



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

ISSN: 2379-9862

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Released January 3, 2017, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, United States Department of Agriculture (USDA).

## Highlights

**October 2016** contained 31 days.

**November 2016** contained 30 days.

**Soybeans crushed** for crude oil was 5.12 million tons (171 million bushels) in November 2016, compared to 5.28 million tons (176 million bushels) in October 2016 and 4.97 million tons (166 million bushels) in November 2015. Crude oil produced was 1.96 billion pounds down 3 percent from October 2016 but up 3 percent from November 2015. Soybean once refined oil production at 1.44 billion pounds during November 2016 decreased 6 percent from October 2016 but increased 1 percent from November 2015.

**Canola seeds crushed** for crude oil was 209 thousand tons in November 2016, compared to 213 thousand tons in October 2016 and 129 thousand tons in November 2015. Canola crude oil produced was 178 million pounds up 1 percent from October 2016 and up 65 percent from November 2015. Canola once refined oil production at 164 million pounds during November 2016 was down 2 percent from October 2016 but up 67 percent from November 2015. Cottonseed once refined oil production at 47.0 million pounds during November 2016 was down 6 percent from October 2016 and down 5 percent from November 2015.

**Edible tallow** production was 78.5 million pounds during November 2016, up 17 percent from October 2016 but down 6 percent from November 2015. Inedible tallow production was 304 million pounds during November 2016, up 7 percent from October 2016 but down slightly from November 2015. Technical tallow production was 125 million pounds during November 2016, up 13 percent from October 2016 and up 19 percent from November 2015. Choice white grease production at 129 million pounds during November 2016 increased 11 percent from October 2016 and increased 10 percent from November 2015.

## Soybean Crushing, Production, Consumption and Stocks – United States: November 2016 with Comparisons

Item	November 2015	October 2016	November 2016
<b>Crush</b>			
Soybeans crushed .....	4,973,534	5,276,415	5,122,038
Crude oil produced.....	1,901,853	2,028,518	1,961,256
Cake and meal produced .....	3,655,750	3,830,125	3,739,093
For animal feed .....	3,600,752	3,767,699	3,671,317
For edible protein products.....	54,998	62,426	67,776
Millfeed produced.....	251,965	273,917	273,414
<b>Refine</b>			
Crude oil processed in refining.....	1,461,965	1,580,814	1,475,575
Once refined oil produced .....	1,433,449	1,542,749	1,443,073
<b>Consumption</b>			
Crude oil removed for inedible use in processing .....	90,941	(D)	114,490
Once refined oil removed for use in processing.....	1,390,793	1,579,541	1,443,731
Removed for edible use in processing.....	1,121,110	1,238,448	1,128,907
Removed for inedible use in processing.....	269,683	341,093	314,824
<b>Stocks</b>			
Cake and meal on hand end of month.....	342,962	335,413	361,959
Millfeed on hand end of month .....	38,826	42,212	46,074
Crude oil on hand end of month .....	1,545,181	1,437,483	1,448,653
Crusher .....	750,725	592,330	618,320
Refiner .....	267,049	317,449	301,346
Offsite .....	527,407	527,704	528,987
Once refined oil on hand end of month.....	420,677	357,828	328,726

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

## Soybean Crushing – Regional: November 2016 with Comparisons

Region	Soybeans crushed		
	November 2015	October 2016	November 2016
	(tons)	(tons)	(tons)
Illinois .....	580,134	635,958	653,259
Iowa .....	1,117,349	1,135,222	1,097,446
North and East <sup>1</sup> .....	1,186,723	1,260,422	1,177,106
North Central <sup>2</sup> .....	675,509	712,934	647,631
South, West and Pacific <sup>3</sup> .....	653,803	653,604	666,907
West Central <sup>4</sup> .....	760,016	878,275	879,689
Region	Crude oil produced		
	November 2015	October 2016	November 2016
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois .....	224,717	251,934	255,081
Iowa .....	424,938	432,983	415,128
North and East <sup>1</sup> .....	449,049	487,728	453,481
North Central <sup>2</sup> .....	261,263	269,439	247,553
South, West and Pacific <sup>3</sup> .....	251,126	252,391	256,795
West Central <sup>4</sup> .....	290,760	334,043	333,218
Region	Crude oil stocks at crusher		
	November 2015	October 2016	November 2016
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois .....	87,395	99,942	126,853
Iowa .....	134,659	98,398	99,653
North and East <sup>1</sup> .....	203,856	123,690	136,874
North Central <sup>2</sup> .....	204,776	177,382	159,576
South, West and Pacific <sup>3</sup> .....	62,928	48,539	59,390
West Central <sup>4</sup> .....	57,111	44,379	35,974
Region	Cake and meal produced		
	November 2015	October 2016	November 2016
	(tons)	(tons)	(tons)
Illinois .....	418,043	459,827	475,789
Iowa .....	835,465	826,937	800,539
North and East <sup>1</sup> .....	870,005	914,440	854,893
North Central <sup>2</sup> .....	497,698	524,593	480,770
South, West and Pacific <sup>3</sup> .....	472,620	471,436	484,419
West Central <sup>4</sup> .....	561,919	632,892	642,683
Region	Cake and meal stocks		
	November 2015	October 2016	November 2016
	(tons)	(tons)	(tons)
Illinois .....	79,993	69,516	(D)
Iowa .....	64,965	68,084	59,388
North and East <sup>1</sup> .....	65,415	62,601	96,250
North Central <sup>2</sup> .....	23,946	35,370	(D)
South, West and Pacific <sup>3</sup> .....	65,399	51,815	50,394
West Central <sup>4</sup> .....	43,244	48,027	42,431

