



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

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Highlights

September 2020 contained 30 days.

October 2020 contained 31 days.

Soybeans crushed for crude oil was 5.90 million tons (197 million bushels) in October 2020, compared with 5.13 million tons (171 million bushels) in September 2020 and 5.62 million tons (187 million bushels) in October 2019. Crude oil produced was 2.28 billion pounds up 16 percent from September 2020 and up 6 percent from October 2019. Soybean once refined oil production at 1.59 billion pounds during October 2020 increased 6 percent from September 2020 and increased 1 percent from October 2019.

Canola seeds crushed for crude oil was 215,878 tons in October 2020, compared with 208,338 tons in September 2020 and 188,299 tons in October 2019. Canola crude oil produced was 179 million pounds, up 3 percent from September 2020 and up 14 percent from October 2019. Canola once refined oil production, at 154 million pounds during October 2020, was down 6 percent from September 2020 but up 26 percent from October 2019.

Cottonseed once refined oil production, at 42.5 million pounds during October 2020, was up 13 percent from September 2020 but down less than 1 percent from October 2019.

Edible tallow production was 62.8 million pounds during October 2020, down 30 percent from September 2020 and down 15 percent from October 2019. Inedible tallow production was 254 million pounds during October 2020, down 23 percent from September 2020 and down 14 percent from October 2019. Technical tallow production was 96.2 million pounds during October 2020, down 28 percent from September 2020 and down 6 percent from October 2019. Choice white grease production, at 96.6 million pounds during October 2020, decreased 9 percent from September 2020 and decreased 15 percent from October 2019.

Soybean Crushing, Production, Consumption and Stocks – United States: October 2020 with Comparisons

Item	October 2019	September 2020	October 2020
Crush			
Soybeans crushed	5,615,616	5,131,665	5,897,079
Crude oil produced.....	2,149,969	1,967,621	2,282,471
Cake and meal produced	4,105,453	3,754,168	4,335,054
For animal feed	4,057,404	3,704,259	4,289,031
For edible protein products.....	48,049	49,909	46,023
Millfeed produced.....	276,379	255,248	280,538
Refine			
Crude oil processed in refining.....	1,610,868	1,531,074	1,629,314
Once refined oil produced	1,566,003	1,496,712	1,589,296
Consumption			
Crude oil removed for inedible use in processing	(D)	134,972	113,410
Once refined oil removed for use in processing.....	1,624,992	1,564,267	1,604,862
Removed for edible use in processing.....	1,137,516	1,126,090	1,180,758
Removed for inedible use in processing	487,476	438,177	424,104
Stocks			
Cake and meal on hand end of month.....	335,183	312,944	342,914
Millfeed on hand end of month	30,176	28,392	31,285
Crude oil on hand end of month	1,471,929	1,503,344	1,564,319
Crusher	646,004	600,806	689,025
Refiner	412,870	328,136	288,339
Offsite	413,055	574,402	586,955
Once refined oil on hand end of month.....	349,029	345,186	399,547

