

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

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Highlights

November 2023 contained 30 days. **December 2023** contained 31 days.

Soybeans crushed for crude oil was 6.13 million tons (204 million bushels) in December 2023, compared with 6.00 million tons (200 million bushels) in November 2023 and 5.62 million tons (187 million bushels) in December 2022. Crude oil produced was 2.38 billion pounds, up 2 percent from November 2023 and up 8 percent from December 2022. Soybean once refined oil production at 1.71 billion pounds during December 2023 increased 1 percent from November 2023 and increased 8 percent from December 2022.

Canola seeds crushed for crude oil was 192,796 tons in December 2023, compared with 219,843 tons in November 2023 and 181,455 tons in December 2022. Canola crude oil produced was 155 million pounds, down 12 percent from November 2023 but up 6 percent from December 2022. Canola once refined oil production, at 156 million pounds during December 2023, was down 1 percent from November 2023 but up 16 percent from December 2022.

Cottonseed once refined oil production, at 32.0 million pounds during December 2023, was up 20 percent from November 2023 and up 18 percent from December 2022.

Edible tallow production was 85.4 million pounds during December 2023, down 14 percent from November 2023 but up 10 percent from December 2022. Inedible tallow production was 324 million pounds during December 2023, up 1 percent from November 2023 but down 9 percent from December 2022. Technical tallow production was 121 million pounds during December 2023, down 2 percent from November 2023 but up 22 percent from December 2022. Choice white grease production, at 113 million pounds during December 2023, decreased 5 percent from November 2023 but increased 2 percent from December 2022.

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

Item	December 2022	November 2023	December 2023
Crush			
Soybeans crushedtons	5,622,561	6,002,708	6,128,558
Crude oil produced1,000 pounds	2,195,358	2,324,668	2,376,237
Cake and meal producedtons	4,154,614	4,399,878	4,503,856
For animal feedtons	4,124,285	4,349,599	4,447,916
For edible protein productstons	30,329	50,279	55,940
Millfeed producedtons	282,795	306,330	314,486
Refine			
Crude oil processed in refining1,000 pounds	1,615,612	1,737,002	1,755,288
Once refined oil produced1,000 pounds	1,582,664	1,692,886	1,711,129
1	, ,	,,	, , -
Consumption			
Crude oil removed for inedible use in processing	(D)	189,542	(D)
Once refined oil removed for use in processing		1,682,018	1,670,436
Removed for edible use in processing1,000 pounds	1,083,254	1,181,952	1,144,324
Removed for inedible use in processing1,000 pounds	528,228	500,066	526,112
Stocks			
Cake and meal on hand end of monthtons	415,593	260.052	451,979
Millfeed on hand end of monthtons	40,284	44,385	48,781
Crude oil on hand end of month1,000 pounds	1,902,380	1,175,567	1,356,410
Crusher	1,014,514	728,717	869,075
Refiner1,000 pounds	355,265	200,541	231,904
Offsite	532,601	246,309	255,431
Once refined oil on hand end of month1,000 pounds	403,767	423,529	467,424

