

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

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### **Highlights**

March 2018 contained 31 days. April 2018 contained 30 days.

**Soybeans crushed** for crude oil was 5.15 million tons (172 million bushels) in April 2018, compared to 5.47 million tons (182 million bushels) in March 2018 and 4.51 million tons (150 million bushels) in April 2017. Crude oil produced was 1.96 billion pounds down 5 percent from March 2018 but up 13 percent from April 2017. Soybean once refined oil production at 1.44 billion pounds during April 2018 decreased 1 percent from March 2018 but increased 10 percent from April 2017.

Canola seeds crushed for crude oil was 152 thousand tons in April 2018, compared to 164 thousand tons in March 2018 and 164 thousand tons in April 2017. Canola crude oil produced was 131 million pounds down 6 percent from March 2018 and down 7 percent from April 2017. Canola once refined oil production at 109 million pounds during April 2018 was down 10 percent from March 2018 and down 14 percent from April 2017. Cottonseed once refined oil production at 40.3 million pounds during April 2018 was down 17 percent from March 2018 and down 16 percent from April 2017.

**Edible tallow** production was 82.6 million pounds during April 2018, down 5 percent from March 2018 but up 14 percent from April 2017. Inedible tallow production was 305 million pounds during April 2018, down 11 percent from March 2018 but up 5 percent from April 2017. Technical tallow production was 92.8 million pounds during April 2018, down 7 percent from March 2018 but up 3 percent from April 2017. Choice white grease production at 104 million pounds during April 2018 decreased 5 percent from March 2018 but increased 3 percent from April 2017.

# Soybean Crushing, Production, Consumption and Stocks – United States: April 2018 with Comparisons

Item	April 2017	March 2018	April 2018
Crush			
Soybeans crushedtons	4,509,463	5,465,240	5,149,147
Crude oil produced	1,737,775	2,079,123	1,964,922
Cake and meal producedtons	3,300,745	4,029,272	3,822,338
For animal feedtons	3,249,314	3,976,961	3,781,356
For edible protein productstons	51,431	52,311	40,982
Millfeed producedtons	222,754	277,277	257,585
Refine			
Crude oil processed in refining	1,334,313	1,519,782	1,477,749
Once refined oil produced	1,306,589	1,459,498	1,437,977
Consumption			
Crude oil removed for inedible use in processing1,000 pounds	73,685	(D)	85,570
Once refined oil removed for use in processing		1,427,523	1,430,438
Removed for edible use in processing1,000 pounds		1,062,399	1,115,186
Removed for inedible use in processing1,000 pounds	272,229	365,124	315,252
Stocks			
Cake and meal on hand end of monthtons	387,207	492,224	404.468
Millfeed on hand end of month tons	42,923	51,967	47,658
Crude oil on hand end of month	1,848,364	2,080,138	2,316,192
Crusher1,000 pounds	897,851	915,122	924,045
Refiner	347,857	362,840	452,654
Offsite1,000 pounds	602,656	802,176	939,493
Once refined oil on hand end of month	391,625	364,344	372,584

<sup>(</sup>D) Withheld to avoid disclosing data for individual operations.

## Soybean Crushing - Regional: April 2018 with Comparisons

Dogion	Soybeans crushed				Soybeans crushed	
Region	April 2017	March 2018	April 2018			
	(tons)	(tons)	(tons)			
Illinois	573,507	618,612	615.746			
lowa	952,417	1,158,623	1,071,709			
North and East <sup>1</sup>	1,034,640	1,263,566	1,224,411			
North Central <sup>2</sup>	637,805	751,088	659,328			
South, West and Pacific <sup>3</sup>	501,151	730,338	684,371			
West Central <sup>4</sup>	809,943	943,013	893,582			
Trock Collina	000,010	Crude oil produced	000,002			
Region	April 2017	March 2018	April 2018			
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)			
Illinois	226,617	243,725	236,412			
lowa	361,116	442,506	411,345			
North and East <sup>1</sup>	406,268	480,354	466.765			
North Central <sup>2</sup>	·	•	,			
	234,759	272,083	246,259			
South, West and Pacific <sup>3</sup>	194,184	276,443 364,012	260,451 343,690			
West Central <sup>4</sup>	314,831	Crude oil stocks at crusher	343,090			
Region	April 2017	March 2018	April 2018			
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)			
Illinoin	, , , ,	` ' ' /	, , ,			
Illinois	196,621	154,913	139,509			
lowa	175,273	173,914	164,705			
North and East 1	201,587	237,509	256,429			
North Central <sup>2</sup>	236,618	246,586	253,376			
South, West and Pacific <sup>3</sup>	57,391	56,058	68,031			
West Central <sup>4</sup>	30,361	46,142	41,995			
Region		Cake and meal produced				
-5	April 2017	March 2018	April 2018			
	(tons)	(tons)	(tons)			
Illinois	417,359	450,750	453,840			
lowa	696,163	862,308	796,270			
North and East <sup>1</sup>	763,093	933,877	911,120			
North Central <sup>2</sup>	466,873	550,233	496,024			
South, West and Pacific 3	365,106	533,275	501,127			
West Central <sup>4</sup>	592,151	698,829	663,957			
Region	Cake and meal stocks					
Region	April 2017	March 2018	April 2018			
	(tons)	(tons)	(tons)			
Illinois	61,435	103,943	81,479			
lowa	79,494	69,321	65,445			
North and East <sup>1</sup>	93,644	112,525	100,661			
North Central <sup>2</sup>	49,873	53,640	31,721			
South, West and Pacific <sup>3</sup>	51,922	75,071	68,616			
West Central <sup>4</sup>	50,839	77,724	56,546			
1 North and East includes Indiana, Kentucky, Ma	,	· 1	55,540			

