



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

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## Highlights

**September 2022** contained 30 days.

**October 2022** contained 31 days.

**Soybeans crushed** for crude oil was 5.90 million tons (197 million bushels) in October 2022, compared with 5.03 million tons (168 million bushels) in September 2022 and 5.91 million tons (197 million bushels) in October 2021. Crude oil produced was 2.34 billion pounds up 17 percent from September 2022 but down less than 1 percent from October 2021. Soybean once refined oil production at 1.79 billion pounds during October 2022 increased 8 percent from September 2022 and increased 3 percent from October 2021.

**Canola seeds crushed** for crude oil was 205,778 tons in October 2022, compared with 189,285 tons in September 2022 and 196,646 tons in October 2021. Canola crude oil produced was 169 million pounds, up 14 percent from September 2022 and up 8 percent from October 2021. Canola once refined oil production, at 161 million pounds during October 2022, was up 3 percent from September 2022 and up 9 percent from October 2021.

**Cottonseed once refined** oil production, at 36.6 million pounds during October 2022, down 3 percent from October 2021.

**Edible tallow** production was 81.1 million pounds during October 2022, down 10 percent from September 2022 but up 5 percent from October 2021. Inedible tallow production was 372 million pounds during October 2022, up 5 percent from September 2022 and up 9 percent from October 2021. Technical tallow production was 113 million pounds during October 2022, up 10 percent from September 2022 but down 13 percent from October 2021. Choice white grease production, at 110 million pounds during October 2022, increased 3 percent from September 2022 and increased 7 percent from October 2021.

## Soybean Crushing, Production, Consumption and Stocks – United States: October 2022 with Comparisons

Item	October 2021	September 2022	October 2022
<b>Crush</b>			
Soybeans crushed..... tons	5,908,157	5,028,287	5,899,694
Crude oil produced.....1,000 pounds	2,347,580	1,992,964	2,338,085
Cake and meal produced..... tons	4,284,256	3,666,107	4,325,878
For animal feed..... tons	4,231,399	3,620,872	4,287,358
For edible protein products..... tons	52,857	45,235	38,520
Millfeed produced..... tons	307,383	258,932	277,518
<b>Refine</b>			
Crude oil processed in refining.....1,000 pounds	1,772,253	1,701,254	1,830,172
Once refined oil produced.....1,000 pounds	1,731,222	1,658,467	1,787,999
<b>Consumption</b>			
Crude oil removed for inedible use in processing.....1,000 pounds	142,927	164,392	176,752
Once refined oil removed for use in processing.....1,000 pounds	1,686,717	1,671,169	1,736,104
Removed for edible use in processing.....1,000 pounds	1,274,866	1,213,668	1,243,629
Removed for inedible use in processing.....1,000 pounds	411,851	457,501	492,475
<b>Stocks</b>			
Cake and meal on hand end of month..... tons	363,969	276,973	352,206
Millfeed on hand end of month..... tons	47,512	33,954	26,008
Crude oil on hand end of month.....1,000 pounds	1,960,220	1,590,053	1,640,326
Crusher.....1,000 pounds	957,162	747,228	825,227
Refiner.....1,000 pounds	292,912	268,633	245,915
Offsite.....1,000 pounds	710,146	574,192	569,184
Once refined oil on hand end of month.....1,000 pounds	426,117	401,095	453,449

## Soybean Crushing – Regional: October 2022 with Comparisons

Region	Soybeans crushed		
	October 2021	September 2022	October 2022
	(tons)	(tons)	(tons)
Illinois .....	674,438	450,904	684,071
Iowa.....	1,215,324	1,121,016	1,213,824
North and East <sup>1</sup> .....	1,373,563	1,184,202	1,344,275
North Central <sup>2</sup> .....	979,305	902,879	996,060
South, West and Pacific <sup>3</sup> .....	697,651	636,007	681,372
West Central <sup>4</sup> .....	967,876	733,279	980,092
Region	Crude oil produced		
	October 2021	September 2022	October 2022
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois .....	268,201	175,570	275,511
Iowa.....	482,830	446,591	482,562
North and East <sup>1</sup> .....	540,676	467,892	520,536
North Central <sup>2</sup> .....	379,028	347,749	386,494
South, West and Pacific <sup>3</sup> .....	274,183	240,616	264,720
West Central <sup>4</sup> .....	402,662	314,546	408,262
Region	Crude oil stocks at crusher		
	October 2021	September 2022	October 2022
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois .....	127,805	70,180	(D)
Iowa.....	138,813	156,472	154,044
North and East <sup>1</sup> .....	296,888	125,113	134,813
North Central <sup>2</sup> .....	186,333	205,582	207,068
South, West and Pacific <sup>3</sup> .....	70,057	55,370	(D)
West Central <sup>4</sup> .....	137,266	134,511	149,295
Region	Cake and meal produced		
	October 2021	September 2022	October 2022
	(tons)	(tons)	(tons)
Illinois .....	482,269	319,087	490,974
Iowa.....	889,103	825,656	901,752
North and East <sup>1</sup> .....	997,216	865,132	981,993
North Central <sup>2</sup> .....	718,124	674,000	734,825
South, West and Pacific <sup>3</sup> .....	496,628	449,121	495,268
West Central <sup>4</sup> .....	700,916	533,111	721,066
Region	Cake and meal stocks		
	October 2021	September 2022	October 2022
	(tons)	(tons)	(tons)
Illinois .....	53,908	73,658	50,909
Iowa.....	65,958	38,619	52,795
North and East <sup>1</sup> .....	84,421	62,441	99,026
North Central <sup>2</sup> .....	64,941	32,105	53,628
South, West and Pacific <sup>3</sup> .....	43,189	39,187	45,918
West Central <sup>4</sup> .....	51,552	30,963	49,930

