



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

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Highlights

November 2019 contained 30 days.

December 2019 contained 31 days.

Soybeans crushed for crude oil was 5.54 million tons (185 million bushels) in December 2019, compared with 5.24 million tons (175 million bushels) in November 2019 and 5.51 million tons (184 million bushels) in December 2018. Crude oil produced was 2.11 billion pounds up 6 percent from November 2019 but down 1 percent from December 2018. Soybean once refined oil production at 1.36 billion pounds during December 2019 increased slightly from November 2019 but decreased 6 percent from December 2018.

Canola seeds crushed for crude oil was 176,638 tons in December 2019, compared with 152,430 tons in November 2019 and 156,703 tons in December 2018. Canola crude oil produced was 147 million pounds, up 16 percent from November 2019 and up 9 percent from December 2018. Canola once refined oil production, at 105 million pounds during December 2019, was up 9 percent from November 2019 but down 18 percent from December 2018.

Cottonseed once refined oil production, at 51.6 million pounds during December 2019, was up 25 percent from November 2019 and up 17 percent from December 2018.

Edible tallow production was 87.3 million pounds during December 2019, down 3 percent from November 2019 but up 21 percent from December 2018. Inedible tallow production was 318 million pounds during December 2019, down 7 percent from November 2019 and down 6 percent from December 2018. Technical tallow production was 105 million pounds during December 2019, down 11 percent from November 2019 and down 4 percent from December 2018. Choice white grease production, at 113 million pounds during December 2019, decreased 7 percent from November 2019 and decreased 5 percent from December 2018.

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

Item	December 2018	November 2019	December 2019
Crush			
Soybeans crushed	5,513,266	5,239,452	5,542,274
Crude oil produced.....	2,135,370	1,999,648	2,110,936
Cake and meal produced	4,016,547	3,855,827	4,062,929
For animal feed	3,971,237	3,813,221	4,013,049
For edible protein products.....	45,310	42,606	49,880
Millfeed produced.....	279,141	255,945	274,643
Refine			
Crude oil processed in refining.....	1,479,059	1,397,170	1,389,872
Once refined oil produced	1,451,026	1,362,343	1,363,403
Consumption			
Crude oil removed for inedible use in processing	119,209	106,331	112,132
Once refined oil removed for use in processing.....	1,522,135	1,400,401	1,407,060
Removed for edible use in processing.....	1,057,677	1,013,344	1,018,050
Removed for inedible use in processing.....	464,458	387,057	389,010
Stocks			
Cake and meal on hand end of month.....	394,444	426,332	342,085
Millfeed on hand end of month	40,662	41,081	34,987
Crude oil on hand end of month	1,601,770	1,522,923	1,709,323
Crusher	712,207	739,832	830,219
Refiner	419,604	392,630	413,425
Offsite	469,959	390,461	465,679
Once refined oil on hand end of month.....	344,078	357,435	384,641

Soybean Crushing – Regional: December 2019 with Comparisons

Region	Soybeans crushed		
	December 2018	November 2019	December 2019
	(tons)	(tons)	(tons)
Illinois	675,141	613,808	671,352
Iowa	1,179,436	1,040,264	1,132,541
North and East ¹	1,279,947	1,227,011	1,303,311
North Central ²	755,401	775,266	819,147
South, West and Pacific ³	668,333	653,676	680,364
West Central ⁴	955,008	929,427	935,559
Region	Crude oil produced		
	December 2018	November 2019	December 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	272,127	234,749	263,719
Iowa	456,423	397,636	429,602
North and East ¹	496,433	467,445	497,540
North Central ²	285,743	290,754	297,572
South, West and Pacific ³	260,729	252,658	260,953
West Central ⁴	363,915	356,406	361,550
Region	Crude oil stocks at crusher		
	December 2018	November 2019	December 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	(D)	117,153	156,367
Iowa	130,165	150,248	160,311
North and East ¹	188,844	193,446	224,720
North Central ²	219,994	176,423	189,297
South, West and Pacific ³	43,640	62,768	51,790
West Central ⁴	(D)	39,794	47,734
Region	Cake and meal produced		
	December 2018	November 2019	December 2019
	(tons)	(tons)	(tons)
Illinois	483,119	447,210	493,441
Iowa	863,905	767,357	831,942
North and East ¹	932,675	903,978	949,863
North Central ²	556,485	570,693	605,570
South, West and Pacific ³	479,883	476,279	487,156
West Central ⁴	700,480	690,310	694,957
Region	Cake and meal stocks		
	December 2018	November 2019	December 2019
	(tons)	(tons)	(tons)
Illinois	64,375	88,658	99,599
Iowa	55,143	62,898	43,441
North and East ¹	77,385	110,754	54,872
North Central ²	57,894	51,934	38,531
South, West and Pacific ³	74,585	70,733	61,569
West Central ⁴	65,062	41,355	44,073

(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: December 2019
with Comparisons**

