



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

ISSN: 2379-9862

Released May 1, 2024, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, United States Department of Agriculture (USDA).

Highlights

February 2024 contained 29 days.

March 2024 contained 31 days.

Soybeans crushed for crude oil was 6.11 million tons (204 million bushels) in March 2024, compared with 5.82 million tons (194 million bushels) in February 2024 and 5.94 million tons (198 million bushels) in March 2023. Crude oil produced was 2.41 billion pounds, up 5 percent from February 2024 and up 3 percent from March 2023. Soybean once refined oil production at 1.79 billion pounds during March 2024 increased 10 percent from February 2024 but decreased 1 percent from March 2023.

Canola seeds crushed for crude oil was 190,641 tons in March 2024, compared with 205,713 tons in February 2024 and 191,291 tons in March 2023. Canola crude oil produced was 150 million pounds, down 10 percent from February 2024 and down 3 percent from March 2023. Canola once refined oil production, at 155 million pounds during March 2024, was up 4 percent from February 2024 and up 1 percent from March 2023.

Cottonseed once refined oil production, at 39.5 million pounds during March 2024, was down 6 percent from February 2024 but up 25 percent from March 2023.

Edible tallow production was 91.7 million pounds during March 2024, down 6 percent from February 2024 but up 1 percent from March 2023. Inedible tallow production was 356 million pounds during March 2024, up 3 percent from February 2024 and up less than 1 percent from March 2023. Technical tallow production was 112 million pounds during March 2024, down 8 percent from February 2024 but up 10 percent from March 2023. Choice white grease production, at 110 million pounds during March 2024, decreased 4 percent from February 2024 and decreased 8 percent from March 2023.

Soybean Crushing, Production, Consumption and Stocks – United States: March 2024 with Comparisons

Item	March 2023	February 2024	March 2024
Crush			
Soybeans crushed tons	5,939,012	5,817,974	6,111,759
Crude oil produced1,000 pounds	2,339,581	2,292,360	2,405,571
Cake and meal produced tons	4,402,548	4,267,778	4,489,841
For animal feed tons	4,358,712	4,217,565	4,430,960
For edible protein products tons	43,836	50,213	58,881
Millfeed produced tons	295,613	289,314	307,564
Refine			
Crude oil processed in refining1,000 pounds	1,853,676	1,652,057	1,828,513
Once refined oil produced1,000 pounds	1,811,949	1,626,983	1,793,389
Consumption			
Crude oil removed for inedible use in processing1,000 pounds	(D)	(D)	163,261
Once refined oil removed for use in processing1,000 pounds	1,833,386	1,654,857	1,757,133
Removed for edible use in processing1,000 pounds	1,306,300	1,176,309	1,234,551
Removed for inedible use in processing1,000 pounds	527,086	478,548	522,582
Stocks			
Cake and meal on hand end of month tons	324,292	278,195	495,337
Millfeed on hand end of month tons	54,758	48,259	64,513
Crude oil on hand end of month1,000 pounds	1,946,997	1,687,904	1,872,183
Crusher1,000 pounds	1,010,089	1,020,391	1,098,620
Refiner1,000 pounds	308,795	263,415	287,834
Offsite1,000 pounds	628,113	404,098	485,729
Once refined oil on hand end of month1,000 pounds	440,516	460,389	496,937

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

Soybean Crushing – Regional: March 2024 with Comparisons

Region	Soybeans crushed		
	March 2023	February 2024	March 2024
	(tons)	(tons)	(tons)
Illinois	716,050	629,688	661,731
Iowa.....	1,254,041	1,278,379	1,329,380
North and East ¹	1,325,535	1,299,349	1,403,497
North Central ²	993,561	1,018,521	1,089,165
South, West and Pacific ³	677,617	674,592	692,847
West Central ⁴	972,208	917,445	935,139
Region	Crude oil produced		
	March 2023	February 2024	March 2024
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	290,186	262,678	266,242
Iowa.....	496,091	500,587	528,818
North and East ¹	510,961	500,710	545,415
North Central ²	381,024	400,455	425,138
South, West and Pacific ³	261,056	262,507	267,860
West Central ⁴	400,263	365,423	372,098
Region	Crude oil stocks at crusher		
	March 2023	February 2024	March 2024
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	166,220	155,759	169,518
Iowa.....	210,635	201,089	193,278
North and East ¹	229,345	268,029	281,879
North Central ²	224,344	213,478	232,003
South, West and Pacific ³	66,278	61,325	73,465
West Central ⁴	113,267	120,711	148,477
Region	Cake and meal produced		
	March 2023	February 2024	March 2024
	(tons)	(tons)	(tons)
Illinois	512,452	446,440	467,111
Iowa.....	941,704	939,300	984,345
North and East ¹	982,273	954,489	1,028,511
North Central ²	743,481	754,845	806,638
South, West and Pacific ³	498,227	495,158	506,447
West Central ⁴	724,411	677,546	696,789
Region	Cake and meal stocks		
	March 2023	February 2024	March 2024
	(tons)	(tons)	(tons)
Illinois	59,678	35,354	71,701
Iowa.....	42,980	51,933	97,564
North and East ¹	103,484	95,961	88,100
North Central ²	45,030	46,437	94,047
South, West and Pacific ³	35,429	22,014	64,976
West Central ⁴	37,691	26,496	78,949

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: March 2024 with Comparisons

