



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

ISSN: 2379-9862

Released March 1, 2017, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, United States Department of Agriculture (USDA).

Special Note

Edible grade corn oil production and stocks on the Wet Mill Producers questionnaire is now included in this report. Corn oil production has been removed from the *Grain Crushings and Co-Products Production* publication.

Highlights

December 2016 contained 31 days.

January 2017 contained 31 days.

Soybeans crushed for crude oil was 5.12 million tons (171 million bushels) in January 2017, compared to 5.07 million tons (169 million bushels) in December 2016 and 4.81 million tons (160 million bushels) in January 2016. Crude oil produced was 1.98 billion pounds up 1 percent from December 2016 and up 6 percent from January 2016. Soybean once refined oil production at 1.31 billion pounds during January 2017 decreased 7 percent from December 2016 but increased 6 percent from January 2016.

Canola seeds crushed for crude oil was 177 thousand tons in January 2017, compared to 179 thousand tons in December 2017 and 148 thousand tons in January 2016. Canola crude oil produced was 151 million pounds up 1 percent from December 2016 and up 20 percent from January 2016. Canola once refined oil production at 115 million pounds during January 2017 was down 2 percent from December 2016 and down 7 percent from January 2016. Cottonseed once refined oil production at 44.3 million pounds during January 2017 was down 14 percent from December 2016 and down 1 percent from January 2016.

Edible tallow production was 70.4 million pounds during January 2017, down 7 percent from December 2016 and down 21 percent from January 2016. Inedible tallow production was 289 million pounds during January 2017, down 8 percent from December 2016 but up 4 percent from January 2016. Technical tallow production was 95.8 million pounds during January 2017, down 4 percent from December 2016 but up 5 percent from January 2016. Choice white grease production at 113 million pounds during January 2017 decreased 7 percent from December 2016 but increased 1 percent from January 2016.

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

Item	January 2016	December 2016	January 2017
Crush			
Soybeans crushed	4,814,044	5,071,493	5,118,673
Crude oil produced.....	1,864,887	1,950,176	1,975,500
Cake and meal produced	3,539,791	3,690,668	3,747,833
For animal feed	3,476,488	3,628,323	3,683,153
For edible protein products.....	63,303	62,345	64,680
Millfeed produced.....	256,884	273,479	260,706
Refine			
Crude oil processed in refining.....	1,277,782	1,440,556	1,355,975
Once refined oil produced	1,236,602	1,406,505	1,311,096
Consumption			
Crude oil removed for inedible use in processing	(D)	120,200	89,489
Once refined oil removed for use in processing.....	1,283,248	1,376,935	1,272,244
Removed for edible use in processing.....	1,049,611	1,083,997	1,086,803
Removed for inedible use in processing.....	233,637	292,938	185,441
Stocks			
Cake and meal on hand end of month.....	368,063	403,901	387,020
Millfeed on hand end of month	42,235	42,509	38,589
Crude oil on hand end of month	1,724,459	1,505,351	1,704,002
Crusher	890,950	632,124	790,897
Refiner	341,226	303,620	327,178
Offsite	492,283	569,607	585,927
Once refined oil on hand end of month.....	386,338	366,919	382,085

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

Soybean Crushing – Regional: January 2017 with Comparisons

Region	Soybeans crushed		
	January 2016	December 2016	January 2017
	(tons)	(tons)	(tons)
Illinois	514,261	641,988	639,072
Iowa	1,064,253	1,090,185	1,079,242
North and East ¹	1,119,325	1,102,200	1,169,152
North Central ²	654,555	690,151	689,401
South, West and Pacific ³	670,757	660,057	673,611
West Central ⁴	790,893	886,912	868,195
Region	Crude oil produced		
	January 2016	December 2016	January 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	201,801	252,510	252,481
Iowa	409,626	414,879	412,388
North and East ¹	428,442	428,512	455,529
North Central ²	258,811	260,797	260,212
South, West and Pacific ³	257,934	255,052	260,472
West Central ⁴	308,273	338,426	334,418
Region	Crude oil stocks at crusher		
	January 2016	December 2016	January 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	126,799	118,626	141,342
Iowa	171,135	122,691	171,524
North and East ¹	226,634	117,929	169,843
North Central ²	247,460	147,289	195,986
South, West and Pacific ³	60,469	82,320	75,278
West Central ⁴	58,453	43,269	36,924
Region	Cake and meal produced		
	January 2016	December 2016	January 2017
	(tons)	(tons)	(tons)
Illinois	366,355	462,693	459,075
Iowa	787,211	795,276	788,384
North and East ¹	822,623	803,907	859,929
North Central ²	488,800	500,821	511,437
South, West and Pacific ³	487,459	478,293	490,946
West Central ⁴	587,343	649,678	638,062
Region	Cake and meal stocks		
	January 2016	December 2016	January 2017
	(tons)	(tons)	(tons)
Illinois	61,419	94,385	76,612
Iowa	69,767	69,580	73,843
North and East ¹	99,828	79,529	77,743
North Central ²	46,726	38,060	(D)
South, West and Pacific ³	39,001	65,333	63,032
West Central ⁴	51,322	57,014	(D)

(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, North Carolina and South Carolina.

