

A REFERENCE GUIDE TO SOYBEAN FACTS AND FIGURES

SOYSTATS[®]

2018



A publication of the
American Soybean Association

SOYSTATS® 2018

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Welcome to the 2018 edition of SoyStats®, your comprehensive resource for statistical information about the U.S. soybean industry and its relationship to global oilseed production.

Soybean Highlights From 2018:

- U.S. soybean farmers planted 90.1 million acres (36.5 million hectares).
- U.S. soybean production was 4.39 billion bushels.
- Average yield in the U.S. was 49.1 bushels per acre.
- Total value of the U.S. soybean crop was \$41.01 billion.
- The U.S. exported 2.07 billion bushels of soybeans, or 47 percent of total production.
- The U.S. was first in world soybean production with 4.39 billion bushels, followed by Brazil at 4.15.
- Soybeans represented 59 percent of the world's oilseed production.
- U.S. biodiesel production was 1.83 billion gallons.

Soybean Facts:

- A bushel of soybeans weighs 60 lbs. (27.22 kg) and produces about 11 pounds of oil and 48 pounds of protein-rich meal.
- The soybean plant is a legume related to peas, clover and alfalfa.
- Each soybean plant generally produces 60 to 80 pods, each holding three pea-sized beans.

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Soybean Life Cycle in Pictures



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Composition of a Soybean

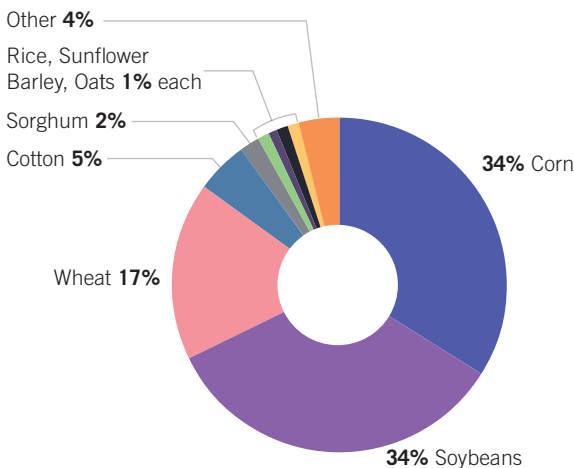
In processing, soybeans are cleaned, cracked, dehulled and rolled into flakes. This ruptures the oil cells for efficient extraction to separate the oil and meal components.

Soybean oil finds its way into food products such as margarine, salad dressings and cooking oils, and industrial products such as plastics and biodiesel fuel. **Lecithin**, extracted from soybean oil, is used for everything from pharmaceuticals to protective coatings. It is a natural emulsifier and lubricant. Lecithin is used, for example, to keep the chocolate and cocoa butter in a candy bar from separating.

After removal of the soybean oil, the remaining flakes can be processed into various edible **soy protein** products, or used to produce **soybean meal** for animal feeds. The dry (solid) portion of the bean provides a host of edible products.

Soy flour and grits are used in the commercial baking industry. They aid in dough conditioning and bleaching. Their excellent moisture-holding qualities also help retard staling. **Soy hulls** are processed into fiber bran breads, cereal and snacks.

U.S. Crop Area Planted 2017



Source: USDA, NASS. Data does not include hay.

U.S./Metric Conversion Table

(A bushel of soybeans weighs 60 pounds)

