



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

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## Highlights

**October 2019** contained 31 days.

**November 2019** contained 30 days.

**Soybeans crushed** for crude oil was 5.24 million tons (175 million bushels) in November 2019, compared with 5.61 million tons (187 million bushels) in October 2019 and 5.34 million tons (178 million bushels) in November 2018. Crude oil produced was 2.00 billion pounds down 7 percent from October 2019 and down 3 percent from November 2018. Soybean once refined oil production at 1.36 billion pounds during November 2019 decreased 13 percent from October 2019 and decreased 6 percent from November 2018.

**Canola seeds crushed** for crude oil was 152,430 tons in November 2019, compared with 188,299 tons in October 2019 and 161,507 tons in November 2018. Canola crude oil produced was 127 million pounds, down 20 percent from October 2019 and down 5 percent from November 2018. Canola once refined oil production, at 96.3 million pounds during November 2019, was down 22 percent from October 2019 and down 37 percent from November 2018.

**Cottonseed once refined** oil production, at 41.2 million pounds during November 2019, was down 3 percent from October 2019 and down 15 percent from November 2018.

**Edible tallow** production was 90.3 million pounds during November 2019, up 22 percent from October 2019 but down 2 percent from November 2018. Inedible tallow production was 341 million pounds during November 2019, up 16 percent from October 2019 but down 3 percent from November 2018. Technical tallow production was 118 million pounds during November 2019, up 15 percent from October 2019 and up 7 percent from November 2018. Choice white grease production, at 121 million pounds during November 2019, increased 6 percent from October 2019 and increased 4 percent from November 2018.

**Soybean Crushing, Production, Consumption and Stocks – United States: November 2019  
with Comparisons**

Item	November 2018	October 2019	November 2019
<b>Crush</b>			
Soybeans crushed .....	5,343,053	5,609,757	5,239,452
Crude oil produced.....	2,060,563	2,148,241	1,999,648
Cake and meal produced .....	3,889,342	4,100,967	3,855,827
For animal feed .....	3,860,368	4,052,918	3,813,221
For edible protein products.....	28,974	48,049	42,606
Millfeed produced.....	265,758	276,379	255,945
<b>Refine</b>			
Crude oil processed in refining.....	1,496,018	1,609,484	1,397,170
Once refined oil produced .....	1,456,902	1,564,672	1,362,343
<b>Consumption</b>			
Crude oil removed for inedible use in processing .....	(D)	(D)	106,331
Once refined oil removed for use in processing.....	1,549,491	1,624,061	1,400,401
Removed for edible use in processing.....	1,108,323	1,136,585	1,013,344
Removed for inedible use in processing .....	441,168	487,476	387,057
<b>Stocks</b>			
Cake and meal on hand end of month.....	294,996	335,087	426,332
Millfeed on hand end of month .....	40,459	30,176	41,081
Crude oil on hand end of month .....	1,582,363	1,471,573	1,522,923
Crusher .....	711,421	645,862	739,832
Refiner .....	(D)	412,656	392,630
Offsite .....	(D)	413,055	390,461
Once refined oil on hand end of month.....	317,910	348,861	357,435

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

## Soybean Crushing – Regional: November 2019 with Comparisons

Region	Soybeans crushed		
	November 2018	October 2019	November 2019
	(tons)	(tons)	(tons)
Illinois .....	636,227	650,019	613,808
Iowa .....	1,125,556	1,169,508	1,040,264
North and East <sup>1</sup> .....	1,233,200	1,339,397	1,227,011
North Central <sup>2</sup> .....	722,446	863,537	775,266
South, West and Pacific <sup>3</sup> .....	700,948	623,946	653,676
West Central <sup>4</sup> .....	924,676	963,350	929,427
Region	Crude oil produced		
	November 2018	October 2019	November 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois .....	247,093	255,867	234,749
Iowa .....	436,749	451,056	397,636
North and East <sup>1</sup> .....	478,068	516,049	467,445
North Central <sup>2</sup> .....	272,744	311,889	290,754
South, West and Pacific <sup>3</sup> .....	272,838	242,801	252,658
West Central <sup>4</sup> .....	353,071	370,579	356,406
Region	Crude oil stocks at crusher		
	November 2018	October 2019	November 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois .....	(D)	99,680	117,153
Iowa .....	121,684	97,550	150,248
North and East <sup>1</sup> .....	168,147	181,614	193,446
North Central <sup>2</sup> .....	238,111	171,529	176,423
South, West and Pacific <sup>3</sup> .....	48,124	55,456	62,768
West Central <sup>4</sup> .....	(D)	40,033	39,794
Region	Cake and meal produced		
	November 2018	October 2019	November 2019
	(tons)	(tons)	(tons)
Illinois .....	450,508	466,761	447,210
Iowa .....	829,335	858,332	767,357
North and East <sup>1</sup> .....	896,323	982,999	903,978
North Central <sup>2</sup> .....	532,849	632,993	570,693
South, West and Pacific <sup>3</sup> .....	502,185	455,123	476,279
West Central <sup>4</sup> .....	678,142	704,759	690,310
Region	Cake and meal stocks		
	November 2018	October 2019	November 2019
	(tons)	(tons)	(tons)
Illinois .....	45,502	72,400	88,658
Iowa .....	44,417	36,329	62,898
North and East <sup>1</sup> .....	72,766	98,909	110,754
North Central <sup>2</sup> .....	36,917	32,419	51,934
South, West and Pacific <sup>3</sup> .....	57,368	47,497	70,733
West Central <sup>4</sup> .....	38,026	47,533	41,355

(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: November 2019  
with Comparisons**

