



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

ISSN: 2379-9862

Released December 2, 2019, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, United States Department of Agriculture (USDA).

Highlights

September 2019 contained 30 days.

October 2019 contained 31 days.

Soybeans crushed for crude oil was 5.62 million tons (187 million bushels) in October 2019, compared with 4.87 million tons (162 million bushels) in September 2019 and 5.51 million tons (184 million bushels) in October 2018. Crude oil produced was 2.15 billion pounds up 13 percent from September 2019 and up 1 percent from October 2018. Soybean once refined oil production at 1.57 billion pounds during October 2019 increased 11 percent from September 2019 but decreased slightly from October 2018.

Canola seeds crushed for crude oil was 188,299 tons in October 2019, compared with 163,321 tons in September 2019 and 175,960 tons in October 2018. Canola crude oil produced was 157 million pounds, up 17 percent from September 2019 and up 8 percent from October 2018. Canola once refined oil production, at 126 million pounds during October 2019, was up 5 percent from September 2019 but down 5 percent from October 2018.

Cottonseed once refined oil production, at 42.7 million pounds during October 2019, was up 5 percent from September 2019 but down 11 percent from October 2018.

Edible tallow production was 74.1 million pounds during October 2019, up 2 percent from September 2019 but down 10 percent from October 2018. Inedible tallow production was 294 million pounds during October 2019, down 2 percent from September 2019 and down 9 percent from October 2018. Technical tallow production was 103 million pounds during October 2019, up 8 percent from September 2019 but down 7 percent from October 2018. Choice white grease production, at 114 million pounds during October 2019, increased 7 percent from September 2019 and increased 9 percent from October 2018.

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

Item	October 2018	September 2019	October 2019
Crush			
Soybeans crushed tons	5,506,753	4,870,034	5,615,616
Crude oil produced.....1,000 pounds	2,134,553	1,900,668	2,149,969
Cake and meal produced tons	4,020,038	3,553,484	4,105,453
For animal feed tons	3,988,542	3,514,472	4,057,404
For edible protein products..... tons	31,496	39,012	48,049
Millfeed produced..... tons	270,986	246,065	276,379
Refine			
Crude oil processed in refining.....1,000 pounds	1,601,041	1,448,211	1,610,868
Once refined oil produced.....1,000 pounds	1,568,355	1,412,136	1,566,003
Consumption			
Crude oil removed for inedible use in processing.....1,000 pounds	92,901	82,646	(D)
Once refined oil removed for use in processing.....1,000 pounds	1,606,335	1,493,955	1,624,992
Removed for edible use in processing.....1,000 pounds	1,170,954	1,067,450	1,137,516
Removed for inedible use in processing.....1,000 pounds	435,381	426,505	487,476
Stocks			
Cake and meal on hand end of month..... tons	399,414	360,387	335,183
Millfeed on hand end of month tons	45,457	41,628	30,176
Crude oil on hand end of month1,000 pounds	1,700,684	1,400,569	1,471,929
Crusher.....1,000 pounds	689,945	697,669	646,004
Refiner.....1,000 pounds	411,766	410,770	412,870
Offsite.....1,000 pounds	598,973	292,130	413,055
Once refined oil on hand end of month.....1,000 pounds	346,867	374,747	349,029

