



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

ISSN: 2379-9862

Released September 1, 2023, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, United States Department of Agriculture (USDA).

Special Note

In order to be published, data must meet NASS confidentiality and quality standards. Data collected for “Vegetable foats, raw and acidulated” do not meet these standards and they are unlikely to in the future. “Vegetable foats, raw and acidulated” lines have been removed from the table on page 5 of this report.

Highlights

June 2023 contained 30 days.

July 2023 contained 31 days.

Soybeans crushed for crude oil was 5.54 million tons (185 million bushels) in July 2023, compared with 5.24 million tons (175 million bushels) in June 2023 and 5.44 million tons (181 million bushels) in July 2022. Crude oil produced was 2.18 billion pounds up 5 percent from June 2023 and up less than 1 percent from July 2022. Soybean once refined oil production at 1.76 billion pounds during July 2023 increased 2 percent from June 2023 and increased 4 percent from July 2022.

Canola seeds crushed for crude oil was 192,074 tons in July 2023, compared with 158,305 tons in June 2023 and 151,561 tons in July 2022. Canola crude oil produced was 150 million pounds, up 18 percent from June 2023 and up 26 percent from July 2022. Canola once refined oil production, at 159 million pounds during July 2023, was up 18 percent from June 2023 and up 31 percent from July 2022.

Cottonseed once refined oil production, at 25.8 million pounds during July 2023, was down 12 percent from June 2023 and down 32 percent from July 2022.

Edible tallow production was 88.1 million pounds during July 2023, up 1 percent from June 2023 and up 12 percent from July 2022. Inedible tallow production was 281 million pounds during July 2023, up slightly from June 2023 but down 8 percent from July 2022. Technical tallow production was 88.7 million pounds during July 2023, down 17 percent from June 2023 and down 16 percent from July 2022. Choice white grease production, at 93 million pounds during July 2023, decreased 15 percent from June 2023 and decreased 4 percent from July 2022.

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

Item	July 2022	June 2023	July 2023
Crush			
Soybeans crushed tons	5,441,780	5,236,516	5,544,583
Crude oil produced1,000 pounds	2,169,930	2,074,857	2,179,368
Cake and meal produced tons	3,988,429	3,886,684	4,083,654
For animal feed tons	3,931,407	3,843,555	4,050,919
For edible protein products tons	57,022	43,129	32,735
Millfeed produced tons	281,851	265,644	276,077
Refine			
Crude oil processed in refining1,000 pounds	1,724,576	1,761,023	1,802,629
Once refined oil produced1,000 pounds	1,691,268	1,726,022	1,764,170
Consumption			
Crude oil removed for inedible use in processing1,000 pounds	141,870	(D)	(D)
Once refined oil removed for use in processing1,000 pounds	1,692,867	1,757,969	1,765,051
Removed for edible use in processing1,000 pounds	1,188,333	1,168,498	1,211,162
Removed for inedible use in processing1,000 pounds	504,534	589,471	553,889
Stocks			
Cake and meal on hand end of month tons	479,121	331,209	419,848
Millfeed on hand end of month tons	47,602	34,355	44,089
Crude oil on hand end of month1,000 pounds	1,863,249	1,770,166	1,707,235
Crusher1,000 pounds	911,063	889,944	870,663
Refiner1,000 pounds	331,440	279,811	253,586
Offsite1,000 pounds	620,746	600,411	582,986
Once refined oil on hand end of month1,000 pounds	403,545	432,869	441,338

