



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

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## Highlights

**March 2023** contained 31 days.

**April 2023** contained 30 days.

**Soybeans crushed** for crude oil was 5.61 million tons (187 million bushels) in April 2023, compared with 5.94 million tons (198 million bushels) in March 2023 and 5.43 million tons (181 million bushels) in April 2022. Crude oil produced was 2.24 billion pounds down 4 percent from March 2023 but up 4 percent from April 2022. Soybean once refined oil production at 1.68 billion pounds during April 2023 decreased 8 percent from March 2023 and decreased 1 percent from April 2022.

**Canola seeds crushed** for crude oil was 172,744 tons in April 2023, compared with 191,291 tons in March 2023 and 145,198 tons in April 2022. Canola crude oil produced was 137 million pounds, down 12 percent from March 2023 but up 21 percent from April 2022. Canola once refined oil production, at 151 million pounds during April 2023, was down 1 percent from March 2023 but up 21 percent from April 2022.

**Cottonseed once refined** oil production, at 31.6 million pounds during April 2023, was up less than 1 percent from March 2023 but down 25 percent from April 2022.

**Edible tallow** production was 78.6 million pounds during April 2023, down 14 percent from March 2023 but up less than 1 percent from April 2022. Inedible tallow production was 355 million pounds during April 2023, down 5 percent from March 2023 but up 21 percent from April 2022. Technical tallow production was 96.3 million pounds during April 2023, down 4 percent from March 2023 and down 13 percent from April 2022. Choice white grease production, at 101 million pounds during April 2023, decreased 15 percent from March 2023 and decreased 17 percent from April 2022.

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

Item	April 2022	March 2023	April 2023
<b>Crush</b>			
Soybeans crushed..... tons	5,426,712	5,939,012	5,609,607
Crude oil produced.....1,000 pounds	2,143,118	2,339,581	2,236,301
Cake and meal produced..... tons	3,975,098	4,402,548	4,162,406
For animal feed..... tons	3,923,465	4,358,712	4,119,418
For edible protein products..... tons	51,633	43,836	42,988
Millfeed produced..... tons	279,447	295,613	271,229
<b>Refine</b>			
Crude oil processed in refining.....1,000 pounds	1,738,580	1,853,676	1,716,391
Once refined oil produced.....1,000 pounds	1,700,054	1,811,949	1,676,007
<b>Consumption</b>			
Crude oil removed for inedible use in processing.....1,000 pounds	126,614	(D)	(D)
Once refined oil removed for use in processing.....1,000 pounds	1,645,056	1,833,386	1,655,547
Removed for edible use in processing.....1,000 pounds	1,200,615	1,306,300	1,151,039
Removed for inedible use in processing.....1,000 pounds	444,441	527,086	504,508
<b>Stocks</b>			
Cake and meal on hand end of month..... tons	406,867	324,292	521,814
Millfeed on hand end of month..... tons	38,149	54,758	56,021
Crude oil on hand end of month.....1,000 pounds	2,018,976	1,946,997	2,078,543
Crusher.....1,000 pounds	1,006,036	1,010,089	1,092,562
Refiner.....1,000 pounds	367,769	308,795	321,035
Offsite.....1,000 pounds	645,171	628,113	664,946
Once refined oil on hand end of month.....1,000 pounds	405,216	440,516	461,136

