



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

ISSN: 2379-9862

---

Released October 2, 2023, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, United States Department of Agriculture (USDA).

## Highlights

**July 2023** contained 31 days.

**August 2023** contained 31 days.

**Soybeans crushed** for crude oil was 5.07 million tons (169 million bushels) in August 2023, compared with 5.55 million tons (185 million bushels) in July 2023 and 5.25 million tons (175 million bushels) in August 2022. Crude oil produced was 2.01 billion pounds, down 8 percent from July 2023 and down 4 percent from August 2022. Soybean once refined oil production at 1.71 billion pounds during August 2023 decreased 2 percent from July 2023 and decreased 2 percent from August 2022.

**Canola seeds crushed** for crude oil was 190,420 tons in August 2023, compared with 209,247 tons in July 2023 and 171,334 tons in August 2022. Canola crude oil produced was 154 million pounds, down 6 percent from July 2023 but up 13 percent from August 2022. Canola once refined oil production, at 155 million pounds during August 2023, was down 7 percent from July 2023 but up 15 percent from August 2022.

**Cottonseed once refined** oil production, at 29.4 million pounds during August 2023, was up 14 percent from July 2023 but down 38 percent from August 2022.

**Edible tallow** production was 85.8 million pounds during August 2023, down 4 percent from July 2023 and down 16 percent from August 2022. Inedible tallow production was 313 million pounds during August 2023, up 11 percent from July 2023 but down 11 percent from August 2022. Technical tallow production was 109 million pounds during August 2023, up 22 percent from July 2023 but down 3 percent from August 2022. Choice white grease production, at 127 million pounds during August 2023, increased 36 percent from July 2023 and increased 10 percent from August 2022.

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

Item	August 2022	July 2023	August 2023
<b>Crush</b>			
Soybeans crushed ..... tons	5,252,619	5,545,001	5,069,870
Crude oil produced .....1,000 pounds	2,095,581	2,180,036	2,014,153
Cake and meal produced ..... tons	3,870,512	4,088,890	3,767,064
For animal feed ..... tons	3,814,195	4,057,304	3,725,124
For edible protein products ..... tons	56,317	31,586	41,940
Millfeed produced ..... tons	276,725	274,040	262,828
<b>Refine</b>			
Crude oil processed in refining .....1,000 pounds	1,782,045	1,791,151	1,740,710
Once refined oil produced .....1,000 pounds	1,739,066	1,753,057	1,709,814
<b>Consumption</b>			
Crude oil removed for inedible use in processing .....1,000 pounds	160,640	(D)	187,120
Once refined oil removed for use in processing .....1,000 pounds	1,729,555	1,756,571	1,723,766
Removed for edible use in processing .....1,000 pounds	1,230,067	1,202,682	1,237,914
Removed for inedible use in processing .....1,000 pounds	499,488	553,889	485,852
<b>Stocks</b>			
Cake and meal on hand end of month ..... tons	308,670	425,415	280,335
Millfeed on hand end of month ..... tons	39,262	44,133	36,506
Crude oil on hand end of month .....1,000 pounds	1,690,283	1,704,235	1,353,202
Crusher .....1,000 pounds	824,981	870,177	759,927
Refiner .....1,000 pounds	295,935	251,072	226,337
Offsite .....1,000 pounds	569,367	582,986	366,938
Once refined oil on hand end of month .....1,000 pounds	413,430	431,967	419,181