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

Soybean Crushing - Regional: December 2023 with Comparisons

	Soybeans crushed	
December 2022	November 2023	December 2023
(tons)	(tons)	(tons)
694 187	661 268	691,654
•		1,342,612
	* *	1,399,920
		1.007.726
•		722,034
•		964,612
545,724		904,012
December 2022	•	December 2023
-		(1,000 pounds)
, ,	, , ,	, , ,
*	*	273,411
		527,810
492,431	522,832	536,517
360,964	404,079	391,263
228.843	266.433	271,185
384,726	368,432	376,051
	Crude oil stocks at crusher	
December 2022	November 2023	December 2023
(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
(D)	95.608	150,350
		136,177
•		253,602
•		161,586
*	*	•
	\	52,60
120,146	()	114,759
		December 2023
,	, ,	(tons)
•		495,465
839,509	943,554	985,473
950,508	1,005,715	1,031,264
699,789	769,883	742,393
453.644	515.702	532,512
707,967	691,056	716,749
	Cake and meal stocks	
December 2022	November 2023	December 2023
(tons)	(tons)	(tons)
71,576	18,326	62,967
50,682	47,600	86,408
127,540	90,741	101,286
62,261	41,035	67,670
02.201		
45,452	22,223	57,750
	(tons) 694,187 1,134,458 1,283,246 944,508 616,438 949,724 December 2022 (1,000 pounds) 280,113 448,281 492,431 360,964 228,843 384,726 December 2022 (1,000 pounds) (D) 193,254 196,326 300,268 (D) 120,146 December 2022 (tons) 503,197 839,509 950,508 699,789 453,644 707,967 December 2022 (tons) December 2022 (tons) 71,576 50,682 127,540	December 2022 November 2023

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

North and East includes Indiana, Kentucky, Maryland, Ohio, Pennsylvania and Virginia.

North Central includes Michigan, Minnesota, North Dakota and South Dakota.

South, West, and Pacific includes Alabama, Arkansas, California, Georgia, Louisiana, Mississippi, North Carolina and South Carolina.

West Central includes Kansas, Missouri and Nebraska.

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

December 2022	November 2023	December 2023
· · · · · · · · · · · · · · · · · · ·	,	192,796
	- /	154,920
104,207	125,765	114,827
400.004	400.007	100.010
		163,646
134,938	157,769	156,144
(D)	(D)	(D)
\ ,		(D)
	·	154,373
	` '	(D) (D)
(D)	(D)	(D)
42 221	(D)	(D)
		92,735
		96,989
103,070	92,510	30,303
116 905	116 560	138,023
· · · · · · · · · · · · · · · · · · ·	·	37,090
		59,585
10,100	00,001	00,000
27.617	27.198	32,754
· · · · · · · · · · · · · · · · · · ·	,	32,029
	-,	, , , , ,
(D)	(D)	(D)
30,730	27,223	28,198
(D)	(D)	(D)
(D)	(D)	(D)
31,286	29,930	27,930
(D)	(D)	(D)
31,793	27,843	33,364
	,	26,072
39,570	24,893	25,808
(5)	(5)	(5)
		(D)
	·	29,062
` '	` '	(D)
(D)	(D)	(D)
00.010	E9 700	59,162
96,919 (D)	56,700 (D)	65,485
163 919	166 582	149,196
100,010	100,002	140,100
156 617	169 648	150.678
	,	146,590
100,120	100,001	. 10,000
(D)	(D)	(D)
	156,060	119,251
(D)	(D)	(D)
	, ,	(D)
(D)	(D)	וטו
(D)	(D)	(D)
(D) 86,610	(D) 80,126	(D)
	181,455 145,914 104,207 139,234 134,938 (D) 140,154 (D) (D) 42,221 87,567 103,076 116,905 32,247 48,103 27,617 27,030 (D) 30,730 (D) (D) 31,286 (D) 31,793 40,036 39,570 (D) 46,645 (D) (D) 98,919 (D) 163,919 156,617 153,120 (D)	181,455

See footnote(s) at end of table.

