



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

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Highlights

July 2022 contained 31 days.

August 2022 contained 31 days.

Soybeans crushed for crude oil was 5.25 million tons (175 million bushels) in August 2022, compared with 5.44 million tons (181 million bushels) in July 2022 and 5.05 million tons (168 million bushels) in August 2021. Crude oil produced was 2.09 billion pounds down 3 percent from July 2022 but up 5 percent from August 2021. Soybean once refined oil production at 1.73 billion pounds during August 2022 increased 3 percent from July 2022 and increased 6 percent from August 2021.

Canola seeds crushed for crude oil was 175,070 tons in August 2022, compared with 150,198 tons in July 2022 and 131,150 tons in August 2021. Canola crude oil produced was 140 million pounds, up 20 percent from July 2022 and up 35 percent from August 2021. Canola once refined oil production, at 138 million pounds during August 2022, was up 16 percent from July 2022 and up 18 percent from August 2021.

Cottonseed once refined oil production, at 47.2 million pounds during August 2022, was up 25 percent from July 2022 and up 41 percent from August 2021.

Edible tallow production was 102 million pounds during August 2022, up 30 percent from July 2022 and up 21 percent from August 2021. Inedible tallow production was 371 million pounds during August 2022, up 22 percent from July 2022 and up 8 percent from August 2021. Technical tallow production was 112 million pounds during August 2022, up 6 percent from July 2022 but down 11 percent from August 2021. Choice white grease production, at 115 million pounds during August 2022, increased 19 percent from July 2022 and increased 18 percent from August 2021.

Soybean Crushing, Production, Consumption and Stocks – United States: August 2022 with Comparisons

Item	August 2021	July 2022	August 2022
Crush			
Soybeans crushed..... tons	5,047,776	5,440,043	5,251,903
Crude oil produced.....1,000 pounds	1,989,733	2,157,970	2,090,369
Cake and meal produced..... tons	3,728,116	3,984,830	3,864,302
For animal feed..... tons	3,672,915	3,927,978	3,806,521
For edible protein products..... tons	55,201	56,852	57,781
Millfeed produced..... tons	267,178	281,546	274,443
Refine			
Crude oil processed in refining.....1,000 pounds	1,670,680	1,713,297	1,769,951
Once refined oil produced.....1,000 pounds	1,629,162	1,680,513	1,727,102
Consumption			
Crude oil removed for inedible use in processing.....1,000 pounds	109,209	141,870	160,640
Once refined oil removed for use in processing.....1,000 pounds	1,598,981	1,684,624	1,717,403
Removed for edible use in processing.....1,000 pounds	1,189,459	1,180,090	1,217,915
Removed for inedible use in processing.....1,000 pounds	409,522	504,534	499,488
Stocks			
Cake and meal on hand end of month..... tons	344,741	476,698	309,988
Millfeed on hand end of month..... tons	38,771	46,932	39,178
Crude oil on hand end of month.....1,000 pounds	1,753,469	1,827,156	1,690,180
Crusher.....1,000 pounds	872,120	883,669	831,539
Refiner.....1,000 pounds	282,751	322,741	289,274
Offsite.....1,000 pounds	598,598	620,746	569,367
Once refined oil on hand end of month.....1,000 pounds	429,972	401,033	412,807

Soybean Crushing – Regional: August 2022 with Comparisons

Region	Soybeans crushed		
	August 2021	July 2022	August 2022
	(tons)	(tons)	(tons)
Illinois	523,927	621,387	527,085
Iowa.....	1,127,643	1,044,438	1,198,817
North and East ¹	1,095,494	1,158,212	1,103,922
North Central ²	892,792	958,284	863,172
South, West and Pacific ³	680,532	673,459	652,250
West Central ⁴	727,388	984,263	906,657
Region	Crude oil produced		
	August 2021	July 2022	August 2022
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	211,996	251,259	212,578
Iowa.....	445,121	414,197	481,065
North and East ¹	427,196	454,137	435,983
North Central ²	341,412	375,523	337,591
South, West and Pacific ³	261,757	259,827	255,709
West Central ⁴	302,251	403,027	367,443
Region	Crude oil stocks at crusher		
	August 2021	July 2022	August 2022
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	112,312	152,209	104,205
Iowa.....	145,444	134,456	156,450
North and East ¹	211,380	166,739	140,669
North Central ²	179,711	235,029	226,614
South, West and Pacific ³	68,778	60,697	60,174
West Central ⁴	154,495	134,539	143,427
Region	Cake and meal produced		
	August 2021	July 2022	August 2022
	(tons)	(tons)	(tons)
Illinois	388,670	443,990	390,837
Iowa.....	832,106	770,689	881,382
North and East ¹	811,541	845,001	810,874
North Central ²	663,145	712,807	636,423
South, West and Pacific ³	492,360	489,278	474,613
West Central ⁴	540,294	723,065	670,173
Region	Cake and meal stocks		
	August 2021	July 2022	August 2022
	(tons)	(tons)	(tons)
Illinois	45,926	81,320	55,833
Iowa.....	50,248	66,453	44,306
North and East ¹	89,272	107,561	73,600
North Central ²	76,153	76,784	53,364
South, West and Pacific ³	43,427	65,054	42,799
West Central ⁴	39,715	79,526	40,086

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: August 2022 with Comparisons

