



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

ISSN: 2379-9862

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Released December 1, 2017, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, United States Department of Agriculture (USDA).

## Highlights

**September 2017** contained 30 days.

**October 2017** contained 31 days.

**Soybeans crushed** for crude oil was 5.28 million tons (176 million bushels) in October 2017, compared to 4.36 million tons (145 million bushels) in September 2017 and 5.28 million tons (176 million bushels) in October 2016. Crude oil produced was 2.02 billion pounds up 19 percent from September 2017 but down 1 percent from October 2016. Soybean once refined oil production at 1.60 billion pounds during October 2017 increased 15 percent from September 2017 and increased 4 percent from October 2016.

**Canola seeds crushed** for crude oil was 184 thousand tons in October 2017, compared to 194 thousand tons in September 2017 and 213 thousand tons in October 2016. Canola crude oil produced was 156 million pounds down 6 percent from September 2017 and down 12 percent from October 2016. Canola once refined oil production at 146 million pounds during October 2017 was down 3 percent from September 2017 and down 12 percent from October 2016. Cottonseed once refined oil production at 53.3 million pounds during October 2017 was up 39 percent from September 2017 and up 7 percent from October 2016.

**Edible tallow** production was 73.1 million pounds during October 2017, down 6 percent from September 2017 but up 9 percent from October 2016. Inedible tallow production was 274 million pounds during October 2017, down 8 percent from September 2017 and down 4 percent from October 2016. Technical tallow production was 104 million pounds during October 2017, up 21 percent from September 2017 but down 6 percent from October 2016. Choice white grease production at 109 million pounds during October 2017 increased 5 percent from September 2017 but decreased 6 percent from October 2016.

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

Item	October 2016	September 2017	October 2017
<b>Crush</b>			
Soybeans crushed .....	5,276,415	4,361,207	5,277,397
Crude oil produced.....	2,028,518	1,701,762	2,016,888
Cake and meal produced .....	3,830,125	3,188,771	3,847,770
For animal feed .....	3,767,699	3,153,899	3,804,878
For edible protein products.....	62,426	34,872	42,892
Millfeed produced.....	273,917	219,873	276,055
<b>Refine</b>			
Crude oil processed in refining.....	1,580,814	1,418,280	1,644,069
Once refined oil produced.....	1,542,749	1,389,339	1,601,067
<b>Consumption</b>			
Crude oil removed for inedible use in processing.....	(D)	63,531	84,461
Once refined oil removed for use in processing.....	1,579,541	1,377,546	1,554,132
Removed for edible use in processing.....	1,238,448	1,031,352	1,211,510
Removed for inedible use in processing.....	341,093	346,194	342,622
<b>Stocks</b>			
Cake and meal on hand end of month.....	335,413	353,758	350,935
Millfeed on hand end of month .....	42,212	46,872	42,368
Crude oil on hand end of month .....	1,437,483	1,400,918	1,300,360
Crusher.....	592,330	601,211	567,670
Refiner .....	317,449	326,150	325,724
Offsite .....	527,704	473,557	406,966
Once refined oil on hand end of month.....	357,828	310,036	325,863

