



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

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## Highlights

**February 2017** contained 28 days.

**March 2017** contained 31 days.

**Soybeans crushed** for crude oil was 4.80 million tons (160 million bushels) in March 2017, compared to 4.53 million tons (151 million bushels) in February 2017 and 4.99 million tons (166 million bushels) in March 2016. Crude oil produced was 1.86 billion pounds up 6 percent from February 2017 but down 4 percent from March 2016. Soybean once refined oil production at 1.40 billion pounds during March 2017 increased 10 percent from February 2017 but decreased slightly from March 2016.

**Canola seeds crushed** for crude oil was 185 thousand tons in March 2017, compared to 167 thousand tons in February 2017 and 150 thousand tons in March 2016. Canola crude oil produced was 156 million pounds up 12 percent from February 2017 and up 27 percent from March 2016. Canola once refined oil production at 123 million pounds during March 2017 was up 5 percent from February 2017 and up slightly from March 2016. Cottonseed once refined oil production at 49.2 million pounds during March 2017 was up 11 percent from February 2017 but down 7 percent from March 2016.

**Edible tallow** production was 79.3 million pounds during March 2017, up 10 percent from February 2017 and up 27 percent from March 2016. Inedible tallow production was 322 million pounds during March 2017, down 4 percent from February 2017 but up 12 percent from March 2016. Technical tallow production was 83 million pounds during March 2017, down 28 percent from February 2017 and down 11 percent from March 2016. Choice white grease production at 110 million pounds during March 2017 decreased 9 percent from February 2017 and decreased 2 percent from March 2016.

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

Item	March 2016	February 2017	March 2017
<b>Crush</b>			
Soybeans crushed ..... tons	4,991,626	4,530,088	4,800,052
Crude oil produced.....1,000 pounds	1,943,537	1,752,539	1,857,066
Cake and meal produced ..... tons	3,677,248	3,322,036	3,511,933
For animal feed ..... tons	3,613,239	3,265,570	3,456,784
For edible protein products..... tons	64,009	56,466	55,149
Millfeed produced..... tons	260,298	227,357	243,405
<b>Refine</b>			
Crude oil processed in refining .....1,000 pounds	1,438,379	1,310,223	1,434,990
Once refined oil produced .....1,000 pounds	1,404,133	1,270,888	1,403,609
<b>Consumption</b>			
Crude oil removed for inedible use in processing .....1,000 pounds	116,869	75,100	69,857
Once refined oil removed for use in processing.....1,000 pounds	1,404,906	1,226,949	1,356,647
Removed for edible use in processing.....1,000 pounds	1,139,437	1,027,856	1,138,799
Removed for inedible use in processing .....1,000 pounds	265,469	199,093	217,848
<b>Stocks</b>			
Cake and meal on hand end of month..... tons	302,672	362,627	300,938
Millfeed on hand end of month ..... tons	35,426	29,914	32,705
Crude oil on hand end of month .....1,000 pounds	1,956,599	1,797,556	1,939,367
Crusher .....1,000 pounds	1,013,888	858,169	904,741
Refiner .....1,000 pounds	420,583	344,075	386,001
Offsite .....1,000 pounds	522,128	595,312	648,625
Once refined oil on hand end of month.....1,000 pounds	368,327	408,338	413,988

