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

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Highlights

April 2017 contained 30 days.
May 2017 contained 31 days.

Soybeans crushed for crude oil was 4.72 million tons (157 million bushels) in May 2017, compared to 4.49 million tons (150 million bushels) in April 2017 and 4.83 million tons (161 million bushels) in May 2016. Crude oil produced was 1.83 billion pounds up 6 percent from April 2017 but down 2 percent from May 2016. Soybean once refined oil production at 1.45 billion pounds during May 2017 increased 11 percent from April 2017 and increased slightly from May 2016.

Canola seeds crushed for crude oil was 114 thousand tons in May 2017, compared to 164 thousand tons in April 2017 and 132 thousand tons in May 2016. Canola crude oil produced was 93.1 million pounds down 34 percent from April 2017 and down 17 percent from May 2016. Canola once refined oil production at 99.5 million pounds during May 2017 was down 21 percent from April 2017 and down 27 percent from May 2016. Cottonseed once refined oil production at 34.9 million pounds during May 2017 was down 27 percent from April 2017 and down 21 percent from May 2016.

Edible tallow production was 73.3 million pounds during May 2017, up slightly from April 2017 but down 12 percent from May 2016. Inedible tallow production was 321 million pounds during May 2017, up 11 percent from April 2017 and up 10 percent from May 2016. Technical tallow production was 107 million pounds during May 2017, up 20 percent from April 2017 but down 5 percent from May 2016. Choice white grease production at 109 million pounds during May 2017 increased 7 percent from April 2017 but decreased 7 percent from May 2016.

Soybean Crushing, Production, Consumption and Stocks – United States: May 2017 with Comparisons

Item	May 2016	April 2017	May 2017
Crush			
Soybeans crushed ..... tons	4,825,833	4,492,906	4,718,334
Crude oil produced.....1,000 pounds	1,876,184	1,731,704	1,831,623
Cake and meal produced ..... tons	3,561,181	3,288,603	3,475,879
For animal feed ..... tons	3,503,877	3,237,172	3,424,542
For edible protein products..... tons	57,304	51,431	51,337
Millfeed produced..... tons	246,358	221,650	239,308
Refine			
Crude oil processed in refining .....1,000 pounds	1,474,278	1,328,242	1,475,970
Once refined oil produced .....1,000 pounds	1,439,174	1,300,518	1,445,158
Consumption			
Crude oil removed for inedible use in processing .....1,000 pounds	123,277	73,685	104,473
Once refined oil removed for use in processing.....1,000 pounds	1,418,293	1,437,429	1,598,712
Removed for edible use in processing.....1,000 pounds	1,091,362	1,171,733	1,290,385
Removed for inedible use in processing .....1,000 pounds	326,931	265,696	308,327
Stocks			
Cake and meal on hand end of month..... tons	343,411	367,686	348,601
Millfeed on hand end of month ..... tons	46,011	38,769	47,983
Crude oil on hand end of month .....1,000 pounds	2,063,240	1,843,950	1,886,025
Crusher .....1,000 pounds	1,001,700	894,803	876,645
Refiner .....1,000 pounds	451,654	346,491	399,662
Offsite .....1,000 pounds	609,886	602,656	609,718
Once refined oil on hand end of month.....1,000 pounds	402,898	389,873	379,236

Soybean Crushing – Regional: May 2017 with Comparisons

Region	Soybeans crushed		
	May 2016	April 2017	May 2017
	(tons)	(tons)	(tons)
Illinois	597,271	573,507	549,154
Iowa	1,028,376	952,417	1,051,302
North and East [1]	1,098,826	1,034,640	1,115,453
North Central [2]	648,696	637,805	607,298
South, West and Pacific [3]	649,712	484,594	540,921
West Central [4]	802,952	809,943	854,206

Region	Crude oil produced		
	May 2016	April 2017	May 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	236,503	226,617	218,366
Iowa	397,548	361,116	405,476
North and East [1]	426,247	406,268	436,505
North Central [2]	253,268	234,759	233,084
South, West and Pacific [3]	250,780	188,113	209,262
West Central [4]	311,838	314,831	328,930

