



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

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Highlights

April 2023 contained 30 days.

May 2023 contained 31 days.

Soybeans crushed for crude oil was 5.68 million tons (189 million bushels) in May 2023, compared with 5.61 million tons (187 million bushels) in April 2023 and 5.43 million tons (181 million bushels) in May 2022. Crude oil produced was 2.23 billion pounds down less than 1 percent from April 2023 but up 3 percent from May 2022. Soybean once refined oil production at 1.84 billion pounds during May 2023 increased 10 percent from April 2023 and increased 5 percent from May 2022.

Canola seeds crushed for crude oil was 126,630 tons in May 2023, compared with 172,744 tons in April 2023 and 97,792 tons in May 2022. Canola crude oil produced was 114 million pounds, down 16 percent from April 2023 but up 49 percent from May 2022. Canola once refined oil production, at 108 million pounds during May 2023, was down 29 percent from April 2023 but up 18 percent from May 2022.

Cottonseed once refined oil production, at 24.8 million pounds during May 2023, was down 22 percent from April 2023 and down 35 percent from May 2022.

Edible tallow production was 83.6 million pounds during May 2023, up 8 percent from April 2023 but down 1 percent from May 2022. Inedible tallow production was 334 million pounds during May 2023, up 8 percent from April 2023 and up 5 percent from May 2022. Technical tallow production was 111 million pounds during May 2023, up 12 percent from April 2023 but down 1 percent from May 2022. Choice white grease production, at 118 million pounds during May 2023, increased 14 percent from April 2023 but decreased 3 percent from May 2022.

Soybean Crushing, Production, Consumption and Stocks – United States: May 2023 with Comparisons

Item	May 2022	April 2023	May 2023
Crush			
Soybeans crushed..... tons	5,427,160	5,609,607	5,679,096
Crude oil produced.....1,000 pounds	2,158,774	2,236,301	2,228,372
Cake and meal produced..... tons	3,978,135	4,162,406	4,182,704
For animal feed..... tons	3,925,030	4,119,418	4,145,458
For edible protein products..... tons	53,105	42,988	37,246
Millfeed produced..... tons	281,954	271,229	278,564
Refine			
Crude oil processed in refining.....1,000 pounds	1,795,117	1,716,391	1,887,942
Once refined oil produced.....1,000 pounds	1,757,400	1,676,007	1,841,848
Consumption			
Crude oil removed for inedible use in processing.....1,000 pounds	167,823	(D)	(D)
Once refined oil removed for use in processing.....1,000 pounds	1,746,305	1,655,547	1,850,213
Removed for edible use in processing.....1,000 pounds	1,221,104	1,151,039	1,254,726
Removed for inedible use in processing.....1,000 pounds	525,201	504,508	595,487
Stocks			
Cake and meal on hand end of month..... tons	414,543	521,814	388,763
Millfeed on hand end of month..... tons	49,212	56,021	39,776
Crude oil on hand end of month.....1,000 pounds	1,967,553	2,078,543	1,924,950
Crusher.....1,000 pounds	1,010,927	1,092,562	941,244
Refiner.....1,000 pounds	337,860	321,035	317,892
Offsite.....1,000 pounds	618,766	664,946	665,814
Once refined oil on hand end of month.....1,000 pounds	416,820	461,136	461,272

(D) Withheld to avoid disclosing data for individual operations.

Soybean Crushing – Regional: May 2023 with Comparisons

Region	Soybeans crushed		
	May 2022	April 2023	May 2023
	(tons)	(tons)	(tons)
Illinois	626,572	662,342	663,963
Iowa.....	1,086,312	1,216,961	1,155,161
North and East ¹	1,132,823	1,336,471	1,283,471
North Central ²	968,543	880,680	969,711
South, West and Pacific ³	648,953	635,471	641,692
West Central ⁴	963,957	877,682	965,098
Region	Crude oil produced		
	May 2022	April 2023	May 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	253,132	266,256	260,262
Iowa.....	430,398	488,321	458,126
North and East ¹	449,684	524,651	505,329
North Central ²	381,169	345,950	371,420
South, West and Pacific ³	257,538	244,644	248,459
West Central ⁴	386,853	366,479	384,776
Region	Crude oil stocks at crusher		
	May 2022	April 2023	May 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	162,526	157,383	122,002
Iowa.....	182,137	184,120	157,684
North and East ¹	217,719	255,806	243,405
North Central ²	235,949	266,064	201,120
South, West and Pacific ³	85,977	84,615	87,928
West Central ⁴	126,619	144,574	129,105
Region	Cake and meal produced		
	May 2022	April 2023	May 2023
	(tons)	(tons)	(tons)
Illinois	454,664	487,249	475,250
Iowa.....	799,494	908,097	856,941
North and East ¹	825,175	991,315	953,075
North Central ²	710,082	650,443	705,163
South, West and Pacific ³	474,540	470,661	475,367
West Central ⁴	714,180	654,641	716,908
Region	Cake and meal stocks		
	May 2022	April 2023	May 2023
	(tons)	(tons)	(tons)
Illinois	53,059	81,094	49,029
Iowa.....	69,938	81,860	48,722
North and East ¹	116,230	164,964	174,554
North Central ²	50,804	54,587	49,372
South, West and Pacific ³	62,523	51,147	33,417
West Central ⁴	61,989	88,162	33,669

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: May 2023
with Comparisons**

