



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

ISSN: 2379-9862

Released May 1, 2018, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, United States Department of Agriculture (USDA).

Highlights

February 2018 contained 28 days.

March 2018 contained 31 days.

Soybeans crushed for crude oil was 5.47 million tons (182 million bushels) in March 2018, compared to 4.95 million tons (165 million bushels) in February 2018 and 4.82 million tons (161 million bushels) in March 2017. Crude oil produced was 2.08 billion pounds up 10 percent from February 2018 and up 11 percent from March 2017. Soybean once refined oil production at 1.46 billion pounds during March 2018 increased 16 percent from February 2018 and increased 4 percent from March 2017.

Canola seeds crushed for crude oil was 164 thousand tons in March 2018, compared to 152 thousand tons in February 2018 and 185 thousand tons in March 2017. Canola crude oil produced was 140 million pounds up 9 percent from February 2018 but down 10 percent from March 2017. Canola once refined oil production at 121 million pounds during March 2018 was up 8 percent from February 2018 but down 3 percent from March 2017. Cottonseed once refined oil production at 48.8 million pounds during March 2018 was down slightly from February 2018 and down 1 percent from March 2017.

Edible tallow production was 87.2 million pounds during March 2018, up slightly from February 2018 and up 10 percent from March 2017. Inedible tallow production was 342 million pounds during March 2018, up 6 percent from February 2018 and up 7 percent from March 2017. Technical tallow production was 100 million pounds during March 2018, down 9 percent from February 2018 but up 20 percent from March 2017. Choice white grease production at 110 million pounds during March 2018 decreased 3 percent from February 2018 and decreased slightly from March 2017.

**Soybean Crushing, Production, Consumption and Stocks – United States: March 2018
with Comparisons**

Item	March 2017	February 2018	March 2018
Crush			
Soybeans crushed tons	4,822,961	4,948,772	5,465,240
Crude oil produced.....1,000 pounds	1,865,466	1,889,841	2,079,123
Cake and meal produced tons	3,528,733	3,651,786	4,029,272
For animal feed tons	3,473,584	3,610,407	3,976,961
For edible protein products..... tons	55,149	41,379	52,311
Millfeed produced..... tons	244,932	247,786	277,277
Refine			
Crude oil processed in refining1,000 pounds	1,442,235	1,288,769	1,519,782
Once refined oil produced1,000 pounds	1,408,289	1,259,370	1,459,498
Consumption			
Crude oil removed for inedible use in processing1,000 pounds	69,857	(D)	(D)
Once refined oil removed for use in processing.....1,000 pounds	1,374,783	1,302,608	1,427,523
Removed for edible use in processing.....1,000 pounds	1,148,936	1,023,705	1,062,399
Removed for inedible use in processing1,000 pounds	225,847	278,903	365,124
Stocks			
Cake and meal on hand end of month..... tons	318,123	415,077	492,224
Millfeed on hand end of month tons	36,356	40,715	51,967
Crude oil on hand end of month1,000 pounds	1,934,877	2,049,644	2,080,138
Crusher1,000 pounds	908,252	928,514	915,122
Refiner1,000 pounds	378,000	386,790	362,840
Offsite1,000 pounds	648,625	734,340	802,176
Once refined oil on hand end of month.....1,000 pounds	408,959	375,738	364,344