Region	Crude oil stocks at crusher		
	May 2016	April 2017	May 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	195,936	196,621	187,476
Iowa	168,873	175,273	170,083
North and East [1]	287,145	201,587	225,011
North Central [2]	247,443	236,618	219,011
South, West and Pacific [3]	54,031	54,343	47,837
West Central [4]	48,272	30,361	27,227

Region	Cake and meal produced		
	May 2016	April 2017	May 2017
	(tons)	(tons)	(tons)
Illinois	435,508	417,359	398,152
Iowa	765,105	696,163	772,359
North and East [1]	809,399	763,093	823,617
North Central [2]	476,754	466,873	456,003
South, West and Pacific [3]	473,892	352,964	398,184
West Central [4]	600,523	592,151	627,564

Region	Cake and meal stocks		
	May 2016	April 2017	May 2017
	(tons)	(tons)	(tons)
Illinois	57,257	61,435	49,202
Iowa	86,597	79,494	90,568
North and East [1]	65,641	93,644	94,476
North Central [2]	44,241	49,873	23,402
South, West and Pacific [3]	41,857	32,401	51,815
West Central [4]	47,818	50,839	39,138

[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, North Carolina and South Carolina.
[4] West Central includes Kansas, Missouri and Nebraska.

Selected Oilseed Crushing, Production, Consumption and Stocks – United States: May 2017 with Comparisons

Item	May 2016	April 2017	May 2017
Canola			
Crush			
Seeds crushed ..... tons	131,688	164,103	113,599
Crude oil produced ..... 1,000 pounds	112,422	141,282	93,072
Cake and meal produced ..... tons	76,308	92,811	69,499
Refine			
Crude oil processed in refining ..... 1,000 pounds	140,461	129,821	102,291
Once refined oil produced ..... 1,000 pounds	136,502	126,667	99,453
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	148,301	148,682	132,287
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	53,785	47,695	43,789
Crude oil on hand end of month ..... 1,000 pounds	(D)	252,570	218,989
Once refined oil on hand end of month ..... 1,000 pounds	66,343	70,452	75,320
Cottonseed			
Crush			
Seeds crushed ..... tons	126,891	155,733	155,704
Crude oil produced ..... 1,000 pounds	38,434	47,395	46,922
Cake and meal produced ..... tons	57,448	69,240	67,464
Refine			
Crude oil processed in refining ..... 1,000 pounds	44,374	49,667	35,680
Once refined oil produced ..... 1,000 pounds	43,917	48,058	34,898
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	44,018	45,355	50,110
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	53,736	31,596	36,802
Crude oil on hand end of month ..... 1,000 pounds	(D)	(D)	(D)
Once refined oil on hand end of month ..... 1,000 pounds	54,869	56,610	44,537
Coconut			
Refine			
Crude oil processed in refining ..... 1,000 pounds	27,533	(D)	(D)
Once refined oil produced ..... 1,000 pounds	27,262	(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	59,505	60,635	72,370
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	83,525	(D)	(D)
Once refined oil on hand end of month ..... 1,000 pounds	31,817	50,373	48,563
Corn			
Crush			
Crude oil produced ..... 1,000 pounds	(NA)	192,904	215,334
Refine			
Crude oil processed in refining ..... 1,000 pounds	(S)	199,911	202,535
Once refined oil produced ..... 1,000 pounds	(S)	194,098	197,588
Consumption			
Crude oil removed for inedible use in processing ..... 1,000 pounds	(S)	(D)	(D)
Once refined oil removed for use in processing ..... 1,000 pounds	(S)	180,605	203,805
Removed for edible use in processing ..... 1,000 pounds	(S)	(D)	(D)
Removed for inedible use in processing ..... 1,000 pounds	(S)	(D)	(D)
Stocks			
Crude oil on hand end of month ..... 1,000 pounds	-	17,791	19,436
Once refined oil on hand end of month ..... 1,000 pounds	(S)	75,939	68,802

See footnote(s) at end of table.

