



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

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Highlights

February 2022 contained 28 days.

March 2022 contained 31 days.

Soybeans crushed for crude oil was 5.79 million tons (193 million bushels) in March 2022, compared with 5.23 million tons (174 million bushels) in February 2022 and 5.65 million tons (188 million bushels) in March 2021. Crude oil produced was 2.28 billion pounds up 10 percent from February 2022 and up 2 percent from March 2021. Soybean once refined oil production at 1.79 billion pounds during March 2022 increased 16 percent from February 2022 and increased 2 percent from March 2021.

Canola seeds crushed for crude oil was 163,923 tons in March 2022, compared with 130,398 tons in February 2022 and 207,096 tons in March 2021. Canola crude oil produced was 124 million pounds, up 23 percent from February 2022 but down 28 percent from March 2021. Canola once refined oil production, at 151 million pounds during March 2022, was up 55 percent from February 2022 but down 3 percent from March 2021.

Cottonseed once refined oil production, at 47.3 million pounds during March 2022, was up 7 percent from February 2022 and up 9 percent from March 2021.

Edible tallow production was 77.7 million pounds during March 2022, down 9 percent from February 2022 and down 18 percent from March 2021. Inedible tallow production was 293 million pounds during March 2022, down 1 percent from February 2022 and down 20 percent from March 2021. Technical tallow production was 91.5 million pounds during March 2022, down 20 percent from February 2022 and down 16 percent from March 2021. Choice white grease production, at 122 million pounds during March 2022, increased 2 percent from February 2022 and increased 12 percent from March 2021.

**Soybean Crushing, Production, Consumption and Stocks – United States: March 2022
with Comparisons**

Item	March 2021	February 2022	March 2022
Crush			
Soybeans crushed..... tons	5,646,728	5,232,453	5,786,159
Crude oil produced.....1,000 pounds	2,222,123	2,064,199	2,277,541
Cake and meal produced..... tons	4,181,300	3,817,784	4,249,054
For animal feed..... tons	4,128,686	3,763,135	4,190,876
For edible protein products..... tons	52,614	54,649	58,178
Millfeed produced..... tons	295,287	272,171	300,577
Refine			
Crude oil processed in refining.....1,000 pounds	1,799,682	1,574,843	1,831,109
Once refined oil produced.....1,000 pounds	1,756,293	1,544,983	1,787,939
Consumption			
Crude oil removed for inedible use in processing.....1,000 pounds	168,184	148,218	161,282
Once refined oil removed for use in processing.....1,000 pounds	1,809,582	1,526,960	1,831,900
Removed for edible use in processing.....1,000 pounds	1,262,853	1,153,916	1,386,180
Removed for inedible use in processing.....1,000 pounds	546,729	373,044	445,720
Stocks			
Cake and meal on hand end of month..... tons	415,418	347,160	347,191
Millfeed on hand end of month..... tons	32,322	38,716	33,777
Crude oil on hand end of month.....1,000 pounds	1,864,100	2,172,311	2,084,253
Crusher.....1,000 pounds	881,363	1,019,221	986,203
Refiner.....1,000 pounds	283,755	397,323	390,616
Offsite.....1,000 pounds	698,982	755,767	707,434
Once refined oil on hand end of month.....1,000 pounds	381,178	393,796	349,465

Soybean Crushing – Regional: March 2022 with Comparisons

Region	Soybeans crushed		
	March 2021	February 2022	March 2022
	(tons)	(tons)	(tons)
Illinois	650,305	595,948	675,525
Iowa.....	1,184,103	1,056,550	1,201,743
North and East ¹	1,249,030	1,175,071	1,307,652
North Central ²	948,475	886,474	964,389
South, West and Pacific ³	653,920	637,431	669,125
West Central ⁴	960,895	880,979	967,725
Region	Crude oil produced		
	March 2021	February 2022	March 2022
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	257,144	238,972	265,000
Iowa.....	473,760	421,061	478,317
North and East ¹	486,457	449,514	512,552
North Central ²	365,803	350,532	374,489
South, West and Pacific ³	252,520	248,263	257,838
West Central ⁴	386,439	355,857	389,345
Region	Crude oil stocks at crusher		
	March 2021	February 2022	March 2022
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	116,301	126,320	136,293
Iowa.....	159,091	205,632	205,612
North and East ¹	186,154	237,210	209,325
North Central ²	253,489	256,308	252,019
South, West and Pacific ³	68,880	58,886	63,585
West Central ⁴	97,448	134,865	119,369
Region	Cake and meal produced		
	March 2021	February 2022	March 2022
	(tons)	(tons)	(tons)
Illinois	474,100	424,031	487,917
Iowa.....	877,859	783,301	886,163
North and East ¹	922,999	851,907	954,196
North Central ²	709,801	650,070	710,466
South, West and Pacific ³	479,929	460,444	491,191
West Central ⁴	716,612	648,031	719,121
Region	Cake and meal stocks		
	March 2021	February 2022	March 2022
	(tons)	(tons)	(tons)
Illinois	71,222	40,707	42,072
Iowa.....	58,250	49,401	50,613
North and East ¹	137,616	119,050	117,923
North Central ²	86,273	49,291	38,943
South, West and Pacific ³	18,042	52,807	55,829
West Central ⁴	44,015	35,904	41,811

