



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

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Highlights

November 2018 contained 30 days.

December 2018 contained 31 days.

Soybeans crushed for crude oil was 5.51 million tons (184 million bushels) in December 2018, compared with 5.34 million tons (178 million bushels) in November 2018 and 5.29 million tons (176 million bushels) in December 2017. Crude oil produced was 2.13 billion pounds up 4 percent from November 2018 and up 6 percent from December 2017. Soybean once refined oil production at 1.45 billion pounds during December 2018 decreased slightly from November 2018 but increased 6 percent from December 2017.

Canola seeds crushed for crude oil was 156,703 tons in December 2018, compared with 161,507 tons in November 2018 and 172,013 tons in December 2017. Canola crude oil produced was 134 million pounds, up slightly from November 2018 but down 9 percent from December 2017. Canola once refined oil production, at 127 million pounds during December 2018, was down 17 percent from November 2018 but up 7 percent from December 2017.

Cottonseed once refined oil production, at 44.2 million pounds during December 2018, was down 10 percent from November 2018 and down 19 percent from December 2017.

Edible tallow production was 72.0 million pounds during December 2018, down 22 percent from November 2018 and down 8 percent from December 2017. Inedible tallow production was 338 million pounds during December 2018, down 4 percent from November 2018 but up 4 percent from December 2017. Technical tallow production was 110 million pounds during December 2018, down 1 percent from November 2018 but up 14 percent from December 2017. Choice white grease production, at 118 million pounds during December 2018, increased 1 percent from November 2018 and increased 14 percent from December 2017.

Soybean Crushing, Production, Consumption and Stocks – United States: December 2018 with Comparisons

Item	December 2017	November 2018	December 2018
Crush			
Soybeans crushed	5,290,215	5,343,053	5,507,266
Crude oil produced.....	2,015,256	2,060,563	2,133,570
Cake and meal produced	3,904,161	3,889,342	4,011,947
For animal feed	3,854,973	3,860,368	3,966,637
For edible protein products.....	49,188	28,974	45,310
Millfeed produced.....	268,856	265,758	279,141
Refine			
Crude oil processed in refining.....	1,405,035	1,496,018	1,477,626
Once refined oil produced	1,371,822	1,456,902	1,449,648
Consumption			
Crude oil removed for inedible use in processing	75,616	(D)	118,940
Once refined oil removed for use in processing.....	1,303,540	1,549,491	1,521,117
Removed for edible use in processing.....	986,593	1,108,323	1,056,659
Removed for inedible use in processing	316,947	441,168	464,458
Stocks			
Cake and meal on hand end of month.....	506,203	294,996	394,334
Millfeed on hand end of month	48,679	40,459	40,662
Crude oil on hand end of month	1,583,544	1,582,363	1,601,384
Crusher	775,431	711,421	712,074
Refiner	336,582	(D)	419,351
Offsite	471,531	(D)	469,959
Once refined oil on hand end of month.....	367,130	317,910	343,942

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

Soybean Crushing – Regional: December 2018 with Comparisons

Region	Soybeans crushed		
	December 2017	November 2018	December 2018
	(tons)	(tons)	(tons)
Illinois	638,819	636,227	675,141
Iowa	1,108,108	1,125,556	1,173,436
North and East ¹	1,227,815	1,233,200	1,279,947
North Central ²	675,602	722,446	755,401
South, West and Pacific ³	717,027	700,948	668,333
West Central ⁴	922,844	924,676	955,008

Region	Crude oil produced		
	December 2017	November 2018	December 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	249,755	247,093	272,127
Iowa	423,928	436,749	454,623
North and East ¹	457,012	478,068	496,433
North Central ²	256,770	272,744	285,743
South, West and Pacific ³	271,303	272,838	260,729
West Central ⁴	356,488	353,071	363,915

Region	Crude oil stocks at crusher		
	December 2017	November 2018	December 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	106,505	(D)	(D)
Iowa	130,202	121,684	130,032
North and East ¹	209,925	168,147	188,844
North Central ²	199,152	238,111	219,994
South, West and Pacific ³	78,050	48,124	43,640
West Central ⁴	51,597	(D)	(D)

Region	Cake and meal produced		
	December 2017	November 2018	December 2018
	(tons)	(tons)	(tons)
Illinois	465,246	450,508	483,119
Iowa	824,164	829,335	859,305
North and East ¹	890,477	896,323	932,675
North Central ²	516,719	532,849	556,485
South, West and Pacific ³	523,477	502,185	479,883
West Central ⁴	684,078	678,142	700,480

Region	Cake and meal stocks		
	December 2017	November 2018	December 2018
	(tons)	(tons)	(tons)
Illinois	94,845	45,502	64,375
Iowa	87,050	44,417	55,033
North and East ¹	136,304	72,766	77,385
North Central ²	39,521	36,917	57,894
South, West and Pacific ³	86,169	57,368	74,585
West Central ⁴	62,314	38,026	65,062

(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: December 2018
with Comparisons**

