



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

ISSN: 2379-9862

Released February 1, 2018, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, United States Department of Agriculture (USDA).

Highlights

November 2017 contained 30 days.

December 2017 contained 31 days.

Soybeans crushed for crude oil was 5.29 million tons (176 million bushels) in December 2017, compared to 5.20 million tons (173 million bushels) in November 2017 and 5.07 million tons (169 million bushels) in December 2016. Crude oil produced was 2.02 billion pounds up 2 percent from November 2017 and up 3 percent from December 2016. Soybean once refined oil production at 1.42 billion pounds during December 2017 decreased 3 percent from November 2017 but increased 1 percent from December 2016.

Canola seeds crushed for crude oil was 174 thousand tons in December 2017, compared to 151 thousand tons in November 2017 and 179 thousand tons in December 2016. Canola crude oil produced was 150 million pounds up 16 percent from November 2017 and up slightly from December 2016. Canola once refined oil production at 116 million pounds during December 2017 was down 8 percent from November 2017 and down 1 percent from December 2016. Cottonseed once refined oil production at 54.7 million pounds during December 2017 was up 20 percent from November 2017 and up 6 percent from December 2016.

Edible tallow production was 78.2 million pounds during December 2017, down 14 percent from November 2017 but up 3 percent from December 2016. Inedible tallow production was 324 million pounds during December 2017, up 1 percent from November 2017 and up 3 percent from December 2016. Technical tallow production was 96.1 million pounds during December 2017, down 20 percent from November 2017 and down 4 percent from December 2016. Choice white grease production at 104 million pounds during December 2017 decreased 11 percent from November 2017 and decreased 15 percent from December 2016.

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

Item	December 2016	November 2017	December 2017
Crush			
Soybeans crushed..... tons	5,071,493	5,200,462	5,292,673
Crude oil produced.....1,000 pounds	1,950,176	1,977,005	2,017,218
Cake and meal produced..... tons	3,690,668	3,829,140	3,900,126
For animal feed..... tons	3,628,323	3,779,048	3,849,160
For edible protein products..... tons	62,345	50,092	50,966
Millfeed produced..... tons	273,479	272,552	268,494
Refine			
Crude oil processed in refining.....1,000 pounds	1,440,556	1,482,830	1,452,312
Once refined oil produced.....1,000 pounds	1,406,505	1,455,439	1,418,239
Consumption			
Crude oil removed for inedible use in processing.....1,000 pounds	120,200	(D)	75,738
Once refined oil removed for use in processing.....1,000 pounds	1,376,935	1,485,032	1,315,306
Removed for edible use in processing.....1,000 pounds	1,083,997	1,173,519	992,730
Removed for inedible use in processing.....1,000 pounds	292,938	311,513	322,576
Stocks			
Cake and meal on hand end of month..... tons	403,901	354,998	497,783
Millfeed on hand end of month..... tons	42,509	34,110	48,837
Crude oil on hand end of month.....1,000 pounds	1,505,351	1,379,223	1,588,286
Crusher.....1,000 pounds	632,124	651,572	776,417
Refiner.....1,000 pounds	303,620	276,997	340,338
Offsite.....1,000 pounds	569,607	450,654	471,531
Once refined oil on hand end of month.....1,000 pounds	366,919	311,358	355,149

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

Soybean Crushing – Regional: December 2017 with Comparisons

Region	Soybeans crushed		
	December 2016	November 2017	December 2017
	(tons)	(tons)	(tons)
Illinois	641,988	621,917	638,819
Iowa.....	1,090,185	1,110,239	1,114,536
North and East ¹	1,102,200	1,185,186	1,227,815
North Central ²	690,151	667,253	671,632
South, West and Pacific ³	660,057	707,525	717,027
West Central ⁴	886,912	908,342	922,844
Region	Crude oil produced		
	December 2016	November 2017	December 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	252,510	240,877	249,755
Iowa.....	414,879	425,604	426,177
North and East ¹	428,512	445,371	457,012
North Central ²	260,797	250,328	256,483
South, West and Pacific ³	255,052	268,217	271,303
West Central ⁴	338,426	346,608	356,488
Region	Crude oil stocks at crusher		
	December 2016	November 2017	December 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	118,626	84,535	106,505
Iowa.....	122,691	90,213	132,749
North and East ¹	117,929	203,449	209,925
North Central ²	147,289	166,333	197,591
South, West and Pacific ³	82,320	(D)	78,050
West Central ⁴	43,269	(D)	51,597
Region	Cake and meal produced		
	December 2016	November 2017	December 2017
	(tons)	(tons)	(tons)
Illinois	462,693	452,066	465,246
Iowa.....	795,276	828,782	828,683
North and East ¹	803,907	865,530	890,477
North Central ²	500,821	499,021	508,165
South, West and Pacific ³	478,293	513,025	523,477
West Central ⁴	649,678	670,716	684,078
Region	Cake and meal stocks		
	December 2016	November 2017	December 2017
	(tons)	(tons)	(tons)
Illinois	94,385	55,418	94,845
Iowa.....	69,580	53,873	90,446
North and East ¹	79,529	110,529	136,304
North Central ²	38,060	17,772	27,705
South, West and Pacific ³	65,333	74,789	86,169
West Central ⁴	57,014	42,617	62,314