1 metric ton = 36.74 bushels of soybeans

1 metric ton = 2,200 pounds of soybeans

1 metric ton = 1.1 short tons of soybeans

1 hectare = 2.471 acres

Source Guide

CONAB

Brazil's National Food Supply Agency

ERS

Economic Research Service

FAS

Foreign Agricultural Service

ISAAA

International Service for the Acquisition of Agri-biotech Applications

NASS

National Agricultural Statistics Service

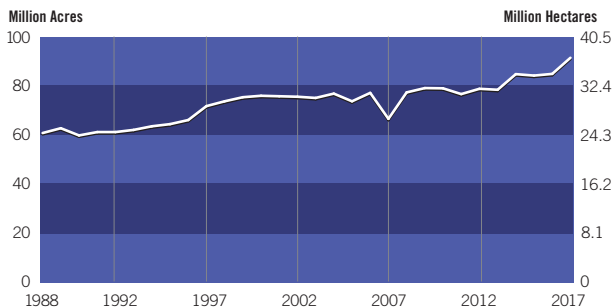
USDA

United States Department of Agriculture

WAOB

World Agricultural Outlook Board

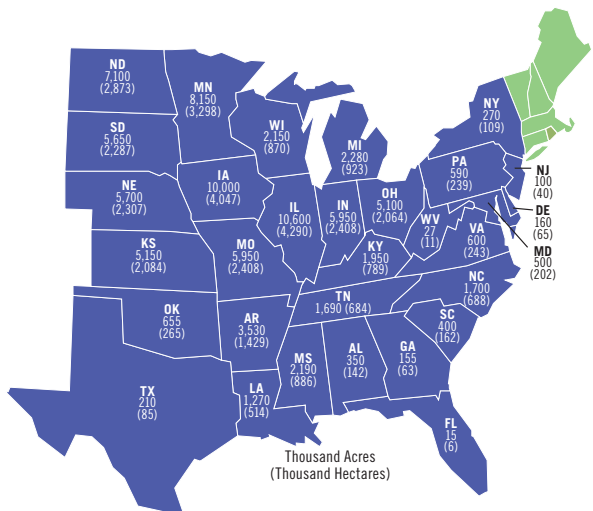
U.S. Soybean Area Planted 1988-2017



Year	Million Acres	Million Hectares	Year	Million Acres	Million Hectares
1988	58.8	23.8	2003	73.4	29.7
1989	60.8	24.6	2004	75.2	30.4
1990	57.8	23.4	2005	72.0	29.1
1991	59.2	24.0	2006	75.5	30.6
1992	59.2	24.0	2007	64.7	26.2
1993	60.1	24.3	2008	75.7	30.6
1994	61.6	24.9	2009	77.5	31.4
1995	62.5	25.3	2010	77.4	31.3
1996	64.2	26.0	2011	75.0	30.4
1997	70.0	28.3	2012	77.2	31.2
1998	72.0	29.1	2013	76.8	31.1
1999	73.7	29.8	2014	83.3	33.7
2000	74.3	30.1	2015	82.7	33.4
2001	74.1	30.0	2016	83.4	33.8
2002	73.9	29.9	2017	90.1	36.5

Source: USDA, NASS

U.S. Soybean Area Planted by State 2017

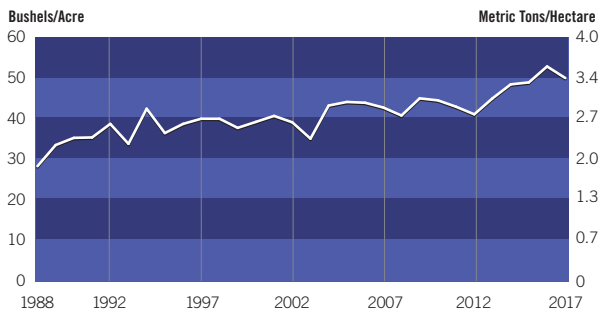


Thousand Acres
(Thousand Hectares)

State	Thousand Acres	Thousand Hectares	State	Thousand Acres	Thousand Hectares
Alabama	350	142	Nebraska	5,700	2307
Arkansas	3,530	1429	New Jersey	100	40
Delaware	160	65	New York	270	109
Florida	15	6	N. Carolina	1,700	688
Georgia	155	63	N. Dakota	7,100	2873
Illinois	10,600	4290	Ohio	5,100	2064
Indiana	5,950	2408	Oklahoma	655	265
Iowa	10,000	4047	Pennsylvania	590	239
Kansas	5,150	2084	S. Carolina	400	162
Kentucky	1,950	789	S. Dakota	5,650	2287
Louisiana	1,270	514	Tennessee	1,690	684
Maryland	500	202	Texas	210	85
Michigan	2,280	923	Virginia	600	243
Minnesota	8,150	3298	W. Virginia	27	11
Mississippi	2,190	886	Wisconsin	2,150	870
Missouri	5,950	2408			

