



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

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Highlights

August 2021 contained 31 days.

September 2021 contained 30 days.

Soybeans crushed for crude oil was 4.92 million tons (164 million bushels) in September 2021, compared with 5.05 million tons (168 million bushels) in August 2021 and 5.13 million tons (171 million bushels) in September 2020. Crude oil produced was 1.94 billion pounds down 3 percent from August 2021 and down 1 percent from September 2020. Soybean once refined oil production at 1.93 billion pounds during September 2021 increased 18 percent from August 2021 and increased 25 percent from September 2020.

Canola seeds crushed for crude oil was 168,464 tons in September 2021, compared with 131,150 tons in August 2021 and 208,338 tons in September 2020. Canola crude oil produced was 136 million pounds, up 31 percent from August 2021 but down 22 percent from September 2020. Canola once refined oil production, at 139 million pounds during September 2021, was up 19 percent from August 2021 but down 15 percent from September 2020.

Cottonseed once refined oil production, at 23.8 million pounds during September 2021, was down 29 percent from August 2021 and down 37 percent from September 2020.

Edible tallow production was 76.6 million pounds during September 2021, down 8 percent from August 2021 and down 15 percent from September 2020. Inedible tallow production was 350 million pounds during September 2021, up 2 percent from August 2021 and up 7 percent from September 2020. Technical tallow production was 125 million pounds during September 2021, down 1 percent from August 2021 and down 6 percent from September 2020. Choice white grease production, at 103 million pounds during September 2021, increased 6 percent from August 2021 but decreased 3 percent from September 2020.

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

Item	September 2020	August 2021	September 2021
Crush			
Soybeans crushed..... tons	5,131,665	5,047,776	4,924,574
Crude oil produced.....1,000 pounds	1,967,621	1,989,733	1,938,212
Cake and meal produced..... tons	3,754,168	3,728,116	3,604,266
For animal feed..... tons	3,704,259	3,672,915	3,548,734
For edible protein products..... tons	49,909	55,201	55,532
Millfeed produced..... tons	255,248	267,178	263,385
Refine			
Crude oil processed in refining.....1,000 pounds	1,576,908	1,670,680	1,966,548
Once refined oil produced.....1,000 pounds	1,540,809	1,629,162	1,925,664
Consumption			
Crude oil removed for inedible use in processing.....1,000 pounds	134,972	109,209	132,374
Once refined oil removed for use in processing.....1,000 pounds	1,564,674	1,598,981	1,968,365
Removed for edible use in processing.....1,000 pounds	1,111,465	1,189,459	1,567,988
Removed for inedible use in processing.....1,000 pounds	453,209	409,522	400,377
Stocks			
Cake and meal on hand end of month..... tons	312,944	344,741	306,923
Millfeed on hand end of month..... tons	28,392	38,771	33,863
Crude oil on hand end of month.....1,000 pounds	1,507,489	1,753,469	1,741,589
Crusher.....1,000 pounds	604,951	872,120	841,384
Refiner.....1,000 pounds	328,136	282,751	267,363
Offsite.....1,000 pounds	574,402	598,598	632,842
Once refined oil on hand end of month.....1,000 pounds	345,186	429,972	435,237

Soybean Crushing – Regional: September 2021 with Comparisons

Region	Soybeans crushed		
	September 2020	August 2021	September 2021
	(tons)	(tons)	(tons)
Illinois	596,321	523,927	567,436
Iowa.....	1,129,883	1,127,643	1,054,862
North and East ¹	1,197,052	1,095,494	1,181,329
North Central ²	785,032	892,792	803,971
South, West and Pacific ³	582,097	680,532	537,592
West Central ⁴	841,280	727,388	779,384
Region	Crude oil produced		
	September 2020	August 2021	September 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	234,411	211,996	223,398
Iowa.....	435,255	445,121	419,249
North and East ¹	459,483	427,196	464,280
North Central ²	288,812	341,412	308,351
South, West and Pacific ³	225,880	261,757	207,227
West Central ⁴	323,780	302,251	315,707
Region	Crude oil stocks at crusher		
	September 2020	August 2021	September 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	70,521	112,312	108,843
Iowa.....	98,426	145,444	107,518
North and East ¹	128,751	211,380	241,363
North Central ²	149,224	179,711	179,751
South, West and Pacific ³	57,438	68,778	(D)
West Central ⁴	100,591	154,495	(D)
Region	Cake and meal produced		
	September 2020	August 2021	September 2021
	(tons)	(tons)	(tons)
Illinois	428,802	388,670	415,150
Iowa.....	827,995	832,106	777,831
North and East ¹	873,751	811,541	864,915
North Central ²	581,941	663,145	589,215
South, West and Pacific ³	424,571	492,360	388,317
West Central ⁴	617,108	540,294	568,838
Region	Cake and meal stocks		
	September 2020	August 2021	September 2021
	(tons)	(tons)	(tons)
Illinois	(D)	45,926	42,049
Iowa.....	30,215	50,248	42,677
North and East ¹	91,693	89,272	83,545
North Central ²	57,606	76,153	57,740
South, West and Pacific ³	20,300	43,427	37,665
West Central ⁴	(D)	39,715	43,247