Item	May 2022	April 2023	May 2023
Canola			
Crush			
Seeds crushed..... tons	97,792	172,744	126,630
Crude oil produced.....1,000 pounds	76,861	136,571	114,408
Cake and meal produced..... tons	56,819	103,926	76,920
Refine			
Crude oil processed in refining.....1,000 pounds	93,711	155,080	111,061
Once refined oil produced.....1,000 pounds	91,442	151,183	107,909
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	100,474	157,303	125,334
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	31,177	(D)	(D)
Crude oil on hand end of month.....1,000 pounds	48,003	66,315	71,326
Once refined oil on hand end of month.....1,000 pounds	77,027	102,794	87,638
Cottonseed			
Crush			
Seeds crushed..... tons	145,600	115,598	77,100
Crude oil produced.....1,000 pounds	39,626	34,139	24,744
Cake and meal produced..... tons	62,212	47,837	36,517
Refine			
Crude oil processed in refining.....1,000 pounds	39,037	32,390	25,640
Once refined oil produced.....1,000 pounds	37,984	31,613	24,814
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	41,429	31,010	35,364
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	11,439	32,277	32,320
Crude oil on hand end of month.....1,000 pounds	(D)	(D)	(D)
Once refined oil on hand end of month.....1,000 pounds	22,368	39,105	28,969
Coconut			
Refine			
Crude oil processed in refining.....1,000 pounds	48,003	(D)	(D)
Once refined oil produced.....1,000 pounds	47,368	(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	72,193	45,457	45,475
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	81,927	73,610	73,489
Once refined oil on hand end of month.....1,000 pounds	(D)	(D)	(D)
Corn			
Crush			
Crude oil produced.....1,000 pounds	168,732	143,271	159,873
Refine			
Crude oil processed in refining.....1,000 pounds	168,414	149,306	137,623
Once refined oil produced.....1,000 pounds	164,839	146,626	135,939
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	141,014	169,951	145,655
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	98,329	83,120	72,203
Once refined oil on hand end of month.....1,000 pounds	95,669	85,903	84,855

See footnote(s) at end of table.

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Selected Oilseed Crushing, Production, Consumption and Stocks – United States: May 2023 with Comparisons (continued)

Item	May 2022	April 2023	May 2023
Palm kernel			
Consumption			
Once refined oil removed for use in processing.....1,000 pounds	41,837	24,541	23,887
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	60,220	51,053	53,833
Palm			
Consumption			
Once refined oil removed for use in processing.....1,000 pounds	232,576	170,123	190,797
Removed for edible use in processing1,000 pounds	226,714	165,931	185,109
Removed for inedible use in processing.....1,000 pounds	5,862	4,192	5,688
Stocks			
Once refined oil on hand end of month.....1,000 pounds	398,958	339,133	356,708
Peanut			
Refine			
Crude oil processed in refining.....1,000 pounds	27,488	30,092	23,171
Once refined oil produced.....1,000 pounds	26,446	28,402	23,147
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	23,188	24,678	22,297
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	27,096	(D)	26,627
Once refined oil on hand end of month.....1,000 pounds	(D)	(D)	(D)
Safflower			
Refine			
Crude oil processed in refining.....1,000 pounds	2,118	(D)	(D)
Once refined oil produced.....1,000 pounds	1,988	(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	6,606	5,299	5,073
Removed for edible use in processing1,000 pounds	(D)	(D)	(D)
Removed for inedible use in processing.....1,000 pounds	(D)	(D)	(D)
Stocks			
Crude oil on hand end of month.....1,000 pounds	10,405	7,753	7,819
Once refined oil on hand end of month.....1,000 pounds	(D)	(D)	(D)
Sunflower			
Refine			
Crude oil processed in refining.....1,000 pounds	41,140	30,736	25,595
Once refined oil produced.....1,000 pounds	39,532	29,753	24,562
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	31,193	(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	(D)	60,181	51,038
Once refined oil on hand end of month.....1,000 pounds	20,567	40,097	28,042
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: May 2023 with Comparisons

Item	May 2022	April 2023	May 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Choice white grease			
Production.....	121,177	103,830	118,053
Removed for inedible use	122,035	101,360	119,232
Stocks on hand end of month.....	5,241	7,374	6,182
Feather meal			
Production.....	86,550	85,473	102,046
Stocks on hand end of month.....	18,566	16,088	17,744
Lard			
Production.....	25,013	28,210	29,384
Removed for use in processing	24,701	24,766	31,934
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	13,080	12,494	11,634
Meat meal, meat and bone meal, and dry rendered tankage			
Production.....	448,347	426,655	450,563
Stocks on hand end of month.....	93,688	53,012	53,876
Other grease			
Production.....	29,390	25,659	18,069
Removed for inedible use in processing	30,225	24,849	23,713
Stocks on hand end of month.....	(D)	(D)	(D)
Poultry fats			
Production.....	160,012	171,410	197,783
Removed for inedible use in processing	161,635	170,670	202,052
Stocks on hand end of month.....	34,055	25,214	20,944
Poultry by-product meals			
Production.....	319,555	305,559	348,432
Stocks on hand end of month.....	97,001	74,146	82,947
Tallow, edible			
Production.....	84,538	77,500	83,634
Removed for use in processing	80,542	84,150	94,994
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	19,713	22,786	11,615
Tallow, inedible			
Production.....	319,041	311,100	334,453
Removed for inedible use in processing	312,694	327,187	341,330
Stocks on hand end of month.....	119,477	(D)	(D)
Tallow, technical			
Production.....	111,637	98,289	110,558
Removed for inedible use in processing	113,762	97,332	110,267
Stocks on hand end of month.....	(D)	(D)	(D)
Yellow grease			
Production.....	178,994	172,826	177,895
Removed for inedible use in processing	154,000	178,968	186,866
Stocks on hand end of month.....	86,277	113,101	104,120

(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 – Hemp, Oats, Soybeans.....	(202) 690-3234
Natasha Bruton – Barley, Cotton System Consumption, and Stocks, Grain Crushings	(202) 690-1042
David Colwell – Fats and Oils, Flour Milling Products	(202) 720-8800
Michelle Harder –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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