



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

ISSN: 2379-9862

Released January 3, 2023, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, United States Department of Agriculture (USDA).

Highlights

October 2022 contained 31 days.

November 2022 contained 30 days.

Soybeans crushed for crude oil was 5.68 million tons (189 million bushels) in November 2022, compared with 5.90 million tons (197 million bushels) in October 2022 and 5.72 million tons (191 million bushels) in November 2021. Crude oil produced was 2.20 billion pounds down 6 percent from October 2022 and down 2 percent from November 2021. Soybean once refined oil production at 1.63 billion pounds during November 2022 decreased 9 percent from October 2022 and decreased 2 percent from November 2021.

Canola seeds crushed for crude oil was 180,750 tons in November 2022, compared with 208,459 tons in October 2022 and 160,197 tons in November 2021. Canola crude oil produced was 145 million pounds, down 15 percent from October 2022 but up 16 percent from November 2021. Canola once refined oil production, at 144 million pounds during November 2022, was down 10 percent from October 2022 but up 3 percent from November 2021.

Cottonseed once refined oil production, at 37.1 million pounds during November 2022, was down 7 percent from October 2022 but up 15 percent from November 2021.

Edible tallow production was 69.4 million pounds during November 2022, down 14 percent from October 2022 and down 20 percent from November 2021. Inedible tallow production was 361 million pounds during November 2022, down 4 percent from October 2022 and down 4 percent from November 2021. Technical tallow production was 125 million pounds during November 2022, up 10 percent from October 2022 but down less than 1 percent from November 2021. Choice white grease production, at 117 million pounds during November 2022, increased 8 percent from October 2022 but decreased 10 percent from November 2021.

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

Item	November 2021	October 2022	November 2022
Crush			
Soybeans crushed..... tons	5,717,943	5,899,694	5,684,492
Crude oil produced.....1,000 pounds	2,235,370	2,338,085	2,198,182
Cake and meal produced..... tons	4,164,959	4,325,878	4,189,316
For animal feed..... tons	4,115,130	4,287,358	4,151,998
For edible protein products..... tons	49,829	38,520	37,318
Millfeed produced..... tons	291,811	277,518	279,130
Refine			
Crude oil processed in refining.....1,000 pounds	1,701,596	1,829,750	1,674,784
Once refined oil produced.....1,000 pounds	1,663,486	1,787,583	1,633,401
Consumption			
Crude oil removed for inedible use in processing.....1,000 pounds	155,107	176,792	185,610
Once refined oil removed for use in processing.....1,000 pounds	1,625,636	1,736,162	1,661,798
Removed for edible use in processing.....1,000 pounds	1,201,284	1,243,687	1,178,251
Removed for inedible use in processing.....1,000 pounds	424,352	492,475	483,547
Stocks			
Cake and meal on hand end of month..... tons	333,525	352,206	319,089
Millfeed on hand end of month..... tons	42,087	26,008	28,853
Crude oil on hand end of month.....1,000 pounds	1,940,772	1,640,358	1,672,891
Crusher.....1,000 pounds	937,363	825,227	896,351
Refiner.....1,000 pounds	338,069	245,947	247,316
Offsite.....1,000 pounds	665,340	569,184	529,224
Once refined oil on hand end of month.....1,000 pounds	465,191	453,265	435,061

