



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

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Highlights

October 2017 contained 31 days.

November 2017 contained 30 days.

Soybeans crushed for crude oil was 5.20 million tons (173 million bushels) in November 2017, compared to 5.28 million tons (176 million bushels) in October 2017 and 5.12 million tons (171 million bushels) in November 2016. Crude oil produced was 1.98 billion pounds down 2 percent from October 2017 but up 1 percent from November 2016. Soybean once refined oil production at 1.46 billion pounds during November 2017 decreased 9 percent from October 2017 but increased 1 percent from November 2016.

Canola seeds crushed for crude oil was 151 thousand tons in November 2017, compared to 184 thousand tons in October 2017 and 209 thousand tons in November 2016. Canola crude oil produced was 130 million pounds down 17 percent from October 2017 and down 27 percent from November 2016. Canola once refined oil production at 127 million pounds during November 2017 was down 13 percent from October 2017 and down 22 percent from November 2016. Cottonseed once refined oil production at 45.5 million pounds during November 2017 was down 15 percent from October 2017 and down 7 percent from November 2016.

Edible tallow production was 91.4 million pounds during November 2017, up 25 percent from October 2017 and up 12 percent from November 2016. Inedible tallow production was 322 million pounds during November 2017, up 18 percent from October 2017 and up 2 percent from November 2016. Technical tallow production was 120 million pounds during November 2017, up 16 percent from October 2017 but down 5 percent from November 2016. Choice white grease production at 117 million pounds during November 2017 increased 8 percent from October 2017 but decreased 8 percent from November 2016.

**Soybean Crushing, Production, Consumption and Stocks – United States: November 2017
with Comparisons**

Item	November 2016	October 2017	November 2017
Crush			
Soybeans crushed	5,122,038	5,277,397	5,200,462
Crude oil produced.....	1,961,256	2,016,888	1,977,005
Cake and meal produced	3,739,093	3,847,770	3,829,140
For animal feed	3,671,317	3,804,878	3,779,048
For edible protein products.....	67,776	42,892	50,092
Millfeed produced.....	273,414	276,055	272,552
Refine			
Crude oil processed in refining.....	1,471,587	1,644,069	1,482,830
Once refined oil produced	1,438,840	1,601,067	1,455,439
Consumption			
Crude oil removed for inedible use in processing	114,490	84,461	90,411
Once refined oil removed for use in processing.....	1,463,620	1,554,132	1,485,032
Removed for edible use in processing.....	1,147,517	1,211,510	1,173,519
Removed for inedible use in processing	316,103	342,622	311,513
Stocks			
Cake and meal on hand end of month.....	361,959	350,935	354,998
Millfeed on hand end of month	46,074	42,368	34,110
Crude oil on hand end of month	1,473,201	1,300,360	1,379,223
Crusher	618,320	567,670	651,572
Refiner	325,894	325,724	276,997
Offsite	528,987	406,966	450,654
Once refined oil on hand end of month.....	307,510	325,863	311,358

Soybean Crushing – Regional: November 2017 with Comparisons

Region	Soybeans crushed		
	November 2016	October 2017	November 2017
	(tons)	(tons)	(tons)
Illinois	653,259	606,907	621,917
Iowa.....	1,097,446	1,118,269	1,110,239
North and East ¹	1,177,106	1,249,228	1,185,186
North Central ²	647,631	687,033	667,253
South, West and Pacific ³	666,907	696,124	707,525
West Central ⁴	879,689	919,836	908,342
Region	Crude oil produced		
	November 2016	October 2017	November 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	255,081	238,937	240,877
Iowa.....	415,128	428,144	425,604
North and East ¹	453,481	473,778	445,371
North Central ²	247,553	257,619	250,328
South, West and Pacific ³	256,795	268,347	268,217
West Central ⁴	333,218	350,063	346,608
Region	Crude oil stocks at crusher		
	November 2016	October 2017	November 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	126,853	76,958	84,535
Iowa.....	99,653	86,277	90,213
North and East ¹	136,874	155,710	203,449
North Central ²	159,576	162,498	166,333
South, West and Pacific ³	59,390	61,170	64,557
West Central ⁴	35,974	25,057	42,485
Region	Cake and meal produced		
	November 2016	October 2017	November 2017
	(tons)	(tons)	(tons)
Illinois	475,789	437,819	452,066
Iowa.....	800,539	816,027	828,782
North and East ¹	854,893	915,499	865,530
North Central ²	480,770	505,026	499,021
South, West and Pacific ³	484,419	502,119	513,025
West Central ⁴	642,683	671,280	670,716
Region	Cake and meal stocks		
	November 2016	October 2017	November 2017
	(tons)	(tons)	(tons)
Illinois	(D)	51,227	55,418
Iowa.....	59,388	51,108	53,873
North and East ¹	96,250	114,752	110,529
North Central ²	(D)	33,417	17,772
South, West and Pacific ³	50,394	61,400	74,789
West Central ⁴	42,431	39,031	42,617