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

Soybean Crushing – Regional: October 2019 with Comparisons

Region	Soybeans crushed		
	October 2018	September 2019	October 2019
	(tons)	(tons)	(tons)
Illinois	622,334	525,265	650,019
Iowa.....	1,164,811	1,094,919	1,175,367
North and East ¹	1,344,400	1,226,240	1,339,397
North Central ²	749,975	749,420	863,537
South, West and Pacific ³	708,724	543,194	623,946
West Central ⁴	916,509	730,996	963,350
Region	Crude oil produced		
	October 2018	September 2019	October 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	248,248	214,278	255,867
Iowa.....	453,138	425,524	452,784
North and East ¹	524,090	477,829	516,049
North Central ²	280,929	287,618	311,889
South, West and Pacific ³	276,534	212,573	242,801
West Central ⁴	351,614	282,846	370,579
Region	Crude oil stocks at crusher		
	October 2018	September 2019	October 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	114,887	123,925	99,680
Iowa.....	127,335	101,846	97,692
North and East ¹	156,059	168,120	181,614
North Central ²	211,762	214,666	171,529
South, West and Pacific ³	42,516	48,371	55,456
West Central ⁴	37,386	40,741	40,033
Region	Cake and meal produced		
	October 2018	September 2019	October 2019
	(tons)	(tons)	(tons)
Illinois	453,914	372,228	466,761
Iowa.....	857,330	808,327	862,818
North and East ¹	978,484	891,792	982,999
North Central ²	553,097	549,555	632,993
South, West and Pacific ³	509,322	392,077	455,123
West Central ⁴	667,891	539,505	704,759
Region	Cake and meal stocks		
	October 2018	September 2019	October 2019
	(tons)	(tons)	(tons)
Illinois	111,136	69,794	72,400
Iowa.....	52,023	49,610	36,425
North and East ¹	98,129	81,633	98,909
North Central ²	42,214	49,400	32,419
South, West and Pacific ³	53,801	49,050	47,497
West Central ⁴	42,111	60,900	47,533

¹ North and East includes Indiana, Kentucky, Maryland, Ohio, Pennsylvania and Virginia.

² North Central includes Michigan, Minnesota, North Dakota and South Dakota.

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

⁴ West Central includes Kansas, Missouri and Nebraska.

**Selected Oilseed Crushing, Production, Consumption and Stocks – United States: October 2019
with Comparisons**

Item	October 2018	September 2019	October 2019
Canola			
Crush			
Seeds crushed..... tons	175,960	163,321	188,299
Crude oil produced..... 1,000 pounds	146,189	134,207	157,494
Cake and meal produced..... tons	100,529	91,758	104,798
Refine			
Crude oil processed in refining..... 1,000 pounds	136,809	124,663	126,656
Once refined oil produced..... 1,000 pounds	132,411	119,864	125,835
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	162,544	144,417	164,830
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	105,828	63,428	49,977
Once refined oil on hand end of month..... 1,000 pounds	84,793	94,502	96,591
Cottonseed			
Crush			
Seeds crushed..... tons	164,484	132,202	145,485
Crude oil produced..... 1,000 pounds	44,386	35,425	39,876
Cake and meal produced..... tons	71,169	56,536	67,942
Refine			
Crude oil processed in refining..... 1,000 pounds	49,442	42,085	44,145
Once refined oil produced..... 1,000 pounds	47,889	40,728	42,663
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	49,523	38,362	44,235
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	51,389	43,000	36,310
Crude oil on hand end of month..... 1,000 pounds	(D)	15,140	10,242
Once refined oil on hand end of month..... 1,000 pounds	29,617	19,901	22,131
Coconut			
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	62,440	73,222	69,706
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	48,984	104,741	104,223
Corn			
Crush			
Crude oil produced..... 1,000 pounds	171,942	168,245	141,999
Refine			
Crude oil processed in refining..... 1,000 pounds	153,761	171,439	(D)
Once refined oil produced..... 1,000 pounds	149,080	166,320	(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	150,564	167,055	(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	38,015	45,397	25,942
Once refined oil on hand end of month..... 1,000 pounds	55,459	36,208	(D)

See footnote(s) at end of table.

