



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

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Highlights

May 2023 contained 31 days.

June 2023 contained 30 days.

Soybeans crushed for crude oil was 5.24 million tons (175 million bushels) in June 2023, compared with 5.68 million tons (189 million bushels) in May 2023 and 5.22 million tons (174 million bushels) in June 2022. Crude oil produced was 2.07 billion pounds down 7 percent from May 2023 but up less than 1 percent from June 2022. Soybean once refined oil production at 1.73 billion pounds during June 2023 decreased 6 percent from May 2023 but increased 5 percent from June 2022.

Canola seeds crushed for crude oil was 158,305 tons in June 2023, compared with 140,590 tons in May 2023 and 147,715 tons in June 2022. Canola crude oil produced was 128 million pounds, up 12 percent from May 2023 and up 7 percent from June 2022. Canola once refined oil production, at 135 million pounds during June 2023, was up 25 percent from May 2023 and up 8 percent from June 2022.

Cottonseed once refined oil production, at 29.3 million pounds during June 2023, was up 18 percent from May 2023 but down 31 percent from June 2022.

Edible tallow production was 87.1 million pounds during June 2023, up 4 percent from May 2023 but down 9 percent from June 2022. Inedible tallow production was 281 million pounds during June 2023, down 16 percent from May 2023 and down 23 percent from June 2022. Technical tallow production was 107 million pounds during June 2023, down 3 percent from May 2023 but up 1 percent from June 2022. Choice white grease production, at 110 million pounds during June 2023, decreased 7 percent from May 2023 and decreased 4 percent from June 2022.

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

Item	June 2022	May 2023	June 2023
Crush			
Soybeans crushed tons	5,222,412	5,679,096	5,236,516
Crude oil produced1,000 pounds	2,068,578	2,228,372	2,074,857
Cake and meal produced tons	3,837,474	4,182,704	3,886,684
For animal feed tons	3,777,123	4,145,458	3,843,555
For edible protein products tons	60,351	37,246	43,129
Millfeed produced tons	269,091	278,564	265,644
Refine			
Crude oil processed in refining1,000 pounds	1,678,171	1,887,942	1,761,023
Once refined oil produced1,000 pounds	1,639,717	1,841,848	1,726,022
Consumption			
Crude oil removed for inedible use in processing1,000 pounds	159,139	(D)	(D)
Once refined oil removed for use in processing1,000 pounds	1,653,391	1,850,213	1,757,969
Removed for edible use in processing1,000 pounds	1,151,293	1,254,726	1,168,498
Removed for inedible use in processing1,000 pounds	502,098	595,487	589,471
Stocks			
Cake and meal on hand end of month tons	324,073	388,763	331,209
Millfeed on hand end of month tons	33,231	39,776	34,355
Crude oil on hand end of month1,000 pounds	1,911,685	1,924,950	1,770,166
Crusher1,000 pounds	961,721	941,244	889,944
Refiner1,000 pounds	327,583	317,892	279,811
Offsite1,000 pounds	622,381	665,814	600,411
Once refined oil on hand end of month1,000 pounds	403,819	461,272	432,869

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

Soybean Crushing – Regional: June 2023 with Comparisons

Region	Soybeans crushed		
	June 2022	May 2023	June 2023
	(tons)	(tons)	(tons)
Illinois	545,170	663,963	639,556
Iowa.....	1,046,066	1,155,161	1,059,054
North and East ¹	1,177,246	1,283,471	1,143,567
North Central ²	973,607	969,711	875,341
South, West and Pacific ³	549,449	641,692	583,067
West Central ⁴	930,874	965,098	935,931
Region	Crude oil produced		
	June 2022	May 2023	June 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	226,095	260,262	258,909
Iowa.....	418,181	458,126	419,952
North and East ¹	452,011	505,329	452,665
North Central ²	380,059	371,420	335,498
South, West and Pacific ³	213,559	248,459	227,986
West Central ⁴	378,673	384,776	379,847
Region	Crude oil stocks at crusher		
	June 2022	May 2023	June 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	161,686	122,002	138,926
Iowa.....	165,164	157,684	136,533
North and East ¹	183,835	243,405	228,647
North Central ²	253,775	201,120	191,505
South, West and Pacific ³	63,317	87,928	67,283
West Central ⁴	133,944	129,105	127,050
Region	Cake and meal produced		
	June 2022	May 2023	June 2023
	(tons)	(tons)	(tons)
Illinois	405,904	475,250	470,494
Iowa.....	773,015	856,941	781,650
North and East ¹	849,835	953,075	853,953
North Central ²	718,278	705,163	652,019
South, West and Pacific ³	403,849	475,367	432,987
West Central ⁴	686,593	716,908	695,581
Region	Cake and meal stocks		
	June 2022	May 2023	June 2023
	(tons)	(tons)	(tons)
Illinois	62,138	49,029	(D)
Iowa.....	47,938	48,722	42,485
North and East ¹	103,651	174,554	100,671
North Central ²	46,809	49,372	43,635
South, West and Pacific ³	18,775	33,417	(D)
West Central ⁴	44,762	33,669	47,375

(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: June 2023 with Comparisons