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Selected Oilseed Crushing, Production, Consumption and Stocks – United States: May 2017 with Comparisons (continued)

Item	May 2016	April 2017	May 2017
Palm kernel			
Consumption			
Once refined oil removed for use in processing....1,000 pounds	41,046	26,887	28,024
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	116,127	72,581	62,551
Palm			
Consumption			
Once refined oil removed for use in processing....1,000 pounds	182,958	178,736	197,930
Removed for edible use in processing ....1,000 pounds	174,891	167,762	188,914
Removed for inedible use in processing....1,000 pounds	8,067	10,974	9,016
Stocks			
Once refined oil on hand end of month ....1,000 pounds	449,054	438,334	382,521
Peanut			
Refine			
Crude oil processed in refining....1,000 pounds	25,132	(D)	22,568
Once refined oil produced....1,000 pounds	22,171	(D)	20,551
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	18,684	15,687	20,351
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)	(D)	(D)
Once refined oil on hand end of month ....1,000 pounds	(D)	(D)	(D)
Safflower			
Refine			
Crude oil processed in refining....1,000 pounds	(NA)	5,430	11,771
Once refined oil produced....1,000 pounds	(NA)	5,430	11,771
Consumption			
Crude oil removed for inedible use in processing....1,000 pounds	(NA)	(D)	-
Once refined oil removed for use in processing....1,000 pounds	(NA)	6,906	3,654
Removed for edible use in processing ....1,000 pounds	(NA)	(D)	(D)
Removed for inedible use in processing....1,000 pounds	(NA)	(D)	(D)
Stocks			
Crude oil on hand end of month....1,000 pounds	(NA)	10,907	7,397
Once refined oil on hand end of month ....1,000 pounds	(NA)	(D)	11,599
Sunflower			
Refine			
Crude oil processed in refining....1,000 pounds	34,918	37,507	27,600
Once refined oil produced....1,000 pounds	32,827	35,751	25,963
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	30,753	49,977	43,353
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	51,563	77,729	81,539
Once refined oil on hand end of month ....1,000 pounds	31,102	62,221	44,232
Vegetable foots, raw and acidulated			
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.
(NA) Not available.
(S) Insufficient number of reports to establish an estimate.

Animal Fats and Oils Production, Consumption and Stocks – United States: May 2017 with Comparisons

Item	May 2016	April 2017	May 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Choice white grease			
Production	116,462	101,511	108,828
Removed for inedible use	115,463	102,134	108,962
Stocks on hand end of month	12,861	8,197	7,907
Feather meal			
Production	97,415	94,979	101,340
Stocks on hand end of month	20,674	22,452	21,892
Lard			
Production	31,471	28,099	31,898
Removed for use in processing	30,376	28,823	31,808
Removed for edible use in processing	(D)	(D)	(D)
Removed for inedible use in processing	(D)	(D)	(D)
Stocks on hand end of month	12,486	9,740	10,981
Meat meal, meat and bone meal, and dry rendered tankage			
Production	510,653	496,700	516,324
Stocks on hand end of month	46,803	49,155	47,105
Other grease			
Production	59,082	63,418	67,120
Removed for inedible use in processing	60,419	61,888	69,022
Stocks on hand end of month	(D)	(D)	(D)
Poultry fats			
Production	211,672	188,763	200,595
Removed for inedible use in processing	211,493	185,035	194,216
Stocks on hand end of month	21,550	23,706	22,148
Poultry by-product meals			
Production	262,634	245,796	275,136
Stocks on hand end of month	55,626	49,516	64,037
Tallow, edible			
Production	83,169	73,038	73,310
Removed for use in processing	84,325	74,234	72,726
Removed for edible use in processing	(D)	(D)	(D)
Removed for inedible use in processing	(D)	(D)	(D)
Stocks on hand end of month	16,808	16,791	21,547
Tallow, inedible			
Production	291,743	288,933	321,310
Removed for inedible use in processing	290,770	300,836	291,575
Stocks on hand end of month	71,354	71,045	73,612
Tallow, technical			
Production	112,546	88,733	106,920
Removed for inedible use in processing	120,518	98,874	111,728
Stocks on hand end of month	12,358	(D)	(D)
Yellow grease			
Production	166,724	158,108	171,255
Removed for inedible use in processing	170,951	150,161	157,939
Stocks on hand end of month	79,929	88,839	79,783

(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 Environmental, Economics, and Demographics Branch of the National Agricultural Statistics Service to contact for additional information. E-mail inquiries may be sent to nass@nass.usda.gov.

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- Doug Farmer – Vegetable Chemical Use..... (202) 720-7492
- Virginia Harris – Census of Agriculture..... (502) 582-5293
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