Item	December 2018	November 2019	December 2019
Canola			
Crush			
Seeds crushed..... tons	156,703	152,430	176,638
Crude oil produced..... 1,000 pounds	134,385	126,680	146,680
Cake and meal produced..... tons	90,257	85,255	98,585
Refine			
Crude oil processed in refining..... 1,000 pounds	130,359	99,526	108,757
Once refined oil produced..... 1,000 pounds	127,271	96,258	104,895
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	145,845	159,520	149,171
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	107,716	39,937	37,280
Once refined oil on hand end of month..... 1,000 pounds	100,815	101,435	93,469
Cottonseed			
Crush			
Seeds crushed..... tons	164,636	166,802	180,224
Crude oil produced..... 1,000 pounds	40,867	46,501	50,329
Cake and meal produced..... tons	72,579	83,584	81,474
Refine			
Crude oil processed in refining..... 1,000 pounds	45,709	42,460	53,311
Once refined oil produced..... 1,000 pounds	44,162	41,245	51,626
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	45,266	36,762	46,476
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	39,731	37,279	30,833
Crude oil on hand end of month..... 1,000 pounds	(D)	(D)	(D)
Once refined oil on hand end of month..... 1,000 pounds	31,421	28,744	30,272
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	84,858	75,105	64,062
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	68,507	160,168	(D)
Corn			
Crush			
Crude oil produced..... 1,000 pounds	182,557	184,240	192,001
Refine			
Crude oil processed in refining..... 1,000 pounds	202,940	165,650	201,355
Once refined oil produced..... 1,000 pounds	197,573	160,858	195,936
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	182,586	166,129	178,613
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	27,800	29,096	42,071
Once refined oil on hand end of month..... 1,000 pounds	69,825	35,207	49,161

See footnote(s) at end of table.

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

Item	December 2018	November 2019	December 2019
Palm kernel			
Consumption			
Once refined oil removed for use in processing.....1,000 pounds	18,815	18,990	17,705
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	61,586	69,665	78,386
Palm			
Consumption			
Once refined oil removed for use in processing.....1,000 pounds	200,727	187,136	196,448
Removed for edible use in processing1,000 pounds	190,060	181,093	190,304
Removed for inedible use in processing.....1,000 pounds	10,667	6,043	6,144
Stocks			
Once refined oil on hand end of month1,000 pounds	316,297	349,978	335,741
Peanut			
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	(D)	29,409	(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	39,352	10,489	11,513
Once refined oil on hand end of month1,000 pounds	(D)	(D)	(D)
Safflower			
Refine			
Crude oil processed in refining.....1,000 pounds	(D)	5,239	3,077
Once refined oil produced.....1,000 pounds	(D)	5,161	3,078
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)	5,919	5,270
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	12,655	6,680	4,578
Once refined oil on hand end of month1,000 pounds	1,524	2,391	1,914
Sunflower			
Refine			
Crude oil processed in refining.....1,000 pounds	42,336	60,201	42,881
Once refined oil produced.....1,000 pounds	39,581	56,939	40,824
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)	40,678	38,546
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	45,122	27,089	27,095
Once refined oil on hand end of month1,000 pounds	31,984	22,107	19,263
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: December 2019
with Comparisons**

Item	December 2018 (1,000 pounds)	November 2019 (1,000 pounds)	December 2019 (1,000 pounds)
Choice white grease			
Production.....	118,323	121,381	112,592
Removed for inedible use.....	117,817	119,349	110,495
Stocks on hand end of month.....	10,529	8,412	9,738
Feather meal			
Production.....	69,438	108,150	135,567
Stocks on hand end of month.....	21,893	31,085	29,940
Lard			
Production.....	31,050	35,471	30,755
Removed for use in processing.....	28,745	39,556	29,458
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	10,806	6,936	5,938
Meat meal, meat and bone meal, and dry rendered tankage			
Production.....	532,801	503,574	503,602
Stocks on hand end of month.....	69,521	81,020	64,960
Other grease			
Production.....	48,256	36,231	40,780
Removed for inedible use in processing.....	45,275	37,306	40,866
Stocks on hand end of month.....	(D)	(D)	(D)
Poultry fats			
Production.....	152,166	214,436	189,183
Removed for inedible use in processing.....	144,051	216,413	179,491
Stocks on hand end of month.....	23,351	24,463	31,499
Poultry by-product meals			
Production.....	217,282	334,032	265,867
Stocks on hand end of month.....	59,352	37,038	43,156
Tallow, edible			
Production.....	71,996	90,273	87,347
Removed for use in processing.....	73,631	103,440	80,078
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	32,114	10,578	17,847
Tallow, inedible			
Production.....	338,137	340,603	318,050
Removed for inedible use in processing.....	333,967	338,884	320,620
Stocks on hand end of month.....	106,214	105,168	100,782
Tallow, technical			
Production.....	109,646	118,257	104,855
Removed for inedible use in processing.....	115,666	125,901	103,871
Stocks on hand end of month.....	(D)	(D)	(D)
Yellow grease			
Production.....	181,964	164,352	184,020
Removed for inedible use in processing.....	179,845	178,363	179,097
Stocks on hand end of month.....	93,368	93,289	90,620

(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
Travis Thorson, 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
Irwin Anolik – 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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