## Soybean Crushing – Regional: March 2017 with Comparisons

Region	Soybeans crushed		
	March 2016	February 2017	March 2017
	(tons)	(tons)	(tons)
Illinois .....	607,194	570,231	640,447
Iowa.....	1,115,334	961,556	1,001,263
North and East <sup>1</sup> .....	1,114,512	1,012,452	1,041,351
North Central <sup>2</sup> .....	682,246	612,244	675,416
South, West and Pacific <sup>3</sup> .....	678,267	610,378	606,736
West Central <sup>4</sup> .....	794,073	763,227	834,839
Region	Crude oil produced		
	March 2016	February 2017	March 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois .....	243,082	225,836	254,539
Iowa.....	429,053	362,039	384,611
North and East <sup>1</sup> .....	429,941	398,011	404,064
North Central <sup>2</sup> .....	268,005	235,416	257,655
South, West and Pacific <sup>3</sup> .....	260,381	237,035	236,890
West Central <sup>4</sup> .....	313,075	294,202	319,307
Region	Crude oil stocks at crusher		
	March 2016	February 2017	March 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois .....	201,541	142,920	206,014
Iowa.....	183,787	164,941	146,726
North and East <sup>1</sup> .....	252,746	208,509	216,093
North Central <sup>2</sup> .....	267,241	222,381	242,022
South, West and Pacific <sup>3</sup> .....	55,520	76,331	63,689
West Central <sup>4</sup> .....	53,053	43,087	30,197
Region	Cake and meal produced		
	March 2016	February 2017	March 2017
	(tons)	(tons)	(tons)
Illinois .....	436,932	410,026	468,578
Iowa.....	828,610	707,377	726,821
North and East <sup>1</sup> .....	818,269	747,598	763,467
North Central <sup>2</sup> .....	506,058	456,569	498,532
South, West and Pacific <sup>3</sup> .....	498,229	442,376	441,181
West Central <sup>4</sup> .....	589,150	558,090	613,354
Region	Cake and meal stocks		
	March 2016	February 2017	March 2017
	(tons)	(tons)	(tons)
Illinois .....	43,670	96,483	55,693
Iowa.....	61,790	67,104	48,056
North and East <sup>1</sup> .....	57,727	77,987	67,010
North Central <sup>2</sup> .....	25,074	31,006	30,702
South, West and Pacific <sup>3</sup> .....	71,019	53,865	57,028
West Central <sup>4</sup> .....	43,392	36,182	42,449

<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: March 2017  
with Comparisons**

Item	March 2016	February 2017	March 2017
<b>Canola</b>			
Crush			
Seeds crushed..... tons	149,882	166,774	184,516
Crude oil produced..... 1,000 pounds	123,498	139,943	156,376
Cake and meal produced..... tons	84,758	90,511	101,917
Refine			
Crude oil processed in refining..... 1,000 pounds	125,623	120,579	125,993
Once refined oil produced..... 1,000 pounds	122,722	117,142	122,893
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	142,659	130,698	147,501
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	79,337	80,974	84,192
<b>Cottonseed</b>			
Crush			
Seeds crushed..... tons	142,679	152,859	169,880
Crude oil produced..... 1,000 pounds	45,265	47,430	51,568
Cake and meal produced..... tons	68,728	67,630	77,648
Refine			
Crude oil processed in refining..... 1,000 pounds	53,409	45,370	50,322
Once refined oil produced..... 1,000 pounds	52,772	44,285	49,168
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	55,817	41,883	39,962
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	42,423	18,465	19,782
Crude oil on hand end of month..... 1,000 pounds	(D)	(D)	(D)
Once refined oil on hand end of month..... 1,000 pounds	53,985	42,696	50,139
<b>Coconut</b>			
Refine			
Crude oil processed in refining..... 1,000 pounds	29,308	(D)	(D)
Once refined oil produced..... 1,000 pounds	29,067	(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	65,377	72,242	71,191
Removed for edible use in processing..... 1,000 pounds	(D)	30,991	30,578
Removed for inedible use in processing..... 1,000 pounds	(D)	41,251	40,613
Stocks			
Crude oil on hand end of month..... 1,000 pounds	55,739	(D)	(D)
Once refined oil on hand end of month..... 1,000 pounds	25,969	34,205	36,209
<b>Corn</b>			
Crush			
Crude oil produced..... 1,000 pounds	(NA)	182,934	208,789
Refine			
Crude oil processed in refining..... 1,000 pounds	(S)	179,436	195,117
Once refined oil produced..... 1,000 pounds	(S)	175,571	190,154
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)	159,609	183,778
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	-	32,369	25,888
Once refined oil on hand end of month..... 1,000 pounds	(S)	87,179	76,489

See footnote(s) at end of table.

