



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

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## Highlights

**November 2022** contained 30 days.

**December 2022** contained 31 days.

**Soybeans crushed** for crude oil was 5.62 million tons (187 million bushels) in December 2022, compared with 5.68 million tons (189 million bushels) in November 2022 and 5.95 million tons (198 million bushels) in December 2021. Crude oil produced was 2.20 billion pounds down less than 1 percent from November 2022 and down 6 percent from December 2021. Soybean once refined oil production at 1.58 billion pounds during December 2022 decreased 3 percent from November 2022 and decreased 4 percent from December 2021.

**Canola seeds crushed** for crude oil was 181,455 tons in December 2022, compared with 180,750 tons in November 2022 and 176,931 tons in December 2021. Canola crude oil produced was 146 million pounds, up 1 percent from November 2022 and up 4 percent from December 2021. Canola once refined oil production, at 135 million pounds during December 2022, was down 7 percent from November 2022 and down 9 percent from December 2021.

**Cottonseed once refined** oil production, at 27.0 million pounds during December 2022, was down 27 percent from November 2022 and down 49 percent from December 2021.

**Edible tallow** production was 77.3 million pounds during December 2022, up 11 percent from November 2022 and up 16 percent from December 2021. Inedible tallow production was 362 million pounds during December 2022, up less than 1 percent from November 2022 and up 27 percent from December 2021. Technical tallow production was 99.7 million pounds during December 2022, down 20 percent from November 2022 and down 4 percent from December 2021. Choice white grease production, at 113 million pounds during December 2022, decreased 3 percent from November 2022 and decreased 8 percent from December 2021.

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

Item	December 2021	November 2022	December 2022
<b>Crush</b>			
Soybeans crushed..... tons	5,947,222	5,684,492	5,622,561
Crude oil produced .....1,000 pounds	2,324,183	2,198,182	2,195,358
Cake and meal produced..... tons	4,322,245	4,189,316	4,154,614
For animal feed..... tons	4,268,957	4,151,998	4,124,285
For edible protein products..... tons	53,288	37,318	30,329
Millfeed produced..... tons	307,307	279,130	282,795
<b>Refine</b>			
Crude oil processed in refining.....1,000 pounds	1,673,573	1,674,784	1,615,612
Once refined oil produced.....1,000 pounds	1,640,109	1,633,401	1,582,664
<b>Consumption</b>			
Crude oil removed for inedible use in processing.....1,000 pounds	177,666	185,610	(D)
Once refined oil removed for use in processing.....1,000 pounds	1,677,093	1,661,798	1,611,482
Removed for edible use in processing.....1,000 pounds	1,226,483	1,178,251	1,083,254
Removed for inedible use in processing.....1,000 pounds	450,610	483,547	528,228
<b>Stocks</b>			
Cake and meal on hand end of month..... tons	372,832	319,089	415,593
Millfeed on hand end of month..... tons	38,477	28,853	40,284
Crude oil on hand end of month.....1,000 pounds	2,035,694	1,672,891	1,902,380
Crusher.....1,000 pounds	954,641	896,351	1,014,514
Refiner.....1,000 pounds	341,872	247,316	355,265
Offsite.....1,000 pounds	739,181	529,224	532,601
Once refined oil on hand end of month.....1,000 pounds	430,197	435,061	403,767