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

Item	December 2022	November 2023	December 2023
Palm kernel			
Consumption			
Once refined oil removed for use in processing1,000 pounds	31,589	44,170	43,017
Removed for edible use in processing1,000 pounds	(D)	(D)	(D)
Removed for inedible use in processing1,000 pounds	(D)	(D)	(D)
Stocks			
Once refined oil on hand end of month1,000 pounds	62,653	85,836	92,256
Palm			
Consumption			
Once refined oil removed for use in processing	193,229	191,707	166,646
Removed for edible use in processing1,000 pounds	182,989	189,158	(D)
Removed for inedible use in processing	10,240	2,549	(D)
Stocks	•		()
Once refined oil on hand end of month1,000 pounds	377,887	339,532	358,223
Peanut			
Refine			
Crude oil processed in refining	28.168	22,832	(D)
Once refined oil produced	26,670	21,525	(D)
Consumption	_=,,	,	(-)
Crude oil removed for inedible use in processing	(D)	(D)	(D)
Once refined oil removed for use in processing	23,513	27,037	18.619
Removed for edible use in processing	(D)	(D)	(D)
Removed for inedible use in processing	(D)	(D)	(D)
Stocks	(-)	(-)	(-)
Crude oil on hand end of month1,000 pounds	25,313	21,871	21,862
Once refined oil on hand end of month1,000 pounds	(D)	(D)	(D)
Safflower			
Refine			
Crude oil processed in refining	(D)	(D)	(D)
Once refined oil produced1,000 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 processing1,000 pounds	4,020	3,943	3,5êÓ
Removed for edible use in processing1,000 pounds	(D)	(D)	(D)
Removed for inedible use in processing	(D)	(D)	(D)
Stocks	, ,	, ,	, ,
Crude oil on hand end of month1,000 pounds	7,108	5,329	3,393
Once refined oil on hand end of month1,000 pounds	(D)	(D)	(D)
Sunflower			
Refine			
Crude oil processed in refining	30,984	26,474	33,148
Once refined oil produced	29,869	25,268	31,868
Consumption	,	,	,
Crude oil removed for inedible use in processing1,000 pounds	(D)	(D)	(D)
Once refined oil removed for use in processing1,000 pounds	29,082	31,878	31,776
Removed for edible use in processing	,	(D)	(D)
	(D)	\ /	(D)
Stocks	(-)	(-)	(-)
	46,632	45,997	41,044
Once refined oil on hand end of month	48,473	39,389	37,572
Once refined oil removed for use in processing	29,082 (D) (D) 46,632	31,878 (D) (D) 45,997	4

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

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

Item	December 2022	November 2023	December 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Choice white grease			
Production		118,975	112,909
Removed for inedible use	111,094	117,475	112,503
Stocks on hand end of month	6,654	6,870	7,276
Feather meal			
Production	90,640	89,588	78,396
Stocks on hand end of month	18,350	13,067	10,824
Lard			
Production	23,116	31,321	25,732
Removed for use in processing	22,625	34,185	25,179
Removed for edible use in processing	(D)	(D)	(D)
Removed for inedible use in processing		(D)	(D)
Stocks on hand end of month	5,546	8,071	8,624
Meat meal, meat and bone meal, and dry rendered tankage	, i	,	,
Production	490,739	524,539	497,802
Stocks on hand end of month		71,761	72,396
Other grease		,	,
Production	35,372	28,496	21.243
Removed for inedible use in processing		27,795	18.667
Stocks on hand end of month		(D)	(D)
Poultry fats	(2)	(-)	(-)
Production	173,886	222.197	185,715
Removed for inedible use in processing		222,031	191,331
Stocks on hand end of month	-	41.186	35,570
Poultry by-product meals		,	00,0.0
Production	351,019	400,983	343,512
Stocks on hand end of month		94,491	101,358
Tallow, edible		0.,.0.	,
Production	77.324	98.797	85.396
Removed for use in processing	, -	99,768	84,795
Removed for edible use in processing		(D)	(D)
Removed for inedible use in processing		(D)	(D)
Stocks on hand end of month		10,817	11,332
Tallow, inedible		10,017	11,002
Production	356,800	320,372	323,825
Removed for inedible use in processing		316,371	328,080
Stocks on hand end of month		(D)	320,000 (D)
Tallow, technical		(D)	(D)
Production	99,627	123,585	121,288
Removed for inedible use in processing		124,908	121,266
Stocks on hand end of month		,	,
Yellow grease	(D)	(D)	(D)
	176 006	144.040	(D)
Production		144,949	(D)
Removed for inedible use in processing		126,096	(D)
Stocks on hand end of month	98,977	116,513	(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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