Item	March 2023	February 2024	March 2024
Canola			
Crush			
Seeds crushed..... tons	191,291	205,713	190,641
Crude oil produced 1,000 pounds	154,876	167,315	150,165
Cake and meal produced tons	112,018	119,066	109,939
Refine			
Crude oil processed in refining 1,000 pounds	156,645	151,613	159,788
Once refined oil produced 1,000 pounds	152,471	149,297	154,757
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	157,923	145,849	166,354
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)	(D)	24,474
Crude oil on hand end of month 1,000 pounds	74,092	(D)	58,931
Once refined oil on hand end of month 1,000 pounds	103,413	98,668	88,369
Cottonseed			
Crush			
Seeds crushed..... tons	136,880	143,599	132,168
Crude oil produced 1,000 pounds	33,483	40,648	36,934
Cake and meal produced tons	55,723	60,635	53,340
Refine			
Crude oil processed in refining 1,000 pounds	32,132	43,199	40,686
Once refined oil produced 1,000 pounds	31,507	42,133	39,524
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	28,335	32,199	34,129
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	23,316	13,327	20,410
Crude oil on hand end of month 1,000 pounds	(D)	(D)	(D)
Once refined oil on hand end of month 1,000 pounds	38,214	43,251	49,068
Coconut			
Refine			
Crude oil processed in refining 1,000 pounds	32,135	21,616	21,820
Once refined oil produced 1,000 pounds	31,550	21,435	21,467
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	41,167	27,815	37,709
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	78,121	93,967	63,340
Once refined oil on hand end of month 1,000 pounds	(D)	(D)	58,352
Corn			
Crush			
Crude oil produced 1,000 pounds	154,472	156,926	153,561
Refine			
Crude oil processed in refining 1,000 pounds	143,026	133,152	144,123
Once refined oil produced 1,000 pounds	140,069	129,770	140,762
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	131,409	128,404	106,057
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	106,982	93,994	101,186
Once refined oil on hand end of month 1,000 pounds	97,215	53,976	74,074

See footnote(s) at end of table.

--continued

Selected Oilseed Crushing, Production, Consumption and Stocks – United States: March 2024 with Comparisons (continued)

Item	March 2023	February 2024	March 2024
Palm kernel			
Consumption			
Once refined oil removed for use in processing..... 1,000 pounds	30,970	39,926	36,105
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	57,766	98,362	87,191
Palm			
Consumption			
Once refined oil removed for use in processing..... 1,000 pounds	212,217	199,835	181,468
Removed for edible use in processing 1,000 pounds	210,370	196,560	178,855
Removed for inedible use in processing..... 1,000 pounds	1,847	3,275	2,613
Stocks			
Once refined oil on hand end of month..... 1,000 pounds	349,658	328,011	315,922
Peanut			
Refine			
Crude oil processed in refining..... 1,000 pounds	18,392	22,496	15,901
Once refined oil produced..... 1,000 pounds	17,613	21,693	15,031
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	21,207	21,736	18,258
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	25,961	22,367	21,633
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	3,782	8,440	5,380
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	11,838	6,988	3,503
Once refined oil on hand end of month..... 1,000 pounds	(D)	(D)	(D)
Sunflower			
Refine			
Crude oil processed in refining..... 1,000 pounds	44,285	36,831	39,828
Once refined oil produced..... 1,000 pounds	43,400	35,359	38,638
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)	(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	57,952	37,438	34,289
Once refined oil on hand end of month..... 1,000 pounds	50,455	29,292	27,466

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

Animal Fats and Oils Production, Consumption and Stocks – United States: March 2024 with Comparisons

Item	March 2023	February 2024	March 2024
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Choice white grease			
Production.....	119,429	114,158	109,828
Removed for inedible use	120,275	116,180	109,617
Stocks on hand end of month	4,905	6,313	6,484
Feather meal			
Production.....	95,113	95,055	79,874
Stocks on hand end of month	16,898	15,535	17,190
Lard			
Production.....	24,173	26,107	21,766
Removed for use in processing	22,231	26,824	22,301
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month	9,050	(D)	(D)
Meat meal, meat and bone meal, and dry rendered tankage			
Production.....	497,179	475,526	504,169
Stocks on hand end of month	57,886	56,663	52,446
Other grease			
Production.....	30,803	25,525	23,110
Removed for inedible use in processing	34,699	28,300	25,949
Stocks on hand end of month	(D)	(D)	(D)
Poultry fats			
Production.....	183,306	205,330	170,818
Removed for inedible use in processing	184,521	205,053	177,141
Stocks on hand end of month	24,467	33,302	27,029
Poultry by-product meals			
Production.....	341,907	381,571	328,970
Stocks on hand end of month	63,304	112,853	101,929
Tallow, edible			
Production.....	90,761	97,125	91,654
Removed for use in processing	75,762	95,070	86,039
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month	29,268	16,543	22,087
Tallow, inedible			
Production.....	355,329	346,768	355,531
Removed for inedible use in processing	350,327	351,851	365,483
Stocks on hand end of month	80,309	88,037	78,085
Tallow, technical			
Production.....	102,563	122,850	112,429
Removed for inedible use in processing	104,230	123,007	113,149
Stocks on hand end of month	(D)	(D)	(D)
Yellow grease			
Production.....	197,567	(D)	(D)
Removed for inedible use in processing	189,261	(D)	(D)
Stocks on hand end of month	123,974	(D)	(D)

(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

Nick Streff, Acting 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.