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

Soybean Crushing – Regional: October 2020 with Comparisons

Region	Soybeans crushed		
	October 2019	September 2020	October 2020
	(tons)	(tons)	(tons)
Illinois	650,019	596,321	701,837
Iowa	1,175,367	1,129,883	1,179,232
North and East ¹	1,339,397	1,197,052	1,353,433
North Central ²	863,537	785,032	945,362
South, West and Pacific ³	623,946	582,097	736,784
West Central ⁴	963,350	841,280	980,431
Region	Crude oil produced		
	October 2019	September 2020	October 2020
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	255,867	234,411	273,528
Iowa	452,784	435,255	465,886
North and East ¹	516,049	459,483	518,764
North Central ²	311,889	288,812	357,605
South, West and Pacific ³	242,801	225,880	287,805
West Central ⁴	370,579	323,780	378,883
Region	Crude oil stocks at crusher		
	October 2019	September 2020	October 2020
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	99,680	70,521	85,740
Iowa	97,692	98,426	118,238
North and East ¹	181,614	128,751	155,644
North Central ²	171,529	145,079	167,485
South, West and Pacific ³	55,456	57,438	50,435
West Central ⁴	40,033	100,591	111,483
Region	Cake and meal produced		
	October 2019	September 2020	October 2020
	(tons)	(tons)	(tons)
Illinois	466,761	428,802	508,750
Iowa	862,818	827,995	865,397
North and East ¹	982,999	873,751	988,468
North Central ²	632,993	581,941	706,839
South, West and Pacific ³	455,123	424,571	539,615
West Central ⁴	704,759	617,108	725,985
Region	Cake and meal stocks		
	October 2019	September 2020	October 2020
	(tons)	(tons)	(tons)
Illinois	72,400	(D)	67,835
Iowa	36,425	30,215	57,555
North and East ¹	98,909	91,693	70,234
North Central ²	32,419	57,606	56,982
South, West and Pacific ³	47,497	20,300	(D)
West Central ⁴	47,533	(D)	(D)

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

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 2020
with Comparisons**

Item	October 2019	September 2020	October 2020
Canola			
Crush			
Seeds crushed..... tons	188,299	208,338	215,878
Crude oil produced..... 1,000 pounds	157,494	174,436	179,038
Cake and meal produced..... tons	104,798	121,434	123,169
Refine			
Crude oil processed in refining..... 1,000 pounds	126,656	169,510	159,030
Once refined oil produced..... 1,000 pounds	122,814	163,924	154,477
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	164,830	174,345	172,382
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)	42,075	33,734
Crude oil on hand end of month..... 1,000 pounds	49,977	39,855	57,142
Once refined oil on hand end of month..... 1,000 pounds	96,591	92,021	93,198
Cottonseed			
Crush			
Seeds crushed..... tons	145,485	148,955	141,299
Crude oil produced..... 1,000 pounds	39,876	37,705	40,744
Cake and meal produced..... tons	67,942	61,105	64,119
Refine			
Crude oil processed in refining..... 1,000 pounds	44,145	38,576	43,771
Once refined oil produced..... 1,000 pounds	42,663	37,592	42,457
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	44,235	39,531	46,724
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	36,310	24,872	24,069
Crude oil on hand end of month..... 1,000 pounds	10,242	(D)	(D)
Once refined oil on hand end of month..... 1,000 pounds	22,131	28,538	26,305
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	69,706	62,021	61,348
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)	60,283	58,796
Once refined oil on hand end of month..... 1,000 pounds	104,223	(D)	70,298
Corn			
Crush			
Crude oil produced..... 1,000 pounds	141,999	158,100	167,262
Refine			
Crude oil processed in refining..... 1,000 pounds	(S)	162,083	159,689
Once refined oil produced..... 1,000 pounds	(S)	156,064	154,065
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	(S)	143,522	129,659
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	25,942	48,703	51,473
Once refined oil on hand end of month..... 1,000 pounds	(S)	53,292	52,677

See footnote(s) at end of table.

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Selected Oilseed Crushing, Production, Consumption and Stocks – United States: October 2020 with Comparisons (continued)