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

Soybean Crushing – Regional: July 2023 with Comparisons

Region	Soybeans crushed		
	July 2022	June 2023	July 2023
	(tons)	(tons)	(tons)
Illinois	621,387	639,556	678,319
Iowa.....	1,044,438	1,059,054	1,195,702
North and East ¹	1,158,212	1,143,567	1,281,129
North Central ²	960,021	875,341	890,226
South, West and Pacific ³	673,459	583,067	566,854
West Central ⁴	984,263	935,931	932,353
Region	Crude oil produced		
	July 2022	June 2023	July 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	251,259	258,909	264,773
Iowa.....	414,197	419,952	478,439
North and East ¹	454,137	452,665	497,317
North Central ²	387,483	335,498	349,072
South, West and Pacific ³	259,827	227,986	215,391
West Central ⁴	403,027	379,847	374,376
Region	Crude oil stocks at crusher		
	July 2022	June 2023	July 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	152,209	138,926	122,299
Iowa.....	134,456	136,533	141,628
North and East ¹	166,739	228,647	224,465
North Central ²	262,423	191,505	183,573
South, West and Pacific ³	60,697	67,283	74,133
West Central ⁴	134,539	127,050	124,565
Region	Cake and meal produced		
	July 2022	June 2023	July 2023
	(tons)	(tons)	(tons)
Illinois	443,990	470,494	482,943
Iowa.....	770,689	781,650	884,224
North and East ¹	845,001	853,953	950,231
North Central ²	716,406	652,019	658,769
South, West and Pacific ³	489,278	432,987	415,020
West Central ⁴	723,065	695,581	692,467
Region	Cake and meal stocks		
	July 2022	June 2023	July 2023
	(tons)	(tons)	(tons)
Illinois	81,320	(D)	48,935
Iowa.....	66,453	42,485	80,963
North and East ¹	107,561	100,671	140,605
North Central ²	79,207	43,635	45,869
South, West and Pacific ³	65,054	(D)	58,761
West Central ⁴	79,526	47,375	44,715

(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: July 2023 with Comparisons

Item	July 2022	June 2023	July 2023
Canola			
Crush			
Seeds crushed..... tons	151,561	158,305	192,074
Crude oil produced 1,000 pounds	119,152	127,999	150,435
Cake and meal produced tons	88,604	93,550	110,748
Refine			
Crude oil processed in refining 1,000 pounds	124,878	139,311	164,701
Once refined oil produced 1,000 pounds	121,266	134,810	159,345
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	117,738	135,231	143,608
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	44,875	(D)	57,130
Crude oil on hand end of month 1,000 pounds	51,057	71,429	47,004
Once refined oil on hand end of month 1,000 pounds	107,918	88,070	104,939
Cottonseed			
Crush			
Seeds crushed..... tons	126,481	112,069	85,306
Crude oil produced 1,000 pounds	33,305	28,808	22,061
Cake and meal produced..... tons	53,922	46,755	33,807
Refine			
Crude oil processed in refining 1,000 pounds	38,963	29,985	26,595
Once refined oil produced 1,000 pounds	37,644	29,262	25,774
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	38,511	28,622	32,537
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	24,177	44,954	33,863
Crude oil on hand end of month 1,000 pounds	(D)	(D)	(D)
Once refined oil on hand end of month 1,000 pounds	23,466	31,031	24,997
Coconut			
Refine			
Crude oil processed in refining 1,000 pounds	49,321	38,420	37,719
Once refined oil produced 1,000 pounds	48,608	38,315	37,598
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	70,914	44,501	43,447
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	103,577	71,699	86,623
Once refined oil on hand end of month 1,000 pounds	(D)	(D)	65,277
Corn			
Crush			
Crude oil produced 1,000 pounds	147,157	160,433	148,605
Refine			
Crude oil processed in refining 1,000 pounds	156,976	135,130	132,532
Once refined oil produced 1,000 pounds	152,597	131,616	128,618
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	129,489	147,220	103,967
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	109,149	79,543	80,570
Once refined oil on hand end of month 1,000 pounds	88,638	54,807	64,592

See footnote(s) at end of table.

--continued

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

Item	July 2022	June 2023	July 2023
Palm kernel			
Consumption			
Once refined oil removed for use in processing..... 1,000 pounds	38,638	22,359	24,312
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	54,010	62,207	60,642
Palm			
Consumption			
Once refined oil removed for use in processing..... 1,000 pounds	225,044	195,764	184,666
Removed for edible use in processing 1,000 pounds	218,961	189,849	176,997
Removed for inedible use in processing..... 1,000 pounds	6,083	5,915	7,669
Stocks			
Once refined oil on hand end of month..... 1,000 pounds	362,041	356,514	332,644
Peanut			
Refine			
Crude oil processed in refining..... 1,000 pounds	25,500	29,558	25,135
Once refined oil produced..... 1,000 pounds	24,131	27,841	23,998
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	22,402	24,210	28,131
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	28,599	28,201	28,318
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)	-
Once refined oil removed for use in processing..... 1,000 pounds	9,311	2,682	3,400
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	7,793	10,020	13,883
Once refined oil on hand end of month..... 1,000 pounds	(D)	(D)	(D)
Sunflower			
Refine			
Crude oil processed in refining..... 1,000 pounds	53,338	50,679	37,399
Once refined oil produced..... 1,000 pounds	51,542	48,639	36,141
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	42,167	31,691	(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	(D)	51,984	44,842
Once refined oil on hand end of month..... 1,000 pounds	21,844	35,684	38,599

- Represents zero.