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

## Soybean Crushing – Regional: October 2017 with Comparisons

Region	Soybeans crushed		
	October 2016	September 2017	October 2017
	(tons)	(tons)	(tons)
Illinois .....	635,958	518,802	606,907
Iowa.....	1,135,222	916,236	1,118,269
North and East <sup>1</sup> .....	1,260,422	1,046,125	1,249,228
North Central <sup>2</sup> .....	712,934	620,072	687,033
South, West and Pacific <sup>3</sup> .....	653,604	587,170	696,124
West Central <sup>4</sup> .....	878,275	672,802	919,836
Region	Crude oil produced		
	October 2016	September 2017	October 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois .....	251,934	210,070	238,937
Iowa.....	432,983	349,997	428,144
North and East <sup>1</sup> .....	487,728	411,374	473,778
North Central <sup>2</sup> .....	269,439	237,543	257,619
South, West and Pacific <sup>3</sup> .....	252,391	231,191	268,347
West Central <sup>4</sup> .....	334,043	261,587	350,063
Region	Crude oil stocks at crusher		
	October 2016	September 2017	October 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois .....	99,942	83,848	76,958
Iowa.....	98,398	98,407	86,277
North and East <sup>1</sup> .....	123,690	157,799	155,710
North Central <sup>2</sup> .....	177,382	171,143	162,498
South, West and Pacific <sup>3</sup> .....	48,539	60,976	61,170
West Central <sup>4</sup> .....	44,379	29,038	25,057
Region	Cake and meal produced		
	October 2016	September 2017	October 2017
	(tons)	(tons)	(tons)
Illinois .....	459,827	374,253	437,819
Iowa.....	826,937	674,201	816,027
North and East <sup>1</sup> .....	914,440	764,112	915,499
North Central <sup>2</sup> .....	524,593	458,424	505,026
South, West and Pacific <sup>3</sup> .....	471,436	423,283	502,119
West Central <sup>4</sup> .....	632,892	494,498	671,280
Region	Cake and meal stocks		
	October 2016	September 2017	October 2017
	(tons)	(tons)	(tons)
Illinois .....	69,516	46,886	51,227
Iowa.....	68,084	65,131	51,108
North and East <sup>1</sup> .....	62,601	88,543	114,752
North Central <sup>2</sup> .....	35,370	35,006	33,417
South, West and Pacific <sup>3</sup> .....	51,815	75,278	61,400
West Central <sup>4</sup> .....	48,027	42,914	39,031

<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, Mississippi, North Carolina and South Carolina.

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

**Selected Oilseed Crushing, Production, Consumption and Stocks – United States: October 2017  
with Comparisons**

Item	October 2016	September 2017	October 2017
<b>Canola</b>			
Crush			
Seeds crushed..... tons	213,230	193,523	184,463
Crude oil produced..... 1,000 pounds	177,076	165,119	155,984
Cake and meal produced..... tons	121,184	111,734	102,579
Refine			
Crude oil processed in refining..... 1,000 pounds	171,639	154,565	149,511
Once refined oil produced..... 1,000 pounds	166,881	149,992	146,037
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	170,979	176,130	162,986
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)	166,734
Once refined oil on hand end of month..... 1,000 pounds	52,157	94,807	88,706
<b>Cottonseed</b>			
Crush			
Seeds crushed..... tons	141,590	110,881	158,687
Crude oil produced..... 1,000 pounds	42,003	30,649	47,196
Cake and meal produced..... tons	63,853	42,795	70,892
Refine			
Crude oil processed in refining..... 1,000 pounds	54,637	39,936	55,356
Once refined oil produced..... 1,000 pounds	49,851	38,320	53,329
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	39,122	44,189	45,295
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	29,753	27,736	23,459
Crude oil on hand end of month..... 1,000 pounds	(D)	(D)	(D)
Once refined oil on hand end of month..... 1,000 pounds	47,611	44,129	56,158
<b>Coconut</b>			
Refine			
Crude oil processed in refining..... 1,000 pounds	33,031	(D)	(D)
Once refined oil produced..... 1,000 pounds	32,796	(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	77,971	60,287	54,664
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	60,304	51,331	44,985
<b>Corn</b>			
Crush			
Crude oil produced..... 1,000 pounds	(S)	185,243	180,160
Refine			
Crude oil processed in refining..... 1,000 pounds	(S)	174,108	186,230
Once refined oil produced..... 1,000 pounds	(S)	170,133	181,677
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)	171,382	172,319
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)	51,957	53,944
Once refined oil on hand end of month..... 1,000 pounds	(S)	75,193	81,559

See footnote(s) at end of table.