Source: USDA, NASS

U.S. Soybean Yield 1988–2017

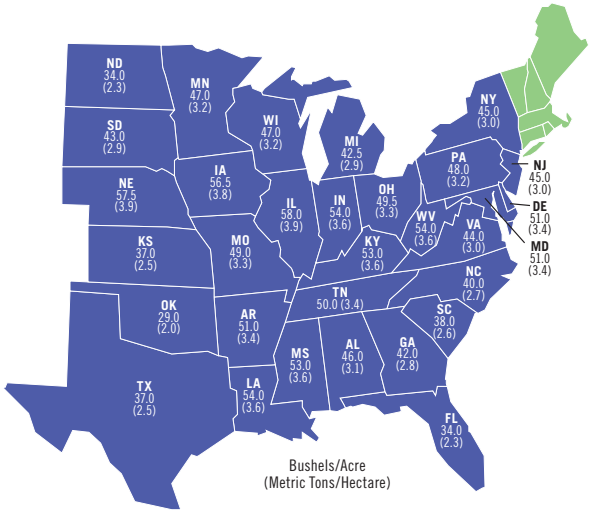


Year	Bushels/ Acres	Metric Ton/ Hectare
1988	27.0	1.8
1989	32.3	2.2
1990	34.1	2.3
1991	34.2	2.3
1992	37.6	2.5
1993	32.6	2.2
1994	41.4	2.8
1995	35.3	2.4
1996	37.6	2.5
1997	38.9	2.6
1998	38.9	2.6
1999	36.6	2.5
2000	38.1	2.6
2001	39.6	2.7
2002	38.0	2.6

Year	Bushels/ Acres	Metric Ton/ Hectare
2003	33.9	2.3
2004	42.2	2.8
2005	43.1	2.9
2006	42.9	2.9
2007	41.7	2.8
2008	39.7	2.7
2009	44.0	3.0
2010	43.5	2.9
2011	41.9	2.8
2012	40.0	2.7
2013	44.0	3.0
2014	47.5	3.2
2015	48.0	3.2
2016	52.0	3.5
2017	49.1	3.3

Source: USDA, NASS

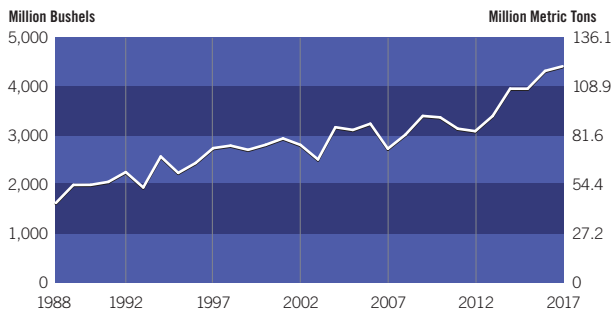
U.S. Soybean Yield by State 2017



State	Bushels/Acre	Metric Tons/Hectare	State	Bushels/Acre	Metric Tons/Hectare
Alabama	46.0	3.1	Nebraska	57.5	3.9
Arkansas	51.0	3.4	New Jersey	45.0	3.0
Delaware	51.0	3.4	New York	45.0	3.0
Florida	34.0	2.3	N. Carolina	40.0	2.7
Georgia	42.0	2.8	N. Dakota	34.0	2.3
Illinois	58.0	3.9	Ohio	49.5	3.3
Indiana	54.0	3.6	Oklahoma	29.0	2.0
Iowa	56.5	3.8	Pennsylvania	48.0	3.2
Kansas	37.0	2.5	S. Carolina	38.0	2.6
Kentucky	53.0	3.6	S. Dakota	43.0	2.9
Louisiana	54.0	3.6	Tennessee	50.0	3.4
Maryland	51.0	3.4	Texas	37.0	2.5
Michigan	42.5	2.9	Virginia	44.0	3.0
Minnesota	47.0	3.2	W. Virginia	54.0	3.6
Mississippi	53.0	3.6	Wisconsin	47.0	3.2
Missouri	49.0	3.3			

