



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

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## Highlights

**December 2022** contained 31 days.

**January 2023** contained 31 days.

**Soybeans crushed** for crude oil was 5.73 million tons (191 million bushels) in January 2023, compared with 5.62 million tons (187 million bushels) in December 2022 and 5.83 million tons (194 million bushels) in January 2022. Crude oil produced was 2.25 billion pounds, up 3 percent from December 2022 but down 1 percent from January 2022. Soybean once refined oil production at 1.72 billion pounds during January 2023 increased 9 percent from December 2022 and increased 8 percent from January 2022.

**Canola seeds crushed** for crude oil was 204,340 tons in January 2023, compared with 181,455 tons in December 2022 and 136,632 tons in January 2022. Canola crude oil produced was 166 million pounds, up 14 percent from December 2022 and up 47 percent from January 2022. Canola once refined oil production, at 157 million pounds during January 2023, was up 16 percent from December 2022 and up 28 percent from January 2022.

**Cottonseed once refined** oil production, at 37.2 million pounds during January 2023, was up 37 percent from December 2022 but down 6 percent from January 2022.

**Edible tallow** production was 84.4 million pounds during January 2023, up 9 percent from December 2022 and up 20 percent from January 2022. Inedible tallow production was 352 million pounds during January 2023, down 1 percent from December 2022 but up 34 percent from January 2022. Technical tallow production was 107 million pounds during January 2023, up 7 percent from December 2022 and up 15 percent from January 2022. Choice white grease production, at 115 million pounds during January 2023, increased 3 percent from December 2022 and increased 5 percent from January 2022.

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

Item	January 2022	December 2022	January 2023
<b>Crush</b>			
Soybeans crushed..... tons	5,828,974	5,622,561	5,734,398
Crude oil produced.....1,000 pounds	2,277,355	2,195,358	2,252,312
Cake and meal produced..... tons	4,231,017	4,154,614	4,254,599
For animal feed..... tons	4,171,189	4,124,285	4,208,783
For edible protein products..... tons	59,828	30,329	45,816
Millfeed produced..... tons	302,136	282,795	286,310
<b>Refine</b>			
Crude oil processed in refining.....1,000 pounds	1,628,044	1,615,612	1,753,308
Once refined oil produced.....1,000 pounds	1,590,136	1,582,664	1,719,215
<b>Consumption</b>			
Crude oil removed for inedible use in processing.....1,000 pounds	180,564	(D)	(D)
Once refined oil removed for use in processing.....1,000 pounds	1,629,619	1,611,482	1,667,217
Removed for edible use in processing.....1,000 pounds	1,208,150	1,083,254	1,175,584
Removed for inedible use in processing.....1,000 pounds	421,469	528,228	491,633
<b>Stocks</b>			
Cake and meal on hand end of month..... tons	396,462	415,593	397,638
Millfeed on hand end of month..... tons	34,292	40,284	45,228
Crude oil on hand end of month.....1,000 pounds	2,113,724	1,902,380	1,898,892
Crusher.....1,000 pounds	957,236	1,014,514	1,015,648
Refiner.....1,000 pounds	372,831	355,265	308,847
Offsite.....1,000 pounds	783,657	532,601	574,397
Once refined oil on hand end of month.....1,000 pounds	386,200	403,767	457,509

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

## Soybean Crushing – Regional: January 2023 with Comparisons

Region	Soybeans crushed		
	January 2022	December 2022	January 2023
	(tons)	(tons)	(tons)
Illinois .....	679,959	694,187	697,714
Iowa.....	1,151,328	1,134,458	1,124,889
North and East <sup>1</sup> .....	1,353,371	1,283,246	1,340,192
North Central <sup>2</sup> .....	935,755	944,508	934,137
South, West and Pacific <sup>3</sup> .....	711,507	616,438	692,829
West Central <sup>4</sup> .....	997,054	949,724	944,637
Region	Crude oil produced		
	January 2022	December 2022	January 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois .....	268,621	280,113	282,811
Iowa.....	452,387	448,281	443,800
North and East <sup>1</sup> .....	520,105	492,431	518,767
North Central <sup>2</sup> .....	366,007	360,964	369,176
South, West and Pacific <sup>3</sup> .....	273,533	228,843	257,998
West Central <sup>4</sup> .....	396,702	384,726	379,760
Region	Crude oil stocks at crusher		
	January 2022	December 2022	January 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois .....	116,762	(D)	(D)
Iowa.....	186,959	193,254	199,825
North and East <sup>1</sup> .....	238,844	196,326	224,012
North Central <sup>2</sup> .....	224,045	300,268	237,842
South, West and Pacific <sup>3</sup> .....	61,372	(D)	(D)
West Central <sup>4</sup> .....	129,254	120,146	120,883
Region	Cake and meal produced		
	January 2022	December 2022	January 2023
	(tons)	(tons)	(tons)
Illinois .....	489,334	503,197	519,790
Iowa.....	846,014	839,509	839,469
North and East <sup>1</sup> .....	978,036	950,508	998,157
North Central <sup>2</sup> .....	674,473	699,789	692,763
South, West and Pacific <sup>3</sup> .....	509,587	453,644	503,495
West Central <sup>4</sup> .....	733,573	707,967	700,925
Region	Cake and meal stocks		
	January 2022	December 2022	January 2023
	(tons)	(tons)	(tons)
Illinois .....	59,751	71,576	(D)
Iowa.....	43,976	50,682	52,375
North and East <sup>1</sup> .....	126,846	127,540	134,717
North Central <sup>2</sup> .....	60,049	62,261	56,960
South, West and Pacific <sup>3</sup> .....	62,377	45,452	(D)
West Central <sup>4</sup> .....	43,463	58,082	49,843

