



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

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Highlights

August 2018 contained 31 days.

September 2018 contained 30 days.

Soybeans crushed for crude oil was 5.08 million tons (169 million bushels) in September 2018, compared with 5.09 million tons (170 million bushels) in August 2018 and 4.36 million tons (145 million bushels) in September 2017. Crude oil produced was 1.94 billion pounds down slightly from August 2018 but up 14 percent from September 2017. Soybean once refined oil production at 1.47 billion pounds during September 2018 increased 1 percent from August 2018 and increased 6 percent from September 2017.

Canola seeds crushed for crude oil was 178,162 tons in September 2018, compared with 170,472 tons in August 2018 and 193,523 tons in September 2017. Canola crude oil produced was 152 million pounds up 9 percent from August 2018 but down 8 percent from September 2017. Canola once refined oil production at 161 million pounds during September 2018 was up 46 percent from August 2018 and up 8 percent from September 2017. Cottonseed once refined oil production at 43.3 million pounds during September 2018 was down 5 percent from August 2018 but up 13 percent from September 2017.

Edible tallow production was 77.2 million pounds during September 2018, down 16 percent from August 2018 and down slightly from September 2017. Inedible tallow production was 330 million pounds during September 2018, down 1 percent from August 2018 but up 11 percent from September 2017. Technical tallow production was 109 million pounds during September 2018, down 9 percent from August 2018 but up 27 percent from September 2017. Choice white grease production at 104 million pounds during September 2018 decreased 8 percent from August 2018 but increased slightly from September 2017.

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

Item	September 2017	August 2018	September 2018
Crush			
Soybeans crushed	4,361,207	5,088,884	5,077,532
Crude oil produced.....	1,701,762	1,944,966	1,936,873
Cake and meal produced	3,188,771	3,771,727	3,731,600
For animal feed	3,153,899	3,724,433	3,693,011
For edible protein products.....	34,872	47,294	38,589
Millfeed produced.....	219,873	259,078	254,269
Refine			
Crude oil processed in refining.....	1,418,280	1,481,276	1,494,848
Once refined oil produced	1,389,339	1,448,966	1,467,768
Consumption			
Crude oil removed for inedible use in processing	63,531	115,494	140,147
Once refined oil removed for use in processing.....	1,377,546	1,533,052	1,543,916
Removed for edible use in processing.....	1,031,352	1,177,211	1,129,054
Removed for inedible use in processing	346,194	355,841	414,862
Stocks			
Cake and meal on hand end of month.....	353,758	359,936	498,862
Millfeed on hand end of month	46,872	41,117	54,010
Crude oil on hand end of month	1,400,918	1,843,912	1,642,954
Crusher	601,211	710,679	674,977
Refiner	326,150	410,486	295,637
Offsite	473,557	722,747	672,340
Once refined oil on hand end of month.....	310,036	370,887	347,087

Soybean Crushing – Regional: September 2018 with Comparisons

Region	Soybeans crushed		
	September 2017	August 2018	September 2018
	(tons)	(tons)	(tons)
Illinois	518,802	621,419	575,004
Iowa	916,236	1,120,453	1,105,598
North and East ¹	1,046,125	1,088,537	1,205,334
North Central ²	620,072	698,118	695,155
South, West and Pacific ³	587,170	700,209	648,670
West Central ⁴	672,802	860,148	847,771
Region	Crude oil produced		
	September 2017	August 2018	September 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	210,070	242,869	225,764
Iowa	349,997	428,787	421,784
North and East ¹	411,374	417,576	462,925
North Central ²	237,543	256,330	256,950
South, West and Pacific ³	231,191	266,970	247,861
West Central ⁴	261,587	332,434	321,589
Region	Crude oil stocks at crusher		
	September 2017	August 2018	September 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	83,848	100,081	(D)
Iowa	98,407	108,441	113,034
North and East ¹	157,799	155,776	147,769
North Central ²	171,143	259,380	228,898
South, West and Pacific ³	60,976	(D)	47,346
West Central ⁴	29,038	(D)	(D)
Region	Cake and meal produced		
	September 2017	August 2018	September 2018
	(tons)	(tons)	(tons)
Illinois	374,253	452,477	420,599
Iowa	674,201	830,590	814,230
North and East ¹	764,112	810,788	876,911
North Central ²	458,424	522,762	522,349
South, West and Pacific ³	423,283	514,631	472,394
West Central ⁴	494,498	640,479	625,117
Region	Cake and meal stocks		
	September 2017	August 2018	September 2018
	(tons)	(tons)	(tons)
Illinois	46,886	84,311	(D)
Iowa	65,131	67,701	68,232
North and East ¹	88,543	68,340	101,094
North Central ²	35,006	26,380	(D)
South, West and Pacific ³	75,278	67,240	75,601
West Central ⁴	42,914	45,964	63,658

(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: September 2018
with Comparisons**