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

Item	October 2016	September 2017	October 2017
<b>Palm kernel</b>			
Consumption			
Once refined oil removed for use in processing.....1,000 pounds	33,815	39,705	37,572
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			
Once refined oil on hand end of month .....1,000 pounds	92,566	92,191	109,712
<b>Palm</b>			
Consumption			
Once refined oil removed for use in processing.....1,000 pounds	199,986	199,755	225,093
Removed for edible use in processing .....1,000 pounds	189,507	188,956	218,176
Removed for inedible use in processing.....1,000 pounds	10,479	10,799	6,917
Stocks			
Once refined oil on hand end of month .....1,000 pounds	397,208	405,931	349,978
<b>Peanut</b>			
Refine			
Crude oil processed in refining.....1,000 pounds	33,797	29,610	33,762
Once refined oil produced.....1,000 pounds	30,019	27,399	31,705
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	33,259	26,485	38,551
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)	58,173	(D)
Once refined oil on hand end of month .....1,000 pounds	(D)	(D)	(D)
<b>Safflower</b>			
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 processing .....1,000 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 month .....1,000 pounds	(NA)	942	2,356
<b>Sunflower</b>			
Refine			
Crude oil processed in refining.....1,000 pounds	53,829	33,677	28,146
Once refined oil produced.....1,000 pounds	51,014	31,843	26,878
Consumption			
Crude oil removed for inedible use in processing.....1,000 pounds	2,877	(D)	(D)
Once refined oil removed for use in processing.....1,000 pounds	45,280	(D)	38,604
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	49,791	48,911	69,020
Once refined oil on hand end of month .....1,000 pounds	42,444	41,903	46,116
<b>Vegetable foots, raw and acidulated</b>			
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: October 2017  
with Comparisons**

Item	October 2016 (1,000 pounds)	September 2017 (1,000 pounds)	October 2017 (1,000 pounds)
<b>Choice white grease</b>			
Production.....	116,183	103,468	108,646
Removed for inedible use.....	115,514	101,877	109,969
Stocks on hand end of month.....	13,914	8,872	8,098
<b>Feather meal</b>			
Production.....	93,992	97,232	92,530
Stocks on hand end of month.....	23,806	23,121	21,167
<b>Lard</b>			
Production.....	33,270	28,156	29,183
Removed for use in processing.....	33,841	28,726	28,295
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	7,255	5,401	4,751
<b>Meat meal, meat and bone meal, and dry rendered tankage</b>			
Production.....	491,455	533,264	506,187
Stocks on hand end of month.....	58,536	65,483	66,583
<b>Other grease</b>			
Production.....	78,086	69,369	71,183
Removed for inedible use in processing.....	86,208	68,324	72,468
Stocks on hand end of month.....	(D)	(D)	(D)
<b>Poultry fats</b>			
Production.....	197,480	207,914	196,936
Removed for inedible use in processing.....	196,654	208,426	196,031
Stocks on hand end of month.....	23,470	23,078	23,783
<b>Poultry by-product meals</b>			
Production.....	250,062	266,001	260,441
Stocks on hand end of month.....	64,897	64,416	66,166
<b>Tallow, edible</b>			
Production.....	67,281	77,479	73,081
Removed for use in processing.....	71,007	76,146	69,225
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	15,230	23,690	28,275
<b>Tallow, inedible</b>			
Production.....	284,782	297,599	273,846
Removed for inedible use in processing.....	287,010	292,281	266,655
Stocks on hand end of month.....	92,570	88,643	95,775
<b>Tallow, technical</b>			
Production.....	110,249	85,595	103,590
Removed for inedible use in processing.....	118,756	93,222	108,185
Stocks on hand end of month.....	12,207	(D)	(D)
<b>Yellow grease</b>			
Production.....	157,019	172,307	162,770
Removed for inedible use in processing.....	161,472	171,748	162,344
Stocks on hand end of month.....	84,076	82,432	84,449

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

Jody McDaniel, Chief, Environmental, Economics, and Demographics Branch .....	(202) 720-6146
Scott Shimmin, Head, Environmental and Demographics Section.....	(202) 720-0684
Stephanie Brennan – Census of Agriculture .....	(202) 690-0392
Natasha Bruton – Current Agricultural Industrial Reports.....	(202) 720-7644
David Colwell – Current Agricultural Industrial Reports .....	(202) 690-3226
Doug Farmer – Vegetable Chemical Use .....	(202) 720-7492
Joseph Hagedorn – Census of Agriculture.....	(202) 690-2284
Virginia Harris – Census of Agriculture.....	(502) 582-5293
Dominique Sims – Census of Agriculture .....	(202) 690-4752

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

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