



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

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## Highlights

**August 2017** contained 31 days.

**September 2017** contained 30 days.

**Soybeans crushed** for crude oil was 4.36 million tons (145 million bushels) in September 2017, compared to 4.55 million tons (152 million bushels) in August 2017 and 4.15 million tons (138 million bushels) in September 2016. Crude oil produced was 1.70 billion pounds down 3 percent from August 2017 but up 5 percent from September 2016. Soybean once refined oil production at 1.39 billion pounds during September 2017 decreased 8 percent from August 2017 but increased 2 percent from September 2016.

**Canola seeds crushed** for crude oil was 194 thousand tons in September 2017, compared to 152 thousand tons in August 2017 and 213 thousand tons in September 2016. Canola crude oil produced was 165 million pounds up 30 percent from August 2017 but down 10 percent from September 2016. Canola once refined oil production at 150 million pounds during September 2017 was up 10 percent from August 2017 but down 13 percent from September 2016. Cottonseed once refined oil production at 38.3 million pounds during September 2017 was down 24 percent from August 2017 but up 3 percent from September 2016.

**Edible tallow** production was 77.5 million pounds during September 2017, down 5 percent from August 2017 but up 13 percent from September 2016. Inedible tallow production was 298 million pounds during September 2017, down 6 percent from August 2017 and down 4 percent from September 2016. Technical tallow production was 85.6 million pounds during September 2017, down 12 percent from August 2017 and down 18 percent from September 2016. Choice white grease production at 103 million pounds during September 2017 decreased 7 percent from August 2017 and decreased 8 percent from September 2016.

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

Item	September 2016	August 2017	September 2017
<b>Crush</b>			
Soybeans crushed .....	4,148,008	4,548,592	4,361,207
Crude oil produced.....	1,616,609	1,762,207	1,701,762
Cake and meal produced .....	3,042,315	3,319,155	3,188,771
For animal feed .....	2,999,215	3,269,643	3,153,899
For edible protein products.....	43,100	49,512	34,872
Millfeed produced.....	215,143	237,324	219,873
<b>Refine</b>			
Crude oil processed in refining.....	1,397,555	1,550,365	1,418,280
Once refined oil produced .....	1,368,461	1,515,905	1,389,339
<b>Consumption</b>			
Crude oil removed for inedible use in processing .....	132,793	(D)	63,531
Once refined oil removed for use in processing.....	1,388,248	1,456,086	1,379,933
Removed for edible use in processing.....	1,101,371	1,139,388	1,033,739
Removed for inedible use in processing .....	286,877	316,698	346,194
<b>Stocks</b>			
Cake and meal on hand end of month.....	233,715	290,921	353,758
Millfeed on hand end of month .....	30,171	35,559	46,872
Crude oil on hand end of month .....	1,417,400	1,483,031	1,400,918
Crusher .....	600,477	598,197	601,211
Refiner .....	259,927	329,392	326,150
Offsite .....	556,996	555,442	473,557
Once refined oil on hand end of month.....	269,413	327,310	310,036

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

## Soybean Crushing – Regional: September 2017 with Comparisons

Region	Soybeans crushed		
	September 2016	August 2017	September 2017
	(tons)	(tons)	(tons)
Illinois .....	451,253	551,513	518,802
Iowa.....	970,697	1,004,011	916,236
North and East <sup>1</sup> .....	985,484	993,459	1,046,125
North Central <sup>2</sup> .....	592,748	599,953	620,072
South, West and Pacific <sup>3</sup> .....	495,385	613,328	587,170
West Central <sup>4</sup> .....	652,441	786,328	672,802

  

Region	Crude oil produced		
	September 2016	August 2017	September 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois .....	174,081	217,969	210,070
Iowa.....	372,202	382,373	349,997
North and East <sup>1</sup> .....	384,123	389,552	411,374
North Central <sup>2</sup> .....	239,857	230,828	237,543
South, West and Pacific <sup>3</sup> .....	190,805	239,134	231,191
West Central <sup>4</sup> .....	255,541	302,351	261,587

  

Region	Crude oil stocks at crusher		
	September 2016	August 2017	September 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois .....	77,781	116,293	83,848
Iowa.....	112,590	117,235	98,407
North and East <sup>1</sup> .....	155,045	123,299	157,799
North Central <sup>2</sup> .....	156,933	162,898	171,143
South, West and Pacific <sup>3</sup> .....	54,250	53,528	60,976
West Central <sup>4</sup> .....	43,878	24,944	29,038

  

Region	Cake and meal produced		
	September 2016	August 2017	September 2017
	(tons)	(tons)	(tons)
Illinois .....	327,487	393,068	374,253
Iowa.....	714,785	728,547	674,201
North and East <sup>1</sup> .....	721,657	732,795	764,112
North Central <sup>2</sup> .....	436,066	443,078	458,424
South, West and Pacific <sup>3</sup> .....	357,654	445,349	423,283
West Central <sup>4</sup> .....	484,666	576,318	494,498

  

Region	Cake and meal stocks		
	September 2016	August 2017	September 2017
	(tons)	(tons)	(tons)
Illinois .....	43,807	34,628	46,886
Iowa.....	48,268	54,873	65,131
North and East <sup>1</sup> .....	51,805	88,598	88,543
North Central <sup>2</sup> .....	23,354	23,636	35,006
South, West and Pacific <sup>3</sup> .....	35,939	48,451	75,278
West Central <sup>4</sup> .....	30,542	40,735	42,914

<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: September 2017  
with Comparisons**