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

Item	October 2018	September 2019	October 2019
Palm kernel			
Consumption			
Once refined oil removed for use in processing.....1,000 pounds	26,608	19,961	26,320
Removed for edible use in processing1,000 pounds	(D)	(D)	(D)
Removed for inedible use in processing.....1,000 pounds	(D)	(D)	(D)
Stocks			
Once refined oil on hand end of month1,000 pounds	65,625	73,298	73,522
Palm			
Consumption			
Once refined oil removed for use in processing.....1,000 pounds	217,203	215,056	227,307
Removed for edible use in processing1,000 pounds	209,740	204,457	221,623
Removed for inedible use in processing.....1,000 pounds	7,463	10,599	5,684
Stocks			
Once refined oil on hand end of month1,000 pounds	328,661	343,574	349,001
Peanut			
Refine			
Crude oil processed in refining.....1,000 pounds	32,894	33,907	(D)
Once refined oil produced.....1,000 pounds	31,713	32,342	(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	36,675	33,278	41,023
Removed for edible use in processing1,000 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)	17,986	13,690
Once refined oil on hand end of month1,000 pounds	(D)	(D)	(D)
Safflower			
Refine			
Crude oil processed in refining.....1,000 pounds	(D)	3,029	6,119
Once refined oil produced.....1,000 pounds	(D)	3,029	6,119
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)	4,633	6,186
Removed for edible use in processing1,000 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	4,553	4,923	5,831
Once refined oil on hand end of month1,000 pounds	2,720	(D)	2,549
Sunflower			
Refine			
Crude oil processed in refining.....1,000 pounds	26,336	42,907	33,788
Once refined oil produced.....1,000 pounds	25,365	40,298	32,474
Consumption			
Crude oil removed for inedible use in processing.....1,000 pounds	(D)	(D)	3,003
Once refined oil removed for use in processing.....1,000 pounds	(D)	34,462	34,975
Removed for edible use in processing1,000 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)	19,478	25,999
Once refined oil on hand end of month1,000 pounds	28,237	22,053	17,789
Vegetable foots, raw and acidulated			
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: October 2019 with Comparisons

Item	October 2018 (1,000 pounds)	September 2019 (1,000 pounds)	October 2019 (1,000 pounds)
Choice white grease			
Production.....	104,610	106,205	114,003
Removed for inedible use.....	105,187	105,495	114,390
Stocks on hand end of month.....	7,529	7,170	6,564
Feather meal			
Production.....	76,452	99,985	102,181
Stocks on hand end of month.....	19,058	24,864	28,890
Lard			
Production.....	26,914	25,735	26,027
Removed for use in processing.....	26,512	25,484	25,995
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	9,736	16,442	13,481
Meat meal, meat and bone meal, and dry rendered tanlage			
Production.....	493,845	485,260	479,832
Stocks on hand end of month.....	73,420	65,793	73,665
Other grease			
Production.....	51,389	32,949	36,366
Removed for inedible use in processing.....	53,803	32,647	39,188
Stocks on hand end of month.....	(D)	(D)	(D)
Poultry fats			
Production.....	168,973	212,829	210,770
Removed for inedible use in processing.....	162,988	214,586	213,331
Stocks on hand end of month.....	24,406	28,511	26,255
Poultry by-product meals			
Production.....	227,915	282,934	284,748
Stocks on hand end of month.....	61,601	36,148	49,894
Tallow, edible			
Production.....	82,283	72,593	74,146
Removed for use in processing.....	83,523	78,265	79,461
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	29,967	16,960	19,586
Tallow, inedible			
Production.....	322,771	299,506	294,442
Removed for inedible use in processing.....	325,996	291,256	289,695
Stocks on hand end of month.....	110,415	97,593	103,587
Tallow, technical			
Production.....	110,521	94,926	102,806
Removed for inedible use in processing.....	119,632	104,176	109,745
Stocks on hand end of month.....	(D)	8,152	8,677
Yellow grease			
Production.....	183,059	188,992	178,941
Removed for inedible use in processing.....	191,483	182,653	170,415
Stocks on hand end of month.....	100,364	100,865	109,660

(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.

Lance Honig, Chief, Crops Branch.....	(202) 720-2127
Travis Thorson, Head, Field Crops Section.....	(202) 720-2127
David Colwell – Current Agricultural Industrial Reports	(202) 720-8800
Chris Hawthorn – Corn, Flaxseed, Proso Millet	(202) 720-9526
James Johanson – County Estimates, Hay.....	(202) 690-8533
Jeff Lemmons – Oats, Soybeans	(202) 690-3234
Irwin Anolik – Crop Weather, Barley	(202) 720-7621
Sammy Neal – Peanuts, Rice.....	(202) 720-7688
Jean Porter – Rye, Wheat	(202) 720-8068
Chris Singh – Cotton, Cotton Ginnings, Sorghum	(202) 720-5944
Travis Thorson – Sunflower, Other Oilseeds	(202) 720-7369

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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 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.

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