



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

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Highlights

August 2019 contained 31 days.

September 2019 contained 30 days.

Soybeans crushed for crude oil was 4.87 million tons (162 million bushels) in September 2019, compared with 5.32 million tons (177 million bushels) in August 2019 and 5.09 million tons (170 million bushels) in September 2018. Crude oil produced was 1.90 billion pounds down 7 percent from August 2019 and down 2 percent from September 2018. Soybean once refined oil production at 1.41 billion pounds during September 2019 decreased 7 percent from August 2019 and decreased 4 percent from September 2018.

Canola seeds crushed for crude oil was 162,296 tons in September 2019, compared with 156,132 tons in August 2019 and 178,162 tons in September 2018. Canola crude oil produced was 134 million pounds, up 6 percent from August 2019 but down 11 percent from September 2018. Canola once refined oil production, at 120 million pounds during September 2019, was up 65 percent from August 2019 but down 26 percent from September 2018.

Cottonseed once refined oil production, at 40.7 million pounds during September 2019, was up 3 percent from August 2019 but down 6 percent from September 2018.

Edible tallow production was 72.6 million pounds during September 2019, down 17 percent from August 2019 and down 6 percent from September 2018. Inedible tallow production was 300 million pounds during September 2019, down 5 percent from August 2019 and down 9 percent from September 2018. Technical tallow production was 94.9 million pounds during September 2019, down 20 percent from August 2019 and down 13 percent from September 2018. Choice white grease production, at 106 million pounds during September 2019, decreased 1 percent from August 2019 but increased 2 percent from September 2018.

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

Item	September 2018	August 2019	September 2019
Crush			
Soybeans crushed	5,089,480	5,320,183	4,870,034
Crude oil produced.....	1,942,097	2,048,167	1,900,668
Cake and meal produced	3,740,681	3,876,153	3,553,484
For animal feed	3,701,593	3,826,835	3,514,472
For edible protein products.....	39,088	49,318	39,012
Millfeed produced.....	254,965	270,264	246,065
Refine			
Crude oil processed in refining.....	1,494,848	1,558,374	1,448,211
Once refined oil produced	1,467,768	1,515,357	1,412,136
Consumption			
Crude oil removed for inedible use in processing	140,147	89,833	82,646
Once refined oil removed for use in processing.....	1,543,916	1,568,943	1,481,529
Removed for edible use in processing.....	1,129,054	1,141,893	1,067,450
Removed for inedible use in processing	414,862	427,050	414,079
Stocks			
Cake and meal on hand end of month.....	501,299	384,874	360,387
Millfeed on hand end of month	54,125	48,338	41,628
Crude oil on hand end of month	1,648,347	1,439,116	1,400,569
Crusher	680,370	731,292	697,669
Refiner	295,637	420,572	410,770
Offsite	672,340	287,252	292,130
Once refined oil on hand end of month.....	347,087	366,510	375,146

Soybean Crushing – Regional: September 2019 with Comparisons

Region	Soybeans crushed		
	September 2018	August 2019	September 2019
	(tons)	(tons)	(tons)
Illinois	575,004	679,235	525,265
Iowa	1,117,546	1,009,009	1,094,919
North and East ¹	1,205,334	1,237,662	1,226,240
North Central ²	695,155	829,756	749,420
South, West and Pacific ³	648,670	656,385	543,194
West Central ⁴	847,771	908,136	730,996
Region	Crude oil produced		
	September 2018	August 2019	September 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	225,764	270,644	214,278
Iowa	427,008	390,675	425,524
North and East ¹	462,925	470,079	477,829
North Central ²	256,950	306,382	287,618
South, West and Pacific ³	247,861	255,954	212,573
West Central ⁴	321,589	354,433	282,846
Region	Crude oil stocks at crusher		
	September 2018	August 2019	September 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	(D)	(D)	123,925
Iowa	118,427	92,339	101,846
North and East ¹	147,769	167,717	168,120
North Central ²	228,898	199,738	214,666
South, West and Pacific ³	47,346	49,456	48,371
West Central ⁴	(D)	(D)	40,741
Region	Cake and meal produced		
	September 2018	August 2019	September 2019
	(tons)	(tons)	(tons)
Illinois	420,599	491,362	372,228
Iowa	823,311	736,122	808,327
North and East ¹	876,911	900,203	891,792
North Central ²	522,349	613,310	549,555
South, West and Pacific ³	472,394	473,265	392,077
West Central ⁴	625,117	661,891	539,505
Region	Cake and meal stocks		
	September 2018	August 2019	September 2019
	(tons)	(tons)	(tons)
Illinois	(D)	82,619	69,794
Iowa	70,669	43,152	49,610
North and East ¹	101,094	126,443	81,633
North Central ²	(D)	29,698	49,400
South, West and Pacific ³	75,601	52,002	49,050
West Central ⁴	63,658	50,960	60,900