Item	August 2021	July 2022	August 2022
Canola			
Crush			
Seeds crushed..... tons	131,150	150,198	175,070
Crude oil produced.....1,000 pounds	103,990	116,874	140,183
Cake and meal produced..... tons	74,518	89,345	100,698
Refine			
Crude oil processed in refining.....1,000 pounds	120,960	122,014	141,404
Once refined oil produced.....1,000 pounds	117,319	118,886	138,072
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	123,949	111,706	163,325
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	31,171	48,257	44,163
Crude oil on hand end of month.....1,000 pounds	27,229	43,588	45,000
Once refined oil on hand end of month.....1,000 pounds	100,832	111,570	87,822
Cottonseed			
Crush			
Seeds crushed..... tons	115,263	126,481	125,126
Crude oil produced.....1,000 pounds	27,982	33,305	34,870
Cake and meal produced..... tons	49,598	53,922	54,218
Refine			
Crude oil processed in refining.....1,000 pounds	34,605	38,963	(D)
Once refined oil produced.....1,000 pounds	33,445	37,644	47,220
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	34,929	38,511	42,559
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	57,833	24,177	20,497
Crude oil on hand end of month.....1,000 pounds	18,370	(D)	(D)
Once refined oil on hand end of month.....1,000 pounds	13,605	23,466	28,938
Coconut			
Refine			
Crude oil processed in refining.....1,000 pounds	(D)	49,321	47,986
Once refined oil produced.....1,000 pounds	(D)	48,608	47,290
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	59,471	70,914	75,071
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	85,193	103,577	98,490
Once refined oil on hand end of month.....1,000 pounds	(D)	(D)	(D)
Corn			
Crush			
Crude oil produced.....1,000 pounds	138,785	147,157	115,671
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)	117,150	(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	81,948	109,149	85,405
Once refined oil on hand end of month.....1,000 pounds	63,618	88,638	68,610

See footnote(s) at end of table.

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Selected Oilseed Crushing, Production, Consumption and Stocks – United States: August 2022 with Comparisons (continued)

Item	August 2021	July 2022	August 2022
Palm kernel			
Consumption			
Once refined oil removed for use in processing.....1,000 pounds	38,363	38,638	41,835
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	39,510	54,010	53,192
Palm			
Consumption			
Once refined oil removed for use in processing.....1,000 pounds	229,265	225,044	231,428
Removed for edible use in processing1,000 pounds	217,131	218,961	223,962
Removed for inedible use in processing.....1,000 pounds	12,134	6,083	7,466
Stocks			
Once refined oil on hand end of month.....1,000 pounds	287,805	362,041	343,807
Peanut			
Refine			
Crude oil processed in refining.....1,000 pounds	33,281	25,500	30,193
Once refined oil produced.....1,000 pounds	31,259	24,131	28,616
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	29,586	22,402	28,560
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	(D)	28,599	24,996
Once refined oil on hand end of month.....1,000 pounds	(D)	(D)	(D)
Safflower			
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)	9,311	(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	(D)	7,793	6,763
Once refined oil on hand end of month.....1,000 pounds	(D)	(D)	(D)
Sunflower			
Refine			
Crude oil processed in refining.....1,000 pounds	58,045	53,338	55,840
Once refined oil produced.....1,000 pounds	55,890	51,542	54,031
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	41,734	42,167	34,024
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	38,297	(D)	(D)
Once refined oil on hand end of month.....1,000 pounds	26,458	21,844	35,776
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: August 2022 with Comparisons

Item	August 2021	July 2022	August 2022
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Choice white grease			
Production.....	96,856	96,405	114,771
Removed for inedible use	95,186	96,166	111,776
Stocks on hand end of month.....	6,313	4,369	7,363
Feather meal			
Production.....	84,291	86,798	103,553
Stocks on hand end of month.....	20,022	20,529	17,496
Lard			
Production.....	26,822	17,133	22,765
Removed for use in processing	26,340	19,993	27,875
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	6,514	9,925	8,825
Meat meal, meat and bone meal, and dry rendered tankage			
Production.....	427,951	410,593	467,293
Stocks on hand end of month.....	67,340	73,100	64,584
Other grease			
Production.....	61,586	29,404	29,908
Removed for inedible use in processing.....	63,770	27,684	37,842
Stocks on hand end of month.....	(D)	(D)	(D)
Poultry fats			
Production.....	176,931	161,882	196,484
Removed for inedible use in processing	173,836	163,061	199,539
Stocks on hand end of month.....	34,486	30,930	27,876
Poultry by-product meals			
Production.....	276,217	308,260	356,034
Stocks on hand end of month.....	76,506	76,871	78,683
Tallow, edible			
Production.....	83,690	78,414	101,625
Removed for use in processing	81,770	79,985	94,042
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)	15,052	23,514
Tallow, inedible			
Production.....	343,634	304,608	370,702
Removed for inedible use in processing	335,493	298,622	365,923
Stocks on hand end of month.....	(D)	116,298	(D)
Tallow, technical			
Production.....	126,145	105,881	112,129
Removed for inedible use in processing	125,802	105,344	113,709
Stocks on hand end of month.....	(D)	(D)	(D)
Yellow grease			
Production.....	175,725	181,233	180,363
Removed for inedible use in processing	171,379	182,561	190,122
Stocks on hand end of month.....	104,378	101,967	92,166

(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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Irwin Anolik – Crop Weather	(202) 720-7621
Joshua Bates – Hemp, 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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