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

## Soybean Crushing – Regional: April 2023 with Comparisons

Region	Soybeans crushed		
	April 2022	March 2023	April 2023
	(tons)	(tons)	(tons)
Illinois .....	653,419	716,050	662,342
Iowa.....	1,110,486	1,254,041	1,216,961
North and East <sup>1</sup> .....	1,298,834	1,325,535	1,336,471
North Central <sup>2</sup> .....	881,353	993,561	880,680
South, West and Pacific <sup>3</sup> .....	582,228	677,617	635,471
West Central <sup>4</sup> .....	900,392	972,208	877,682
Region	Crude oil produced		
	April 2022	March 2023	April 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois .....	261,646	290,186	266,256
Iowa.....	440,696	496,091	488,321
North and East <sup>1</sup> .....	509,780	510,961	524,651
North Central <sup>2</sup> .....	339,642	381,024	345,950
South, West and Pacific <sup>3</sup> .....	224,499	261,056	244,644
West Central <sup>4</sup> .....	366,855	400,263	366,479
Region	Crude oil stocks at crusher		
	April 2022	March 2023	April 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois .....	144,528	166,220	157,383
Iowa.....	202,283	210,635	184,120
North and East <sup>1</sup> .....	192,298	229,345	255,806
North Central <sup>2</sup> .....	275,859	224,344	266,064
South, West and Pacific <sup>3</sup> .....	70,968	66,278	84,615
West Central <sup>4</sup> .....	120,100	113,267	144,574
Region	Cake and meal produced		
	April 2022	March 2023	April 2023
	(tons)	(tons)	(tons)
Illinois .....	470,707	512,452	487,249
Iowa.....	822,746	941,704	908,097
North and East <sup>1</sup> .....	939,151	982,273	991,315
North Central <sup>2</sup> .....	653,460	743,481	650,443
South, West and Pacific <sup>3</sup> .....	424,226	498,227	470,661
West Central <sup>4</sup> .....	664,808	724,411	654,641
Region	Cake and meal stocks		
	April 2022	March 2023	April 2023
	(tons)	(tons)	(tons)
Illinois .....	61,559	59,678	81,094
Iowa.....	55,870	42,980	81,860
North and East <sup>1</sup> .....	121,964	103,484	164,964
North Central <sup>2</sup> .....	53,073	45,030	54,587
South, West and Pacific <sup>3</sup> .....	73,729	35,429	51,147
West Central <sup>4</sup> .....	40,672	37,691	88,162

<sup>1</sup> North and East includes Indiana, Kentucky, Maryland, Ohio, Pennsylvania and Virginia.

<sup>2</sup> North Central includes Michigan, Minnesota, North Dakota and South Dakota.

<sup>3</sup> South, West, and Pacific includes Alabama, Arkansas, California, Georgia, Louisiana, Mississippi, North Carolina and South Carolina.

<sup>4</sup> West Central includes Kansas, Missouri and Nebraska.

**Selected Oilseed Crushing, Production, Consumption and Stocks – United States: April 2023  
with Comparisons**

Item	April 2022	March 2023	April 2023
<b>Canola</b>			
Crush			
Seeds crushed..... tons	145,198	191,291	172,744
Crude oil produced.....1,000 pounds	113,295	154,876	136,571
Cake and meal produced..... tons	84,805	112,018	103,926
Refine			
Crude oil processed in refining.....1,000 pounds	128,622	156,645	155,080
Once refined oil produced.....1,000 pounds	125,200	152,471	151,183
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	129,434	157,923	157,303
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	41,077	(D)	(D)
Crude oil on hand end of month.....1,000 pounds	61,319	74,092	66,315
Once refined oil on hand end of month.....1,000 pounds	89,036	103,413	102,794
<b>Cottonseed</b>			
Crush			
Seeds crushed..... tons	126,849	136,880	115,598
Crude oil produced.....1,000 pounds	35,304	33,483	34,139
Cake and meal produced..... tons	56,677	55,723	47,837
Refine			
Crude oil processed in refining.....1,000 pounds	43,107	32,132	32,390
Once refined oil produced.....1,000 pounds	42,014	31,507	31,613
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	43,418	28,335	31,010
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	10,930	23,316	32,277
Crude oil on hand end of month.....1,000 pounds	(D)	(D)	(D)
Once refined oil on hand end of month.....1,000 pounds	24,748	38,214	39,105
<b>Coconut</b>			
Refine			
Crude oil processed in refining.....1,000 pounds	40,996	32,135	(D)
Once refined oil produced.....1,000 pounds	40,416	31,550	(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	64,448	41,167	45,457
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	108,248	78,121	73,610
Once refined oil on hand end of month.....1,000 pounds	(D)	(D)	(D)
<b>Corn</b>			
Crush			
Crude oil produced.....1,000 pounds	131,781	154,472	143,271
Refine			
Crude oil processed in refining.....1,000 pounds	158,986	143,026	149,306
Once refined oil produced.....1,000 pounds	155,391	140,069	146,626
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	140,063	131,409	169,951
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	97,003	106,982	83,120
Once refined oil on hand end of month.....1,000 pounds	88,200	97,215	85,903

See footnote(s) at end of table.