⁴ West Central includes Kansas, Missouri and Nebraska.

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

Item	January 2016	December 2016	January 2017
Canola			
Crush			
Seeds crushed..... tons	148,424	178,637	177,362
Crude oil produced..... 1,000 pounds	126,109	149,916	150,873
Cake and meal produced..... tons	82,050	103,139	98,758
Refine			
Crude oil processed in refining..... 1,000 pounds	130,855	120,438	117,494
Once refined oil produced..... 1,000 pounds	123,760	117,307	114,721
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	117,275	138,866	132,805
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)	(D)	(D)
Crude oil on hand end of month..... 1,000 pounds	(D)	237,622	(D)
Once refined oil on hand end of month..... 1,000 pounds	78,205	68,912	82,693
Cottonseed			
Crush			
Seeds crushed..... tons	131,639	167,631	158,515
Crude oil produced..... 1,000 pounds	41,430	50,386	47,923
Cake and meal produced..... tons	65,905	76,853	71,819
Refine			
Crude oil processed in refining..... 1,000 pounds	45,126	53,081	45,298
Once refined oil produced..... 1,000 pounds	44,623	51,498	44,279
Consumption			
Crude oil removed for inedible use in processing..... 1,000 pounds	-	-	-
Once refined oil removed for use in processing..... 1,000 pounds	46,306	53,464	47,831
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	43,756	33,198	26,595
Crude oil on hand end of month..... 1,000 pounds	(D)	(D)	(D)
Once refined oil on hand end of month..... 1,000 pounds	51,179	48,385	41,301
Coconut			
Refine			
Crude oil processed in refining..... 1,000 pounds	20,787	(D)	(D)
Once refined oil produced..... 1,000 pounds	20,613	(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	52,177	73,352	64,263
Removed for edible use in processing..... 1,000 pounds	(D)	33,019	25,591
Removed for inedible use in processing..... 1,000 pounds	(D)	40,333	38,672
Stocks			
Crude oil on hand end of month..... 1,000 pounds	85,607	(D)	(D)
Once refined oil on hand end of month..... 1,000 pounds	29,325	61,063	58,606
Corn			
Crush			
Crude oil produced..... 1,000 pounds	(NA)	(NA)	205,166
Refine			
Crude oil processed in refining..... 1,000 pounds	(S)	(S)	203,057
Once refined oil produced..... 1,000 pounds	(S)	(S)	199,469
Consumption			
Crude oil removed for inedible use in processing..... 1,000 pounds	(S)	(S)	(D)
Once refined oil removed for use in processing..... 1,000 pounds	(S)	(S)	169,035
Removed for edible use in processing..... 1,000 pounds	(S)	(S)	(D)
Removed for inedible use in processing..... 1,000 pounds	(S)	(S)	(D)
Stocks			
Crude oil on hand end of month..... 1,000 pounds	-	-	65,059
Once refined oil on hand end of month..... 1,000 pounds	(S)	(S)	81,418

See footnote(s) at end of table.

--continued

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

Item	January 2016	December 2016	January 2017
Palm kernel			
Consumption			
Once refined oil removed for use in processing.....1,000 pounds	47,380	34,970	25,827
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 month1,000 pounds	132,027	76,215	71,962
Palm			
Consumption			
Once refined oil removed for use in processing.....1,000 pounds	159,978	165,297	170,546
Removed for edible use in processing1,000 pounds	141,461	159,763	160,559
Removed for inedible use in processing.....1,000 pounds	18,517	5,534	9,987
Stocks			
Once refined oil on hand end of month1,000 pounds	498,710	437,231	475,025
Peanut			
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)
Once refined oil removed for use in processing.....1,000 pounds	(D)	(D)	18,881
Removed for edible use in processing1,000 pounds	(D)	(D)	(D)
Removed for inedible use in processing.....1,000 pounds	(D)	-	(D)
Stocks			
Crude oil on hand end of month.....1,000 pounds	(D)	14,416	10,357
Once refined oil on hand end of month1,000 pounds	(D)	(D)	(D)
Safflower			
Refine			
Crude oil processed in refining.....1,000 pounds	(NA)	(NA)	7,482
Once refined oil produced.....1,000 pounds	(NA)	(NA)	7,659
Consumption			
Crude oil removed for inedible use in processing.....1,000 pounds	(NA)	(NA)	-
Once refined oil removed for use in processing.....1,000 pounds	(NA)	(NA)	3,870
Removed for edible use in processing1,000 pounds	(NA)	(NA)	(D)
Removed for inedible use in processing.....1,000 pounds	(NA)	(NA)	(D)
Stocks			
Crude oil on hand end of month.....1,000 pounds	(NA)	(NA)	(D)
Once refined oil on hand end of month1,000 pounds	(NA)	(NA)	(D)
Sunflower			
Refine			
Crude oil processed in refining.....1,000 pounds	31,581	25,574	31,559
Once refined oil produced.....1,000 pounds	30,134	24,059	31,708
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	29,391	32,692	35,410
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	61,465	56,593	75,029
Once refined oil on hand end of month1,000 pounds	50,523	41,338	35,848
Vegetable foots, raw and acidulated			
Refine			
Oil produced.....1,000 pounds	25,284	(D)	(D)
Consumption			
Oil removed for inedible use in processing.....1,000 pounds	22,150	(D)	(D)
Stocks			
Oil on hand end of month.....1,000 pounds	11,375	(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: January 2017 with Comparisons

