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

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Highlights

March 2024 contained 31 days.
April 2024 contained 30 days.

Soybeans crushed for crude oil was 5.33 million tons (178 million bushels) in April 2024, compared with 6.11 million tons (204 million bushels) in March 2024 and 5.61 million tons (187 million bushels) in April 2023. Crude oil produced was 2.10 billion pounds, down 13 percent from March 2024 and down 6 percent from April 2023. Soybean once refined oil production at 1.72 billion pounds during April 2024 decreased 4 percent from March 2024 but increased 3 percent from April 2023.

Canola seeds crushed for crude oil was 188,515 tons in April 2024, compared with 190,641 tons in March 2024 and 172,744 tons in April 2023. Canola crude oil produced was 153 million pounds, up 2 percent from March 2024 and up 12 percent from April 2023. Canola once refined oil production, at 149 million pounds during April 2024, was down 4 percent from March 2024 and down 2 percent from April 2023.

Cottonseed once refined oil production, at 28.0 million pounds during April 2024, was down 29 percent from March 2024 and down 12 percent from April 2023.

Edible tallow production was 74.9 million pounds during April 2024, down 18 percent from March 2024 and down 3 percent from April 2023. Inedible tallow production was 312 million pounds during April 2024, down 12 percent from March 2024 but up less than 1 percent from April 2023. Technical tallow production was 127 million pounds during April 2024, up 13 percent from March 2024 and up 29 percent from April 2023. Choice white grease production, at 97.8 million pounds during April 2024, decreased 11 percent from March 2024 and decreased 6 percent from April 2023.

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

Item	April 2023	March 2024	April 2024
Crush			
Soybeans crushed ..... tons	5,609,607	6,111,759	5,332,051
Crude oil produced ..... 1,000 pounds	2,236,301	2,405,571	2,097,756
Cake and meal produced ..... tons	4,162,406	4,489,841	3,943,286
For animal feed ..... tons	4,119,418	4,430,960	3,889,177
For edible protein products ..... tons	42,988	58,881	54,109
Millfeed produced ..... tons	271,229	307,564	262,327
Refine			
Crude oil processed in refining ..... 1,000 pounds	1,716,391	1,828,513	1,762,840
Once refined oil produced ..... 1,000 pounds	1,676,007	1,793,389	1,718,284
Consumption			
Crude oil removed for inedible use in processing ..... 1,000 pounds	(D)	163,261	(D)
Once refined oil removed for use in processing ..... 1,000 pounds	1,655,547	1,757,133	1,761,336
Removed for edible use in processing ..... 1,000 pounds	1,151,039	1,234,551	1,254,240
Removed for inedible use in processing ..... 1,000 pounds	504,508	522,582	507,096
Stocks			
Cake and meal on hand end of month ..... tons	521,814	495,337	287,066
Millfeed on hand end of month ..... tons	56,021	64,513	48,367
Crude oil on hand end of month ..... 1,000 pounds	2,078,543	1,872,183	1,856,452
Crusher ..... 1,000 pounds	1,092,562	1,098,620	1,047,690
Refiner ..... 1,000 pounds	321,035	287,834	283,019
Offsite ..... 1,000 pounds	664,946	485,729	525,743
Once refined oil on hand end of month ..... 1,000 pounds	461,136	496,937	454,915

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

Soybean Crushing – Regional: April 2024 with Comparisons

Region	Soybeans crushed		
	April 2023	March 2024	April 2024
	(tons)	(tons)	(tons)
Illinois	662,342	661,731	568,959
Iowa	1,216,961	1,329,380	1,229,973
North and East [1]	1,336,471	1,403,497	1,261,496
North Central [2]	880,680	1,089,165	941,406
South, West and Pacific [3]	635,471	692,847	622,644
West Central [4]	877,682	935,139	707,573

Region	Crude oil produced		
	April 2023	March 2024	April 2024
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	266,256	266,242	234,299
Iowa	488,321	528,818	484,341
North and East [1]	524,651	545,415	499,100
North Central [2]	345,950	425,138	365,824
South, West and Pacific [3]	244,644	267,860	235,593
West Central [4]	366,479	372,098	278,599

Region	Crude oil stocks at crusher		
	April 2023	March 2024	April 2024
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	157,383	169,518	165,224
Iowa	184,120	193,278	192,919
North and East [1]	255,806	281,879	271,242
North Central [2]	266,064	232,003	213,389
South, West and Pacific [3]	84,615	73,465	77,618
West Central [4]	144,574	148,477	127,298

Region	Cake and meal produced		
	April 2023	March 2024	April 2024
	(tons)	(tons)	(tons)
Illinois	487,249	467,111	418,736
Iowa	908,097	984,345	907,123
North and East [1]	991,315	1,028,511	935,944
North Central [2]	650,443	806,638	691,742
South, West and Pacific [3]	470,661	506,447	463,599
West Central [4]	654,641	696,789	526,142

Region	Cake and meal stocks		
	April 2023	March 2024	April 2024
	(tons)	(tons)	(tons)
Illinois	81,094	71,701	30,908
Iowa	81,860	97,564	49,818
North and East [1]	164,964	88,100	78,966
North Central [2]	54,587	94,047	66,113
South, West and Pacific [3]	51,147	64,976	25,023
West Central [4]	88,162	78,949	36,238

[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: April 2024 with Comparisons