(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 2021 with Comparisons

Item	September 2020	August 2021	September 2021
Canola			
Crush			
Seeds crushed..... tons	208,338	131,150	168,464
Crude oil produced..... 1,000 pounds	174,436	103,990	135,812
Cake and meal produced..... tons	121,434	74,518	97,932
Refine			
Crude oil processed in refining..... 1,000 pounds	169,510	120,960	143,631
Once refined oil produced..... 1,000 pounds	163,924	117,319	139,331
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	187,186	123,949	141,095
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	42,075	31,171	36,403
Crude oil on hand end of month..... 1,000 pounds	39,855	27,229	34,601
Once refined oil on hand end of month..... 1,000 pounds	92,021	100,832	103,791
Cottonseed			
Crush			
Seeds crushed..... tons	148,955	115,263	83,030
Crude oil produced..... 1,000 pounds	37,705	27,982	22,064
Cake and meal produced..... tons	61,105	49,598	35,538
Refine			
Crude oil processed in refining..... 1,000 pounds	38,576	34,605	24,609
Once refined oil produced..... 1,000 pounds	37,592	33,445	23,799
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	39,531	34,929	24,241
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	24,872	57,833	39,306
Crude oil on hand end of month..... 1,000 pounds	(D)	18,370	34,681
Once refined oil on hand end of month..... 1,000 pounds	27,939	13,605	13,527
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	62,021	64,427	60,581
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	60,283	120,225	69,201
Once refined oil on hand end of month..... 1,000 pounds	(D)	(D)	(D)
Corn			
Crush			
Crude oil produced..... 1,000 pounds	158,100	138,785	136,514
Refine			
Crude oil processed in refining..... 1,000 pounds	162,083	(D)	(D)
Once refined oil produced..... 1,000 pounds	156,064	(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	144,378	(D)	(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	48,703	81,948	89,968
Once refined oil on hand end of month..... 1,000 pounds	53,292	63,618	(D)

See footnote(s) at end of table.

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

Item	September 2020	August 2021	September 2021
Palm kernel			
Consumption			
Once refined oil removed for use in processing.....1,000 pounds	45,952	38,363	44,073
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 month.....1,000 pounds	72,289	39,510	43,174
Palm			
Consumption			
Once refined oil removed for use in processing.....1,000 pounds	237,079	232,760	233,376
Removed for edible use in processing1,000 pounds	231,220	221,147	227,836
Removed for inedible use in processing.....1,000 pounds	5,859	11,613	5,540
Stocks			
Once refined oil on hand end of month.....1,000 pounds	376,329	273,489	299,620
Peanut			
Refine			
Crude oil processed in refining.....1,000 pounds	26,279	33,820	25,205
Once refined oil produced.....1,000 pounds	24,096	31,731	24,600
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	22,711	30,197	22,553
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	24,993	(D)	(D)
Once refined oil on hand end of month.....1,000 pounds	(D)	(D)	(D)
Safflower			
Refine			
Crude oil processed in refining.....1,000 pounds	3,472	(D)	(D)
Once refined oil produced.....1,000 pounds	3,401	(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	4,895	(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	3,409	(D)	(D)
Once refined oil on hand end of month.....1,000 pounds	(D)	(D)	(D)
Sunflower			
Refine			
Crude oil processed in refining.....1,000 pounds	36,337	58,045	50,683
Once refined oil produced.....1,000 pounds	36,124	55,890	47,451
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	32,377	41,734	35,839
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	33,829	38,297	33,214
Once refined oil on hand end of month.....1,000 pounds	14,133	26,458	23,662
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 2021 with Comparisons

Item	September 2020 (1,000 pounds)	August 2021 (1,000 pounds)	September 2021 (1,000 pounds)
Choice white grease			
Production.....	105,618	96,856	102,844
Removed for inedible use.....	106,395	95,186	101,908
Stocks on hand end of month.....	9,317	6,313	7,249
Feather meal			
Production.....	108,896	84,291	78,093
Stocks on hand end of month.....	26,915	20,022	14,838
Lard			
Production.....	24,641	26,822	27,109
Removed for use in processing.....	28,742	26,340	27,491
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	6,644	6,514	6,132
Meat meal, meat and bone meal, and dry rendered tankage			
Production.....	501,547	426,608	488,265
Stocks on hand end of month.....	68,587	67,300	76,929
Other grease			
Production.....	41,658	61,586	42,562
Removed for inedible use in processing.....	43,021	63,770	41,247
Stocks on hand end of month.....	(D)	(D)	(D)
Poultry fats			
Production.....	237,473	176,931	176,139
Removed for inedible use in processing.....	238,683	173,836	173,157
Stocks on hand end of month.....	34,166	34,486	37,469
Poultry by-product meals			
Production.....	316,491	276,217	277,804
Stocks on hand end of month.....	46,057	76,506	109,547
Tallow, edible			
Production.....	90,142	83,690	76,604
Removed for use in processing.....	92,794	81,770	78,491
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	(D)	(D)	21,943
Tallow, inedible			
Production.....	328,260	343,173	349,813
Removed for inedible use in processing.....	330,149	335,046	328,779
Stocks on hand end of month.....	93,602	(D)	(D)
Tallow, technical			
Production.....	132,756	126,145	124,777
Removed for inedible use in processing.....	135,434	125,802	123,773
Stocks on hand end of month.....	(D)	(D)	(D)
Yellow grease			
Production.....	186,640	175,725	186,146
Removed for inedible use in processing.....	183,228	171,379	169,840
Stocks on hand end of month.....	93,843	104,378	120,684

(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
Michelle Harder – Barley, County Estimates, Hay	(202) 690-8533
James Johanson – Rye, Wheat.....	(202) 720-8068
Greg Lemmons – Corn, Flaxseed, Proso Millet	(202) 720-9526
Becky Sommer – Cotton, Cotton Ginnings, Sorghum.....	(202) 720-5944
Travis Thorson – Sunflower, Other Oilseeds	(202) 720-7369
Lihan Wei – Peanuts, Rice.....	(202) 720-7688

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For more information on NASS surveys and reports, call the NASS Agricultural Statistics Hotline at (800) 727-9540, 7:30 a.m. to 4:00 p.m. ET, or e-mail: nass@usda.gov.

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