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

## Soybean Crushing – Regional: August 2023 with Comparisons

Region	Soybeans crushed		
	August 2022	July 2023	August 2023
	(tons)	(tons)	(tons)
Illinois .....	527,085	678,319	580,856
Iowa.....	1,198,817	1,195,702	1,042,112
North and East <sup>1</sup> .....	1,103,922	1,281,129	1,087,196
North Central <sup>2</sup> .....	863,888	890,644	867,419
South, West and Pacific <sup>3</sup> .....	652,250	566,854	643,980
West Central <sup>4</sup> .....	906,657	932,353	848,307
Region	Crude oil produced		
	August 2022	July 2023	August 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois .....	212,578	264,773	240,628
Iowa.....	481,065	478,439	412,262
North and East <sup>1</sup> .....	435,983	497,317	427,894
North Central <sup>2</sup> .....	342,803	349,740	342,056
South, West and Pacific <sup>3</sup> .....	255,709	215,391	245,346
West Central <sup>4</sup> .....	367,443	374,376	345,967
Region	Crude oil stocks at crusher		
	August 2022	July 2023	August 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois .....	104,205	122,299	109,477
Iowa.....	156,450	141,628	87,979
North and East <sup>1</sup> .....	140,669	224,465	202,148
North Central <sup>2</sup> .....	220,056	183,087	161,842
South, West and Pacific <sup>3</sup> .....	60,174	74,133	56,196
West Central <sup>4</sup> .....	143,427	124,565	142,285
Region	Cake and meal produced		
	August 2022	July 2023	August 2023
	(tons)	(tons)	(tons)
Illinois .....	390,837	482,943	426,172
Iowa.....	881,382	884,224	776,902
North and East <sup>1</sup> .....	810,874	950,231	803,244
North Central <sup>2</sup> .....	642,633	664,005	651,305
South, West and Pacific <sup>3</sup> .....	474,613	415,020	474,345
West Central <sup>4</sup> .....	670,173	692,467	635,096
Region	Cake and meal stocks		
	August 2022	July 2023	August 2023
	(tons)	(tons)	(tons)
Illinois .....	55,833	48,935	41,202
Iowa.....	44,306	80,963	42,620
North and East <sup>1</sup> .....	73,600	140,605	86,195
North Central <sup>2</sup> .....	52,046	51,436	31,836
South, West and Pacific <sup>3</sup> .....	42,799	58,761	35,776
West Central <sup>4</sup> .....	40,086	44,715	42,706

<sup>1</sup> North and East includes Indiana, Kentucky, Maryland, Ohio, Pennsylvania and Virginia.

<sup>2</sup> North Central includes Michigan, Minnesota, North Dakota and South Dakota.

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

<sup>4</sup> West Central includes Kansas, Missouri and Nebraska.

# **Selected Oilseed Crushing, Production, Consumption and Stocks – United States: August 2023 with Comparisons**

Item	August 2022	July 2023	August 2023
<b>Canola</b>			
Crush			
Seeds crushed..... tons	171,334	209,247	190,420
Crude oil produced ..... 1,000 pounds	136,548	163,415	154,318
Cake and meal produced ..... tons	98,045	120,514	111,691
Refine			
Crude oil processed in refining ..... 1,000 pounds	139,738	171,635	160,571
Once refined oil produced ..... 1,000 pounds	135,102	166,430	155,251
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	141,567	151,221	169,926
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	41,821	59,054	57,862
Crude oil on hand end of month ..... 1,000 pounds	47,623	46,087	44,484
Once refined oil on hand end of month ..... 1,000 pounds	91,224	106,273	91,947
<b>Cottonseed</b>			
Crush			
Seeds crushed..... tons	125,126	85,306	114,845
Crude oil produced ..... 1,000 pounds	34,870	22,061	26,651
Cake and meal produced..... tons	54,218	33,807	52,983
Refine			
Crude oil processed in refining ..... 1,000 pounds	(D)	26,595	30,096
Once refined oil produced ..... 1,000 pounds	47,220	25,774	29,401
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	42,559	32,537	29,774
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	20,497	33,863	35,775
Crude oil on hand end of month ..... 1,000 pounds	(D)	(D)	(D)
Once refined oil on hand end of month ..... 1,000 pounds	28,938	24,997	25,250
<b>Coconut</b>			
Refine			
Crude oil processed in refining ..... 1,000 pounds	41,785	38,338	31,646
Once refined oil produced ..... 1,000 pounds	41,213	38,204	31,194
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	76,809	44,888	59,053
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	89,939	87,830	89,686
Once refined oil on hand end of month ..... 1,000 pounds	(D)	65,277	(D)
<b>Corn</b>			
Crush			
Crude oil produced ..... 1,000 pounds	135,710	148,605	135,681
Refine			
Crude oil processed in refining ..... 1,000 pounds	173,588	132,532	147,260
Once refined oil produced ..... 1,000 pounds	168,299	128,618	142,093
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	176,504	103,967	145,624
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	85,405	80,570	76,654
Once refined oil on hand end of month ..... 1,000 pounds	68,610	64,592	51,351

See footnote(s) at end of table.