Item	December 2017	November 2018	December 2018
Canola			
Crush			
Seeds crushed..... tons	172,013	161,507	156,703
Crude oil produced..... 1,000 pounds	147,697	133,969	134,385
Cake and meal produced..... tons	95,613	92,915	90,257
Refine			
Crude oil processed in refining..... 1,000 pounds	122,898	157,653	130,359
Once refined oil produced..... 1,000 pounds	119,336	153,103	127,271
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	144,051	151,342	145,845
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	63,175	(D)	(D)
Crude oil on hand end of month..... 1,000 pounds	158,512	96,080	107,716
Once refined oil on hand end of month..... 1,000 pounds	94,774	70,748	100,815
Cottonseed			
Crush			
Seeds crushed..... tons	172,655	159,198	164,636
Crude oil produced..... 1,000 pounds	50,621	44,709	40,867
Cake and meal produced..... tons	78,349	65,713	72,579
Refine			
Crude oil processed in refining..... 1,000 pounds	56,650	50,636	45,709
Once refined oil produced..... 1,000 pounds	54,747	48,800	44,162
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	54,325	50,049	45,266
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	15,132	45,379	39,731
Crude oil on hand end of month..... 1,000 pounds	(D)	(D)	(D)
Once refined oil on hand end of month..... 1,000 pounds	53,755	29,348	31,421
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	58,543	50,227	84,858
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	29,694	56,497	68,507
Corn			
Crush			
Crude oil produced..... 1,000 pounds	195,754	176,126	182,557
Refine			
Crude oil processed in refining..... 1,000 pounds	189,687	172,339	202,940
Once refined oil produced..... 1,000 pounds	185,674	167,529	197,573
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	168,720	164,172	182,586
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	84,479	38,523	27,799
Once refined oil on hand end of month..... 1,000 pounds	81,078	55,829	69,825

See footnote(s) at end of table.

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**Selected Oilseed Crushing, Production, Consumption and Stocks – United States: December 2018
with Comparisons (continued)**

Item	December 2017	November 2018	December 2018
Palm kernel			
Consumption			
Once refined oil removed for use in processing.....1,000 pounds	37,984	29,190	18,815
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	109,878	58,539	61,586
Palm			
Consumption			
Once refined oil removed for use in processing.....1,000 pounds	180,234	198,483	200,727
Removed for edible use in processing1,000 pounds	177,390	194,303	190,060
Removed for inedible use in processing.....1,000 pounds	2,844	4,180	10,667
Stocks			
Once refined oil on hand end of month1,000 pounds	396,006	313,595	316,297
Peanut			
Refine			
Crude oil processed in refining.....1,000 pounds	26,483	28,476	(D)
Once refined oil produced.....1,000 pounds	24,440	(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	23,353	(D)	(D)
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)	(D)	39,352
Once refined oil on hand end of month1,000 pounds	(D)	(D)	(D)
Safflower			
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)
Once refined oil removed for use in processing.....1,000 pounds	(D)	(D)	(D)
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)	9,647	12,655
Once refined oil on hand end of month1,000 pounds	(D)	3,338	1,524
Sunflower			
Refine			
Crude oil processed in refining.....1,000 pounds	32,359	38,680	42,336
Once refined oil produced.....1,000 pounds	30,920	36,868	39,581
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	39,259	(D)	(D)
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	78,798	66,057	45,122
Once refined oil on hand end of month1,000 pounds	42,244	55,261	31,984
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: December 2018
with Comparisons**

Item	December 2017 (1,000 pounds)	November 2018 (1,000 pounds)	December 2018 (1,000 pounds)
Choice white grease			
Production.....	103,689	116,736	118,323
Removed for inedible use.....	103,260	114,285	117,817
Stocks on hand end of month.....	8,523	9,966	10,529
Feather meal			
Production.....	96,508	76,780	69,438
Stocks on hand end of month.....	22,949	22,180	21,893
Lard			
Production.....	31,311	34,191	31,050
Removed for use in processing.....	30,294	32,173	28,745
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	6,759	10,865	10,806
Meat meal, meat and bone meal, and dry rendered tanlage			
Production.....	553,544	542,191	532,759
Stocks on hand end of month.....	61,593	66,986	69,606
Other grease			
Production.....	49,905	54,246	48,139
Removed for inedible use in processing.....	49,471	56,883	45,147
Stocks on hand end of month.....	(D)	(D)	(D)
Poultry fats			
Production.....	211,023	165,512	152,166
Removed for inedible use in processing.....	210,268	166,336	144,051
Stocks on hand end of month.....	23,846	19,416	23,351
Poultry by-product meals			
Production.....	276,941	229,713	217,282
Stocks on hand end of month.....	74,203	45,859	59,352
Tallow, edible			
Production.....	78,212	92,023	71,996
Removed for use in processing.....	75,325	93,774	73,631
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	22,743	29,197	32,114
Tallow, inedible			
Production.....	324,103	350,948	338,310
Removed for inedible use in processing.....	321,224	359,716	333,417
Stocks on hand end of month.....	96,158	101,567	106,492
Tallow, technical			
Production.....	96,129	110,497	109,646
Removed for inedible use in processing.....	101,712	119,316	115,666
Stocks on hand end of month.....	10,295	(D)	(D)
Yellow grease			
Production.....	182,972	171,139	181,798
Removed for inedible use in processing.....	185,585	179,768	179,625
Stocks on hand end of month.....	86,307	91,331	93,240

(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
Jannety Mosley – 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@nass.usda.gov.

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