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

<sup>1</sup> North and East includes Indiana, Kentucky, Maryland, Ohio, Pennsylvania and Virginia.

<sup>2</sup> North Central includes Michigan, Minnesota, North Dakota and South Dakota.

<sup>3</sup> South, West, and Pacific includes Alabama, Arkansas, California, Georgia, Louisiana, North Carolina and South Carolina.

<sup>4</sup> West Central includes Kansas, Missouri and Nebraska.

**Selected Oilseed Crushing, Production, Consumption and Stocks – United States: November 2016  
with Comparisons**

Item	November 2015	October 2016	November 2016
<b>Canola</b>			
Crush			
Seeds crushed..... tons	128,925	213,230	209,432
Crude oil produced..... 1,000 pounds	108,222	177,076	178,189
Cake and meal produced..... tons	71,958	121,184	117,056
Refine			
Crude oil processed in refining..... 1,000 pounds	99,481	171,639	169,205
Once refined oil produced..... 1,000 pounds	98,094	166,881	163,910
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	91,462	170,979	160,103
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	(D)	(D)	(D)
Once refined oil on hand end of month..... 1,000 pounds	55,944	52,157	66,486
<b>Cottonseed</b>			
Crush			
Seeds crushed..... tons	135,714	141,590	163,909
Crude oil produced..... 1,000 pounds	41,950	42,003	51,141
Cake and meal produced..... tons	61,007	63,853	75,937
Refine			
Crude oil processed in refining..... 1,000 pounds	50,854	54,637	48,182
Once refined oil produced..... 1,000 pounds	49,486	49,851	46,999
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	44,338	39,122	48,090
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	43,407	29,753	34,469
Crude oil on hand end of month..... 1,000 pounds	(D)	(D)	(D)
Once refined oil on hand end of month..... 1,000 pounds	47,772	47,611	48,319
<b>Coconut</b>			
Refine			
Crude oil processed in refining..... 1,000 pounds	53,810	33,031	35,731
Once refined oil produced..... 1,000 pounds	52,472	32,796	35,490
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	71,061	77,971	72,686
Removed for edible use in processing..... 1,000 pounds	(D)	(D)	33,875
Removed for inedible use in processing..... 1,000 pounds	(D)	(D)	38,811
Stocks			
Crude oil on hand end of month..... 1,000 pounds	85,510	(D)	(D)
Once refined oil on hand end of month..... 1,000 pounds	30,517	60,304	63,029
<b>Corn</b>			
Refine			
Crude oil processed in refining..... 1,000 pounds	(S)	(S)	(S)
Once refined oil produced..... 1,000 pounds	(S)	(S)	(S)
Consumption			
Crude oil removed for inedible use in processing..... 1,000 pounds	(S)	(S)	(S)
Once refined oil removed for use in processing..... 1,000 pounds	(S)	(S)	(S)
Removed for edible use in processing..... 1,000 pounds	(S)	(S)	(S)
Removed for inedible use in processing..... 1,000 pounds	(S)	(S)	(S)
Stocks			
Crude oil on hand end of month..... 1,000 pounds	(S)	(S)	(S)
Once refined oil on hand end of month..... 1,000 pounds	(S)	(S)	(S)

See footnote(s) at end of table.

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**Selected Oilseed Crushing, Production, Consumption and Stocks – United States: November 2016  
with Comparisons (continued)**