--continued

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

Item	August 2022	July 2023	August 2023
<b>Palm kernel</b>			
Consumption			
Once refined oil removed for use in processing..... 1,000 pounds	41,835	24,312	30,803
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	53,192	60,642	48,117
<b>Palm</b>			
Consumption			
Once refined oil removed for use in processing..... 1,000 pounds	233,196	184,780	211,348
Removed for edible use in processing ..... 1,000 pounds	225,493	177,134	201,911
Removed for inedible use in processing..... 1,000 pounds	7,703	7,646	9,437
Stocks			
Once refined oil on hand end of month..... 1,000 pounds	336,493	353,625	340,693
<b>Peanut</b>			
Refine			
Crude oil processed in refining..... 1,000 pounds	(D)	27,663	36,829
Once refined oil produced..... 1,000 pounds	(D)	26,399	35,580
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)	30,877	32,877
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	28,875	29,942	29,496
Once refined oil on hand end of month..... 1,000 pounds	(D)	(D)	(D)
<b>Safflower</b>			
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)
Once refined oil removed for use in processing..... 1,000 pounds	(D)	3,400	4,446
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	6,763	13,883	14,176
Once refined oil on hand end of month..... 1,000 pounds	(D)	(D)	(D)
<b>Sunflower</b>			
Refine			
Crude oil processed in refining..... 1,000 pounds	55,840	37,399	35,659
Once refined oil produced..... 1,000 pounds	54,031	36,141	33,773
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	34,024	(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	(D)	44,842	52,507
Once refined oil on hand end of month..... 1,000 pounds	35,776	38,599	29,804

- Represents zero.

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

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

Item	August 2022 (1,000 pounds)	July 2023 (1,000 pounds)	August 2023 (1,000 pounds)
<b>Choice white grease</b>			
Production.....	114,771	92,937	126,669
Removed for inedible use .....	111,776	91,258	126,204
Stocks on hand end of month .....	7,363	6,481	6,947
<b>Feather meal</b>			
Production.....	103,553	82,833	98,767
Stocks on hand end of month .....	17,496	17,156	17,247
<b>Lard</b>			
Production.....	22,765	17,882	16,296
Removed for use in processing .....	27,875	17,614	15,183
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month .....	8,825	7,019	8,132
<b>Meat meal, meat and bone meal, and dry rendered tannage</b>			
Production.....	467,293	438,993	548,121
Stocks on hand end of month .....	64,584	54,957	56,936
<b>Other grease</b>			
Production.....	29,908	24,837	24,104
Removed for inedible use in processing .....	37,842	27,555	25,350
Stocks on hand end of month .....	(D)	(D)	(D)
<b>Poultry fats</b>			
Production.....	196,484	175,875	212,507
Removed for inedible use in processing .....	199,539	174,046	198,617
Stocks on hand end of month .....	27,876	24,055	29,637
<b>Poultry by-product meals</b>			
Production.....	356,034	287,684	343,795
Stocks on hand end of month .....	78,683	74,986	78,500
<b>Tallow, edible</b>			
Production.....	101,625	89,242	85,834
Removed for use in processing .....	94,042	86,068	87,248
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month .....	23,514	15,752	14,541
<b>Tallow, inedible</b>			
Production.....	350,702	281,771	312,653
Removed for inedible use in processing .....	345,923	281,572	317,970
Stocks on hand end of month .....	(D)	(D)	86,388
<b>Tallow, technical</b>			
Production.....	112,129	88,734	108,548
Removed for inedible use in processing .....	113,709	88,661	108,256
Stocks on hand end of month .....	(D)	(D)	(D)
<b>Yellow grease</b>			
Production.....	180,363	165,253	171,377
Removed for inedible use in processing .....	190,122	154,071	182,312
Stocks on hand end of month .....	92,166	108,639	100,415

(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](mailto:nass@usda.gov)

Lance Honig, Chief, Crops Branch.....	(202) 720-2127
Chris Hawthorn, Head, Field Crops Section .....	(202) 720-2127
Irwin Anolik – Crop Progress and Condition.....	(202) 720-7621
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
Becky Sommer – Cotton, Cotton Ginnings, Sorghum.....	(202) 720-5944
Travis Thorson – Sunflower, Other Oilseeds .....	(202) 720-7369
Jennifer Van Court – Peanuts, Rice .....	(202) 720-2127

## 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](http://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](http://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](mailto: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](mailto: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](http://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](mailto:program.intake@usda.gov).