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

Animal Fats and Oils Production, Consumption and Stocks – United States: July 2023 with Comparisons

Item	July 2022	June 2023	July 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Choice white grease			
Production.....	96,405	109,628	92,937
Removed for inedible use	96,166	110,953	91,258
Stocks on hand end of month	4,369	4,802	6,481
Feather meal			
Production.....	86,798	91,202	82,833
Stocks on hand end of month	20,529	16,404	17,156
Lard			
Production.....	17,133	23,975	17,882
Removed for use in processing	19,993	28,592	17,614
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month	9,925	(D)	7,019
Meat meal, meat and bone meal, and dry rendered tannage			
Production.....	410,593	436,184	439,659
Stocks on hand end of month	73,100	54,626	55,290
Other grease			
Production.....	29,404	23,179	22,875
Removed for inedible use in processing	27,684	25,268	25,208
Stocks on hand end of month	(D)	(D)	(D)
Poultry fats			
Production.....	161,882	182,772	175,875
Removed for inedible use in processing	163,061	175,550	174,046
Stocks on hand end of month	30,930	27,951	24,055
Poultry by-product meals			
Production.....	308,260	312,357	287,684
Stocks on hand end of month	76,871	74,254	74,986
Tallow, edible			
Production.....	78,414	87,103	88,066
Removed for use in processing	79,985	87,043	84,444
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month	15,052	11,830	15,752
Tallow, inedible			
Production.....	304,608	280,902	281,096
Removed for inedible use in processing	298,622	290,791	281,224
Stocks on hand end of month	116,298	(D)	(D)
Tallow, technical			
Production.....	105,881	107,363	88,734
Removed for inedible use in processing	105,344	107,569	88,661
Stocks on hand end of month	(D)	(D)	(D)
Yellow grease			
Production.....	181,233	189,739	165,153
Removed for inedible use in processing	182,561	196,227	148,637
Stocks on hand end of month	101,967	97,457	113,973

(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

Lance Honig, Chief, Crops Branch.....	(202) 720-2127
Chris Hawthorn, Head, Field Crops Section	(202) 720-2127
Irwin Anolik – Crop Progress and Condition.....	(202) 720-7621
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
Chris Hawthorn – Peanuts, Rice	(202) 720-2127

Access to NASS Reports

For your convenience, you may access NASS reports and products the following ways:

- All reports are available electronically, at no cost, on the NASS web site: www.nass.usda.gov.
- Both national and state specific reports are available via a free e-mail subscription. To set-up this free subscription, visit www.nass.usda.gov and click on “National” or “State” in upper right corner above “search” box to create an account and select the reports you would like to receive.
- Cornell’s Mann Library has launched a new website housing NASS’s and other agency’s archived reports. The new website, <https://usda.library.cornell.edu>. All email subscriptions containing reports will be sent from the new website, <https://usda.library.cornell.edu>. To continue receiving the reports via e-mail, you will have to go to the new website, create a new account and re-subscribe to the reports. If you need instructions to set up an account or subscribe, they are located at: <https://usda.library.cornell.edu/help>. You should whitelist notifications@usda-esmis.library.cornell.edu in your email client to avoid the emails going into spam/junk folders.

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.

The U.S. Department of Agriculture (USDA) prohibits discrimination against its customers, employees, and applicants for employment on the basis of race, color, national origin, age, disability, sex, gender identity, religion, reprisal, and where applicable, political beliefs, marital status, familial or parental status, sexual orientation, or all or part of an individual's income is derived from any public assistance program, or protected genetic information in employment or in any program or activity conducted or funded by the Department. (Not all prohibited bases will apply to all programs and/or employment activities.)

If you wish to file a Civil Rights program complaint of discrimination, complete the [USDA Program Discrimination Complaint Form](#) (PDF), found online at www.ascr.usda.gov/filing-program-discrimination-complaint-usda-customer, or at any USDA office, or call (866) 632-9992 to request the form. You may also write a letter containing all of the information requested in the form. Send your completed complaint form or letter to us by mail at U.S. Department of Agriculture, Director, Office of Adjudication, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, by fax (202) 690-7442 or email at program.intake@usda.gov.