(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: November 2017
with Comparisons**

Item	November 2016	October 2017	November 2017
Canola			
Crush			
Seeds crushed..... tons	209,432	184,463	151,301
Crude oil produced..... 1,000 pounds	178,189	155,984	129,766
Cake and meal produced..... tons	117,056	102,579	84,801
Refine			
Crude oil processed in refining..... 1,000 pounds	167,222	149,511	129,749
Once refined oil produced..... 1,000 pounds	161,950	146,037	126,549
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	160,326	162,986	155,300
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	239,673	166,734	179,148
Once refined oil on hand end of month..... 1,000 pounds	66,466	88,706	81,801
Cottonseed			
Crush			
Seeds crushed..... tons	163,909	158,687	174,179
Crude oil produced..... 1,000 pounds	51,141	47,196	52,356
Cake and meal produced..... tons	75,937	70,892	76,810
Refine			
Crude oil processed in refining..... 1,000 pounds	50,007	55,356	46,813
Once refined oil produced..... 1,000 pounds	48,776	53,329	45,544
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	48,018	45,295	44,463
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	34,469	23,459	22,798
Crude oil on hand end of month..... 1,000 pounds	(D)	(D)	(D)
Once refined oil on hand end of month..... 1,000 pounds	48,432	56,158	54,426
Coconut			
Refine			
Crude oil processed in refining..... 1,000 pounds	35,731	(D)	(D)
Once refined oil produced..... 1,000 pounds	35,490	(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	72,686	54,664	77,995
Removed for edible use in processing..... 1,000 pounds	33,875	(D)	(D)
Removed for inedible use in processing..... 1,000 pounds	38,811	(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	63,029	44,985	45,999
Corn			
Crush			
Crude oil produced..... 1,000 pounds	(S)	180,160	199,226
Refine			
Crude oil processed in refining..... 1,000 pounds	(S)	186,230	174,361
Once refined oil produced..... 1,000 pounds	(S)	181,677	169,295
Consumption			
Crude oil removed for inedible use in processing..... 1,000 pounds	(S)	(D)	(D)
Once refined oil removed for use in processing..... 1,000 pounds	(S)	172,319	180,875
Removed for edible use in processing..... 1,000 pounds	(S)	(D)	(D)
Removed for inedible use in processing..... 1,000 pounds	(S)	(D)	(D)
Stocks			
Crude oil on hand end of month..... 1,000 pounds	(S)	53,944	77,259
Once refined oil on hand end of month..... 1,000 pounds	(S)	81,559	65,528

See footnote(s) at end of table.