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 2022
with Comparisons**

Item	March 2021	February 2022	March 2022
Canola			
Crush			
Seeds crushed..... tons	207,096	130,398	163,923
Crude oil produced.....1,000 pounds	172,196	101,075	124,427
Cake and meal produced..... tons	115,712	75,575	94,188
Refine			
Crude oil processed in refining.....1,000 pounds	160,686	100,227	155,433
Once refined oil produced.....1,000 pounds	155,434	97,094	150,795
Consumption			
Crude oil removed for inedible use in processing.....1,000 pounds	(D)	(D)	(D)
Once refined oil removed for use in processing.....1,000 pounds	156,722	102,485	144,668
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			
Cake and meal on hand end of month..... tons	28,741	37,972	38,634
Crude oil on hand end of month.....1,000 pounds	49,785	47,546	52,639
Once refined oil on hand end of month.....1,000 pounds	78,543	89,372	84,414
Cottonseed			
Crush			
Seeds crushed..... tons	161,253	143,834	132,455
Crude oil produced.....1,000 pounds	43,654	40,353	34,759
Cake and meal produced..... tons	70,175	62,357	56,954
Refine			
Crude oil processed in refining.....1,000 pounds	44,452	45,186	48,588
Once refined oil produced.....1,000 pounds	43,209	44,334	47,266
Consumption			
Crude oil removed for inedible use in processing.....1,000 pounds	(D)	(D)	(D)
Once refined oil removed for use in processing.....1,000 pounds	40,352	41,071	46,454
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			
Cake and meal on hand end of month..... tons	20,345	17,442	8,593
Crude oil on hand end of month.....1,000 pounds	29,202	(D)	(D)
Once refined oil on hand end of month.....1,000 pounds	20,989	25,311	25,086
Coconut			
Refine			
Crude oil processed in refining.....1,000 pounds	(D)	34,524	33,504
Once refined oil produced.....1,000 pounds	(D)	33,989	33,107
Consumption			
Crude oil removed for inedible use in processing.....1,000 pounds	(D)	(D)	(D)
Once refined oil removed for use in processing.....1,000 pounds	60,884	53,175	55,373
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	41,698	98,095	67,265
Once refined oil on hand end of month.....1,000 pounds	(D)	(D)	(D)
Corn			
Crush			
Crude oil produced.....1,000 pounds	166,495	120,077	135,106
Refine			
Crude oil processed in refining.....1,000 pounds	169,962	(D)	(D)
Once refined oil produced.....1,000 pounds	167,110	(D)	(D)
Consumption			
Crude oil removed for inedible use in processing.....1,000 pounds	(D)	(D)	(D)
Once refined oil removed for use in processing.....1,000 pounds	(S)	(D)	(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	61,298	108,552	93,827
Once refined oil on hand end of month.....1,000 pounds	59,370	79,818	84,074

See footnote(s) at end of table.

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Selected Oilseed Crushing, Production, Consumption and Stocks – United States: March 2022 with Comparisons (continued)