(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: October 2022 with Comparisons**

Item	October 2021	September 2022	October 2022
<b>Canola</b>			
Crush			
Seeds crushed..... tons	196,646	189,285	205,778
Crude oil produced.....1,000 pounds	156,615	148,457	169,040
Cake and meal produced..... tons	115,606	106,555	119,754
Refine			
Crude oil processed in refining.....1,000 pounds	152,406	161,809	166,045
Once refined oil produced.....1,000 pounds	147,962	156,674	160,914
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	157,944	152,356	163,766
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	44,073	42,442	51,110
Crude oil on hand end of month.....1,000 pounds	51,296	61,082	58,809
Once refined oil on hand end of month.....1,000 pounds	81,986	108,468	115,376
<b>Cottonseed</b>			
Crush			
Seeds crushed..... tons	110,594	(D)	104,616
Crude oil produced.....1,000 pounds	30,632	(D)	25,988
Cake and meal produced..... tons	49,627	(D)	46,410
Refine			
Crude oil processed in refining.....1,000 pounds	38,665	(D)	37,698
Once refined oil produced.....1,000 pounds	37,586	(D)	36,566
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	34,064	34,079	32,188
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	38,529	22,316	35,190
Crude oil on hand end of month.....1,000 pounds	(D)	(D)	(D)
Once refined oil on hand end of month.....1,000 pounds	19,552	23,698	31,032
<b>Coconut</b>			
Refine			
Crude oil processed in refining.....1,000 pounds	(D)	43,015	36,385
Once refined oil produced.....1,000 pounds	(D)	42,353	35,551
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	66,738	53,868	49,257
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	61,650	91,128	80,211
Once refined oil on hand end of month.....1,000 pounds	(D)	(D)	(D)
<b>Corn</b>			
Crush			
Crude oil produced.....1,000 pounds	160,213	141,157	146,592
Refine			
Crude oil processed in refining.....1,000 pounds	(D)	160,593	146,101
Once refined oil produced.....1,000 pounds	(D)	155,894	140,980
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)	144,868	118,267
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	103,050	78,989	90,279
Once refined oil on hand end of month.....1,000 pounds	69,560	69,284	76,966

See footnote(s) at end of table.

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

Item	October 2021	September 2022	October 2022
<b>Palm kernel</b>			
Consumption			
Once refined oil removed for use in processing..... 1,000 pounds	39,833	40,789	42,072
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	53,623	43,553	50,989
<b>Palm</b>			
Consumption			
Once refined oil removed for use in processing..... 1,000 pounds	229,434	229,008	230,592
Removed for edible use in processing ..... 1,000 pounds	223,904	222,144	224,490
Removed for inedible use in processing..... 1,000 pounds	5,530	6,864	6,102
Stocks			
Once refined oil on hand end of month..... 1,000 pounds	303,227	353,147	396,212
<b>Peanut</b>			
Refine			
Crude oil processed in refining..... 1,000 pounds	37,457	31,871	20,225
Once refined oil produced..... 1,000 pounds	36,089	30,068	19,134
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	34,554	25,689	18,967
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	16,860	30,061	31,716
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	6,177	(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)	4,160	(D)
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	47,900	32,257	42,763
Once refined oil produced..... 1,000 pounds	45,695	31,992	41,595
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	38,260	28,923	34,713
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	37,154	(D)	(D)
Once refined oil on hand end of month..... 1,000 pounds	23,757	36,772	40,384
<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: October 2022 with Comparisons

Item	October 2021	September 2022	October 2022
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
<b>Choice white grease</b>			
Production.....	103,514	107,242	110,292
Removed for inedible use .....	104,062	108,779	108,966
Stocks on hand end of month.....	6,701	5,828	7,153
<b>Feather meal</b>			
Production.....	84,174	100,523	95,676
Stocks on hand end of month.....	18,194	19,845	18,252
<b>Lard</b>			
Production.....	25,739	23,174	25,939
Removed for use in processing .....	28,156	25,478	22,578
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	5,836	6,522	7,110
<b>Meat meal, meat and bone meal, and dry rendered tannage</b>			
Production.....	480,665	493,846	492,810
Stocks on hand end of month.....	94,276	76,001	63,721
<b>Other grease</b>			
Production.....	50,831	37,643	30,543
Removed for inedible use in processing.....	43,495	26,959	30,966
Stocks on hand end of month.....	(D)	(D)	(D)
<b>Poultry fats</b>			
Production.....	174,260	187,018	181,860
Removed for inedible use in processing .....	175,329	189,937	176,677
Stocks on hand end of month.....	36,401	24,957	30,140
<b>Poultry by-product meals</b>			
Production.....	281,337	359,934	355,678
Stocks on hand end of month.....	111,313	81,057	69,964
<b>Tallow, edible</b>			
Production.....	77,433	90,220	81,113
Removed for use in processing .....	81,142	83,444	81,596
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	18,371	(D)	(D)
<b>Tallow, inedible</b>			
Production.....	342,024	353,930	372,310
Removed for inedible use in processing .....	331,404	359,980	390,188
Stocks on hand end of month.....	(D)	115,022	97,144
<b>Tallow, technical</b>			
Production.....	129,384	103,219	113,204
Removed for inedible use in processing .....	130,416	102,241	114,555
Stocks on hand end of month.....	(D)	(D)	(D)
<b>Yellow grease</b>			
Production.....	189,877	201,319	190,515
Removed for inedible use in processing .....	178,050	196,547	188,523
Stocks on hand end of month.....	132,511	96,934	98,926

(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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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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