(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 2017
with Comparisons**

Item	December 2016	November 2017	December 2017
Canola			
Crush			
Seeds crushed..... tons	178,637	151,301	173,525
Crude oil produced..... 1,000 pounds	149,916	129,766	150,263
Cake and meal produced..... tons	103,139	84,801	97,069
Refine			
Crude oil processed in refining..... 1,000 pounds	120,438	129,749	119,040
Once refined oil produced..... 1,000 pounds	117,307	126,549	115,972
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	138,866	155,300	138,378
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)	62,865
Crude oil on hand end of month..... 1,000 pounds	237,622	179,148	158,539
Once refined oil on hand end of month..... 1,000 pounds	68,912	81,801	90,766
Cottonseed			
Crush			
Seeds crushed..... tons	167,631	174,179	172,655
Crude oil produced..... 1,000 pounds	50,386	52,356	50,621
Cake and meal produced..... tons	76,853	76,810	78,349
Refine			
Crude oil processed in refining..... 1,000 pounds	53,081	46,813	56,650
Once refined oil produced..... 1,000 pounds	51,498	45,544	54,747
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	53,464	44,463	54,325
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	33,198	22,798	15,132
Crude oil on hand end of month..... 1,000 pounds	(D)	(D)	(D)
Once refined oil on hand end of month..... 1,000 pounds	48,385	54,426	53,755
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	73,352	77,995	58,543
Removed for edible use in processing..... 1,000 pounds	33,019	(D)	(D)
Removed for inedible use in processing..... 1,000 pounds	40,333	(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	61,063	45,999	29,694
Corn			
Crush			
Crude oil produced..... 1,000 pounds	(S)	199,226	195,754
Refine			
Crude oil processed in refining..... 1,000 pounds	(S)	174,361	189,687
Once refined oil produced..... 1,000 pounds	(S)	169,295	185,674
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)	180,875	168,720
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)	77,259	84,479
Once refined oil on hand end of month..... 1,000 pounds	(S)	65,528	81,078

See footnote(s) at end of table.

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

Item	December 2016	November 2017	December 2017
Palm kernel			
Consumption			
Once refined oil removed for use in processing.....1,000 pounds	34,970	45,867	37,984
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	76,215	117,287	109,878
Palm			
Consumption			
Once refined oil removed for use in processing.....1,000 pounds	165,297	214,003	180,234
Removed for edible use in processing1,000 pounds	159,763	208,540	177,390
Removed for inedible use in processing.....1,000 pounds	5,534	5,463	2,844
Stocks			
Once refined oil on hand end of month1,000 pounds	437,231	374,322	396,006
Peanut			
Refine			
Crude oil processed in refining.....1,000 pounds	(D)	27,577	26,483
Once refined oil produced.....1,000 pounds	(D)	26,471	24,440
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)	26,372	23,353
Removed for edible use in processing1,000 pounds	(D)	(D)	(D)
Removed for inedible use in processing.....1,000 pounds	-	(D)	(D)
Stocks			
Crude oil on hand end of month.....1,000 pounds	14,416	(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)	(D)	(D)
Sunflower			
Refine			
Crude oil processed in refining.....1,000 pounds	25,574	31,151	32,359
Once refined oil produced.....1,000 pounds	24,059	29,773	30,920
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	32,692	(D)	39,259
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	56,593	62,834	78,798
Once refined oil on hand end of month1,000 pounds	41,338	55,842	42,244
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: December 2017 with Comparisons

Item	December 2016 (1,000 pounds)	November 2017 (1,000 pounds)	December 2017 (1,000 pounds)
Choice white grease			
Production.....	121,400	116,982	103,689
Removed for inedible use.....	124,399	116,986	103,260
Stocks on hand end of month.....	10,463	8,185	8,523
Feather meal			
Production.....	96,485	98,186	96,508
Stocks on hand end of month.....	17,039	21,257	22,949
Lard			
Production.....	41,586	32,938	31,311
Removed for use in processing.....	42,776	32,278	30,294
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	(D)	5,231	6,759
Meat meal, meat and bone meal, and dry rendered tankage			
Production.....	540,870	560,590	553,544
Stocks on hand end of month.....	60,233	65,880	61,593
Other grease			
Production.....	70,213	69,326	49,905
Removed for inedible use in processing.....	72,635	71,590	49,284
Stocks on hand end of month.....	(D)	(D)	(D)
Poultry fats			
Production.....	198,816	205,767	211,023
Removed for inedible use in processing.....	204,487	205,961	210,268
Stocks on hand end of month.....	20,637	23,034	23,846
Poultry by-product meals			
Production.....	257,030	269,747	276,941
Stocks on hand end of month.....	49,846	64,981	74,203
Tallow, edible			
Production.....	75,621	91,393	78,212
Removed for use in processing.....	75,240	100,557	75,325
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	23,394	19,957	22,743
Tallow, inedible			
Production.....	314,080	322,136	324,103
Removed for inedible use in processing.....	309,464	322,849	321,398
Stocks on hand end of month.....	89,800	94,977	96,158
Tallow, technical			
Production.....	99,891	120,147	96,129
Removed for inedible use in processing.....	108,418	125,991	101,712
Stocks on hand end of month.....	17,540	(D)	10,295
Yellow grease			
Production.....	169,013	159,461	182,972
Removed for inedible use in processing.....	181,148	153,392	185,594
Stocks on hand end of month.....	76,163	89,581	86,307

(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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Virginia Harris – Census of Agriculture.....	(502) 582-5293
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