Item	September 2017	August 2018	September 2018
Canola			
Crush			
Seeds crushed..... tons	193,523	170,472	178,162
Crude oil produced..... 1,000 pounds	165,119	139,345	151,517
Cake and meal produced..... tons	111,734	93,949	101,750
Refine			
Crude oil processed in refining..... 1,000 pounds	154,565	116,348	166,792
Once refined oil produced..... 1,000 pounds	149,992	110,749	161,314
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	176,130	153,134	154,209
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)	115,128
Once refined oil on hand end of month..... 1,000 pounds	94,807	110,219	79,440
Cottonseed			
Crush			
Seeds crushed..... tons	110,881	177,900	157,504
Crude oil produced..... 1,000 pounds	30,649	49,724	40,807
Cake and meal produced..... tons	42,795	76,941	62,185
Refine			
Crude oil processed in refining..... 1,000 pounds	39,936	47,121	44,742
Once refined oil produced..... 1,000 pounds	38,320	45,625	43,278
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	44,189	53,071	49,876
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	27,736	35,732	44,809
Crude oil on hand end of month..... 1,000 pounds	(D)	(D)	(D)
Once refined oil on hand end of month..... 1,000 pounds	44,129	32,500	32,087
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	60,287	88,992	65,556
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	51,331	53,405	56,306
Corn			
Crush			
Crude oil produced..... 1,000 pounds	185,243	177,308	171,868
Refine			
Crude oil processed in refining..... 1,000 pounds	174,108	188,173	178,687
Once refined oil produced..... 1,000 pounds	170,133	183,051	173,240
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	171,382	184,387	167,564
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	51,957	63,365	43,590
Once refined oil on hand end of month..... 1,000 pounds	75,193	56,317	60,863

See footnote(s) at end of table.

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

Item	September 2017	August 2018	September 2018
Palm kernel			
Consumption			
Once refined oil removed for use in processing.....1,000 pounds	39,705	21,867	22,663
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	92,191	61,120	66,754
Palm			
Consumption			
Once refined oil removed for use in processing.....1,000 pounds	199,755	216,342	193,832
Removed for edible use in processing1,000 pounds	188,956	211,929	188,743
Removed for inedible use in processing.....1,000 pounds	10,799	4,413	5,089
Stocks			
Once refined oil on hand end of month1,000 pounds	405,931	273,104	291,115
Peanut			
Refine			
Crude oil processed in refining.....1,000 pounds	29,610	29,053	33,096
Once refined oil produced.....1,000 pounds	27,399	27,913	32,024
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	26,485	26,067	29,067
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	58,173	62,775	49,576
Once refined oil on hand end of month1,000 pounds	(D)	(D)	(D)
Safflower			
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 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)	(D)	10,855
Once refined oil on hand end of month1,000 pounds	942	2,618	(D)
Sunflower			
Refine			
Crude oil processed in refining.....1,000 pounds	33,677	39,442	43,763
Once refined oil produced.....1,000 pounds	31,843	38,343	41,089
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 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	48,911	45,298	32,399
Once refined oil on hand end of month1,000 pounds	41,903	35,912	40,043
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: September 2018
with Comparisons**

Item	September 2017 (1,000 pounds)	August 2018 (1,000 pounds)	September 2018 (1,000 pounds)
Choice white grease			
Production.....	103,468	113,405	103,973
Removed for inedible use.....	101,877	112,653	102,781
Stocks on hand end of month.....	8,872	6,944	8,136
Feather meal			
Production.....	97,232	79,265	74,383
Stocks on hand end of month.....	23,121	23,271	23,446
Lard			
Production.....	28,156	28,313	26,339
Removed for use in processing.....	28,726	27,940	27,345
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	5,401	14,963	13,111
Meat meal, meat and bone meal, and dry rendered tanlage			
Production.....	533,264	514,356	498,789
Stocks on hand end of month.....	65,483	71,194	71,652
Other grease			
Production.....	69,369	50,852	55,198
Removed for inedible use in processing.....	68,324	48,188	53,128
Stocks on hand end of month.....	(D)	(D)	(D)
Poultry fats			
Production.....	207,914	179,657	171,974
Removed for inedible use in processing.....	208,526	175,271	165,937
Stocks on hand end of month.....	23,078	23,939	25,101
Poultry by-product meals			
Production.....	266,001	234,360	224,917
Stocks on hand end of month.....	64,416	54,535	67,070
Tallow, edible			
Production.....	77,479	91,374	77,169
Removed for use in processing.....	76,146	87,570	79,866
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	23,690	34,148	31,362
Tallow, inedible			
Production.....	297,599	332,618	330,273
Removed for inedible use in processing.....	292,281	335,289	322,109
Stocks on hand end of month.....	88,643	102,239	113,645
Tallow, technical			
Production.....	85,595	120,008	108,805
Removed for inedible use in processing.....	93,222	125,231	118,993
Stocks on hand end of month.....	(D)	(D)	(D)
Yellow grease			
Production.....	172,307	187,474	196,634
Removed for inedible use in processing.....	171,628	176,826	200,234
Stocks on hand end of month.....	82,432	111,351	107,696

(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.

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Josh Bates – Corn, Flaxseed, Proso Millet	(202) 720-9526
James Johanson – County Estimates, Hay.....	(202) 690-8533
Jeff Lemmons – Oats, Soybeans	(202) 690-3234
Jannety Mosley – Crop Weather, Barley.....	(202) 720-7621
Sammy Neal – Peanuts, Rice.....	(202) 720-7688
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