Source: USDA, NASS

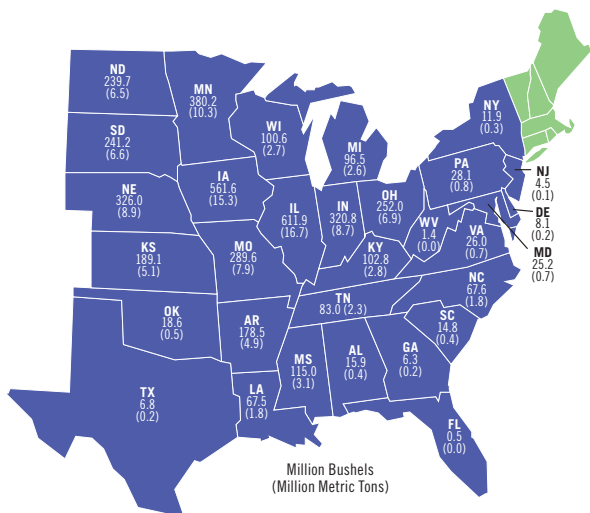
U.S. Soybean Production 1988–2017



Year	Million Bushels	Million Metric Tons	Year	Million Bushels	Million Metric Tons
1988	1,549	42.2	2003	2,454	66.8
1989	1,924	52.4	2004	3,124	85.0
1990	1,926	52.4	2005	3,068	83.5
1991	1,987	54.1	2006	3,197	87.0
1992	2,190	59.6	2007	2,677	72.9
1993	1,871	50.9	2008	2,967	80.7
1994	2,515	68.4	2009	3,359	91.4
1995	2,174	59.2	2010	3,329	90.6
1996	2,380	64.8	2011	3,094	84.2
1997	2,689	73.2	2012	3,042	82.8
1998	2,741	74.6	2013	3,358	91.4
1999	2,654	72.2	2014	3,927	106.9
2000	2,758	75.1	2015	3,926	106.8
2001	2,891	78.7	2016	4,296	116.9
2002	2,756	75.0	2017	4,392	119.5

Source: USDA, NASS

U.S. Soybean Production by State 2017

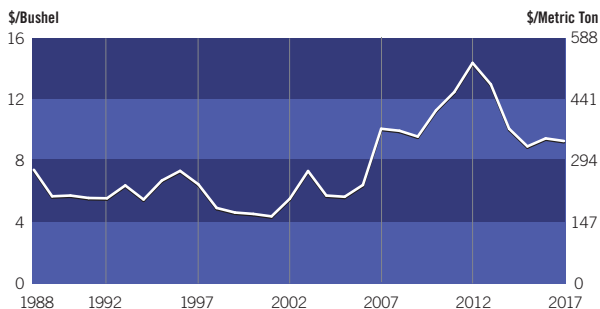


State	Million Bushels	Million Metric Tons
Alabama	15.9	0.4
Arkansas	178.5	4.9
Delaware	8.1	0.2
Florida	0.5	0.0
Georgia	6.3	0.2
Illinois	611.9	16.7
Indiana	320.8	8.7
Iowa	561.6	15.3
Kansas	189.1	5.1
Kentucky	102.8	2.8
Louisiana	67.5	1.8
Maryland	25.2	0.7
Michigan	96.5	2.6
Minnesota	380.2	10.3
Mississippi	115.0	3.1
Missouri	289.6	7.9

State	Million Bushels	Million Metric Tons
Nebraska	326.0	8.9
New Jersey	4.5	0.1
New York	11.9	0.3
N. Carolina	67.6	1.8
N. Dakota	239.7	6.5
Ohio	252.0	6.9
Oklahoma	18.6	0.5
Pennsylvania	28.1	0.8
S. Carolina	14.8	0.4
S. Dakota	241.2	6.6
Tennessee	83.0	2.3
Texas	6.8	0.2
Virginia	26.0	0.7
W. Virginia	1.4	0.0
Wisconsin	100.6	2.7

Source: USDA, NASS

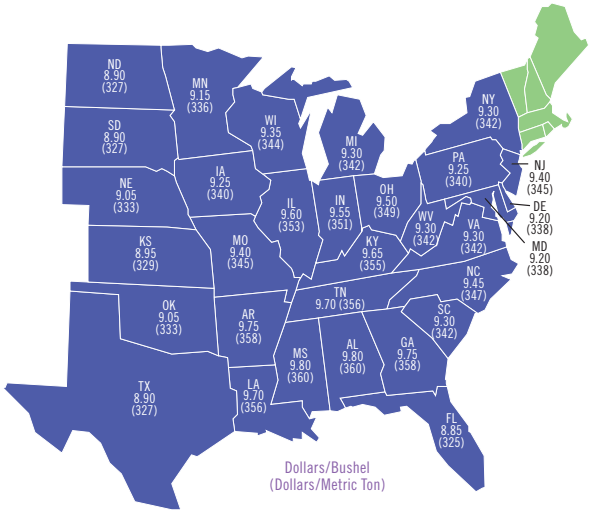
U.S. Soybean Prices Paid to Farmers 1988-2017