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

Soybean Crushing – Regional: March 2018 with Comparisons

Region	Soybeans crushed		
	March 2017	February 2018	March 2018
	(tons)	(tons)	(tons)
Illinois	640,447	580,214	618,612
Iowa	1,001,263	1,009,213	1,158,623
North and East ¹	1,041,351	1,158,157	1,263,566
North Central ²	675,416	668,153	751,088
South, West and Pacific ³	629,645	663,164	730,338
West Central ⁴	834,839	869,871	943,013
Region	Crude oil produced		
	March 2017	February 2018	March 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	254,539	227,300	243,725
Iowa	384,611	386,772	442,506
North and East ¹	404,064	442,392	480,354
North Central ²	257,655	247,986	272,083
South, West and Pacific ³	245,290	252,799	276,443
West Central ⁴	319,307	332,592	364,012
Region	Crude oil stocks at crusher		
	March 2017	February 2018	March 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	206,014	151,934	154,913
Iowa	146,726	178,885	173,914
North and East ¹	216,093	207,498	237,509
North Central ²	242,022	255,306	246,586
South, West and Pacific ³	67,200	72,904	56,058
West Central ⁴	30,197	61,987	46,142
Region	Cake and meal produced		
	March 2017	February 2018	March 2018
	(tons)	(tons)	(tons)
Illinois	468,578	420,801	450,750
Iowa	726,821	750,819	862,308
North and East ¹	763,467	855,836	933,877
North Central ²	498,532	497,062	550,233
South, West and Pacific ³	457,981	482,197	533,275
West Central ⁴	613,354	645,071	698,829
Region	Cake and meal stocks		
	March 2017	February 2018	March 2018
	(tons)	(tons)	(tons)
Illinois	55,693	(D)	103,943
Iowa	48,056	52,236	69,321
North and East ¹	67,010	104,916	112,525
North Central ²	30,702	67,739	53,640
South, West and Pacific ³	74,213	81,746	75,071
West Central ⁴	42,449	(D)	77,724

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

¹ North and East includes Indiana, Kentucky, Maryland, Ohio, Pennsylvania and Virginia.

² North Central includes Michigan, Minnesota, North Dakota and South Dakota.

³ South, West, and Pacific includes Alabama, Arkansas, California, Georgia, Louisiana, Mississippi, North Carolina and South Carolina.

⁴ West Central includes Kansas, Missouri and Nebraska.

**Selected Oilseed Crushing, Production, Consumption and Stocks – United States: March 2018
with Comparisons**

Item	March 2017	February 2018	March 2018
Canola			
Crush			
Seeds crushed..... tons	184,516	151,591	164,100
Crude oil produced..... 1,000 pounds	156,376	128,363	139,998
Cake and meal produced..... tons	101,917	84,671	90,656
Refine			
Crude oil processed in refining..... 1,000 pounds	128,357	115,194	123,888
Once refined oil produced..... 1,000 pounds	124,956	112,078	121,234
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	150,601	133,776	145,358
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	83,950	92,840	82,562
Cottonseed			
Crush			
Seeds crushed..... tons	169,880	154,702	151,913
Crude oil produced..... 1,000 pounds	51,568	48,252	48,788
Cake and meal produced..... tons	77,648	71,963	73,505
Refine			
Crude oil processed in refining..... 1,000 pounds	50,515	50,576	50,364
Once refined oil produced..... 1,000 pounds	49,354	49,024	48,780
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	42,057	47,407	49,363
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	19,782	10,123	10,429
Crude oil on hand end of month..... 1,000 pounds	(D)	(D)	(D)
Once refined oil on hand end of month..... 1,000 pounds	49,277	57,187	59,020
Coconut			
Refine			
Crude oil processed in refining..... 1,000 pounds	(D)	(D)	(D)
Once refined oil produced..... 1,000 pounds	(D)	(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	79,397	86,684	53,252
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	33,560	58,513	58,211
Corn			
Crush			
Crude oil produced..... 1,000 pounds	208,789	176,178	169,269
Refine			
Crude oil processed in refining..... 1,000 pounds	196,250	178,538	178,242
Once refined oil produced..... 1,000 pounds	191,281	174,979	175,293
Consumption			
Crude oil removed for inedible use in processing..... 1,000 pounds	(D)	-	-
Once refined oil removed for use in processing..... 1,000 pounds	183,783	175,109	189,907
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	24,196	80,105	75,325
Once refined oil on hand end of month..... 1,000 pounds	76,415	79,719	66,413

See footnote(s) at end of table.