Item	January 2016 (1,000 pounds)	December 2016 (1,000 pounds)	January 2017 (1,000 pounds)
Choice white grease			
Production.....	111,920	121,400	113,025
Removed for inedible use.....	111,080	124,399	112,189
Stocks on hand end of month.....	10,395	10,463	13,569
Feather meal			
Production.....	93,070	96,485	92,182
Stocks on hand end of month.....	18,277	17,039	17,694
Lard			
Production.....	28,209	41,586	26,461
Removed for use in processing.....	31,140	42,776	30,755
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	9,791	(D)	8,749
Meat meal, meat and bone meal, and dry rendered tankage			
Production.....	474,699	540,870	493,429
Stocks on hand end of month.....	54,360	60,233	62,443
Other grease			
Production.....	54,109	70,213	68,664
Removed for inedible use in processing.....	57,431	72,635	84,556
Stocks on hand end of month.....	(D)	(D)	(D)
Poultry fats			
Production.....	197,011	198,816	190,070
Removed for inedible use in processing.....	194,904	204,487	189,646
Stocks on hand end of month.....	21,459	20,637	20,663
Poultry by-product meals			
Production.....	245,249	257,030	252,208
Stocks on hand end of month.....	46,977	49,846	49,860
Tallow, edible			
Production.....	88,857	75,621	70,383
Removed for use in processing.....	93,843	75,240	76,047
Removed for edible use in processing.....	90,636	(D)	(D)
Removed for inedible use in processing.....	3,207	(D)	(D)
Stocks on hand end of month.....	12,969	23,394	17,784
Tallow, inedible			
Production.....	276,798	314,080	289,233
Removed for inedible use in processing.....	272,649	309,464	272,635
Stocks on hand end of month.....	87,804	89,800	103,415
Tallow, technical			
Production.....	91,109	99,891	95,809
Removed for inedible use in processing.....	99,877	108,418	113,903
Stocks on hand end of month.....	15,428	17,540	12,415
Yellow grease			
Production.....	147,716	169,013	158,229
Removed for inedible use in processing.....	164,031	181,148	150,759
Stocks on hand end of month.....	74,152	76,163	86,332

(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.

Jody McDaniel, Chief, Environmental, Economics, and Demographics Branch	(202) 720-6146
Scott Shimmin, Head, Environmental and Demographics Section.....	(202) 720-0684
Stephanie Brennan – Field Crops Chemical Use	(202) 690-0392
Natasha Bruton – Current Agricultural Industrial Reports.....	(202) 720-7644
Courtney Charles – Current Agricultural Industrial Reports.....	(202) 690-3226
Ryan Cowen - Farms, Land in Farms, Census of Agriculture.....	(202) 690-3233
Doug Farmer – Vegetable Chemical Use.....	(202) 720-7492
Virginia Harris – Census of Agriculture.....	(502) 582-5293
Megan Lipke – Census of Agriculture	(202) 720-5881
Dominique Sims – Census of Agriculture.....	(202) 690-4752
Theresa Varner – Farm Labor, Chemical Use.....	(202) 690-2284

Access to NASS Reports

For your convenience, you may access NASS reports and products the following ways:

- All reports are available electronically, at no cost, on the NASS web site: www.nass.usda.gov
- Both national and state specific reports are available via a free e-mail subscription. To set-up this free subscription, visit www.nass.usda.gov and click on “National” or “State” in upper right corner above “search” box to create an account and select the reports you would like to receive.

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@nass.usda.gov.

The U.S. Department of Agriculture (USDA) prohibits discrimination against its customers, employees, and applicants for employment on the basis of race, color, national origin, age, disability, sex, gender identity, religion, reprisal, and where applicable, political beliefs, marital status, familial or parental status, sexual orientation, or all or part of an individual's income is derived from any public assistance program, or protected genetic information in employment or in any program or activity conducted or funded by the Department. (Not all prohibited bases will apply to all programs and/or employment activities.)

If you wish to file a Civil Rights program complaint of discrimination, complete the [USDA Program Discrimination Complaint Form](#) (PDF), found online at http://www.ascr.usda.gov/complaint_filing_cust.html, or at any USDA office, or call (866) 632-9992 to request the form. You may also write a letter containing all of the information requested in the form. Send your completed complaint form or letter to us by mail at U.S. Department of Agriculture, Director, Office of Adjudication, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, by fax (202) 690-7442 or email at program.intake@usda.gov.