



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

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Highlights

December 2020 contained 30 days.

January 2021 contained 31 days.

Soybeans crushed for crude oil was 5.90 million tons (197 million bushels) in January 2021, compared with 5.79 million tons (193 million bushels) in December 2020 and 5.66 million tons (189 million bushels) in January 2020. Crude oil produced was 2.31 billion pounds up 3 percent from December 2020 and up 7 percent from January 2020. Soybean once refined oil production at 1.59 billion pounds during January 2021 increased 1 percent from December 2020 and increased 13 percent from January 2020.

Canola seeds crushed for crude oil was 186,114 tons in January 2021, compared with 215,502 tons in December 2020 and 167,209 tons in January 2020. Canola crude oil produced was 157 million pounds, down 11 percent from December 2020 but up 13 percent from January 2020. Canola once refined oil production, at 138 million pounds during January 2021, was down 4 percent from December 2020 but up 37 percent from January 2020.

Cottonseed once refined oil production, at 39.9 million pounds during January 2021, was up 15 percent from December 2020 but down 8 percent from January 2020.

Edible tallow production was 73.1 million pounds during January 2021, down less than 1 percent from December 2020 and down 10 percent from January 2020. Inedible tallow production was 266 million pounds during January 2021, up 1 percent from December 2020 but down 10 percent from January 2020. Technical tallow production was 88.4 million pounds during January 2021, up 4 percent from December 2020 but down 14 percent from January 2020. Choice white grease production, at 111 million pounds during January 2021, increased less than 1 percent from December 2020 but decreased 4 percent from January 2020.

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

Item	January 2020	December 2020	January 2021
Crush			
Soybeans crushed	5,663,403	5,794,233	5,895,360
Crude oil produced.....	2,154,427	2,233,486	2,308,752
Cake and meal produced	4,144,355	4,235,822	4,353,068
For animal feed	4,089,068	4,190,556	4,294,634
For edible protein products.....	55,287	45,266	58,434
Millfeed produced.....	281,394	305,109	312,586
Refine			
Crude oil processed in refining.....	1,442,642	1,614,330	1,620,678
Once refined oil produced	1,408,135	1,576,008	1,587,925
Consumption			
Crude oil removed for inedible use in processing	95,472	148,651	109,089
Once refined oil removed for use in processing.....	1,428,464	1,614,446	1,559,029
Removed for edible use in processing.....	1,086,568	1,118,660	1,147,158
Removed for inedible use in processing	341,896	495,786	411,871
Stocks			
Cake and meal on hand end of month.....	302,321	308,933	512,393
Millfeed on hand end of month	42,612	50,460	43,408
Crude oil on hand end of month	1,989,164	1,717,305	1,882,069
Crusher	862,567	781,381	915,444
Refiner	467,764	277,490	287,889
Offsite	658,833	658,434	678,736
Once refined oil on hand end of month.....	366,733	393,481	423,922

Soybean Crushing – Regional: January 2021 with Comparisons

Region	Soybeans crushed		
	January 2020	December 2020	January 2021
	(tons)	(tons)	(tons)
Illinois	680,082	676,653	687,830
Iowa	1,149,329	1,206,389	1,208,731
North and East ¹	1,331,469	1,286,949	1,317,875
North Central ²	819,487	932,895	960,834
South, West and Pacific ³	688,347	726,266	745,378
West Central ⁴	994,689	965,081	974,712
Region	Crude oil produced		
	January 2020	December 2020	January 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	262,992	256,308	268,997
Iowa	437,677	479,689	481,259
North and East ¹	505,365	496,703	512,987
North Central ²	301,556	355,533	374,035
South, West and Pacific ³	264,035	272,543	281,129
West Central ⁴	382,802	372,710	390,345
Region	Crude oil stocks at crusher		
	January 2020	December 2020	January 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	188,981	97,208	160,382
Iowa	175,855	131,349	150,240
North and East ¹	202,076	191,111	211,885
North Central ²	190,088	195,616	217,147
South, West and Pacific ³	(D)	53,892	60,877
West Central ⁴	(D)	112,205	114,913
Region	Cake and meal produced		
	January 2020	December 2020	January 2021
	(tons)	(tons)	(tons)
Illinois	494,229	479,154	504,380
Iowa	839,810	884,343	893,538
North and East ¹	978,893	947,899	974,209
North Central ²	602,353	695,890	716,110
South, West and Pacific ³	500,257	524,963	545,471
West Central ⁴	728,813	703,573	719,360
Region	Cake and meal stocks		
	January 2020	December 2020	January 2021
	(tons)	(tons)	(tons)
Illinois	(D)	59,441	100,432
Iowa	45,618	35,518	71,100
North and East ¹	68,352	95,399	131,145
North Central ²	35,194	39,779	83,151
South, West and Pacific ³	(D)	21,579	64,494
West Central ⁴	44,905	57,217	62,071

(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: January 2021
with Comparisons**

