



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

ISSN: 2379-9862

Released January 2, 2024, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, United States Department of Agriculture (USDA).

Highlights

October 2023 contained 31 days.

November 2023 contained 30 days.

Soybeans crushed for crude oil was 6.00 million tons (200 million bushels) in November 2023, compared with 6.04 million tons (201 million bushels) in October 2023 and 5.69 million tons (190 million bushels) in November 2022. Crude oil produced was 2.32 billion pounds down 2 percent from October 2023 but up 6 percent from November 2022. Soybean once refined oil production at 1.71 billion pounds during November 2023 decreased 9 percent from October 2023 but increased 5 percent from November 2022.

Canola seeds crushed for crude oil was 231,170 tons in November 2023, compared with 208,071 tons in October 2023 and 180,750 tons in November 2022. Canola crude oil produced was 182 million pounds, up 10 percent from October 2023 and up 26 percent from November 2022. Canola once refined oil production, at 161 million pounds during November 2023, was down 7 percent from October 2023 but up 11 percent from November 2022.

Cottonseed once refined oil production, at 26.6 million pounds during November 2023, was down 24 percent from October 2023 and down 28 percent from November 2022.

Edible tallow production was 98.5 million pounds during November 2023, up 30 percent from October 2023 and up 42 percent from November 2022. Inedible tallow production was 316 million pounds during November 2023, down 1 percent from October 2023 and down 13 percent from November 2022. Technical tallow production was 121 million pounds during November 2023, up 11 percent from October 2023 but down 3 percent from November 2022. Choice white grease production, at 117 million pounds during November 2023, increased 12 percent from October 2023 and increased slightly from November 2022.

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

Item	November 2022	October 2023	November 2023
Crush			
Soybeans crushed tons	5,687,098	6,041,685	6,002,708
Crude oil produced1,000 pounds	2,199,962	2,375,654	2,324,668
Cake and meal produced tons	4,190,550	4,442,466	4,399,878
For animal feed tons	4,153,232	4,393,671	4,349,599
For edible protein products tons	37,318	48,795	50,279
Millfeed produced tons	279,416	296,017	306,330
Refine			
Crude oil processed in refining1,000 pounds	1,674,784	1,922,221	1,752,601
Once refined oil produced1,000 pounds	1,633,401	1,885,105	1,707,123
Consumption			
Crude oil removed for inedible use in processing1,000 pounds	185,610	(D)	189,542
Once refined oil removed for use in processing1,000 pounds	1,661,798	1,857,752	1,682,960
Removed for edible use in processing1,000 pounds	1,178,251	1,295,769	1,182,894
Removed for inedible use in processing1,000 pounds	483,547	561,983	500,066
Stocks			
Cake and meal on hand end of month tons	319,983	291,071	260,052
Millfeed on hand end of month tons	29,122	43,568	44,385
Crude oil on hand end of month1,000 pounds	1,677,220	1,081,714	1,162,011
Crusher1,000 pounds	900,680	660,533	728,717
Refiner1,000 pounds	247,316	177,101	186,985
Offsite1,000 pounds	529,224	244,080	246,309
Once refined oil on hand end of month1,000 pounds	435,061	424,895	429,895

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

Soybean Crushing – Regional: November 2023 with Comparisons

Region	Soybeans crushed		
	November 2022	October 2023	November 2023
	(tons)	(tons)	(tons)
Illinois	660,584	652,816	661,268
Iowa.....	1,148,152	1,319,303	1,285,317
North and East ¹	1,271,546	1,378,347	1,367,655
North Central ²	970,217	1,001,749	1,048,102
South, West and Pacific ³	686,744	710,948	705,200
West Central ⁴	949,855	978,522	935,166
Region	Crude oil produced		
	November 2022	October 2023	November 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	253,481	262,865	256,700
Iowa.....	453,039	525,971	506,192
North and East ¹	483,583	536,926	522,832
North Central ²	368,080	386,163	404,079
South, West and Pacific ³	263,355	277,776	266,433
West Central ⁴	378,424	385,953	368,432
Region	Crude oil stocks at crusher		
	November 2022	October 2023	November 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	(D)	76,208	95,608
Iowa.....	158,341	70,759	76,354
North and East ¹	161,899	188,327	224,524
North Central ²	205,420	142,513	140,383
South, West and Pacific ³	(D)	48,731	(D)
West Central ⁴	150,427	133,995	(D)
Region	Cake and meal produced		
	November 2022	October 2023	November 2023
	(tons)	(tons)	(tons)
Illinois	478,494	474,313	473,968
Iowa.....	851,522	977,399	943,554
North and East ¹	939,736	1,007,371	1,005,715
North Central ²	721,242	741,309	769,883
South, West and Pacific ³	500,100	517,400	515,702
West Central ⁴	699,456	724,674	691,056
Region	Cake and meal stocks		
	November 2022	October 2023	November 2023
	(tons)	(tons)	(tons)
Illinois	54,037	32,292	18,326
Iowa.....	40,518	61,372	47,600
North and East ¹	94,944	69,448	90,741
North Central ²	51,920	60,419	41,035
South, West and Pacific ³	33,775	27,207	22,223
West Central ⁴	44,789	40,333	40,127