Item	November 2018	October 2019	November 2019
<b>Canola</b>			
Crush			
Seeds crushed..... tons	161,507	188,299	152,430
Crude oil produced..... 1,000 pounds	133,969	157,494	126,680
Cake and meal produced..... tons	92,915	104,798	85,255
Refine			
Crude oil processed in refining..... 1,000 pounds	157,653	126,656	99,526
Once refined oil produced..... 1,000 pounds	153,103	122,814	96,258
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	151,342	164,830	159,520
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)	(D)	(D)
Crude oil on hand end of month..... 1,000 pounds	96,080	49,977	39,937
Once refined oil on hand end of month..... 1,000 pounds	70,748	96,591	101,435
<b>Cottonseed</b>			
Crush			
Seeds crushed..... tons	159,198	145,485	166,802
Crude oil produced..... 1,000 pounds	44,709	39,876	46,501
Cake and meal produced..... tons	65,713	67,942	83,584
Refine			
Crude oil processed in refining..... 1,000 pounds	50,636	44,145	42,460
Once refined oil produced..... 1,000 pounds	48,800	42,663	41,245
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	50,049	44,235	36,762
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	45,379	36,310	37,279
Crude oil on hand end of month..... 1,000 pounds	(D)	10,242	(D)
Once refined oil on hand end of month..... 1,000 pounds	29,348	22,131	28,744
<b>Coconut</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	50,227	69,706	75,105
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)	(D)	(D)
Once refined oil on hand end of month..... 1,000 pounds	56,497	104,223	160,168
<b>Corn</b>			
Crush			
Crude oil produced..... 1,000 pounds	176,126	141,999	184,240
Refine			
Crude oil processed in refining..... 1,000 pounds	172,339	(D)	165,650
Once refined oil produced..... 1,000 pounds	167,529	(D)	160,858
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	164,172	(D)	166,129
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	38,523	25,942	29,096
Once refined oil on hand end of month..... 1,000 pounds	55,829	(D)	35,207

See footnote(s) at end of table.

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**Selected Oilseed Crushing, Production, Consumption and Stocks – United States: November 2019  
with Comparisons (continued)**

Item	November 2018	October 2019	November 2019
<b>Palm kernel</b>			
Consumption			
Once refined oil removed for use in processing.....1,000 pounds	29,190	26,320	18,990
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	58,539	73,522	69,665
<b>Palm</b>			
Consumption			
Once refined oil removed for use in processing.....1,000 pounds	198,483	227,307	187,136
Removed for edible use in processing .....1,000 pounds	194,303	221,623	181,093
Removed for inedible use in processing.....1,000 pounds	4,180	5,684	6,043
Stocks			
Once refined oil on hand end of month .....1,000 pounds	313,595	349,001	349,978
<b>Peanut</b>			
Refine			
Crude oil processed in refining.....1,000 pounds	28,476	(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)	41,023	29,409
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)	13,690	10,489
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)	6,119	5,239
Once refined oil produced.....1,000 pounds	(D)	6,119	5,161
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)	6,186	5,919
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	9,647	5,831	6,680
Once refined oil on hand end of month .....1,000 pounds	3,338	2,549	2,391
<b>Sunflower</b>			
Refine			
Crude oil processed in refining.....1,000 pounds	38,680	33,850	60,201
Once refined oil produced.....1,000 pounds	36,868	32,512	56,939
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)	34,865	40,678
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	66,057	25,571	27,089
Once refined oil on hand end of month .....1,000 pounds	55,261	17,693	22,107
<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: November 2019 with Comparisons

Item	November 2018 (1,000 pounds)	October 2019 (1,000 pounds)	November 2019 (1,000 pounds)
<b>Choice white grease</b>			
Production.....	116,736	114,003	121,381
Removed for inedible use.....	114,285	114,390	119,349
Stocks on hand end of month.....	9,966	6,564	8,412
<b>Feather meal</b>			
Production.....	76,780	102,181	108,150
Stocks on hand end of month.....	22,180	28,890	31,085
<b>Lard</b>			
Production.....	34,191	26,027	35,471
Removed for use in processing.....	32,173	25,995	39,556
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	10,865	13,481	6,936
<b>Meat meal, meat and bone meal, and dry rendered tankage</b>			
Production.....	542,191	479,991	503,574
Stocks on hand end of month.....	66,986	73,653	81,020
<b>Other grease</b>			
Production.....	54,246	36,366	36,231
Removed for inedible use in processing.....	56,883	39,188	37,306
Stocks on hand end of month.....	(D)	(D)	(D)
<b>Poultry fats</b>			
Production.....	165,512	210,770	214,436
Removed for inedible use in processing.....	166,336	213,331	216,413
Stocks on hand end of month.....	19,416	26,255	24,463
<b>Poultry by-product meals</b>			
Production.....	229,713	284,748	334,447
Stocks on hand end of month.....	45,859	49,894	37,038
<b>Tallow, edible</b>			
Production.....	92,023	74,146	90,273
Removed for use in processing.....	93,774	79,461	96,824
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	29,197	19,586	10,578
<b>Tallow, inedible</b>			
Production.....	350,948	294,442	340,603
Removed for inedible use in processing.....	359,716	289,695	338,884
Stocks on hand end of month.....	101,567	103,587	105,168
<b>Tallow, technical</b>			
Production.....	110,497	102,806	118,257
Removed for inedible use in processing.....	119,316	109,745	125,901
Stocks on hand end of month.....	(D)	8,677	(D)
<b>Yellow grease</b>			
Production.....	173,023	179,761	172,082
Removed for inedible use in processing.....	181,674	171,548	188,531
Stocks on hand end of month.....	91,331	109,292	95,204

(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@nass.usda.gov](mailto:nass@nass.usda.gov).

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Jeff Lemmons – Oats, Soybeans .....	(202) 690-3234
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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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