



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

ISSN: 2379-9862

Released May 3, 2021, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, United States Department of Agriculture (USDA).

Highlights

February 2021 contained 28 days.

March 2021 contained 31 days.

Soybeans crushed for crude oil was 5.65 million tons (188 million bushels) in March 2021, compared with 4.93 million tons (164 million bushels) in February 2021 and 5.76 million tons (192 million bushels) in March 2020. Crude oil produced was 2.22 billion pounds up 15 percent from February 2021 and up 1 percent from March 2020. Soybean once refined oil production at 1.76 billion pounds during March 2021 increased 22 percent from February 2021 and increased 10 percent from March 2020.

Canola seeds crushed for crude oil was 207,096 tons in March 2021, compared with 162,675 tons in February 2021 and 187,954 tons in March 2020. Canola crude oil produced was 172 million pounds, up 26 percent from February 2021 and up 7 percent from March 2020. Canola once refined oil production, at 155 million pounds during March 2021, was up 14 percent from February 2021 and up 27 percent from March 2020.

Cottonseed once refined oil production, at 43.2 million pounds during March 2021, was up 73 percent from February 2021 and up less than 1 percent from March 2020.

Edible tallow production was 85.5 million pounds during March 2021, down 5 percent from February 2021 and down 8 percent from March 2020. Inedible tallow production was 366 million pounds during March 2021, up 26 percent from February 2021 and up 9 percent from March 2020. Technical tallow production was 109 million pounds during March 2021, up 12 percent from February 2021 but down 4 percent from March 2020. Choice white grease production, at 109 million pounds during March 2021, increased 1 percent from February 2021 but decreased 14 percent from March 2020.

**Soybean Crushing, Production, Consumption and Stocks – United States: March 2021
with Comparisons**

Item	March 2020	February 2021	March 2021
Crush			
Soybeans crushed..... tons	5,764,867	4,930,499	5,646,728
Crude oil produced.....1,000 pounds	2,201,068	1,924,749	2,222,123
Cake and meal produced..... tons	4,234,605	3,652,574	4,181,300
For animal feed..... tons	4,179,583	3,607,780	4,128,686
For edible protein products..... tons	55,022	44,794	52,614
Millfeed produced..... tons	283,308	266,097	295,287
Refine			
Crude oil processed in refining.....1,000 pounds	1,634,117	1,473,714	1,799,682
Once refined oil produced.....1,000 pounds	1,596,738	1,444,542	1,756,293
Consumption			
Crude oil removed for inedible use in processing.....1,000 pounds	107,897	90,729	168,184
Once refined oil removed for use in processing.....1,000 pounds	1,583,459	1,435,783	1,809,582
Removed for edible use in processing.....1,000 pounds	1,182,312	1,099,893	1,262,853
Removed for inedible use in processing.....1,000 pounds	401,147	335,890	546,729
Stocks			
Cake and meal on hand end of month..... tons	368,552	544,178	415,418
Millfeed on hand end of month..... tons	46,497	39,885	32,322
Crude oil on hand end of month.....1,000 pounds	1,933,648	1,870,825	1,864,100
Crusher.....1,000 pounds	856,124	953,464	881,363
Refiner.....1,000 pounds	407,465	293,656	283,755
Offsite.....1,000 pounds	670,059	623,705	698,982
Once refined oil on hand end of month.....1,000 pounds	392,946	435,163	381,178

Soybean Crushing – Regional: March 2021 with Comparisons

Region	Soybeans crushed		
	March 2020	February 2021	March 2021
	(tons)	(tons)	(tons)
Illinois	635,912	564,364	650,305
Iowa.....	1,195,974	1,006,599	1,184,103
North and East ¹	1,315,398	1,148,657	1,249,030
North Central ²	917,472	834,276	948,475
South, West and Pacific ³	717,311	634,444	653,920
West Central ⁴	982,800	742,159	960,895
Region	Crude oil produced		
	March 2020	February 2021	March 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	249,561	218,358	257,144
Iowa.....	454,269	403,783	473,760
North and East ¹	505,281	445,826	486,457
North Central ²	337,357	310,461	365,803
South, West and Pacific ³	275,266	240,881	252,520
West Central ⁴	379,334	305,440	386,439
Region	Crude oil stocks at crusher		
	March 2020	February 2021	March 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	125,429	165,256	116,301
Iowa.....	201,124	167,119	159,091
North and East ¹	189,326	206,603	186,154
North Central ²	206,518	228,318	253,489
South, West and Pacific ³	60,372	63,474	68,880
West Central ⁴	73,355	122,694	97,448
Region	Cake and meal produced		
	March 2020	February 2021	March 2021
	(tons)	(tons)	(tons)
Illinois	461,604	412,468	474,100
Iowa.....	874,779	745,792	877,859
North and East ¹	971,216	852,001	922,999
North Central ²	677,063	629,941	709,801
South, West and Pacific ³	524,541	466,874	479,929
West Central ⁴	725,402	545,498	716,612
Region	Cake and meal stocks		
	March 2020	February 2021	March 2021
	(tons)	(tons)	(tons)
Illinois	64,793	115,901	71,222
Iowa.....	59,254	77,897	58,250
North and East ¹	101,508	145,741	137,616
North Central ²	50,888	88,176	86,273
South, West and Pacific ³	39,831	46,045	18,042
West Central ⁴	52,278	70,418	44,015

