



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

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## Highlights

**July 2017** contained 31 days.

**August 2017** contained 31 days.

**Soybeans crushed** for crude oil was 4.55 million tons (152 million bushels) in August 2017, compared to 4.67 million tons (156 million bushels) in July 2017 and 4.22 million tons (141 million bushels) in August 2016. Crude oil produced was 1.76 billion pounds down 2 percent from July 2017 but up 7 percent from August 2016. Soybean once refined oil production at 1.52 billion pounds during August 2017 increased 1 percent from July 2017 and increased 6 percent from August 2016.

**Canola seeds crushed** for crude oil was 152 thousand tons in August 2017, compared to 161 thousand tons in July 2017 and 174 thousand tons in August 2016. Canola crude oil produced was 127 million pounds down 6 percent from July 2017 and down 13 percent from August 2016. Canola once refined oil production at 136 million pounds during August 2017 was up 18 percent from July 2017 and up 19 percent from August 2016. Cottonseed once refined oil production at 50.4 million pounds during August 2017 was up 29 percent from July 2017 and up 31 percent from August 2016.

**Edible tallow** production was 81.5 million pounds during August 2017, up 29 percent from July 2017 and up 2 percent from August 2016. Inedible tallow production was 315 million pounds during August 2017, up 17 percent from July 2017 and up 4 percent from August 2016. Technical tallow production was 97.4 million pounds during August 2017, up 24 percent from July 2017 but down 17 percent from August 2016. Choice white grease production at 111 million pounds during August 2017 increased 25 percent from July 2017 but decreased 3 percent from August 2016.

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

Item	August 2016	July 2017	August 2017
<b>Crush</b>			
Soybeans crushed .....	4,218,789	4,668,680	4,548,592
Crude oil produced.....	1,642,478	1,801,376	1,762,207
Cake and meal produced .....	3,111,301	3,400,652	3,319,155
For animal feed .....	3,049,231	3,351,973	3,269,643
For edible protein products.....	62,070	48,679	49,512
Millfeed produced.....	217,058	237,432	237,324
<b>Refine</b>			
Crude oil processed in refining.....	1,455,355	1,543,943	1,550,365
Once refined oil produced .....	1,426,954	1,496,418	1,515,905
<b>Consumption</b>			
Crude oil removed for inedible use in processing .....	113,176	108,145	(D)
Once refined oil removed for use in processing.....	1,535,765	1,353,472	1,456,358
Removed for edible use in processing.....	1,175,567	988,052	1,139,388
Removed for inedible use in processing.....	360,198	365,420	316,970
<b>Stocks</b>			
Cake and meal on hand end of month.....	247,799	385,868	290,921
Millfeed on hand end of month .....	26,866	37,831	35,559
Crude oil on hand end of month .....	1,666,531	1,627,909	1,483,031
Crusher .....	705,836	719,632	598,197
Refiner .....	279,621	369,289	329,392
Offsite .....	681,074	538,988	555,442
Once refined oil on hand end of month.....	319,212	372,589	327,448

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

## Soybean Crushing – Regional: August 2017 with Comparisons

Region	Soybeans crushed		
	August 2016	July 2017	August 2017
	(tons)	(tons)	(tons)
Illinois .....	472,761	562,340	551,513
Iowa.....	1,093,723	1,050,410	1,004,011
North and East <sup>1</sup> .....	897,159	1,021,984	993,459
North Central <sup>2</sup> .....	653,307	631,139	599,953
South, West and Pacific <sup>3</sup> .....	483,971	594,805	613,328
West Central <sup>4</sup> .....	617,868	808,002	786,328
Region	Crude oil produced		
	August 2016	July 2017	August 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois .....	188,449	222,405	217,969
Iowa.....	420,591	399,199	382,373
North and East <sup>1</sup> .....	348,789	399,501	389,552
North Central <sup>2</sup> .....	255,972	242,369	230,828
South, West and Pacific <sup>3</sup> .....	188,670	226,519	239,134
West Central <sup>4</sup> .....	240,007	311,383	302,351
Region	Crude oil stocks at crusher		
	August 2016	July 2017	August 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois .....	128,644	169,412	116,293
Iowa.....	151,834	147,673	117,235
North and East <sup>1</sup> .....	184,115	135,408	123,299
North Central <sup>2</sup> .....	156,947	196,186	162,898
South, West and Pacific <sup>3</sup> .....	36,478	45,687	53,528
West Central <sup>4</sup> .....	47,818	25,266	24,944
Region	Cake and meal produced		
	August 2016	July 2017	August 2017
	(tons)	(tons)	(tons)
Illinois .....	342,981	402,919	393,068
Iowa.....	812,026	764,091	728,547
North and East <sup>1</sup> .....	658,529	752,636	732,795
North Central <sup>2</sup> .....	482,264	463,724	443,078
South, West and Pacific <sup>3</sup> .....	355,686	427,193	445,349
West Central <sup>4</sup> .....	459,815	590,089	576,318
Region	Cake and meal stocks		
	August 2016	July 2017	August 2017
	(tons)	(tons)	(tons)
Illinois .....	34,570	51,264	34,628
Iowa.....	53,075	73,213	54,873
North and East <sup>1</sup> .....	38,239	91,445	88,598
North Central <sup>2</sup> .....	26,997	37,504	23,636
South, West and Pacific <sup>3</sup> .....	46,089	94,250	48,451
West Central <sup>4</sup> .....	48,829	38,192	40,735

<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: August 2017  
with Comparisons**

