



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

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## Highlights

**February 2019** contained 28 days.

**March 2019** contained 31 days.

**Soybeans crushed** for crude oil was 5.38 million tons (179 million bushels) in March 2019, compared with 4.88 million tons (163 million bushels) in February 2019 and 5.47 million tons (182 million bushels) in March 2018. Crude oil produced was 2.09 billion pounds up 10 percent from February 2019 and up 1 percent from March 2018. Soybean once refined oil production at 1.41 billion pounds during March 2019 increased 10 percent from February 2019 but decreased 3 percent from March 2018.

**Canola seeds crushed** for crude oil was 142,921 tons in March 2019, compared with 136,421 tons in February 2019 and 164,100 tons in March 2018. Canola crude oil produced was 123 million pounds, up 6 percent from February 2019 but down 12 percent from March 2018. Canola once refined oil production, at 123 million pounds during March 2019, was up 20 percent from February 2019 and up 1 percent from March 2018.

**Cottonseed once refined** oil production, at 45.7 million pounds during March 2019, was up 24 percent from February 2019 but down 6 percent from March 2018.

**Edible tallow** production was 86.0 million pounds during March 2019, down 6 percent from February 2019 and down 1 percent from March 2018. Inedible tallow production was 336 million pounds during March 2019, up 1 percent from February 2019 but down 2 percent from March 2018. Technical tallow production was 96 million pounds during March 2019, down 20 percent from February 2019 and down 4 percent from March 2018. Choice white grease production, at 121 million pounds during March 2019, decreased 6 percent from February 2019 but increased 10 percent from March 2018.

**Soybean Crushing, Production, Consumption and Stocks – United States: March 2019  
with Comparisons**

Item	March 2018	February 2019	March 2019
<b>Crush</b>			
Soybeans crushed ..... tons	5,465,240	4,883,434	5,383,008
Crude oil produced.....1,000 pounds	2,079,123	1,899,196	2,094,418
Cake and meal produced ..... tons	4,029,272	3,583,222	3,926,558
For animal feed ..... tons	3,976,961	3,542,305	3,879,565
For edible protein products..... tons	52,311	40,917	46,993
Millfeed produced..... tons	277,277	253,395	274,260
<b>Refine</b>			
Crude oil processed in refining .....1,000 pounds	1,519,782	1,317,633	1,443,099
Once refined oil produced .....1,000 pounds	1,459,498	1,287,932	1,413,729
<b>Consumption</b>			
Crude oil removed for inedible use in processing .....1,000 pounds	(D)	112,980	99,527
Once refined oil removed for use in processing.....1,000 pounds	1,427,523	1,296,996	1,466,744
Removed for edible use in processing.....1,000 pounds	1,062,399	960,476	1,060,620
Removed for inedible use in processing .....1,000 pounds	365,124	336,520	406,124
<b>Stocks</b>			
Cake and meal on hand end of month..... tons	492,224	263,515	465,159
Millfeed on hand end of month ..... tons	51,967	31,364	44,934
Crude oil on hand end of month .....1,000 pounds	2,080,138	1,762,965	1,893,918
Crusher .....1,000 pounds	915,122	851,704	942,477
Refiner .....1,000 pounds	362,840	(D)	(D)
Offsite .....1,000 pounds	802,176	(D)	(D)
Once refined oil on hand end of month.....1,000 pounds	364,344	386,165	339,011