(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: January 2023  
with Comparisons**

Item	January 2022	December 2022	January 2023
<b>Canola</b>			
Crush			
Seeds crushed..... tons	136,632	181,455	204,340
Crude oil produced.....1,000 pounds	113,003	145,914	165,781
Cake and meal produced..... tons	84,790	104,207	118,623
Refine			
Crude oil processed in refining.....1,000 pounds	126,895	139,234	161,778
Once refined oil produced.....1,000 pounds	123,268	134,938	157,184
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	131,627	140,154	145,076
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	35,330	42,221	50,540
Crude oil on hand end of month.....1,000 pounds	35,248	87,567	81,224
Once refined oil on hand end of month.....1,000 pounds	90,021	103,076	103,791
<b>Cottonseed</b>			
Crush			
Seeds crushed..... tons	137,324	116,905	135,468
Crude oil produced.....1,000 pounds	36,453	32,247	35,898
Cake and meal produced..... tons	60,587	48,103	59,707
Refine			
Crude oil processed in refining.....1,000 pounds	40,408	27,617	37,978
Once refined oil produced.....1,000 pounds	39,382	27,030	37,157
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	44,859	30,730	34,839
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	23,122	31,286	28,677
Crude oil on hand end of month.....1,000 pounds	(D)	(D)	(D)
Once refined oil on hand end of month.....1,000 pounds	22,857	31,793	34,245
<b>Coconut</b>			
Refine			
Crude oil processed in refining.....1,000 pounds	36,914	40,036	40,834
Once refined oil produced.....1,000 pounds	36,427	39,570	40,360
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	48,797	46,645	46,168
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	86,095	98,919	72,845
Once refined oil on hand end of month.....1,000 pounds	(D)	(D)	(D)
<b>Corn</b>			
Crush			
Crude oil produced.....1,000 pounds	146,806	163,919	154,142
Refine			
Crude oil processed in refining.....1,000 pounds	172,862	156,617	158,642
Once refined oil produced.....1,000 pounds	168,977	153,120	154,792
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	159,360	154,265	147,841
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	110,025	86,610	101,530
Once refined oil on hand end of month.....1,000 pounds	73,261	85,652	86,326

See footnote(s) at end of table.

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

Item	January 2022	December 2022	January 2023
<b>Palm kernel</b>			
Consumption			
Once refined oil removed for use in processing..... 1,000 pounds	44,723	31,589	26,809
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	60,479	62,653	52,523
<b>Palm</b>			
Consumption			
Once refined oil removed for use in processing..... 1,000 pounds	205,267	193,229	203,156
Removed for edible use in processing ..... 1,000 pounds	200,799	182,989	198,635
Removed for inedible use in processing..... 1,000 pounds	(D)	10,240	4,521
Stocks			
Once refined oil on hand end of month..... 1,000 pounds	303,780	377,887	342,694
<b>Peanut</b>			
Refine			
Crude oil processed in refining..... 1,000 pounds	(D)	28,168	30,266
Once refined oil produced..... 1,000 pounds	(D)	26,670	28,210
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	22,484	23,513	26,923
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	20,404	25,313	26,396
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	(D)	4,020	5,459
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	9,916	7,108	8,850
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	34,546	30,984	33,406
Once refined oil produced..... 1,000 pounds	32,894	29,869	32,289
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	29,420	29,082	39,089
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)	46,632	54,865
Once refined oil on hand end of month..... 1,000 pounds	22,343	48,473	39,217
<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)

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

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

Item	January 2022 (1,000 pounds)	December 2022 (1,000 pounds)	January 2023 (1,000 pounds)
<b>Choice white grease</b>			
Production.....	109,463	110,981	114,827
Removed for inedible use.....	107,287	111,094	113,703
Stocks on hand end of month.....	8,491	6,654	7,814
<b>Feather meal</b>			
Production.....	78,553	90,640	86,474
Stocks on hand end of month.....	15,504	18,350	18,220
<b>Lard</b>			
Production.....	22,136	23,116	18,686
Removed for use in processing.....	18,631	22,625	19,345
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	8,484	5,546	4,888
<b>Meat meal, meat and bone meal, and dry rendered tankage</b>			
Production.....	410,218	490,739	472,751
Stocks on hand end of month.....	76,777	63,339	66,159
<b>Other grease</b>			
Production.....	34,904	35,372	29,071
Removed for inedible use in processing.....	33,243	31,121	31,135
Stocks on hand end of month.....	(D)	(D)	(D)
<b>Poultry fats</b>			
Production.....	146,836	173,886	167,162
Removed for inedible use in processing.....	144,465	168,077	173,614
Stocks on hand end of month.....	32,060	31,900	25,493
<b>Poultry by-product meals</b>			
Production.....	269,761	351,019	337,712
Stocks on hand end of month.....	98,265	85,524	69,358
<b>Tallow, edible</b>			
Production.....	70,584	77,324	84,426
Removed for use in processing.....	69,867	81,357	84,209
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	24,681	(D)	28,106
<b>Tallow, inedible</b>			
Production.....	263,339	356,800	351,568
Removed for inedible use in processing.....	268,832	356,072	355,798
Stocks on hand end of month.....	(D)	119,997	115,768
<b>Tallow, technical</b>			
Production.....	92,765	99,627	106,980
Removed for inedible use in processing.....	90,349	97,983	104,517
Stocks on hand end of month.....	(D)	(D)	(D)
<b>Yellow grease</b>			
Production.....	158,784	176,986	183,984
Removed for inedible use in processing.....	173,722	181,668	185,965
Stocks on hand end of month.....	76,057	98,977	96,996

(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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Michelle Harder – Barley, County Estimates, Hay .....	(202) 690-8533
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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](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).

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