Item	April 2023	March 2024	April 2024
Canola			
Crush			
Seeds crushed ..... tons	172,744	190,641	188,515
Crude oil produced ..... 1,000 pounds	136,571	150,165	152,900
Cake and meal produced ..... tons	103,926	109,939	108,408
Refine			
Crude oil processed in refining ..... 1,000 pounds	155,080	159,788	153,713
Once refined oil produced ..... 1,000 pounds	151,183	154,757	148,644
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	157,303	166,354	147,023
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)	24,474	24,955
Crude oil on hand end of month ..... 1,000 pounds	66,315	58,931	49,270
Once refined oil on hand end of month ..... 1,000 pounds	102,794	88,369	88,930
Cottonseed			
Crush			
Seeds crushed ..... tons	115,598	132,168	87,783
Crude oil produced ..... 1,000 pounds	34,139	36,934	25,623
Cake and meal produced ..... tons	47,837	53,340	39,421
Refine			
Crude oil processed in refining ..... 1,000 pounds	32,390	40,686	28,858
Once refined oil produced ..... 1,000 pounds	31,613	39,524	27,968
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	31,010	34,129	31,508
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	32,277	20,410	14,874
Crude oil on hand end of month ..... 1,000 pounds	(D)	(D)	(D)
Once refined oil on hand end of month ..... 1,000 pounds	39,105	49,068	45,743
Coconut			
Refine			
Crude oil processed in refining ..... 1,000 pounds	(D)	21,820	27,517
Once refined oil produced ..... 1,000 pounds	(D)	21,467	27,173
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	45,457	37,709	36,275
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	73,610	63,340	91,176
Once refined oil on hand end of month ..... 1,000 pounds	(D)	58,352	60,939
Corn			
Crush			
Crude oil produced ..... 1,000 pounds	143,271	153,561	123,709
Refine			
Crude oil processed in refining ..... 1,000 pounds	149,306	144,123	153,521
Once refined oil produced ..... 1,000 pounds	146,626	140,762	149,294
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	169,951	106,057	126,002
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	83,120	101,186	108,158
Once refined oil on hand end of month ..... 1,000 pounds	85,903	74,074	71,054

See footnote(s) at end of table.

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

Item		April 2023	March 2024	April 2024
Palm kernel				
Consumption				
Once refined oil removed for use in processing	1,000 pounds	24,541	36,105	41,814
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	51,053	87,191	87,200
Palm				
Consumption				
Once refined oil removed for use in processing	1,000 pounds	170,123	181,468	213,684
Removed for edible use in processing	1,000 pounds	165,931	178,855	210,910
Removed for inedible use in processing	1,000 pounds	4,192	2,613	2,774
Stocks				
Once refined oil on hand end of month	1,000 pounds	339,133	315,922	298,938
Peanut				
Refine				
Crude oil processed in refining	1,000 pounds	30,092	15,901	(D)
Once refined oil produced	1,000 pounds	28,402	15,031	(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	24,678	18,258	(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)	21,633	19,215
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	5,299	5,380	8,676
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	7,753	3,503	9,078
Once refined oil on hand end of month	1,000 pounds	(D)	(D)	(D)
Sunflower				
Refine				
Crude oil processed in refining	1,000 pounds	30,736	39,828	28,265
Once refined oil produced	1,000 pounds	29,753	38,638	26,692
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)	26,266
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	60,181	34,289	36,714
Once refined oil on hand end of month	1,000 pounds	40,097	27,466	26,146

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

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

Item	April 2023	March 2024	April 2024
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Choice white grease			
Production	103,830	109,828	97,826
Removed for inedible use	101,360	109,617	98,656
Stocks on hand end of month	7,374	6,484	5,694
Feather meal			
Production	85,473	79,874	75,001
Stocks on hand end of month	16,088	17,190	16,139
Lard			
Production	28,210	21,766	15,925
Removed for use in processing	24,766	22,301	19,040
Removed for edible use in processing	(D)	(D)	(D)
Removed for inedible use in processing	(D)	(D)	(D)
Stocks on hand end of month	12,494	(D)	(D)
Meat meal, meat and bone meal, and dry rendered tankage			
Production	426,655	504,290	423,016
Stocks on hand end of month	53,012	52,464	54,752
Other grease			
Production	25,659	23,110	18,482
Removed for inedible use in processing	24,849	25,949	18,163
Stocks on hand end of month	(D)	(D)	(D)
Poultry fats			
Production	171,410	170,818	161,219
Removed for inedible use in processing	170,670	177,141	155,484
Stocks on hand end of month	25,214	27,029	32,648
Poultry by-product meals			
Production	305,559	328,970	299,028
Stocks on hand end of month	74,146	101,929	110,987
Tallow, edible			
Production	77,500	91,654	74,881
Removed for use in processing	84,150	86,039	73,675
Removed for edible use in processing	(D)	(D)	(D)
Removed for inedible use in processing	(D)	(D)	(D)
Stocks on hand end of month	22,786	22,087	10,534
Tallow, inedible			
Production	311,100	355,531	311,811
Removed for inedible use in processing	327,187	365,483	313,906
Stocks on hand end of month	(D)	78,085	83,876
Tallow, technical			
Production	98,289	112,429	126,838
Removed for inedible use in processing	97,332	113,149	121,689
Stocks on hand end of month	(D)	(D)	(D)
Yellow grease			
Production	172,826	(D)	(D)
Removed for inedible use in processing	178,968	(D)	(D)
Stocks on hand end of month	113,101	(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

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- Joshua Bates – Hemp, Oats, Soybeans.....(202) 690-3234
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- David Colwell – Fats and Oils, Flour Milling Products .....(202) 720-8800
- Michelle Harder – Hay, Peanuts.....(202) 690-8533
- James Johanson – Rye, Wheat.....(202) 720-8068
- Greg Lemmons – Corn, Proso Millet, Rice.....(202) 720-9526
- Becky Sommer – Cotton, Cotton Ginnings, Sorghum.....(202) 720-5944
- Travis Thorson – Canola, Rapeseed, Safflower, Sunflower .....(202) 720-7369

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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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