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Selected Oilseed Crushing, Production, Consumption and Stocks – United States: March 2018 with Comparisons (continued)

Item	March 2017	February 2018	March 2018
Palm kernel			
Consumption			
Once refined oil removed for use in processing.....1,000 pounds	34,726	19,996	21,056
Removed for edible use in processing1,000 pounds	(D)	(D)	(D)
Removed for inedible use in processing.....1,000 pounds	(D)	(D)	(D)
Stocks			
Once refined oil on hand end of month1,000 pounds	65,868	94,057	95,452
Palm			
Consumption			
Once refined oil removed for use in processing.....1,000 pounds	187,286	189,231	195,602
Removed for edible use in processing1,000 pounds	176,044	182,093	187,931
Removed for inedible use in processing.....1,000 pounds	11,242	7,138	7,671
Stocks			
Once refined oil on hand end of month1,000 pounds	439,894	460,812	467,988
Peanut			
Refine			
Crude oil processed in refining.....1,000 pounds	18,048	(D)	(D)
Once refined oil produced.....1,000 pounds	16,262	(D)	16,775
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	22,499	(D)	18,022
Removed for edible use in processing1,000 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	17,706	(D)	(D)
Once refined oil on hand end of month1,000 pounds	(D)	(D)	(D)
Safflower			
Refine			
Crude oil processed in refining.....1,000 pounds	6,150	(D)	(D)
Once refined oil produced.....1,000 pounds	6,150	(D)	(D)
Consumption			
Crude oil removed for inedible use in processing.....1,000 pounds	-	-	-
Once refined oil removed for use in processing.....1,000 pounds	5,744	(D)	(D)
Removed for edible use in processing1,000 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)	9,403	13,737
Once refined oil on hand end of month1,000 pounds	(D)	2,358	3,200
Sunflower			
Refine			
Crude oil processed in refining.....1,000 pounds	47,364	29,658	35,073
Once refined oil produced.....1,000 pounds	46,864	28,802	33,519
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	42,780	(D)	(D)
Removed for edible use in processing1,000 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	73,172	81,032	76,752
Once refined oil on hand end of month1,000 pounds	62,694	79,698	80,340
Vegetable foots, raw and acidulated			
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.

**Animal Fats and Oils Production, Consumption and Stocks – United States: March 2018
with Comparisons**

Item	March 2017 (1,000 pounds)	February 2018 (1,000 pounds)	March 2018 (1,000 pounds)
Choice white grease			
Production.....	110,196	113,874	109,976
Removed for inedible use.....	112,753	115,491	110,761
Stocks on hand end of month.....	8,635	8,902	8,100
Feather meal			
Production.....	97,129	96,635	97,568
Stocks on hand end of month.....	18,655	20,112	19,247
Lard			
Production.....	27,078	30,999	27,683
Removed for use in processing.....	28,048	30,407	25,790
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	9,264	10,214	13,020
Meat meal, meat and bone meal, and dry rendered tankage			
Production.....	456,885	501,428	516,040
Stocks on hand end of month.....	53,914	48,453	51,114
Other grease			
Production.....	76,569	54,730	58,684
Removed for inedible use in processing.....	80,397	49,231	64,511
Stocks on hand end of month.....	(D)	(D)	(D)
Poultry fats			
Production.....	197,090	210,277	206,820
Removed for inedible use in processing.....	196,704	209,873	209,421
Stocks on hand end of month.....	20,430	26,601	24,160
Poultry by-product meals			
Production.....	262,806	280,883	278,120
Stocks on hand end of month.....	49,516	69,676	67,761
Tallow, edible			
Production.....	79,287	86,836	87,195
Removed for use in processing.....	82,037	85,978	90,120
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	16,780	(D)	23,639
Tallow, inedible			
Production.....	321,430	322,935	342,488
Removed for inedible use in processing.....	328,088	329,957	353,380
Stocks on hand end of month.....	78,270	101,210	89,542
Tallow, technical			
Production.....	82,931	110,000	99,889
Removed for inedible use in processing.....	93,093	118,335	107,037
Stocks on hand end of month.....	(D)	8,703	11,051
Yellow grease			
Production.....	174,479	167,040	193,002
Removed for inedible use in processing.....	182,937	173,538	193,251
Stocks on hand end of month.....	77,811	91,746	105,930

(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.

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