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 2021
with Comparisons**

Item	March 2020	February 2021	March 2021
Canola			
Crush			
Seeds crushed..... tons	187,954	162,675	207,096
Crude oil produced.....1,000 pounds	160,872	136,767	172,196
Cake and meal produced..... tons	104,055	94,840	115,712
Refine			
Crude oil processed in refining.....1,000 pounds	126,796	140,840	160,686
Once refined oil produced.....1,000 pounds	122,378	136,031	155,434
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	167,895	147,849	156,722
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)	33,429	28,741
Crude oil on hand end of month.....1,000 pounds	59,058	55,844	49,785
Once refined oil on hand end of month.....1,000 pounds	74,609	81,667	78,543
Cottonseed			
Crush			
Seeds crushed..... tons	157,799	104,256	161,253
Crude oil produced.....1,000 pounds	43,497	30,911	43,654
Cake and meal produced..... tons	70,760	49,642	70,175
Refine			
Crude oil processed in refining.....1,000 pounds	44,506	25,578	44,452
Once refined oil produced.....1,000 pounds	43,096	24,925	43,209
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	41,144	34,426	40,352
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	24,175	18,617	20,345
Crude oil on hand end of month.....1,000 pounds	30,647	29,212	29,202
Once refined oil on hand end of month.....1,000 pounds	32,830	16,212	20,989
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	63,953	52,611	56,841
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)	56,115	38,368
Once refined oil on hand end of month.....1,000 pounds	(D)	(D)	(D)
Corn			
Crush			
Crude oil produced.....1,000 pounds	179,254	136,172	166,495
Refine			
Crude oil processed in refining.....1,000 pounds	177,260	130,641	169,962
Once refined oil produced.....1,000 pounds	172,537	127,505	167,110
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	186,508	119,626	(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	39,481	64,953	64,532
Once refined oil on hand end of month.....1,000 pounds	38,905	59,692	59,370

See footnote(s) at end of table.

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Selected Oilseed Crushing, Production, Consumption and Stocks – United States: March 2021 with Comparisons (continued)

Item	March 2020	February 2021	March 2021
Palm kernel			
Consumption			
Once refined oil removed for use in processing..... 1,000 pounds	22,811	52,267	65,502
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	54,193	73,793	52,938
Palm			
Consumption			
Once refined oil removed for use in processing..... 1,000 pounds	206,697	199,571	229,311
Removed for edible use in processing 1,000 pounds	199,622	193,866	224,208
Removed for inedible use in processing..... 1,000 pounds	7,075	5,705	5,103
Stocks			
Once refined oil on hand end of month..... 1,000 pounds	345,978	243,142	249,057
Peanut			
Refine			
Crude oil processed in refining..... 1,000 pounds	20,572	(D)	(D)
Once refined oil produced..... 1,000 pounds	19,930	(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	22,485	(D)	19,336
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	14,157	8,952	11,843
Once refined oil on hand end of month..... 1,000 pounds	(D)	(D)	(D)
Safflower			
Refine			
Crude oil processed in refining..... 1,000 pounds	4,857	2,267	2,024
Once refined oil produced..... 1,000 pounds	4,802	2,143	1,936
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	6,287	4,511	3,225
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	2,476	(D)	(D)
Sunflower			
Refine			
Crude oil processed in refining..... 1,000 pounds	49,758	52,038	43,791
Once refined oil produced..... 1,000 pounds	46,869	50,264	41,371
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	38,421	36,726	37,737
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	38,384	52,114	61,607
Once refined oil on hand end of month..... 1,000 pounds	22,322	27,562	23,902
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: March 2021
with Comparisons**

Item	March 2020 (1,000 pounds)	February 2021 (1,000 pounds)	March 2021 (1,000 pounds)
Choice white grease			
Production.....	126,508	108,286	108,982
Removed for inedible use.....	126,385	111,633	107,621
Stocks on hand end of month.....	10,045	9,877	11,238
Feather meal			
Production.....	101,749	86,309	83,049
Stocks on hand end of month.....	20,707	14,905	15,568
Lard			
Production.....	30,473	22,389	16,608
Removed for use in processing.....	28,897	24,448	18,990
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	9,210	9,621	8,349
Meat meal, meat and bone meal, and dry rendered tankage			
Production.....	515,537	424,692	515,581
Stocks on hand end of month.....	62,079	73,567	68,097
Other grease			
Production.....	40,066	30,832	39,492
Removed for inedible use in processing.....	37,590	31,214	42,624
Stocks on hand end of month.....	(D)	(D)	7,046
Poultry fats			
Production.....	210,153	174,726	177,612
Removed for inedible use in processing.....	212,712	173,515	181,765
Stocks on hand end of month.....	28,407	29,386	25,233
Poultry by-product meals			
Production.....	289,530	277,931	291,987
Stocks on hand end of month.....	34,110	53,923	43,638
Tallow, edible			
Production.....	92,659	90,103	85,476
Removed for use in processing.....	101,170	96,063	87,112
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	7,379	(D)	(D)
Tallow, inedible			
Production.....	336,650	290,555	366,254
Removed for inedible use in processing.....	337,869	280,464	369,536
Stocks on hand end of month.....	99,328	105,210	(D)
Tallow, technical			
Production.....	114,294	97,483	109,266
Removed for inedible use in processing.....	114,156	98,049	111,236
Stocks on hand end of month.....	(D)	(D)	(D)
Yellow grease			
Production.....	201,657	152,284	211,654
Removed for inedible use in processing.....	205,367	146,927	194,737
Stocks on hand end of month.....	88,627	81,153	98,068

(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@usda.gov

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Joshua Bates – Oats, Soybeans	(202) 690-3234
David Colwell – Current Agricultural Industrial Reports.....	(202) 720-8800
Becky Sommer – Cotton, Cotton Ginnings, Sorghum.....	(202) 720-5944
James Johanson – Barley, County Estimates, Hay	(202) 690-8533
Greg Lemmons – Corn, Flaxseed, Proso Millet	(202) 720-9526
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John Stephens – Peanuts, Rice.....	(202) 720-7688
Travis Thorson – Sunflower, Other Oilseeds	(202) 720-7369

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