Item	November 2015	October 2016	November 2016
<b>Olives</b>			
Crush			
Crushed for oil .....	(D)	(D)	(D)
Virgin oil produced .....	(D)	(D)	(D)
Refine			
Refined oil produced .....	(D)	(D)	(D)
Consumption			
Refined oil removed for use in processing .....	(D)	(D)	(D)
Removed for edible use in processing .....	(D)	(D)	(D)
Removed for inedible use in processing .....	-	(D)	(D)
Stocks			
Virgin oil on hand end of month .....	(D)	(D)	(D)
Refined oil on hand end of month .....	(D)	(D)	(D)
<b>Palm kernel</b>			
Consumption			
Once refined oil removed for use in processing .....	30,797	33,815	38,668
Removed for edible use in processing .....	(D)	(D)	(D)
Removed for inedible use in processing .....	(D)	(D)	(D)
Stocks			
Once refined oil on hand end of month .....	122,672	92,566	81,162
<b>Palm</b>			
Consumption			
Once refined oil removed for use in processing .....	175,526	199,986	193,618
Removed for edible use in processing .....	169,454	189,507	186,688
Removed for inedible use in processing .....	6,072	10,479	6,930
Stocks			
Once refined oil on hand end of month .....	422,115	397,208	429,757
<b>Peanut</b>			
Refine			
Crude oil processed in refining .....	26,563	33,797	30,776
Once refined oil produced .....	24,371	30,019	27,731
Consumption			
Crude oil removed for inedible use in processing .....	(D)	(D)	(D)
Once refined oil removed for use in processing .....	23,256	33,259	29,098
Removed for edible use in processing .....	(D)	(D)	(D)
Removed for inedible use in processing .....	(D)	(D)	(D)
Stocks			
Crude oil on hand end of month .....	(D)	(D)	(D)
Once refined oil on hand end of month .....	(D)	(D)	(D)
<b>Sunflower</b>			
Refine			
Crude oil processed in refining .....	39,719	53,829	35,737
Once refined oil produced .....	38,630	51,014	33,834
Consumption			
Crude oil removed for inedible use in processing .....	(D)	2,877	2,210
Once refined oil removed for use in processing .....	30,517	45,280	40,705
Removed for edible use in processing .....	(D)	(D)	(D)
Removed for inedible use in processing .....	(D)	(D)	(D)
Stocks			
Crude oil on hand end of month .....	68,834	49,791	48,929
Once refined oil on hand end of month .....	34,294	42,444	48,215
<b>Vegetable foots, raw and acidulated</b>			
Refine			
Oil produced .....	25,939	(D)	(D)
Consumption			
Oil removed for inedible use in processing .....	28,933	(D)	(D)
Stocks			
Oil on hand end of month .....	11,357	(D)	(D)

- Represents zero.

(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: November 2016 with Comparisons

Item	November 2015 (1,000 pounds)	October 2016 (1,000 pounds)	November 2016 (1,000 pounds)
<b>Choice white grease</b>			
Production.....	116,647	116,183	128,571
Removed for inedible use.....	117,543	115,514	128,927
Stocks on hand end of month.....	10,715	13,914	13,656
<b>Fatty acids</b>			
Production.....	(S)	(S)	(S)
Stocks on hand end of month.....	(S)	(S)	(S)
<b>Feather meal</b>			
Production.....	98,132	93,992	103,760
Stocks on hand end of month.....	19,215	23,806	22,997
<b>Glycerin, crude</b>			
Production.....	(S)	(S)	(S)
Processed in refining.....	(S)	(S)	(S)
Stocks on hand end of month.....	(S)	(S)	(S)
<b>Glycerin, refined</b>			
Production.....	(S)	(S)	(S)
Stocks on hand end of month.....	(S)	(S)	(S)
<b>Lard</b>			
Production.....	32,776	33,270	36,550
Removed for use in processing.....	32,593	33,841	38,084
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	6,334	7,255	4,480
<b>Meat meal, meat and bone meal, and dry rendered tankage</b>			
Production.....	488,082	491,455	538,166
Stocks on hand end of month.....	58,432	58,536	62,975
<b>Other grease</b>			
Production.....	56,696	78,086	86,573
Removed for inedible use in processing.....	55,378	86,208	79,068
Stocks on hand end of month.....	(D)	(D)	(D)
<b>Poultry fats</b>			
Production.....	208,092	197,480	207,194
Removed for inedible use in processing.....	204,600	196,654	204,038
Stocks on hand end of month.....	18,535	23,470	26,540
<b>Poultry by-product meals</b>			
Production.....	250,461	250,062	254,462
Stocks on hand end of month.....	50,244	64,897	64,465
<b>Tallow, edible</b>			
Production.....	83,941	67,281	78,525
Removed for use in processing.....	84,042	71,007	82,245
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	23,250	15,230	15,792
<b>Tallow, inedible</b>			
Production.....	303,999	284,782	303,808
Removed for inedible use in processing.....	303,543	287,010	303,749
Stocks on hand end of month.....	92,336	92,570	85,994
<b>Tallow, technical</b>			
Production.....	105,338	110,249	125,056
Removed for inedible use in processing.....	111,404	118,756	129,389
Stocks on hand end of month.....	14,063	12,207	14,608
<b>Yellow grease</b>			
Production.....	146,001	157,019	162,956
Removed for inedible use in processing.....	141,867	161,472	148,739
Stocks on hand end of month.....	79,475	84,076	93,179

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

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

## 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](mailto:nass@nass.usda.gov).

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