. CAIR reports are administered under NASS's Census of Agriculture program. Response to CAIR surveys are required by law (Title 7, U.S. Code). Animal and vegetable fats and oils data are collected from all known facilities that crush, refine or render. Crushing facilities include processors that use either solvent extraction or continuous screw press.

The census universe was determined during operation profile interviews which were completed for each potential facility to identify the presence of rendering, oilseeds crushing, and crude oil refining in 2014.

In the Animal and Vegetable Fats and Oils survey questionnaire, facilities are asked for previous calendar month data on oilseed crushing, crude oil production, once refined oil production, rendering production, and end of month stocks. Facilities are mailed questionnaires with the options of completing the survey by mail or by Electronic Data Reporting (EDR). For surveys not received in a reasonable amount of time, telephone follow-up is conducted.

Estimating Procedures: Imputation is done for operations with non-response by using historical data and current data relationships. Data for reporting firms are added to estimates for non-reporting firms to obtain National totals.

Revision Policy: Data are revised the following month based on late reports or corrected data. Final figures are published in the annual summary of the following year.

Reliability: Survey data are based on a census of all known facilities and therefore, have no sampling variability. Monthly data can vary due to different firms reporting month to month. Survey data are also subject to non-sampling errors such as omissions and mistakes in reporting and in processing the data. While these errors cannot be measured directly, they are minimized by carefully reviewing all reported data for consistency and reasonableness.

Information Contacts

Listed below are the commodity statisticians in the Crops Branch of the National Agricultural Statistics Service to contact for additional information. E-mail inquiries may be sent to nass@usda.gov

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