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

## Soybean Crushing – Regional: March 2019 with Comparisons

Region	Soybeans crushed		
	March 2018	February 2019	March 2019
	(tons)	(tons)	(tons)
Illinois .....	618,612	590,483	687,766
Iowa .....	1,158,623	1,018,700	1,124,006
North and East <sup>1</sup> .....	1,263,566	1,162,486	1,294,358
North Central <sup>2</sup> .....	751,088	633,558	725,092
South, West and Pacific <sup>3</sup> .....	730,338	645,697	665,443
West Central <sup>4</sup> .....	943,013	832,510	886,343
Region	Crude oil produced		
	March 2018	February 2019	March 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois .....	243,725	237,892	278,846
Iowa .....	442,506	395,432	441,235
North and East <sup>1</sup> .....	480,354	444,840	497,656
North Central <sup>2</sup> .....	272,083	239,732	274,714
South, West and Pacific <sup>3</sup> .....	276,443	250,889	261,026
West Central <sup>4</sup> .....	364,012	330,411	340,941
Region	Crude oil stocks at crusher		
	March 2018	February 2019	March 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois .....	154,913	136,407	185,655
Iowa .....	173,914	184,517	198,297
North and East <sup>1</sup> .....	237,509	217,638	218,384
North Central <sup>2</sup> .....	246,586	210,663	234,168
South, West and Pacific <sup>3</sup> .....	56,058	(D)	56,485
West Central <sup>4</sup> .....	46,142	(D)	49,488
Region	Cake and meal produced		
	March 2018	February 2019	March 2019
	(tons)	(tons)	(tons)
Illinois .....	450,750	422,969	497,495
Iowa .....	862,308	751,983	825,242
North and East <sup>1</sup> .....	933,877	848,293	941,717
North Central <sup>2</sup> .....	550,233	465,846	537,551
South, West and Pacific <sup>3</sup> .....	533,275	462,724	478,007
West Central <sup>4</sup> .....	698,829	631,407	646,546
Region	Cake and meal stocks		
	March 2018	February 2019	March 2019
	(tons)	(tons)	(tons)
Illinois .....	103,943	51,570	85,134
Iowa .....	69,321	35,373	97,918
North and East <sup>1</sup> .....	112,525	67,969	108,897
North Central <sup>2</sup> .....	53,640	34,125	51,211
South, West and Pacific <sup>3</sup> .....	75,071	42,847	69,224
West Central <sup>4</sup> .....	77,724	31,631	52,775

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

<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: March 2019  
with Comparisons**

Item	March 2018	February 2019	March 2019
<b>Canola</b>			
Crush			
Seeds crushed..... tons	164,100	136,421	142,921
Crude oil produced..... 1,000 pounds	139,998	115,595	122,641
Cake and meal produced..... tons	90,656	78,565	81,313
Refine			
Crude oil processed in refining..... 1,000 pounds	123,888	105,717	126,726
Once refined oil produced..... 1,000 pounds	121,234	102,151	122,862
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	145,358	138,636	141,149
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)	97,983	84,037
Once refined oil on hand end of month..... 1,000 pounds	82,562	99,975	110,446
<b>Cottonseed</b>			
Crush			
Seeds crushed..... tons	151,913	136,983	158,413
Crude oil produced..... 1,000 pounds	48,788	35,153	42,226
Cake and meal produced..... tons	73,505	66,168	69,935
Refine			
Crude oil processed in refining..... 1,000 pounds	50,364	38,224	47,265
Once refined oil produced..... 1,000 pounds	48,780	36,862	45,661
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	49,363	40,861	46,799
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	10,429	39,684	23,696
Crude oil on hand end of month..... 1,000 pounds	(D)	(D)	(D)
Once refined oil on hand end of month..... 1,000 pounds	59,020	28,123	31,736
<b>Coconut</b>			
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	53,252	72,946	81,614
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	58,211	74,792	62,274
<b>Corn</b>			
Crush			
Crude oil produced..... 1,000 pounds	169,269	155,624	174,917
Refine			
Crude oil processed in refining..... 1,000 pounds	178,242	163,563	181,056
Once refined oil produced..... 1,000 pounds	175,293	160,120	176,870
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	189,907	150,957	173,993
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	75,325	49,983	28,830
Once refined oil on hand end of month..... 1,000 pounds	66,413	68,410	(D)

See footnote(s) at end of table.