Item	October 2019	September 2020	October 2020
Palm kernel			
Consumption			
Once refined oil removed for use in processing.....1,000 pounds	26,320	45,952	62,643
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	73,522	72,289	96,637
Palm			
Consumption			
Once refined oil removed for use in processing.....1,000 pounds	227,307	237,079	257,716
Removed for edible use in processing1,000 pounds	221,623	231,220	245,336
Removed for inedible use in processing.....1,000 pounds	5,684	5,859	12,380
Stocks			
Once refined oil on hand end of month1,000 pounds	349,001	377,582	334,787
Peanut			
Refine			
Crude oil processed in refining.....1,000 pounds	(D)	26,279	39,415
Once refined oil produced.....1,000 pounds	(D)	24,096	37,975
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	41,023	22,711	35,875
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	13,690	24,993	7,440
Once refined oil on hand end of month1,000 pounds	(D)	(D)	(D)
Safflower			
Refine			
Crude oil processed in refining.....1,000 pounds	6,119	3,472	4,454
Once refined oil produced.....1,000 pounds	6,119	3,401	4,363
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	6,186	4,895	3,904
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	5,831	3,409	5,887
Once refined oil on hand end of month1,000 pounds	2,549	(D)	(D)
Sunflower			
Refine			
Crude oil processed in refining.....1,000 pounds	33,850	36,337	56,477
Once refined oil produced.....1,000 pounds	32,512	36,124	55,623
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	34,865	32,377	37,165
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	25,571	33,829	33,468
Once refined oil on hand end of month1,000 pounds	17,693	14,133	19,194
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)

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

(S) Insufficient number of reports to establish an estimate.

**Animal Fats and Oils Production, Consumption and Stocks – United States: October 2020
with Comparisons**

Item	October 2019 (1,000 pounds)	September 2020 (1,000 pounds)	October 2020 (1,000 pounds)
Choice white grease			
Production.....	114,003	105,618	96,576
Removed for inedible use.....	114,390	106,395	94,307
Stocks on hand end of month.....	6,564	9,317	11,586
Feather meal			
Production.....	102,181	108,896	99,801
Stocks on hand end of month.....	28,890	26,915	26,098
Lard			
Production.....	26,027	24,641	24,052
Removed for use in processing.....	25,995	28,742	21,459
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	13,481	6,644	(D)
Meat meal, meat and bone meal, and dry rendered tankage			
Production.....	479,991	501,547	410,785
Stocks on hand end of month.....	73,653	68,587	68,549
Other grease			
Production.....	36,366	41,658	35,938
Removed for inedible use in processing.....	39,188	43,021	38,357
Stocks on hand end of month.....	(D)	(D)	(D)
Poultry fats			
Production.....	210,770	237,473	209,067
Removed for inedible use in processing.....	213,331	238,683	212,259
Stocks on hand end of month.....	26,255	34,166	30,974
Poultry by-product meals			
Production.....	284,748	316,491	281,576
Stocks on hand end of month.....	49,894	46,057	43,748
Tallow, edible			
Production.....	74,146	90,142	62,801
Removed for use in processing.....	79,461	92,794	63,866
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	19,586	(D)	(D)
Tallow, inedible			
Production.....	294,442	328,260	254,285
Removed for inedible use in processing.....	289,695	330,149	250,299
Stocks on hand end of month.....	103,587	93,602	97,587
Tallow, technical			
Production.....	102,806	132,756	96,225
Removed for inedible use in processing.....	109,745	135,434	94,454
Stocks on hand end of month.....	8,677	(D)	(D)
Yellow grease			
Production.....	179,761	186,640	177,213
Removed for inedible use in processing.....	171,548	183,228	190,813
Stocks on hand end of month.....	109,292	93,843	80,062

(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

Lance Honig, Chief, Crops Branch.....	(202) 720-2127
Chris Hawthorn, Head, Field Crops Section.....	(202) 720-2127
Irwin Anolik – Crop Weather	(202) 720-7621
Joshua Bates – Oats, Soybeans	(202) 690-3234
David Colwell – Current Agricultural Industrial Reports.....	(202) 720-8800
Becky Sommer – Cotton, Cotton Ginnings, Sorghum.....	(202) 720-5944
James Johanson – Barley, County Estimates, Hay	(202) 690-8533
Greg Lemmons – Corn, Flaxseed, Proso Millet.....	(202) 720-9526
Jean Porter – Rye, Wheat.....	(202) 720-8068
John Stephens – Peanuts, Rice.....	(202) 720-7688
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 agencies 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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