Soybean Crushing – Regional: November 2022 with Comparisons

Region	Soybeans crushed		
	November 2021	October 2022	November 2022
	(tons)	(tons)	(tons)
Illinois	667,542	684,071	660,584
Iowa.....	1,195,092	1,213,824	1,148,152
North and East ¹	1,284,894	1,344,275	1,268,940
North Central ²	938,426	996,060	970,217
South, West and Pacific ³	685,243	681,372	686,744
West Central ⁴	946,746	980,092	949,855
Region	Crude oil produced		
	November 2021	October 2022	November 2022
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	258,905	275,511	253,481
Iowa.....	466,018	482,562	453,039
North and East ¹	497,334	520,536	481,803
North Central ²	367,976	386,494	368,080
South, West and Pacific ³	262,298	264,720	263,355
West Central ⁴	382,839	408,262	378,424
Region	Crude oil stocks at crusher		
	November 2021	October 2022	November 2022
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	130,224	(D)	(D)
Iowa.....	142,265	154,044	158,341
North and East ¹	257,434	134,813	157,570
North Central ²	192,590	207,068	205,420
South, West and Pacific ³	71,627	(D)	(D)
West Central ⁴	143,223	149,295	150,427
Region	Cake and meal produced		
	November 2021	October 2022	November 2022
	(tons)	(tons)	(tons)
Illinois	479,210	490,974	478,494
Iowa.....	870,604	901,752	851,522
North and East ¹	939,348	981,993	938,502
North Central ²	688,681	734,825	721,242
South, West and Pacific ³	490,266	495,268	500,100
West Central ⁴	696,850	721,066	699,456
Region	Cake and meal stocks		
	November 2021	October 2022	November 2022
	(tons)	(tons)	(tons)
Illinois	72,108	50,909	54,037
Iowa.....	48,377	52,795	40,518
North and East ¹	104,593	99,026	94,050
North Central ²	40,451	53,628	51,920
South, West and Pacific ³	25,209	45,918	33,775
West Central ⁴	42,787	49,930	44,789

(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: November 2022
with Comparisons**

Item	November 2021	October 2022	November 2022
Canola			
Crush			
Seeds crushed..... tons	160,197	208,459	180,750
Crude oil produced.....1,000 pounds	125,126	171,282	144,969
Cake and meal produced..... tons	93,909	120,679	100,676
Refine			
Crude oil processed in refining.....1,000 pounds	144,298	165,410	148,747
Once refined oil produced.....1,000 pounds	139,918	160,290	144,382
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	141,559	163,786	147,672
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	37,101	51,079	43,302
Crude oil on hand end of month.....1,000 pounds	39,882	59,848	61,701
Once refined oil on hand end of month.....1,000 pounds	88,870	114,767	109,170
Cottonseed			
Crush			
Seeds crushed..... tons	135,480	113,241	128,907
Crude oil produced.....1,000 pounds	35,172	29,255	33,921
Cake and meal produced..... tons	58,686	51,726	51,071
Refine			
Crude oil processed in refining.....1,000 pounds	33,140	40,965	38,141
Once refined oil produced.....1,000 pounds	32,280	39,833	37,089
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	37,695	32,272	34,201
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	40,931	36,122	36,043
Crude oil on hand end of month.....1,000 pounds	(D)	(D)	(D)
Once refined oil on hand end of month.....1,000 pounds	15,901	31,660	35,119
Coconut			
Refine			
Crude oil processed in refining.....1,000 pounds	(D)	38,585	38,409
Once refined oil produced.....1,000 pounds	(D)	37,756	37,926
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	59,310	57,450	50,001
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	83,707	78,240	101,043
Once refined oil on hand end of month.....1,000 pounds	(D)	(D)	(D)
Corn			
Crush			
Crude oil produced.....1,000 pounds	150,429	146,592	169,342
Refine			
Crude oil processed in refining.....1,000 pounds	(D)	146,101	167,210
Once refined oil produced.....1,000 pounds	(D)	140,980	163,315
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	(D)	118,267	135,447
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	81,351	90,279	81,177
Once refined oil on hand end of month.....1,000 pounds	71,515	76,966	95,005

See footnote(s) at end of table.

--continued

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

Item	November 2021	October 2022	November 2022
Palm kernel			
Consumption			
Once refined oil removed for use in processing..... 1,000 pounds	37,832	42,072	36,786
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	70,559	50,989	62,253
Palm			
Consumption			
Once refined oil removed for use in processing..... 1,000 pounds	236,388	240,967	232,912
Removed for edible use in processing 1,000 pounds	224,788	234,437	222,135
Removed for inedible use in processing..... 1,000 pounds	11,600	6,530	10,777
Stocks			
Once refined oil on hand end of month..... 1,000 pounds	267,420	385,132	409,711
Peanut			
Refine			
Crude oil processed in refining..... 1,000 pounds	26,861	25,731	35,574
Once refined oil produced..... 1,000 pounds	25,732	24,523	33,468
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	36,867	23,981	41,998
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)	32,799	24,463
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..... 1,000 pounds	(D)	(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	(D)	4,653	3,430
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)	4,245	5,280
Once refined oil on hand end of month..... 1,000 pounds	(D)	(D)	(D)
Sunflower			
Refine			
Crude oil processed in refining..... 1,000 pounds	47,946	40,863	47,124
Once refined oil produced..... 1,000 pounds	46,289	39,865	46,204
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	39,515	34,208	33,919
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	38,099	48,293	45,328
Once refined oil on hand end of month..... 1,000 pounds	25,113	40,702	50,883
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.