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

## Soybean Crushing – Regional: December 2022 with Comparisons

Region	Soybeans crushed		
	December 2021	November 2022	December 2022
	(tons)	(tons)	(tons)
Illinois .....	690,990	660,584	694,187
Iowa.....	1,224,279	1,148,152	1,134,458
North and East <sup>1</sup> .....	1,340,409	1,268,940	1,283,246
North Central <sup>2</sup> .....	988,790	970,217	944,508
South, West and Pacific <sup>3</sup> .....	686,568	686,744	616,438
West Central <sup>4</sup> .....	1,016,186	949,855	949,724
Region	Crude oil produced		
	December 2021	November 2022	December 2022
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois .....	266,247	253,481	280,113
Iowa.....	479,965	453,039	448,281
North and East <sup>1</sup> .....	513,178	481,803	492,431
North Central <sup>2</sup> .....	388,266	368,080	360,964
South, West and Pacific <sup>3</sup> .....	266,050	263,355	228,843
West Central <sup>4</sup> .....	410,477	378,424	384,726
Region	Crude oil stocks at crusher		
	December 2021	November 2022	December 2022
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois .....	111,914	(D)	(D)
Iowa.....	152,785	158,341	193,254
North and East <sup>1</sup> .....	276,807	157,570	196,326
North Central <sup>2</sup> .....	214,737	205,420	300,268
South, West and Pacific <sup>3</sup> .....	62,900	(D)	(D)
West Central <sup>4</sup> .....	135,498	150,427	120,146
Region	Cake and meal produced		
	December 2021	November 2022	December 2022
	(tons)	(tons)	(tons)
Illinois .....	489,734	478,494	503,197
Iowa.....	896,068	851,522	839,509
North and East <sup>1</sup> .....	973,831	938,502	950,508
North Central <sup>2</sup> .....	722,433	721,242	699,789
South, West and Pacific <sup>3</sup> .....	495,221	500,100	453,644
West Central <sup>4</sup> .....	744,958	699,456	707,967
Region	Cake and meal stocks		
	December 2021	November 2022	December 2022
	(tons)	(tons)	(tons)
Illinois .....	67,919	54,037	71,576
Iowa.....	50,962	40,518	50,682
North and East <sup>1</sup> .....	105,010	94,050	127,540
North Central <sup>2</sup> .....	58,676	51,920	62,261
South, West and Pacific <sup>3</sup> .....	31,308	33,775	45,452
West Central <sup>4</sup> .....	58,957	44,789	58,082

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

<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: December 2022  
with Comparisons**

Item	December 2021	November 2022	December 2022
<b>Canola</b>			
Crush			
Seeds crushed..... tons	176,931	180,750	181,455
Crude oil produced.....1,000 pounds	140,696	144,969	145,914
Cake and meal produced..... tons	102,961	100,676	104,207
Refine			
Crude oil processed in refining.....1,000 pounds	152,553	148,747	138,749
Once refined oil produced.....1,000 pounds	148,163	144,382	134,938
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	143,856	147,672	140,154
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	(D)	43,302	42,221
Crude oil on hand end of month.....1,000 pounds	39,951	61,701	87,567
Once refined oil on hand end of month.....1,000 pounds	99,220	109,170	103,076
<b>Cottonseed</b>			
Crush			
Seeds crushed..... tons	147,664	128,907	116,905
Crude oil produced.....1,000 pounds	41,365	33,921	32,247
Cake and meal produced..... tons	62,493	51,071	48,103
Refine			
Crude oil processed in refining.....1,000 pounds	54,528	38,141	27,617
Once refined oil produced.....1,000 pounds	53,078	37,089	27,030
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	46,222	34,201	30,730
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	33,667	36,043	31,286
Crude oil on hand end of month.....1,000 pounds	(D)	(D)	(D)
Once refined oil on hand end of month.....1,000 pounds	23,275	35,119	31,793
<b>Coconut</b>			
Refine			
Crude oil processed in refining.....1,000 pounds	(D)	38,409	40,036
Once refined oil produced.....1,000 pounds	(D)	37,926	39,570
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	67,083	50,001	46,645
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	78,947	101,043	98,919
Once refined oil on hand end of month.....1,000 pounds	(D)	(D)	(D)
<b>Corn</b>			
Crush			
Crude oil produced.....1,000 pounds	151,431	169,342	163,919
Refine			
Crude oil processed in refining.....1,000 pounds	(D)	167,210	156,617
Once refined oil produced.....1,000 pounds	(D)	163,315	153,120
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)	135,447	154,265
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	89,813	81,177	86,610
Once refined oil on hand end of month.....1,000 pounds	77,457	95,005	85,652

See footnote(s) at end of table.