(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 2019
with Comparisons**

Item	September 2018	August 2019	September 2019
Canola			
Crush			
Seeds crushed..... tons	178,162	156,132	162,296
Crude oil produced..... 1,000 pounds	151,517	126,475	134,207
Cake and meal produced..... tons	101,750	85,658	91,758
Refine			
Crude oil processed in refining..... 1,000 pounds	166,792	75,839	124,571
Once refined oil produced..... 1,000 pounds	161,314	72,802	119,864
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	154,209	114,735	144,417
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	115,128	70,350	63,428
Once refined oil on hand end of month..... 1,000 pounds	79,440	89,807	94,502
Cottonseed			
Crush			
Seeds crushed..... tons	157,504	132,991	132,202
Crude oil produced..... 1,000 pounds	40,807	34,377	35,425
Cake and meal produced..... tons	62,185	51,699	56,536
Refine			
Crude oil processed in refining..... 1,000 pounds	44,742	40,849	42,085
Once refined oil produced..... 1,000 pounds	43,278	39,573	40,728
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	49,876	44,740	38,362
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	44,809	40,074	43,000
Crude oil on hand end of month..... 1,000 pounds	(D)	(D)	15,140
Once refined oil on hand end of month..... 1,000 pounds	32,087	18,203	19,901
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	65,556	80,690	74,132
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	56,306	85,341	106,053
Corn			
Crush			
Crude oil produced..... 1,000 pounds	171,868	175,563	168,245
Refine			
Crude oil processed in refining..... 1,000 pounds	178,687	183,536	171,439
Once refined oil produced..... 1,000 pounds	173,240	178,099	166,320
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	167,564	178,049	167,055
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	43,590	32,306	45,397
Once refined oil on hand end of month..... 1,000 pounds	60,863	49,527	36,208

See footnote(s) at end of table.

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

Item	September 2018	August 2019	September 2019
Palm kernel			
Consumption			
Once refined oil removed for use in processing.....1,000 pounds	22,663	17,747	19,961
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	66,754	75,589	73,298
Palm			
Consumption			
Once refined oil removed for use in processing.....1,000 pounds	193,832	195,158	215,116
Removed for edible use in processing1,000 pounds	188,743	185,091	204,457
Removed for inedible use in processing.....1,000 pounds	5,089	10,067	10,659
Stocks			
Once refined oil on hand end of month1,000 pounds	291,115	338,324	343,853
Peanut			
Refine			
Crude oil processed in refining.....1,000 pounds	33,096	33,112	33,907
Once refined oil produced.....1,000 pounds	32,024	31,783	32,342
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	29,067	32,079	33,278
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	49,576	22,955	17,986
Once refined oil on hand end of month1,000 pounds	(D)	(D)	(D)
Safflower			
Refine			
Crude oil processed in refining.....1,000 pounds	(D)	2,819	3,029
Once refined oil produced.....1,000 pounds	(D)	2,819	3,029
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)	4,971	4,633
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	10,855	9,391	4,923
Once refined oil on hand end of month1,000 pounds	(D)	(D)	(D)
Sunflower			
Refine			
Crude oil processed in refining.....1,000 pounds	43,763	42,341	42,907
Once refined oil produced.....1,000 pounds	41,089	39,898	40,298
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)	42,714	34,462
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	32,399	32,010	19,478
Once refined oil on hand end of month1,000 pounds	40,043	25,967	22,053
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)

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

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

Item	September 2018 (1,000 pounds)	August 2019 (1,000 pounds)	September 2019 (1,000 pounds)
Choice white grease			
Production.....	103,973	107,277	106,205
Removed for inedible use.....	102,781	105,231	105,495
Stocks on hand end of month.....	8,136	6,610	7,170
Feather meal			
Production.....	74,383	113,157	99,985
Stocks on hand end of month.....	23,446	29,091	24,864
Lard			
Production.....	26,339	30,142	25,735
Removed for use in processing.....	27,345	29,593	25,484
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	13,111	18,726	16,442
Meat meal, meat and bone meal, and dry rendered tankage			
Production.....	498,512	519,331	485,469
Stocks on hand end of month.....	70,513	69,101	66,061
Other grease			
Production.....	55,198	43,114	32,949
Removed for inedible use in processing.....	53,128	39,233	32,647
Stocks on hand end of month.....	(D)	(D)	(D)
Poultry fats			
Production.....	171,974	233,381	212,829
Removed for inedible use in processing.....	165,937	229,882	214,586
Stocks on hand end of month.....	25,101	30,156	28,511
Poultry by-product meals			
Production.....	224,917	293,603	282,934
Stocks on hand end of month.....	67,070	39,936	36,148
Tallow, edible			
Production.....	77,169	87,170	72,593
Removed for use in processing.....	79,866	95,539	78,050
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	31,362	16,329	17,094
Tallow, inedible			
Production.....	330,273	314,554	299,506
Removed for inedible use in processing.....	322,109	315,257	291,256
Stocks on hand end of month.....	113,645	89,548	97,593
Tallow, technical			
Production.....	108,805	118,603	94,926
Removed for inedible use in processing.....	118,993	129,950	103,751
Stocks on hand end of month.....	(D)	(D)	7,422
Yellow grease			
Production.....	195,794	185,547	190,401
Removed for inedible use in processing.....	200,096	178,051	182,983
Stocks on hand end of month.....	108,275	94,497	100,874

(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.

Lance Honig, Chief, Crops Branch.....	(202) 720-2127
Anthony Prillaman, Head, Field Crops Section.....	(202) 720-2127
David Colwell – Current Agricultural Industrial Reports	(202) 720-8800
Chris Hawthorn – 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
Jean Porter – Rye, Wheat	(202) 720-8068
Chris Singh – Cotton, Cotton Ginnings, Sorghum	(202) 720-5944
Travis Thorson – Sunflower, Other Oilseeds	(202) 720-7369

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