Year	Dollars/ Bushels	Dollars/ Metric Ton	Year	Dollars/ Bushels	Dollars/ Metric Ton
1988	7.42	273	2003	7.34	270
1989	5.69	209	2004	5.74	211
1990	5.74	211	2005	5.66	208
1991	5.58	205	2006	6.43	236
1992	5.56	204	2007	10.10	371
1993	6.40	235	2008	9.97	366
1994	5.48	201	2009	9.59	352
1995	6.72	247	2010	11.30	415
1996	7.35	270	2011	12.50	459
1997	6.47	238	2012	14.40	529
1998	4.93	181	2013	13.00	478
1999	4.63	170	2014	10.10	371
2000	4.54	167	2015	8.95	329
2001	4.38	161	2016	9.47	348
2002	5.53	203	2017	9.30	342

Source: USDA, NASS

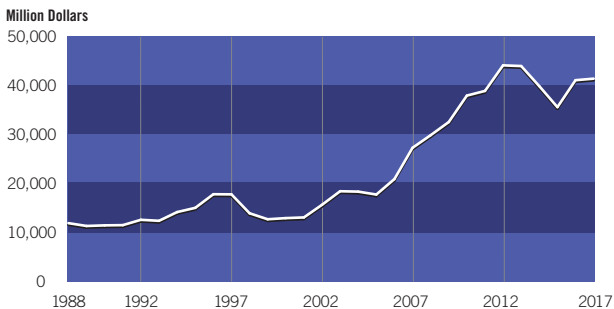
U.S. Soybean Price to Farmers by State 2017



State	Dollars/Bushel	Dollars/Metric Ton	State	Dollars/Bushel	Dollars/Metric Ton
Alabama	9.80	360	Nebraska	9.05	333
Arkansas	9.75	358	New Jersey	9.40	345
Delaware	9.20	338	New York	9.30	342
Florida	8.85	325	N. Carolina	9.45	347
Georgia	9.75	358	N. Dakota	8.90	327
Illinois	9.60	353	Ohio	9.50	349
Indiana	9.55	351	Oklahoma	9.05	333
Iowa	9.25	340	Pennsylvania	9.25	340
Kansas	8.95	329	S. Carolina	9.30	342
Kentucky	9.65	355	S. Dakota	8.90	327
Louisiana	9.70	356	Tennessee	9.70	356
Maryland	9.20	338	Texas	8.90	327
Michigan	9.30	342	Virginia	9.30	342
Minnesota	9.15	336	W. Virginia	9.30	342
Mississippi	9.80	360	Wisconsin	9.35	344
Missouri	9.40	345			

Source: USDA, NASS

U.S. Soybean Crop Value 1988-2017



Year	Million Dollars	Year	Million Dollars
1988	11,492	2003	18,012
1989	10,916	2004	17,932
1990	11,042	2005	17,337
1991	11,087	2006	20,499
1992	12,176	2007	26,884
1993	11,974	2008	29,458
1994	13,756	2009	32,145
1995	14,617	2010	37,547
1996	17,400	2011	38,498
1997	17,373	2012	43,723
1998	13,513	2013	43,583
1999	12,288	2014	39,475
2000	12,521	2015	35,192
2001	12,663	2016	40,691
2002	15,240	2017	41,007

Source: USDA, NASS

U.S. Soybean Crop Value by State 2017

State	Million Dollars	State	Million Dollars
Alabama	156	Nebraska	2,951
Arkansas	1,740	New Jersey	42
Delaware	74	New York	111
Florida	4	N. Carolina	639
Georgia	61	N. Dakota	2,133
Illinois	5,874	Ohio	2,394
Indiana	3,063	Oklahoma	168
Iowa	5,195	Pennsylvania	260
Kansas	1,692	S. Carolina	138
Kentucky	992	S. Dakota	2,147
Louisiana	655	Tennessee	805
Maryland	232	Texas	61
Michigan	897	Virginia	241
Minnesota	3,479	W. Virginia	13
Mississippi	1,127	Wisconsin	940
Missouri	2,722		