Item	June 2022	May 2023	June 2023
Canola			
Crush			
Seeds crushed..... tons	147,715	140,590	158,305
Crude oil produced 1,000 pounds	119,992	114,408	127,999
Cake and meal produced tons	86,797	76,920	93,550
Refine			
Crude oil processed in refining 1,000 pounds	127,618	111,061	139,311
Once refined oil produced 1,000 pounds	124,410	107,909	134,810
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	116,943	125,334	135,231
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	38,456	(D)	(D)
Crude oil on hand end of month 1,000 pounds	49,750	71,326	71,429
Once refined oil on hand end of month 1,000 pounds	104,882	87,638	88,070
Cottonseed			
Crush			
Seeds crushed..... tons	152,410	77,100	112,069
Crude oil produced 1,000 pounds	40,413	24,744	28,808
Cake and meal produced..... tons	64,715	36,517	46,755
Refine			
Crude oil processed in refining 1,000 pounds	43,435	25,640	29,985
Once refined oil produced 1,000 pounds	42,447	24,814	29,262
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	43,647	35,364	28,622
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	22,277	32,320	44,954
Crude oil on hand end of month 1,000 pounds	(D)	(D)	(D)
Once refined oil on hand end of month 1,000 pounds	23,281	28,969	31,031
Coconut			
Refine			
Crude oil processed in refining 1,000 pounds	41,906	(D)	38,420
Once refined oil produced 1,000 pounds	41,438	(D)	38,315
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	51,426	45,475	44,501
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	69,367	73,489	71,699
Once refined oil on hand end of month 1,000 pounds	(D)	(D)	(D)
Corn			
Crush			
Crude oil produced 1,000 pounds	130,557	159,873	160,433
Refine			
Crude oil processed in refining 1,000 pounds	155,053	137,623	135,130
Once refined oil produced 1,000 pounds	152,221	135,939	131,616
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	160,437	145,655	147,220
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	93,184	72,203	79,543
Once refined oil on hand end of month 1,000 pounds	78,953	84,855	54,807

See footnote(s) at end of table.

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

Item	June 2022	May 2023	June 2023
Palm kernel			
Consumption			
Once refined oil removed for use in processing.....1,000 pounds	41,294	23,887	22,359
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	60,323	53,833	62,207
Palm			
Consumption			
Once refined oil removed for use in processing.....1,000 pounds	232,312	190,797	195,764
Removed for edible use in processing1,000 pounds	226,516	185,109	189,849
Removed for inedible use in processing.....1,000 pounds	5,796	5,688	5,915
Stocks			
Once refined oil on hand end of month.....1,000 pounds	371,338	356,708	356,514
Peanut			
Refine			
Crude oil processed in refining.....1,000 pounds	22,486	23,171	29,558
Once refined oil produced.....1,000 pounds	21,884	23,147	27,841
Consumption			
Crude oil removed for inedible use in processing1,000 pounds	(D)	(D)	(D)
Once refined oil removed for use in processing.....1,000 pounds	24,704	22,297	24,210
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)	26,627	28,201
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 processing1,000 pounds	(D)	(D)	(D)
Once refined oil removed for use in processing.....1,000 pounds	4,741	5,073	2,682
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	8,657	7,819	10,020
Once refined oil on hand end of month.....1,000 pounds	(D)	(D)	(D)
Sunflower			
Refine			
Crude oil processed in refining.....1,000 pounds	39,473	25,595	50,679
Once refined oil produced.....1,000 pounds	37,627	24,562	48,639
Consumption			
Crude oil removed for inedible use in processing1,000 pounds	(D)	(D)	(D)
Once refined oil removed for use in processing.....1,000 pounds	37,958	(D)	31,691
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	22,448	51,038	51,984
Once refined oil on hand end of month.....1,000 pounds	16,898	28,042	35,684
Vegetable foots, raw and acidulated			
Refine			
Oil produced1,000 pounds	(D)	(D)	(D)
Consumption			
Oil removed for inedible use in processing.....1,000 pounds	(D)	(D)	(D)
Stocks			
Oil on hand end of month1,000 pounds	(D)	(D)	(D)

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

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

Item	June 2022	May 2023	June 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Choice white grease			
Production.....	113,678	118,053	109,628
Removed for inedible use	114,790	119,232	110,953
Stocks on hand end of month	4,131	6,182	4,802
Feather meal			
Production.....	93,985	102,046	91,202
Stocks on hand end of month	16,601	17,744	16,404
Lard			
Production.....	22,014	29,384	23,975
Removed for use in processing	24,987	31,934	28,592
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month	10,107	11,634	(D)
Meat meal, meat and bone meal, and dry rendered tannage			
Production.....	488,158	450,452	435,622
Stocks on hand end of month	71,618	53,508	54,760
Other grease			
Production.....	35,758	18,069	23,015
Removed for inedible use in processing	35,822	23,713	25,078
Stocks on hand end of month	(D)	(D)	(D)
Poultry fats			
Production.....	175,255	197,783	182,772
Removed for inedible use in processing	177,201	202,052	175,550
Stocks on hand end of month	32,109	20,944	27,951
Poultry by-product meals			
Production.....	317,565	348,432	312,357
Stocks on hand end of month	112,957	82,947	74,254
Tallow, edible			
Production.....	95,201	83,634	87,103
Removed for use in processing	99,293	94,994	87,043
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month	16,786	11,615	11,830
Tallow, inedible			
Production.....	366,186	334,453	281,213
Removed for inedible use in processing	374,825	341,330	290,831
Stocks on hand end of month	(D)	(D)	(D)
Tallow, technical			
Production.....	106,453	110,558	107,363
Removed for inedible use in processing	106,086	110,267	107,569
Stocks on hand end of month	(D)	(D)	(D)
Yellow grease			
Production.....	214,059	178,167	189,835
Removed for inedible use in processing	197,128	187,312	196,286
Stocks on hand end of month	103,207	103,946	97,494

(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
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