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.

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

# Selected Oilseed Crushing, Production, Consumption and Stocks – United States: April 2018 with Comparisons

ltem		April 2017	March 2018	April 2018
Canola				
Crush				
Seeds crushed	tons	164,103	164,100	152,358
Crude oil produced	1,000 pounds	141,282	139,998	131,216
Cake and meal produced	tons	92,811	90,656	85,399
Refine			·	
Crude oil processed in refining	1,000 pounds	129,821	123,888	112,715
Once refined oil produced		126,667	121,234	108,678
Consumption	,	·	·	·
Crude oil removed for inedible use in processing	1,000 pounds	(D)	(D)	(D)
Once refined oil removed for use in processing		148,682	145,358	150,506
Removed for edible use in processing		(D)	(D)	(D)
Removed for inedible use in processing		(D)	(D)	(D)
Stocks	, ,	` '	( )	( )
Cake and meal on hand end of month	tons	47,695	(D)	(D)
Crude oil on hand end of month		(D)	(D)	175,880
Once refined oil on hand end of month		70,452	82,562	79,596
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	,	,
Cottonseed				
Crush				
Seeds crushed	tons	155,733	151,913	141,895
Crude oil produced		47,395	48,788	40,917
Cake and meal produced		69,240	73,505	61,531
Refine		00,210	70,000	01,001
Crude oil processed in refining	1 000 nounds	49,667	50,364	41,810
Once refined oil produced		48,058	48,780	40,262
Consumption	1,000 pourius	40,030	40,700	40,202
Crude oil removed for inedible use in processing	1 000 pounds	(D)	(D)	(D)
Once refined oil removed for use in processing		45,355	49,363	46,405
Removed for edible use in processing	1,000 pounds		49,303 (D)	·
		(D)	:_ :	(D)
Removed for inedible use in processing	1,000 pourids	(D)	(D)	(D)
Stocks		24 500	40.400	40.050
Cake and meal on hand end of month		31,596	10,429	12,053
Crude oil on hand end of month	, , , , , , , , , , , , , , , , , , ,	(D)	(D)	(D)
Once refined oil on hand end of month	1,000 pourids	56,610	59,020	53,631
Coconut				
Refine				
Crude oil processed in refining	1 000 pounds	(D)	(D)	(D)
Once refined oil produced		(D) (D)	(D) (D)	(D) (D)
·	1,000 pourius	(D)	(D)	(D)
Consumption	1 000 pounds	(D)	(D)	(D)
Crude oil removed for inedible use in processing  Once refined oil removed for use in processing		(D)	(D)	(D)
		65,728	53,252	57,489
Removed for edible use in processing		(D)	(D)	(D)
Removed for inedible use in processing	1,000 pounds	(D)	(D)	(D)
Stocks	4 000	(5)	(D)	(D)
Crude oil on hand end of month	1,000 pounds	(D)	(D)	(D)
Once refined oil on hand end of month	1,000 pounds	50,373	58,211	51,427
Corn				
Crush				
Crude oil produced	1,000 pounds	192,904	169,269	172,066
Refine				
Crude oil processed in refining		199,911	178,242	188,003
Once refined oil produced	1,000 pounds	194,098	175,293	182,551
Consumption				
Crude oil removed for inedible use in processing		(D)	=	(D)
Once refined oil removed for use in processing		180,605	189,907	184,173
Removed for edible use in processing		(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	17,791	75,325	68,184
Once refined oil on hand end of month	1,000 pounds	75,939	66,413	66,708
See footnote(s) at end of table.	-	1		continued

See footnote(s) at end of table.