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

Item	April 2022	March 2023	April 2023
<b>Palm kernel</b>			
Consumption			
Once refined oil removed for use in processing..... 1,000 pounds	39,516	30,970	24,541
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	63,768	57,766	51,053
<b>Palm</b>			
Consumption			
Once refined oil removed for use in processing..... 1,000 pounds	232,640	212,217	170,123
Removed for edible use in processing ..... 1,000 pounds	226,905	210,370	165,931
Removed for inedible use in processing..... 1,000 pounds	5,735	1,847	4,192
Stocks			
Once refined oil on hand end of month..... 1,000 pounds	372,291	349,658	339,133
<b>Peanut</b>			
Refine			
Crude oil processed in refining..... 1,000 pounds	20,106	18,392	30,092
Once refined oil produced..... 1,000 pounds	19,303	17,613	28,402
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	22,096	21,207	24,678
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)	25,961	(D)
Once refined oil on hand end of month..... 1,000 pounds	(D)	(D)	(D)
<b>Safflower</b>			
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)	3,782	5,299
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	9,945	11,838	7,753
Once refined oil on hand end of month..... 1,000 pounds	(D)	(D)	(D)
<b>Sunflower</b>			
Refine			
Crude oil processed in refining..... 1,000 pounds	42,213	44,285	30,736
Once refined oil produced..... 1,000 pounds	39,780	43,400	29,753
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	35,701	(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	(D)	57,952	60,181
Once refined oil on hand end of month..... 1,000 pounds	18,539	50,455	40,097
<b>Vegetable foots, raw and acidulated</b>			
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)

- Represents zero.

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

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

Item	April 2022 (1,000 pounds)	March 2023 (1,000 pounds)	April 2023 (1,000 pounds)
<b>Choice white grease</b>			
Production.....	121,473	118,738	100,680
Removed for inedible use.....	121,506	119,212	98,582
Stocks on hand end of month.....	6,101	5,277	7,374
<b>Feather meal</b>			
Production.....	73,203	92,220	84,001
Stocks on hand end of month.....	17,031	18,413	17,837
<b>Lard</b>			
Production.....	19,982	25,655	30,849
Removed for use in processing.....	23,417	20,122	23,667
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	12,768	9,050	12,494
<b>Meat meal, meat and bone meal, and dry rendered tankage</b>			
Production.....	418,724	503,002	447,725
Stocks on hand end of month.....	67,578	54,173	47,304
<b>Other grease</b>			
Production.....	29,031	30,803	26,214
Removed for inedible use in processing.....	27,635	35,115	25,227
Stocks on hand end of month.....	(D)	(D)	(D)
<b>Poultry fats</b>			
Production.....	138,994	169,953	163,826
Removed for inedible use in processing.....	134,036	170,687	163,725
Stocks on hand end of month.....	35,678	24,655	24,763
<b>Poultry by-product meals</b>			
Production.....	276,285	341,204	324,953
Stocks on hand end of month.....	94,570	58,449	67,344
<b>Tallow, edible</b>			
Production.....	78,422	91,469	78,580
Removed for use in processing.....	87,075	76,297	85,244
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)	(D)	22,384
<b>Tallow, inedible</b>			
Production.....	293,703	374,079	355,430
Removed for inedible use in processing.....	290,791	378,197	349,851
Stocks on hand end of month.....	113,130	79,080	84,555
<b>Tallow, technical</b>			
Production.....	110,277	99,955	96,335
Removed for inedible use in processing.....	108,624	101,622	95,378
Stocks on hand end of month.....	(D)	(D)	(D)
<b>Yellow grease</b>			
Production.....	170,873	199,791	187,488
Removed for inedible use in processing.....	226,008	210,972	188,088
Stocks on hand end of month.....	61,283	102,566	100,365

(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](mailto: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
Chris Hawthorn – Corn, Flaxseed, Proso Millet.....	(202) 720-2127
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](mailto:nass@usda.gov).

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