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

Item	November 2021 (1,000 pounds)	October 2022 (1,000 pounds)	November 2022 (1,000 pounds)
Choice white grease			
Production.....	129,988	108,287	116,593
Removed for inedible use.....	127,668	106,961	116,980
Stocks on hand end of month.....	9,239	7,153	6,766
Feather meal			
Production.....	80,324	95,769	103,734
Stocks on hand end of month.....	20,916	18,376	17,990
Lard			
Production.....	34,175	25,225	26,203
Removed for use in processing.....	37,328	23,882	27,514
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	4,725	7,110	5,055
Meat meal, meat and bone meal, and dry rendered tankage			
Production.....	520,433	491,779	473,423
Stocks on hand end of month.....	103,456	61,259	68,383
Other grease			
Production.....	38,213	29,361	25,351
Removed for inedible use in processing.....	44,449	29,570	26,135
Stocks on hand end of month.....	(D)	(D)	(D)
Poultry fats			
Production.....	167,555	181,944	192,127
Removed for inedible use in processing.....	167,924	176,606	196,332
Stocks on hand end of month.....	36,031	30,295	26,090
Poultry by-product meals			
Production.....	280,759	356,010	364,126
Stocks on hand end of month.....	115,846	70,326	68,800
Tallow, edible			
Production.....	86,896	81,113	69,448
Removed for use in processing.....	91,676	81,596	69,526
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	15,860	(D)	(D)
Tallow, inedible			
Production.....	377,789	375,095	361,471
Removed for inedible use in processing.....	383,668	391,965	340,355
Stocks on hand end of month.....	(D)	98,152	(D)
Tallow, technical			
Production.....	125,128	113,204	124,918
Removed for inedible use in processing.....	122,514	114,555	124,420
Stocks on hand end of month.....	(D)	(D)	(D)
Yellow grease			
Production.....	187,154	187,894	166,177
Removed for inedible use in processing.....	220,539	184,149	162,987
Stocks on hand end of month.....	98,756	100,680	103,870

(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

Lance Honig, Chief, Crops Branch.....	(202) 720-2127
Chris Hawthorn, Head, Field Crops Section	(202) 720-2127
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

Access to NASS Reports

For your convenience, you may access NASS reports and products the following ways:

- All reports are available electronically, at no cost, on the NASS web site: www.nass.usda.gov.
- Both national and state specific reports are available via a free e-mail subscription. To set-up this free subscription, visit www.nass.usda.gov and click on “National” or “State” in upper right corner above “search” box to create an account and select the reports you would like to receive.
- Cornell’s Mann Library has launched a new website housing NASS’s and other agency’s archived reports. The new website, <https://usda.library.cornell.edu>. All email subscriptions containing reports will be sent from the new website, <https://usda.library.cornell.edu>. To continue receiving the reports via e-mail, you will have to go to the new website, create a new account and re-subscribe to the reports. If you need instructions to set up an account or subscribe, they are located at: <https://usda.library.cornell.edu/help>. You should whitelist notifications@usda-esmis.library.cornell.edu in your email client to avoid the emails going into spam/junk folders.

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.

The U.S. Department of Agriculture (USDA) prohibits discrimination against its customers, employees, and applicants for employment on the basis of race, color, national origin, age, disability, sex, gender identity, religion, reprisal, and where applicable, political beliefs, marital status, familial or parental status, sexual orientation, or all or part of an individual's income is derived from any public assistance program, or protected genetic information in employment or in any program or activity conducted or funded by the Department. (Not all prohibited bases will apply to all programs and/or employment activities.)

If you wish to file a Civil Rights program complaint of discrimination, complete the [USDA Program Discrimination Complaint Form](#) (PDF), found online at www.ascr.usda.gov/filing-program-discrimination-complaint-usda-customer, or at any USDA office, or call (866) 632-9992 to request the form. You may also write a letter containing all of the information requested in the form. Send your completed complaint form or letter to us by mail at U.S. Department of Agriculture, Director, Office of Adjudication, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, by fax (202) 690-7442 or email at program.intake@usda.gov.