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## Selected Oilseed Crushing, Production, Consumption and Stocks - United States: April 2018 with Comparisons (continued)

Item	April 2017	March 2018	April 2018
Palm kernel			
Consumption			
Once refined oil removed for use in processing	26,887	21,056	26,282
Removed for edible use in processing	(D)	(D)	(D)
Removed for inedible use in processing	(D)	(D)	(D)
Once refined oil on hand end of month	72,581	95,452	83,484
Dalm			
Palm Consumption			
Once refined oil removed for use in processing	178,736	195,602	198,369
Removed for edible use in processing	167,762	187,931	194,419
Removed for inedible use in processing	10,974	7,671	3,950
Stocks		.,	0,000
Once refined oil on hand end of month1,000 pounds	438,334	467,988	422,563
Peanut			
Refine			
Crude oil processed in refining	(D)	(D)	29,706
Once refined oil produced1,000 pounds	(D)	16,775	27,643
Consumption	,	,	•
Crude oil removed for inedible use in processing1,000 pounds	(D)	(D)	(D)
Once refined oil removed for use in processing1,000 pounds	15,687	18,022	23,203
Removed for edible use in processing1,000 pounds	(D)	(D)	(D)
Removed for inedible use in processing1,000 pounds	(D)	(D)	(D)
Stocks			
Crude oil on hand end of month	(D)	(D)	(D)
Once refined oil on hand end of month	(D)	(D)	(D)
Safflower			
Refine			
Crude oil processed in refining	5,430	(D)	(D)
Once refined oil produced	5,430	(D)	(D)
Consumption			
Crude oil removed for inedible use in processing1,000 pounds	(D)	-	-
Once refined oil removed for use in processing	6,906	(D)	(D)
Removed for edible use in processing	(D)	(D)	(D)
Removed for inedible use in processing	(D)	(D)	(D)
Crude oil on hand end of month	10,907	13,737	9,220
Once refined oil on hand end of month	(D)	3,200	2,897
Sunflower			
Refine			
Crude oil processed in refining	37,507	35,073	(D)
Once refined oil produced	35,751	33,519	(D)
Consumption	(5)	(5)	(D)
Crude oil removed for inedible use in processing	(D)	(D)	(D)
Once refined oil removed for use in processing	49,977	(D)	(D)
Removed for edible use in processing	(D)	(D)	(D)
, ,	(D)	(D)	(D)
Stocks  Crude oil on hand end of month	77 720	76 750	70,010
Once refined oil on hand end of month	77,729 62,221	76,752 80,340	79,154
Vegetable foots, raw and acidulated			
Refine			
Oil produced	(D)	(D)	(D)
Consumption			
Oil removed for inedible use in processing	(D)	(D)	(D)
Stocks 1 000 nounds	/5\	(5)	(5)
Oil on hand end of month	(D)	(D)	(D)

<sup>-</sup> Represents zero.
(D) Withheld to avoid disclosing data for individual operations.

# Animal Fats and Oils Production, Consumption and Stocks – United States: April 2018 with Comparisons

Item	April 2017	March 2018	April 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Choice white grease			
Production	101,511	109,976	104,166
Removed for inedible use	102,104	110,761	105,285
Stocks on hand end of month	8,197	8,100	6,997
Feather meal	,	,	•
Production	94,979	97,568	90,328
Stocks on hand end of month	22,452	19,247	22,836
Lard	•	,	,
Production	28,099	27,683	26,539
Removed for use in processing	28,243	25,790	24,443
Removed for edible use in processing	(D)	(D)	(D)
Removed for inedible use in processing	(D)	(D)	(D)
Stocks on hand end of month	9,740	13,020	16,030
Meat meal, meat and bone meal, and dry rendered tankage	3,1.13	.0,020	. 0,000
Production	492,745	517,317	464,787
Stocks on hand end of month	49,285	49,828	51,527
Other grease	10,200	10,020	01,027
Production	63,418	58.684	48,386
Removed for inedible use in processing	61,888	64,511	52,175
Stocks on hand end of month	(D)	(D)	(D)
Poultry fats	(D)	(D)	(D)
Production	188,763	206,820	192,964
Removed for inedible use in processing	185,035	209,421	193,085
Stocks on hand end of month	23,706	24,160	23,826
Poultry by-product meals	25,700	24,100	25,020
Production	245.796	278.120	257,530
Stocks on hand end of month.	49,516	67,761	69,789
Tallow, edible	49,510	07,701	09,709
Production	72,413	87,195	82,637
	,		
Removed for use in processing	73,890	90,120	83,223
Removed for edible use in processing	(D)	(D)	(D)
Removed for inedible use in processing	(D)	(D)	(D)
Stocks on hand end of month	16,655	23,639	24,151
Tallow, inedible	000 004	0.40.00.4	004.550
Production	289,604	342,024	304,552
Removed for inedible use in processing	301,184	353,948	305,608
Stocks on hand end of month	71,125	89,311	90,498
Tallow, technical			
Production	89,713	99,889	92,787
Removed for inedible use in processing	99,811	107,037	99,887
Stocks on hand end of month	(D)	11,051	(D)
Yellow grease			
Production	158,108	191,395	169,214
Removed for inedible use in processing	150,161	181,193	178,662
Stocks on hand end of month	88,839	101,867	88,362

<sup>(</sup>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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