(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 2023
with Comparisons**

Item	November 2022	October 2023	November 2023
Canola			
Crush			
Seeds crushed..... tons	180,750	208,071	231,170
Crude oil produced 1,000 pounds	144,969	165,337	182,237
Cake and meal produced tons	100,676	120,299	130,461
Refine			
Crude oil processed in refining 1,000 pounds	148,747	179,168	164,271
Once refined oil produced 1,000 pounds	144,382	173,893	160,920
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	147,672	179,143	169,620
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	43,302	(D)	(D)
Crude oil on hand end of month 1,000 pounds	61,701	63,405	75,009
Once refined oil on hand end of month 1,000 pounds	109,170	103,639	95,659
Cottonseed			
Crush			
Seeds crushed..... tons	128,907	140,441	116,560
Crude oil produced 1,000 pounds	33,921	38,286	31,122
Cake and meal produced..... tons	51,071	58,103	50,801
Refine			
Crude oil processed in refining 1,000 pounds	38,141	35,925	27,198
Once refined oil produced 1,000 pounds	37,089	34,958	26,630
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	34,201	28,795	27,223
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	36,043	31,781	29,930
Crude oil on hand end of month 1,000 pounds	(D)	(D)	(D)
Once refined oil on hand end of month 1,000 pounds	35,119	29,184	27,843
Coconut			
Refine			
Crude oil processed in refining 1,000 pounds	38,409	29,783	32,068
Once refined oil produced 1,000 pounds	37,926	29,512	31,783
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	50,001	42,142	34,928
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	101,043	61,736	66,676
Once refined oil on hand end of month 1,000 pounds	(D)	(D)	(D)
Corn			
Crush			
Crude oil produced 1,000 pounds	169,342	133,008	166,582
Refine			
Crude oil processed in refining 1,000 pounds	167,210	151,756	169,648
Once refined oil produced 1,000 pounds	163,315	147,612	165,387
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	135,447	120,324	156,060
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	81,177	80,126	80,126
Once refined oil on hand end of month 1,000 pounds	95,005	68,502	61,316

See footnote(s) at end of table.

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

Item	November 2022	October 2023	November 2023
Palm kernel			
Consumption			
Once refined oil removed for use in processing..... 1,000 pounds	36,786	45,342	44,170
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			
Once refined oil on hand end of month..... 1,000 pounds	62,253	60,917	85,836
Palm			
Consumption			
Once refined oil removed for use in processing..... 1,000 pounds	232,912	231,358	204,361
Removed for edible use in processing 1,000 pounds	222,135	227,486	201,403
Removed for inedible use in processing..... 1,000 pounds	10,777	3,872	2,958
Stocks			
Once refined oil on hand end of month..... 1,000 pounds	409,711	328,151	347,588
Peanut			
Refine			
Crude oil processed in refining..... 1,000 pounds	35,574	34,322	21,942
Once refined oil produced..... 1,000 pounds	33,468	32,248	20,656
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	41,998	31,075	26,756
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	24,463	19,530	21,078
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	3,430	5,599	3,943
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	5,280	8,386	5,329
Once refined oil on hand end of month..... 1,000 pounds	(D)	(D)	(D)
Sunflower			
Refine			
Crude oil processed in refining..... 1,000 pounds	46,927	45,180	26,474
Once refined oil produced..... 1,000 pounds	45,999	43,267	25,268
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)	30,316	31,878
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	45,616	42,003	45,997
Once refined oil on hand end of month..... 1,000 pounds	50,729	48,671	39,389

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

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

Item	November 2022	October 2023	November 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Choice white grease			
Production.....	116,593	104,509	116,602
Removed for inedible use	116,980	103,928	115,102
Stocks on hand end of month	6,766	5,700	6,870
Feather meal			
Production.....	103,734	77,966	89,588
Stocks on hand end of month	17,990	17,083	13,067
Lard			
Production.....	26,203	27,205	31,251
Removed for use in processing	27,514	25,109	37,301
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month	5,055	9,837	8,071
Meat meal, meat and bone meal, and dry rendered tannage			
Production.....	473,623	474,864	527,831
Stocks on hand end of month	68,509	61,202	71,761
Other grease			
Production.....	25,351	23,128	28,496
Removed for inedible use in processing	26,135	27,414	27,795
Stocks on hand end of month	(D)	(D)	(D)
Poultry fats			
Production.....	192,127	194,647	222,197
Removed for inedible use in processing	196,332	183,191	222,031
Stocks on hand end of month	26,090	41,020	41,186
Poultry by-product meals			
Production.....	364,126	319,993	400,983
Stocks on hand end of month	68,800	111,022	94,491
Tallow, edible			
Production.....	69,448	75,970	98,496
Removed for use in processing	69,526	77,803	100,511
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)	11,658	9,773
Tallow, inedible			
Production.....	361,471	317,689	315,552
Removed for inedible use in processing	340,355	310,114	311,551
Stocks on hand end of month	(D)	(D)	(D)
Tallow, technical			
Production.....	124,918	108,656	120,831
Removed for inedible use in processing	124,420	95,427	122,154
Stocks on hand end of month	(D)	(D)	(D)
Yellow grease			
Production.....	166,338	157,476	145,880
Removed for inedible use in processing	163,358	159,586	127,027
Stocks on hand end of month	103,660	97,659	116,513

(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 – Hemp, Oats, Soybeans.....	(202) 690-3234
Natasha Bruton – Barley, Cotton System Consumption, and Stocks, Grain Crushings	(202) 690-1042
David Colwell – Fats and Oils, Flour Milling Products	(202) 720-8800
Michelle Harder –County Estimates, Hay.....	(202) 690-8533
James Johanson – Rye, Wheat.....	(202) 720-8068
Greg Lemmons – Corn, Flaxseed, Proso Millet	(202) 720-9526
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Travis Thorson – Sunflower, Other Oilseeds	(202) 720-7369
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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.

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