



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

ISSN: 2379-9862

Released December 1, 2021, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, United States Department of Agriculture (USDA).

Highlights

September 2021 contained 30 days.

October 2021 contained 31 days.

Soybeans crushed for crude oil was 5.91 million tons (197 million bushels) in October 2021, compared with 4.92 million tons (164 million bushels) in September 2021 and 5.90 million tons (197 million bushels) in October 2020. Crude oil produced was 2.35 billion pounds up 21 percent from September 2021 and up 3 percent from October 2020. Soybean once refined oil production at 1.73 billion pounds during October 2021 increased 8 percent from September 2021 and increased 5 percent from October 2020.

Canola seeds crushed for crude oil was 196,646 tons in October 2021, compared with 168,464 tons in September 2021 and 215,878 tons in October 2020. Canola crude oil produced was 157 million pounds, up 15 percent from September 2021 but down 13 percent from October 2020. Canola once refined oil production, at 148 million pounds during October 2021, was up 6 percent from September 2021 but down 4 percent from October 2020.

Cottonseed once refined oil production, at 37.6 million pounds during October 2021, was up 58 percent from September 2021 but down 11 percent from October 2020.

Edible tallow production was 77.4 million pounds during October 2021, up 1 percent from September 2021 and up 23 percent from October 2020. Inedible tallow production was 342 million pounds during October 2021, down 2 percent from September 2021 but up 35 percent from October 2020. Technical tallow production was 129 million pounds during October 2021, up 4 percent from September 2021 and up 34 percent from October 2020. Choice white grease production, at 104 million pounds during October 2021, increased 1 percent from September 2021 and increased 7 percent from October 2020.

**Soybean Crushing, Production, Consumption and Stocks – United States: October 2021
with Comparisons**

Item	October 2020	September 2021	October 2021
Crush			
Soybeans crushed..... tons	5,897,079	4,924,574	5,908,157
Crude oil produced.....1,000 pounds	2,282,471	1,938,212	2,347,580
Cake and meal produced..... tons	4,335,054	3,604,266	4,284,256
For animal feed..... tons	4,289,031	3,548,734	4,231,399
For edible protein products..... tons	46,023	55,532	52,857
Millfeed produced..... tons	280,538	263,385	307,383
Refine			
Crude oil processed in refining.....1,000 pounds	1,692,858	1,650,106	1,772,253
Once refined oil produced.....1,000 pounds	1,650,706	1,609,230	1,731,222
Consumption			
Crude oil removed for inedible use in processing.....1,000 pounds	113,410	122,583	142,927
Once refined oil removed for use in processing.....1,000 pounds	1,595,129	1,651,189	1,686,717
Removed for edible use in processing.....1,000 pounds	1,159,944	1,257,386	1,274,866
Removed for inedible use in processing.....1,000 pounds	435,185	393,803	411,851
Stocks			
Cake and meal on hand end of month..... tons	342,914	306,923	363,969
Millfeed on hand end of month..... tons	31,285	33,863	47,512
Crude oil on hand end of month.....1,000 pounds	1,568,464	1,741,589	1,960,220
Crusher.....1,000 pounds	693,170	841,384	957,162
Refiner.....1,000 pounds	288,339	267,363	292,912
Offsite.....1,000 pounds	586,955	632,842	710,146
Once refined oil on hand end of month.....1,000 pounds	399,547	389,644	426,117

Soybean Crushing – Regional: October 2021 with Comparisons

Region	Soybeans crushed		
	October 2020	September 2021	October 2021
	(tons)	(tons)	(tons)
Illinois	701,837	567,436	674,438
Iowa	1,179,232	1,054,862	1,215,324
North and East ¹	1,353,433	1,181,329	1,373,563
North Central ²	945,362	803,971	979,305
South, West and Pacific ³	736,784	537,592	697,651
West Central ⁴	980,431	779,384	967,876
Region	Crude oil produced		
	October 2020	September 2021	October 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	273,528	223,398	268,201
Iowa	465,886	419,249	482,830
North and East ¹	518,764	464,280	540,676
North Central ²	357,605	308,351	379,028
South, West and Pacific ³	287,805	207,227	274,183
West Central ⁴	378,883	315,707	402,662
Region	Crude oil stocks at crusher		
	October 2020	September 2021	October 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	85,740	108,843	127,805
Iowa	118,238	107,518	138,813
North and East ¹	155,644	241,363	296,888
North Central ²	171,630	179,751	186,333
South, West and Pacific ³	50,435	(D)	70,057
West Central ⁴	111,483	(D)	137,266
Region	Cake and meal produced		
	October 2020	September 2021	October 2021
	(tons)	(tons)	(tons)
Illinois	508,750	415,150	482,269
Iowa	865,397	777,831	889,103
North and East ¹	988,468	864,915	997,216
North Central ²	706,839	589,215	718,124
South, West and Pacific ³	539,615	388,317	496,628
West Central ⁴	725,985	568,838	700,916
Region	Cake and meal stocks		
	October 2020	September 2021	October 2021
	(tons)	(tons)	(tons)
Illinois	67,835	42,049	53,908
Iowa	57,555	42,677	65,958
North and East ¹	70,234	83,545	84,421
North Central ²	56,982	57,740	64,941
South, West and Pacific ³	(D)	37,665	43,189
West Central ⁴	(D)	43,247	51,552

(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: October 2021
with Comparisons**