Item	August 2016	July 2017	August 2017
<b>Canola</b>			
Crush			
Seeds crushed..... tons	174,164	160,717	151,958
Crude oil produced..... 1,000 pounds	146,060	135,463	126,810
Cake and meal produced..... tons	101,353	91,111	86,309
Refine			
Crude oil processed in refining..... 1,000 pounds	118,238	118,480	140,437
Once refined oil produced..... 1,000 pounds	114,497	115,452	136,389
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	144,025	144,772	141,797
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)	51,336	(D)
Crude oil on hand end of month..... 1,000 pounds	252,305	224,794	214,063
Once refined oil on hand end of month..... 1,000 pounds	48,571	82,269	71,972
<b>Cottonseed</b>			
Crush			
Seeds crushed..... tons	109,126	131,260	163,315
Crude oil produced..... 1,000 pounds	32,792	36,000	46,502
Cake and meal produced..... tons	47,094	53,645	71,275
Refine			
Crude oil processed in refining..... 1,000 pounds	38,906	40,735	52,069
Once refined oil produced..... 1,000 pounds	38,445	39,141	50,362
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	34,482	51,001	46,475
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	22,364	39,993	40,923
Crude oil on hand end of month..... 1,000 pounds	(D)	(D)	(D)
Once refined oil on hand end of month..... 1,000 pounds	43,057	41,942	46,644
<b>Coconut</b>			
Refine			
Crude oil processed in refining..... 1,000 pounds	49,399	(D)	(D)
Once refined oil produced..... 1,000 pounds	49,050	(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	76,175	56,087	58,426
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	104,214	(D)	(D)
Once refined oil on hand end of month..... 1,000 pounds	32,382	52,403	54,460
<b>Corn</b>			
Crush			
Crude oil produced..... 1,000 pounds	(S)	198,703	208,590
Refine			
Crude oil processed in refining..... 1,000 pounds	(S)	186,090	184,280
Once refined oil produced..... 1,000 pounds	(S)	181,527	179,843
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)	168,131	174,748
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)	36,557	47,439
Once refined oil on hand end of month..... 1,000 pounds	(S)	77,583	82,941

See footnote(s) at end of table.

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

Item	August 2016	July 2017	August 2017
<b>Palm kernel</b>			
Consumption			
Once refined oil removed for use in processing.....1,000 pounds	31,827	39,402	42,601
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	84,844	86,213	105,180
<b>Palm</b>			
Consumption			
Once refined oil removed for use in processing.....1,000 pounds	189,395	181,394	195,171
Removed for edible use in processing .....1,000 pounds	179,142	174,216	186,474
Removed for inedible use in processing.....1,000 pounds	10,253	7,178	8,697
Stocks			
Once refined oil on hand end of month .....1,000 pounds	437,181	387,174	414,308
<b>Peanut</b>			
Refine			
Crude oil processed in refining.....1,000 pounds	28,824	25,318	(D)
Once refined oil produced.....1,000 pounds	25,514	23,468	(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	25,943	23,554	23,084
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	13,793	(D)	59,249
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)	3,132	1,730
Once refined oil produced.....1,000 pounds	(NA)	3,132	1,730
Consumption			
Crude oil removed for inedible use in processing.....1,000 pounds	(NA)	(D)	-
Once refined oil removed for use in processing.....1,000 pounds	(NA)	4,274	5,283
Removed for edible use in processing .....1,000 pounds	(NA)	4,274	5,283
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	44,032	40,516	37,474
Once refined oil produced.....1,000 pounds	41,737	38,671	36,663
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	52,451	41,745	46,757
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	52,124	53,467	48,857
Once refined oil on hand end of month .....1,000 pounds	29,444	58,790	38,786
<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: August 2017 with Comparisons

Item	August 2016 (1,000 pounds)	July 2017 (1,000 pounds)	August 2017 (1,000 pounds)
<b>Choice white grease</b>			
Production.....	114,603	88,859	111,298
Removed for inedible use.....	115,996	86,533	111,725
Stocks on hand end of month.....	11,268	7,684	7,231
<b>Feather meal</b>			
Production.....	101,611	86,983	99,997
Stocks on hand end of month.....	20,373	18,695	18,128
<b>Lard</b>			
Production.....	27,542	23,958	29,052
Removed for use in processing.....	28,872	24,025	29,508
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	8,276	9,035	6,732
<b>Meat meal, meat and bone meal, and dry rendered tankage</b>			
Production.....	523,656	445,531	527,523
Stocks on hand end of month.....	49,067	49,757	47,799
<b>Other grease</b>			
Production.....	53,022	65,428	72,628
Removed for inedible use in processing.....	50,439	65,754	70,347
Stocks on hand end of month.....	(D)	(D)	(D)
<b>Poultry fats</b>			
Production.....	220,418	189,241	215,525
Removed for inedible use in processing.....	217,721	180,772	210,807
Stocks on hand end of month.....	24,937	24,499	28,686
<b>Poultry by-product meals</b>			
Production.....	269,451	246,591	279,639
Stocks on hand end of month.....	59,168	58,370	64,329
<b>Tallow, edible</b>			
Production.....	79,711	63,405	81,494
Removed for use in processing.....	81,365	65,223	82,515
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	16,737	20,734	20,927
<b>Tallow, inedible</b>			
Production.....	304,113	269,553	315,213
Removed for inedible use in processing.....	304,938	240,844	318,100
Stocks on hand end of month.....	82,904	80,780	84,329
<b>Tallow, technical</b>			
Production.....	117,708	78,337	97,434
Removed for inedible use in processing.....	124,528	84,487	111,139
Stocks on hand end of month.....	10,432	(D)	(D)
<b>Yellow grease</b>			
Production.....	172,990	160,823	167,347
Removed for inedible use in processing.....	164,968	138,746	180,271
Stocks on hand end of month.....	84,021	92,934	81,292

(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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