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**Selected Oilseed Crushing, Production, Consumption and Stocks – United States: November 2017
with Comparisons (continued)**

Item	November 2016	October 2017	November 2017
Palm kernel			
Consumption			
Once refined oil removed for use in processing.....1,000 pounds	38,668	37,572	45,867
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	81,162	109,712	117,287
Palm			
Consumption			
Once refined oil removed for use in processing.....1,000 pounds	193,618	225,093	214,003
Removed for edible use in processing1,000 pounds	186,688	218,176	208,540
Removed for inedible use in processing.....1,000 pounds	6,930	6,917	5,463
Stocks			
Once refined oil on hand end of month1,000 pounds	429,757	349,978	374,322
Peanut			
Refine			
Crude oil processed in refining.....1,000 pounds	33,804	33,762	27,577
Once refined oil produced.....1,000 pounds	30,642	31,705	26,471
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	30,190	38,551	26,372
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)	(D)
Once refined oil on hand end of month1,000 pounds	(D)	(D)	(D)
Safflower			
Refine			
Crude oil processed in refining.....1,000 pounds	(NA)	(D)	(D)
Once refined oil produced.....1,000 pounds	(NA)	(D)	(D)
Consumption			
Crude oil removed for inedible use in processing.....1,000 pounds	(NA)	-	-
Once refined oil removed for use in processing.....1,000 pounds	(NA)	(D)	(D)
Removed for edible use in processing1,000 pounds	(NA)	(D)	(D)
Removed for inedible use in processing.....1,000 pounds	(NA)	(D)	(D)
Stocks			
Crude oil on hand end of month.....1,000 pounds	(NA)	(D)	(D)
Once refined oil on hand end of month1,000 pounds	(NA)	2,356	(D)
Sunflower			
Refine			
Crude oil processed in refining.....1,000 pounds	35,737	28,146	31,736
Once refined oil produced.....1,000 pounds	33,834	26,878	30,362
Consumption			
Crude oil removed for inedible use in processing.....1,000 pounds	2,210	(D)	(D)
Once refined oil removed for use in processing.....1,000 pounds	40,705	38,604	37,440
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	48,929	69,020	62,871
Once refined oil on hand end of month1,000 pounds	48,215	46,116	55,691
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.

(NA) Not available.

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

**Animal Fats and Oils Production, Consumption and Stocks – United States: November 2017
with Comparisons**

Item	November 2016 (1,000 pounds)	October 2017 (1,000 pounds)	November 2017 (1,000 pounds)
Choice white grease			
Production.....	127,696	108,646	116,982
Removed for inedible use.....	128,052	109,969	116,986
Stocks on hand end of month.....	13,656	8,098	8,185
Feather meal			
Production.....	103,760	92,530	98,186
Stocks on hand end of month.....	22,997	21,167	21,257
Lard			
Production.....	35,670	29,183	32,938
Removed for use in processing.....	37,204	28,295	32,278
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	7,661	4,751	5,231
Meat meal, meat and bone meal, and dry rendered tankage			
Production.....	548,073	506,187	560,752
Stocks on hand end of month.....	62,871	66,583	67,079
Other grease			
Production.....	85,048	71,183	69,326
Removed for inedible use in processing.....	77,543	72,468	71,590
Stocks on hand end of month.....	(D)	(D)	(D)
Poultry fats			
Production.....	207,194	196,936	205,767
Removed for inedible use in processing.....	204,038	196,231	205,961
Stocks on hand end of month.....	26,540	23,783	23,034
Poultry by-product meals			
Production.....	254,462	260,441	269,809
Stocks on hand end of month.....	64,465	66,166	64,981
Tallow, edible			
Production.....	81,756	73,081	91,393
Removed for use in processing.....	85,476	69,225	100,557
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	15,792	28,275	19,957
Tallow, inedible			
Production.....	316,296	273,846	322,450
Removed for inedible use in processing.....	316,000	266,655	323,268
Stocks on hand end of month.....	85,897	95,775	95,278
Tallow, technical			
Production.....	125,974	103,590	120,147
Removed for inedible use in processing.....	130,307	108,185	125,991
Stocks on hand end of month.....	14,608	(D)	(D)
Yellow grease			
Production.....	161,550	162,770	158,677
Removed for inedible use in processing.....	156,209	162,292	150,324
Stocks on hand end of month.....	87,201	84,449	92,957

(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 Environmental, Economics, and Demographics Branch of the National Agricultural Statistics Service to contact for additional information. E-mail inquiries may be sent to nass@nass.usda.gov.

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Doug Farmer – Vegetable Chemical Use	(202) 720-7492
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