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

Item	March 2016	February 2017	March 2017
<b>Palm kernel</b>			
Consumption			
Once refined oil removed for use in processing.....1,000 pounds	50,983	35,371	34,726
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	116,166	62,105	65,868
<b>Palm</b>			
Consumption			
Once refined oil removed for use in processing.....1,000 pounds	190,378	176,984	195,279
Removed for edible use in processing .....1,000 pounds	180,620	170,575	181,738
Removed for inedible use in processing.....1,000 pounds	9,758	6,409	13,541
Stocks			
Once refined oil on hand end of month .....1,000 pounds	452,989	438,006	444,173
<b>Peanut</b>			
Refine			
Crude oil processed in refining.....1,000 pounds	(D)	18,675	18,675
Once refined oil produced.....1,000 pounds	(D)	16,562	16,562
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	17,471	16,003	23,646
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)	14,313	(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)	6,299	6,150
Once refined oil produced.....1,000 pounds	(NA)	6,299	6,150
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)	5,744
Removed for edible use in processing .....1,000 pounds	(NA)	(D)	5,729
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)	(D)
<b>Sunflower</b>			
Refine			
Crude oil processed in refining.....1,000 pounds	49,706	31,221	47,364
Once refined oil produced.....1,000 pounds	47,177	29,595	46,864
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	48,399	32,713	42,780
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	41,368	(D)	73,172
Once refined oil on hand end of month .....1,000 pounds	41,947	46,409	62,694
<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	29,281	(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: March 2017  
with Comparisons**

Item	March 2016 (1,000 pounds)	February 2017 (1,000 pounds)	March 2017 (1,000 pounds)
<b>Choice white grease</b>			
Production.....	112,681	120,739	110,196
Removed for inedible use.....	110,810	122,176	112,740
Stocks on hand end of month.....	11,811	11,287	8,635
<b>Feather meal</b>			
Production.....	96,025	98,858	97,129
Stocks on hand end of month.....	16,192	19,324	18,655
<b>Lard</b>			
Production.....	26,542	33,415	27,078
Removed for use in processing.....	26,673	33,634	28,830
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	11,498	10,433	9,264
<b>Meat meal, meat and bone meal, and dry rendered tankage</b>			
Production.....	495,307	546,750	453,247
Stocks on hand end of month.....	45,464	64,110	54,385
<b>Other grease</b>			
Production.....	58,085	71,217	76,569
Removed for inedible use in processing.....	56,198	69,707	80,305
Stocks on hand end of month.....	(D)	(D)	(D)
<b>Poultry fats</b>			
Production.....	207,255	202,624	197,090
Removed for inedible use in processing.....	206,182	203,413	196,704
Stocks on hand end of month.....	19,844	19,466	20,430
<b>Poultry by-product meals</b>			
Production.....	250,708	266,614	262,806
Stocks on hand end of month.....	42,813	45,921	49,516
<b>Tallow, edible</b>			
Production.....	62,600	71,978	79,287
Removed for use in processing.....	64,704	71,408	82,406
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	14,674	18,383	17,180
<b>Tallow, inedible</b>			
Production.....	287,102	333,887	321,779
Removed for inedible use in processing.....	292,582	327,570	326,934
Stocks on hand end of month.....	81,601	88,440	78,516
<b>Tallow, technical</b>			
Production.....	92,732	114,630	82,931
Removed for inedible use in processing.....	104,112	121,856	92,430
Stocks on hand end of month.....	13,189	(D)	(D)
<b>Yellow grease</b>			
Production.....	194,203	157,786	182,412
Removed for inedible use in processing.....	181,581	155,967	189,076
Stocks on hand end of month.....	92,854	91,707	75,967

(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).

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