Item	October 2020	September 2021	October 2021
Canola			
Crush			
Seeds crushed..... tons	215,878	168,464	196,646
Crude oil produced.....1,000 pounds	179,038	135,812	156,615
Cake and meal produced..... tons	123,169	97,932	115,606
Refine			
Crude oil processed in refining.....1,000 pounds	159,030	143,631	152,406
Once refined oil produced.....1,000 pounds	154,477	139,331	147,962
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	174,610	141,095	157,944
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	33,734	36,403	44,073
Crude oil on hand end of month.....1,000 pounds	57,142	34,601	51,296
Once refined oil on hand end of month.....1,000 pounds	93,198	103,791	81,986
Cottonseed			
Crush			
Seeds crushed..... tons	141,299	83,030	110,594
Crude oil produced.....1,000 pounds	40,744	22,064	30,632
Cake and meal produced..... tons	64,119	35,538	49,627
Refine			
Crude oil processed in refining.....1,000 pounds	43,771	24,609	38,665
Once refined oil produced.....1,000 pounds	42,457	23,799	37,586
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	46,724	24,241	34,064
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	24,069	39,306	38,529
Crude oil on hand end of month.....1,000 pounds	(D)	34,681	(D)
Once refined oil on hand end of month.....1,000 pounds	25,190	13,527	19,552
Coconut			
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	61,348	60,581	63,318
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	58,796	69,201	83,490
Once refined oil on hand end of month.....1,000 pounds	70,298	(D)	(D)
Corn			
Crush			
Crude oil produced.....1,000 pounds	167,262	136,514	160,213
Refine			
Crude oil processed in refining.....1,000 pounds	159,689	(D)	(D)
Once refined oil produced.....1,000 pounds	154,065	(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	133,360	(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	51,473	89,968	103,050
Once refined oil on hand end of month.....1,000 pounds	52,677	(D)	69,560

See footnote(s) at end of table.

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Selected Oilseed Crushing, Production, Consumption and Stocks – United States: October 2021 with Comparisons (continued)

Item	October 2020	September 2021	October 2021
Palm kernel			
Consumption			
Once refined oil removed for use in processing..... 1,000 pounds	62,643	44,073	39,833
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	96,637	43,174	53,623
Palm			
Consumption			
Once refined oil removed for use in processing..... 1,000 pounds	257,716	233,376	236,777
Removed for edible use in processing 1,000 pounds	245,336	227,836	231,191
Removed for inedible use in processing..... 1,000 pounds	12,380	5,540	5,586
Stocks			
Once refined oil on hand end of month..... 1,000 pounds	334,010	299,620	292,862
Peanut			
Refine			
Crude oil processed in refining..... 1,000 pounds	39,415	25,205	34,756
Once refined oil produced..... 1,000 pounds	37,975	24,600	33,515
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	35,875	22,553	32,170
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	7,440	(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	4,454	(D)	(D)
Once refined oil produced..... 1,000 pounds	4,363	(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	3,904	(D)	6,177
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	5,887	(D)	(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	56,477	50,683	47,900
Once refined oil produced..... 1,000 pounds	55,623	47,451	45,695
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	42,340	35,839	38,260
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	33,468	33,214	37,154
Once refined oil on hand end of month..... 1,000 pounds	19,194	23,662	23,757
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: October 2021
with Comparisons**

Item	October 2020 (1,000 pounds)	September 2021 (1,000 pounds)	October 2021 (1,000 pounds)
Choice white grease			
Production.....	96,576	102,844	103,514
Removed for inedible use.....	94,307	101,908	104,062
Stocks on hand end of month.....	11,586	7,249	6,701
Feather meal			
Production.....	99,801	78,093	80,581
Stocks on hand end of month.....	26,098	14,838	15,945
Lard			
Production.....	24,052	27,109	25,739
Removed for use in processing.....	21,459	27,491	28,156
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	(D)	6,132	5,836
Meat meal, meat and bone meal, and dry rendered tankage			
Production.....	411,103	489,251	480,678
Stocks on hand end of month.....	68,579	76,931	94,712
Other grease			
Production.....	35,938	42,562	50,831
Removed for inedible use in processing.....	38,357	41,247	43,495
Stocks on hand end of month.....	(D)	(D)	(D)
Poultry fats			
Production.....	209,067	176,139	172,582
Removed for inedible use in processing.....	212,259	173,157	171,042
Stocks on hand end of month.....	30,974	37,469	39,010
Poultry by-product meals			
Production.....	281,576	277,804	279,200
Stocks on hand end of month.....	43,748	109,547	111,883
Tallow, edible			
Production.....	62,801	76,604	77,433
Removed for use in processing.....	63,866	78,491	81,142
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	(D)	21,943	18,371
Tallow, inedible			
Production.....	254,285	350,054	342,024
Removed for inedible use in processing.....	250,299	329,082	331,404
Stocks on hand end of month.....	97,587	(D)	(D)
Tallow, technical			
Production.....	96,225	124,777	129,384
Removed for inedible use in processing.....	94,454	123,773	130,416
Stocks on hand end of month.....	(D)	(D)	(D)
Yellow grease			
Production.....	178,423	186,146	189,326
Removed for inedible use in processing.....	192,088	169,840	177,948
Stocks on hand end of month.....	80,733	120,684	132,043

(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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Joshua Bates – 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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- 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.

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