Item	September 2016	August 2017	September 2017
<b>Canola</b>			
Crush			
Seeds crushed..... tons	213,176	151,958	193,523
Crude oil produced..... 1,000 pounds	183,019	126,810	165,119
Cake and meal produced..... tons	120,435	86,309	111,734
Refine			
Crude oil processed in refining..... 1,000 pounds	176,680	140,437	154,565
Once refined oil produced..... 1,000 pounds	173,184	136,389	149,992
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	160,876	141,797	176,130
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)	211,524	(D)
Once refined oil on hand end of month..... 1,000 pounds	52,783	71,972	94,807
<b>Cottonseed</b>			
Crush			
Seeds crushed..... tons	119,113	163,315	110,881
Crude oil produced..... 1,000 pounds	37,298	46,502	30,649
Cake and meal produced..... tons	54,805	71,275	42,795
Refine			
Crude oil processed in refining..... 1,000 pounds	38,286	52,069	39,936
Once refined oil produced..... 1,000 pounds	37,235	50,362	38,320
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	40,747	46,475	44,189
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	19,676	40,923	27,736
Crude oil on hand end of month..... 1,000 pounds	(D)	(D)	(D)
Once refined oil on hand end of month..... 1,000 pounds	41,547	46,644	44,129
<b>Coconut</b>			
Refine			
Crude oil processed in refining..... 1,000 pounds	40,421	(D)	(D)
Once refined oil produced..... 1,000 pounds	40,199	(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	83,491	53,676	60,287
Removed for edible use in processing..... 1,000 pounds	39,082	(D)	(D)
Removed for inedible use in processing..... 1,000 pounds	44,409	(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	62,791	51,207	51,331
<b>Corn</b>			
Crush			
Crude oil produced..... 1,000 pounds	(S)	208,590	185,243
Refine			
Crude oil processed in refining..... 1,000 pounds	(S)	184,280	174,108
Once refined oil produced..... 1,000 pounds	(S)	179,843	170,133
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)	174,748	171,382
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)	47,439	51,957
Once refined oil on hand end of month..... 1,000 pounds	(S)	82,941	75,193

See footnote(s) at end of table.

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

Item	September 2016	August 2017	September 2017
<b>Palm kernel</b>			
Consumption			
Once refined oil removed for use in processing.....1,000 pounds	35,833	42,601	39,705
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	94,899	105,180	92,191
<b>Palm</b>			
Consumption			
Once refined oil removed for use in processing.....1,000 pounds	188,248	195,562	199,755
Removed for edible use in processing .....1,000 pounds	178,212	186,474	188,956
Removed for inedible use in processing.....1,000 pounds	10,036	9,088	10,799
Stocks			
Once refined oil on hand end of month .....1,000 pounds	417,024	414,010	405,931
<b>Peanut</b>			
Refine			
Crude oil processed in refining.....1,000 pounds	29,473	(D)	29,610
Once refined oil produced.....1,000 pounds	25,432	(D)	27,399
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	25,739	23,084	26,485
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)	59,249	58,173
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)	3,249	(D)
Once refined oil produced.....1,000 pounds	(NA)	3,249	(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)	5,521	(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)	(D)	942
<b>Sunflower</b>			
Refine			
Crude oil processed in refining.....1,000 pounds	41,182	37,474	33,677
Once refined oil produced.....1,000 pounds	38,730	36,663	31,843
Consumption			
Crude oil removed for inedible use in processing.....1,000 pounds	232	(D)	(D)
Once refined oil removed for use in processing.....1,000 pounds	40,023	46,757	(D)
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	47,449	48,857	48,911
Once refined oil on hand end of month .....1,000 pounds	28,307	38,786	41,903
<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: September 2017  
with Comparisons**

Item	September 2016 (1,000 pounds)	August 2017 (1,000 pounds)	September 2017 (1,000 pounds)
<b>Choice white grease</b>			
Production.....	112,216	111,635	103,468
Removed for inedible use.....	110,832	112,037	101,877
Stocks on hand end of month.....	13,077	7,282	8,872
<b>Feather meal</b>			
Production.....	96,961	99,989	97,232
Stocks on hand end of month.....	18,460	18,130	23,121
<b>Lard</b>			
Production.....	30,362	29,052	28,156
Removed for use in processing.....	29,845	29,508	28,808
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	9,144	6,732	5,401
<b>Meat meal, meat and bone meal, and dry rendered tankage</b>			
Production.....	489,606	528,087	533,518
Stocks on hand end of month.....	56,741	48,220	65,473
<b>Other grease</b>			
Production.....	60,357	72,628	69,369
Removed for inedible use in processing.....	62,161	70,547	68,324
Stocks on hand end of month.....	(D)	(D)	(D)
<b>Poultry fats</b>			
Production.....	209,206	216,053	207,914
Removed for inedible use in processing.....	211,536	210,932	208,426
Stocks on hand end of month.....	22,649	28,721	23,078
<b>Poultry by-product meals</b>			
Production.....	259,234	280,460	266,001
Stocks on hand end of month.....	57,767	64,227	64,416
<b>Tallow, edible</b>			
Production.....	68,841	81,494	77,479
Removed for use in processing.....	69,200	82,950	76,146
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	17,062	20,480	23,690
<b>Tallow, inedible</b>			
Production.....	310,898	315,213	297,599
Removed for inedible use in processing.....	310,377	318,150	292,281
Stocks on hand end of month.....	84,911	84,329	88,643
<b>Tallow, technical</b>			
Production.....	103,861	97,434	85,595
Removed for inedible use in processing.....	111,198	109,974	93,222
Stocks on hand end of month.....	13,136	(D)	(D)
<b>Yellow grease</b>			
Production.....	183,125	167,897	172,553
Removed for inedible use in processing.....	178,108	179,531	171,785
Stocks on hand end of month.....	89,281	81,179	82,356

(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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