Item	March 2021	February 2022	March 2022
Palm kernel			
Consumption			
Once refined oil removed for use in processing..... 1,000 pounds	65,502	44,419	46,006
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			
Once refined oil on hand end of month..... 1,000 pounds	52,938	56,191	58,658
Palm			
Consumption			
Once refined oil removed for use in processing..... 1,000 pounds	235,327	200,969	229,951
Removed for edible use in processing 1,000 pounds	230,217	196,596	220,525
Removed for inedible use in processing..... 1,000 pounds	5,110	4,373	9,426
Stocks			
Once refined oil on hand end of month..... 1,000 pounds	248,371	376,451	403,688
Peanut			
Refine			
Crude oil processed in refining..... 1,000 pounds	23,427	24,327	24,160
Once refined oil produced..... 1,000 pounds	22,249	23,054	23,192
Consumption			
Crude oil removed for inedible use in processing 1,000 pounds	(D)	(D)	(D)
Once refined oil removed for use in processing..... 1,000 pounds	20,553	22,256	21,139
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)	(D)	(D)
Once refined oil on hand end of month..... 1,000 pounds	(D)	(D)	(D)
Safflower			
Refine			
Crude oil processed in refining..... 1,000 pounds	2,024	(D)	(D)
Once refined oil produced..... 1,000 pounds	1,936	(D)	(D)
Consumption			
Crude oil removed for inedible use in processing 1,000 pounds	(D)	(D)	(D)
Once refined oil removed for use in processing..... 1,000 pounds	3,225	8,199	1,824
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)	5,328	(D)
Once refined oil on hand end of month..... 1,000 pounds	(D)	(D)	(D)
Sunflower			
Refine			
Crude oil processed in refining..... 1,000 pounds	43,791	37,830	41,721
Once refined oil produced..... 1,000 pounds	41,371	36,113	40,929
Consumption			
Crude oil removed for inedible use in processing 1,000 pounds	(D)	(D)	(D)
Once refined oil removed for use in processing..... 1,000 pounds	37,737	34,433	37,243
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	61,607	(D)	(D)
Once refined oil on hand end of month..... 1,000 pounds	23,902	20,690	19,266
Vegetable foots, raw and acidulated			
Refine			
Oil produced 1,000 pounds	(D)	(D)	(D)
Consumption			
Oil removed for inedible use in processing..... 1,000 pounds	(D)	(D)	(D)
Stocks			
Oil on hand end of month 1,000 pounds	(D)	(D)	(D)

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

(S) Insufficient number of reports to establish an estimate.

**Animal Fats and Oils Production, Consumption and Stocks – United States: March 2022
with Comparisons**

Item	March 2021 (1,000 pounds)	February 2022 (1,000 pounds)	March 2022 (1,000 pounds)
Choice white grease			
Production.....	108,982	119,243	121,744
Removed for inedible use.....	107,621	120,964	122,380
Stocks on hand end of month.....	11,238	6,770	6,135
Feather meal			
Production.....	83,980	87,115	83,735
Stocks on hand end of month.....	15,568	17,263	19,273
Lard			
Production.....	17,456	31,369	25,219
Removed for use in processing.....	20,165	27,880	17,504
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	6,912	12,148	16,203
Meat meal, meat and bone meal, and dry rendered tankage			
Production.....	513,462	472,630	465,363
Stocks on hand end of month.....	68,074	68,604	75,961
Other grease			
Production.....	39,492	34,958	36,086
Removed for inedible use in processing.....	42,624	45,429	30,799
Stocks on hand end of month.....	7,046	(D)	(D)
Poultry fats			
Production.....	179,452	155,533	153,766
Removed for inedible use in processing.....	183,605	158,054	152,313
Stocks on hand end of month.....	25,233	29,337	30,720
Poultry by-product meals			
Production.....	293,462	240,473	291,501
Stocks on hand end of month.....	43,638	103,396	88,029
Tallow, edible			
Production.....	94,481	85,735	77,664
Removed for use in processing.....	98,462	87,907	76,567
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	13,019	(D)	23,823
Tallow, inedible			
Production.....	365,475	297,541	293,482
Removed for inedible use in processing.....	368,767	286,957	297,886
Stocks on hand end of month.....	(D)	(D)	110,218
Tallow, technical			
Production.....	109,266	114,061	91,505
Removed for inedible use in processing.....	111,236	115,164	92,029
Stocks on hand end of month.....	(D)	(D)	(D)
Yellow grease			
Production.....	210,963	161,409	181,127
Removed for inedible use in processing.....	194,194	149,325	153,284
Stocks on hand end of month.....	97,920	88,584	116,420

(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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Irwin Anolik – Crop Weather	(202) 720-7621
Joshua Bates – Hemp, Oats, Soybeans.....	(202) 690-3234
David Colwell – Current Agricultural Industrial Reports.....	(202) 720-8800
Michelle Harder – Barley, County Estimates, Hay	(202) 690-8533
James Johanson – Rye, Wheat.....	(202) 720-8068
Greg Lemmons – Corn, Flaxseed, Proso Millet	(202) 720-9526
Becky Sommer – Cotton, Cotton Ginnings, Sorghum.....	(202) 720-5944
Travis Thorson – Sunflower, Other Oilseeds.....	(202) 720-7369
Lihan Wei – Peanuts, Rice.....	(202) 720-7688

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For more information on NASS surveys and reports, call the NASS Agricultural Statistics Hotline at (800) 727-9540, 7:30 a.m. to 4:00 p.m. ET, or e-mail: nass@usda.gov.

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