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**Selected Oilseed Crushing, Production, Consumption and Stocks – United States: March 2019 with Comparisons (continued)**

Item	March 2018	February 2019	March 2019
<b>Palm kernel</b>			
Consumption			
Once refined oil removed for use in processing.....1,000 pounds	21,056	23,452	21,234
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	95,452	65,708	62,244
<b>Palm</b>			
Consumption			
Once refined oil removed for use in processing.....1,000 pounds	195,602	186,593	200,024
Removed for edible use in processing .....1,000 pounds	187,931	178,992	191,297
Removed for inedible use in processing.....1,000 pounds	7,671	7,601	8,727
Stocks			
Once refined oil on hand end of month .....1,000 pounds	467,988	359,902	291,345
<b>Peanut</b>			
Refine			
Crude oil processed in refining.....1,000 pounds	(D)	(D)	(D)
Once refined oil produced.....1,000 pounds	16,775	(D)	(D)
Consumption			
Crude oil removed for inedible use in processing.....1,000 pounds	(D)	-	-
Once refined oil removed for use in processing.....1,000 pounds	18,022	(D)	(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	(D)	31,624	25,386
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	(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)
Once refined oil removed for use in processing.....1,000 pounds	(D)	(D)	(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	13,737	9,511	(D)
Once refined oil on hand end of month .....1,000 pounds	3,200	1,310	1,847
<b>Sunflower</b>			
Refine			
Crude oil processed in refining.....1,000 pounds	35,073	34,362	44,333
Once refined oil produced.....1,000 pounds	33,519	32,847	40,885
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	(D)	(D)	(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	76,752	(D)	(D)
Once refined oil on hand end of month .....1,000 pounds	80,340	49,325	24,484
<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.

**Animal Fats and Oils Production, Consumption and Stocks – United States: March 2019  
with Comparisons**

Item	March 2018 (1,000 pounds)	February 2019 (1,000 pounds)	March 2019 (1,000 pounds)
<b>Choice white grease</b>			
Production.....	109,976	128,757	120,988
Removed for inedible use.....	110,761	131,967	120,871
Stocks on hand end of month.....	8,100	7,744	7,817
<b>Feather meal</b>			
Production.....	97,568	83,370	85,590
Stocks on hand end of month.....	19,247	25,052	25,638
<b>Lard</b>			
Production.....	27,683	32,447	28,321
Removed for use in processing.....	25,790	31,001	27,810
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	13,020	13,901	14,826
<b>Meat meal, meat and bone meal, and dry rendered tankage</b>			
Production.....	517,317	543,565	522,428
Stocks on hand end of month.....	49,828	65,523	61,682
<b>Other grease</b>			
Production.....	58,684	43,621	44,450
Removed for inedible use in processing.....	64,511	57,485	44,044
Stocks on hand end of month.....	(D)	(D)	(D)
<b>Poultry fats</b>			
Production.....	206,820	176,700	171,780
Removed for inedible use in processing.....	209,447	173,894	162,805
Stocks on hand end of month.....	24,160	20,114	23,251
<b>Poultry by-product meals</b>			
Production.....	278,120	252,964	215,786
Stocks on hand end of month.....	67,761	53,263	47,732
<b>Tallow, edible</b>			
Production.....	87,195	91,754	85,957
Removed for use in processing.....	90,120	93,032	89,071
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	23,639	20,480	23,240
<b>Tallow, inedible</b>			
Production.....	342,024	333,574	335,972
Removed for inedible use in processing.....	353,948	348,090	352,174
Stocks on hand end of month.....	89,311	98,695	82,006
<b>Tallow, technical</b>			
Production.....	99,889	119,829	96,061
Removed for inedible use in processing.....	107,037	129,290	104,024
Stocks on hand end of month.....	11,051	11,381	9,741
<b>Yellow grease</b>			
Production.....	191,395	206,658	197,432
Removed for inedible use in processing.....	181,193	203,453	214,336
Stocks on hand end of month.....	101,867	103,650	88,317

(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 Crops 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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Chris Hawthorn – Corn, Flaxseed, Proso Millet .....	(202) 720-9526
James Johanson – County Estimates, Hay.....	(202) 690-8533
Jeff Lemmons – Oats, Soybeans .....	(202) 690-3234
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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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