Item	January 2020	December 2020	January 2021
Canola			
Crush			
Seeds crushed..... tons	167,209	215,502	186,114
Crude oil produced..... 1,000 pounds	139,259	176,692	156,818
Cake and meal produced..... tons	94,339	118,867	105,473
Refine			
Crude oil processed in refining..... 1,000 pounds	103,581	148,439	142,925
Once refined oil produced..... 1,000 pounds	100,610	143,441	137,882
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	163,709	164,192	143,157
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)	32,636	34,394
Crude oil on hand end of month..... 1,000 pounds	48,991	66,052	67,096
Once refined oil on hand end of month..... 1,000 pounds	85,492	98,555	117,918
Cottonseed			
Crush			
Seeds crushed..... tons	156,040	158,998	139,266
Crude oil produced..... 1,000 pounds	44,333	42,474	37,848
Cake and meal produced..... tons	68,924	69,927	59,258
Refine			
Crude oil processed in refining..... 1,000 pounds	44,568	35,697	41,233
Once refined oil produced..... 1,000 pounds	43,282	34,654	39,883
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	47,720	44,584	38,392
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	20,752	15,677	13,461
Crude oil on hand end of month..... 1,000 pounds	(D)	27,085	24,104
Once refined oil on hand end of month..... 1,000 pounds	24,878	24,337	26,047
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	67,050	54,241	47,191
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)	65,241	69,352
Once refined oil on hand end of month..... 1,000 pounds	(D)	57,182	50,295
Corn			
Crush			
Crude oil produced..... 1,000 pounds	178,461	170,910	170,099
Refine			
Crude oil processed in refining..... 1,000 pounds	181,875	164,340	190,988
Once refined oil produced..... 1,000 pounds	177,405	161,920	188,389
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	168,217	(D)	180,999
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	19,549	61,020	56,075
Once refined oil on hand end of month..... 1,000 pounds	49,046	78,915	63,176

See footnote(s) at end of table.

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

Item	January 2020	December 2020	January 2021
Palm kernel			
Consumption			
Once refined oil removed for use in processing.....1,000 pounds	26,972	50,062	56,896
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	53,070	74,883	68,643
Palm			
Consumption			
Once refined oil removed for use in processing.....1,000 pounds	201,060	230,568	205,203
Removed for edible use in processing1,000 pounds	197,211	224,958	200,602
Removed for inedible use in processing.....1,000 pounds	3,849	5,610	4,601
Stocks			
Once refined oil on hand end of month1,000 pounds	335,660	261,988	281,712
Peanut			
Refine			
Crude oil processed in refining.....1,000 pounds	(D)	26,560	19,960
Once refined oil produced.....1,000 pounds	(D)	25,230	19,224
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)	24,576	21,028
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	13,381	10,684	12,314
Once refined oil on hand end of month1,000 pounds	(D)	(D)	(D)
Safflower			
Refine			
Crude oil processed in refining.....1,000 pounds	4,012	3,276	3,951
Once refined oil produced.....1,000 pounds	4,013	3,334	3,884
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	7,455	5,486	4,162
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	12,679	6,685	9,381
Once refined oil on hand end of month1,000 pounds	1,540	1,285	1,752
Sunflower			
Refine			
Crude oil processed in refining.....1,000 pounds	48,484	48,107	44,939
Once refined oil produced.....1,000 pounds	45,441	47,935	43,632
Consumption			
Crude oil removed for inedible use in processing.....1,000 pounds	3,521	(D)	(D)
Once refined oil removed for use in processing.....1,000 pounds	40,675	39,278	37,402
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	33,165	55,877	44,004
Once refined oil on hand end of month1,000 pounds	18,721	23,557	22,564
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: January 2021
with Comparisons**

Item	January 2020 (1,000 pounds)	December 2020 (1,000 pounds)	January 2021 (1,000 pounds)
Choice white grease			
Production.....	115,706	110,632	111,141
Removed for inedible use.....	114,833	114,200	107,495
Stocks on hand end of month.....	10,611	9,577	13,223
Feather meal			
Production.....	100,659	96,594	92,331
Stocks on hand end of month.....	25,793	24,797	28,465
Lard			
Production.....	27,580	24,185	20,657
Removed for use in processing.....	27,257	22,969	20,298
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	8,970	8,599	10,355
Meat meal, meat and bone meal, and dry rendered tankage			
Production.....	461,192	440,433	415,632
Stocks on hand end of month.....	64,873	68,558	72,550
Other grease			
Production.....	38,806	38,730	34,500
Removed for inedible use in processing.....	37,370	39,049	34,750
Stocks on hand end of month.....	(D)	(D)	(D)
Poultry fats			
Production.....	200,807	195,729	168,578
Removed for inedible use in processing.....	201,075	191,565	173,780
Stocks on hand end of month.....	31,231	32,605	27,403
Poultry by-product meals			
Production.....	284,114	268,235	268,216
Stocks on hand end of month.....	39,631	44,281	48,502
Tallow, edible			
Production.....	80,744	73,204	73,053
Removed for use in processing.....	79,094	72,403	74,711
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	18,924	(D)	22,683
Tallow, inedible			
Production.....	295,633	264,828	266,352
Removed for inedible use in processing.....	291,921	270,562	262,077
Stocks on hand end of month.....	104,494	90,847	95,120
Tallow, technical			
Production.....	103,163	84,720	88,391
Removed for inedible use in processing.....	107,927	85,516	86,692
Stocks on hand end of month.....	(D)	(D)	(D)
Yellow grease			
Production.....	175,195	179,928	169,921
Removed for inedible use in processing.....	163,724	178,621	182,044
Stocks on hand end of month.....	102,091	88,033	75,911

(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
Jean Porter – Rye, Wheat.....	(202) 720-8068
John Stephens – Peanuts, Rice.....	(202) 720-7688
Travis Thorson – Sunflower, Other Oilseeds.....	(202) 720-7369

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