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

Item	December 2021	November 2022	December 2022
<b>Palm kernel</b>			
Consumption			
Once refined oil removed for use in processing..... 1,000 pounds	39,924	36,786	31,589
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	66,931	62,253	62,653
<b>Palm</b>			
Consumption			
Once refined oil removed for use in processing..... 1,000 pounds	212,943	232,912	193,229
Removed for edible use in processing ..... 1,000 pounds	208,213	222,135	182,989
Removed for inedible use in processing..... 1,000 pounds	4,730	10,777	10,240
Stocks			
Once refined oil on hand end of month..... 1,000 pounds	305,163	409,711	377,887
<b>Peanut</b>			
Refine			
Crude oil processed in refining..... 1,000 pounds	27,623	35,574	28,168
Once refined oil produced..... 1,000 pounds	26,667	33,468	26,670
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	29,323	41,998	23,513
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)	24,463	25,313
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)	(D)
Once refined oil removed for use in processing..... 1,000 pounds	6,035	3,430	4,020
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	1,988	5,280	7,108
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	40,710	46,927	30,984
Once refined oil produced..... 1,000 pounds	38,723	45,999	29,869
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	36,609	(D)	29,082
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)	45,616	46,632
Once refined oil on hand end of month..... 1,000 pounds	22,222	50,729	48,473
<b>Vegetable foots, raw and acidulated</b>			
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: December 2022  
with Comparisons**

Item	December 2021 (1,000 pounds)	November 2022 (1,000 pounds)	December 2022 (1,000 pounds)
<b>Choice white grease</b>			
Production.....	123,435	116,593	113,234
Removed for inedible use.....	126,360	116,980	113,347
Stocks on hand end of month.....	6,315	6,766	6,654
<b>Feather meal</b>			
Production.....	77,684	103,734	90,640
Stocks on hand end of month.....	13,193	17,990	18,350
<b>Lard</b>			
Production.....	30,416	26,203	22,324
Removed for use in processing.....	31,368	27,514	21,350
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	4,950	5,055	5,546
<b>Meat meal, meat and bone meal, and dry rendered tankage</b>			
Production.....	494,499	473,623	495,773
Stocks on hand end of month.....	81,910	68,509	63,344
<b>Other grease</b>			
Production.....	45,421	25,351	35,372
Removed for inedible use in processing.....	43,943	26,135	31,121
Stocks on hand end of month.....	(D)	(D)	(D)
<b>Poultry fats</b>			
Production.....	163,485	192,127	173,886
Removed for inedible use in processing.....	169,826	196,332	168,077
Stocks on hand end of month.....	29,689	26,090	31,900
<b>Poultry by-product meals</b>			
Production.....	271,214	364,126	351,019
Stocks on hand end of month.....	100,954	68,800	85,524
<b>Tallow, edible</b>			
Production.....	66,873	69,448	77,324
Removed for use in processing.....	67,586	69,526	81,357
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	20,536	(D)	(D)
<b>Tallow, inedible</b>			
Production.....	285,505	361,471	361,664
Removed for inedible use in processing.....	304,995	340,355	360,936
Stocks on hand end of month.....	(D)	(D)	119,997
<b>Tallow, technical</b>			
Production.....	103,539	124,918	99,652
Removed for inedible use in processing.....	105,968	124,420	98,008
Stocks on hand end of month.....	(D)	(D)	(D)
<b>Yellow grease</b>			
Production.....	171,389	166,338	179,648
Removed for inedible use in processing.....	178,984	163,358	184,229
Stocks on hand end of month.....	90,985	103,660	99,030

(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)

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David Colwell – Current Agricultural Industrial Reports.....	(202) 720-8800
Michelle Harder – Barley, County Estimates, Hay .....	(202) 690-8533
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Greg Lemmons – Corn, Flaxseed, Proso Millet .....	(202) 720-9526
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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](mailto:nass@usda.gov).

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