Source: USDA, NASS

As Percentage of Total Principal Crops*

State	Percent	State	Percent
Alabama	15.4	Nebraska	31.0
Arkansas	45.5	New Jersey	29.7
Delaware	31.3	New York	10.7
Florida	0.3	N. Carolina	22.0
Georgia	2.9	N. Dakota	31.2
Illinois	42.9	Ohio	49.1
Indiana	46.1	Oklahoma	10.0
Iowa	37.0	Pennsylvania	11.9
Kansas	25.8	S. Carolina	18.1
Kentucky	34.5	S. Dakota	40.4
Louisiana	33.6	Tennessee	37.4
Maryland	33.2	Texas	0.9
Michigan	32.2	Virginia	23.1
Minnesota	36.4	W. Virginia	8.4
Mississippi	47.1	Wisconsin	27.8
Missouri	47.4		

Source: USDA, NASS

*Includes field and miscellaneous crops.

U.S. Soybean Production Costs & Returns 2017

Category	\$/Planted Acre	\$/Planted Hectare
Gross value of production		
Soybeans	447.74	1,106.36
Total, gross value of production	447.74	1,106.36

Operating Costs:

Seed	60.63	149.82
Fertilizer*	28.01	69.21
Chemicals	27.54	68.05
Custom operations	11.03	27.26
Fuel, lube, and electricity	12.56	31.04
Repairs	23.59	58.29
Purchased irrigation water	0.06	0.15
Interest on operating capital	0.70	1.73
Total, operating costs	164.12	405.54

Allocated overhead:

Hired Labor	3.32	8.20
Opportunity cost of unpaid labor	19.65	48.56
Capital recovery of machinery and equipment	89.97	222.32
Opportunity cost of land (rental rate)	145.99	360.74
Taxes and insurance	10.95	27.06
General farm overhead	18.59	45.94
Total, allocated overhead	288.47	712.81

Total cost listed	452.59	1,118.35
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Value of production less total costs listed	-4.85	-11.99
Value of production less operating costs	283.62	700.82

Supporting information:

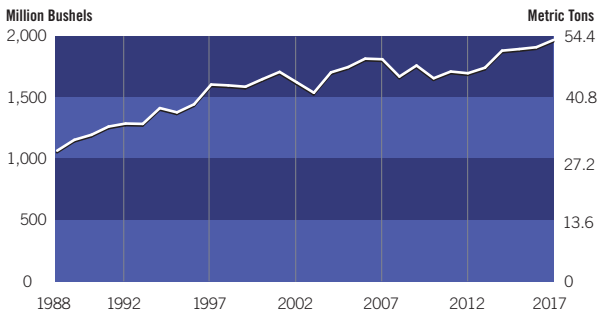
Yield (bushels per planted acre)(mt/ha)	48.8	3.28
Price (\$ per bushel at harvest)(\$/mt)	9.18	337
Enterprise size (planted acres)(ha)**	273	110
Production practices:**		
Irrigated (percent)	10	10
Dryland (percent)	90	90

* Commercial fertilizer, soil conditioners and manure

** Developed from survey base year, 2012

Sources: USDA, ERS, Industry Estimates

U.S. Soybean Crush 1988-2017

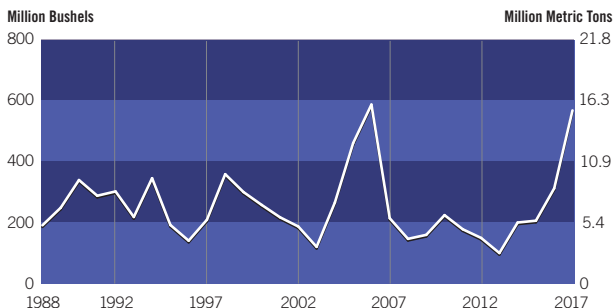


Year	Million Bushels	Metric Tons
1988	1,058	28.8
1989	1,146	31.2
1990	1,187	32.3
1991	1,254	34.1
1992	1,279	34.8
1993	1,276	34.7
1994	1,405	38.2
1995	1,370	37.3
1996	1,436	39.1
1997	1,597	43.5
1998	1,590	43.3
1999	1,579	43.0
2000	1,641	44.7
2001	1,700	46.3
2002	1,615	44.0

Year	Million Bushels	Metric Tons
2003	1,530	41.6
2004	1,696	46.2
2005	1,739	47.3
2006	1,808	49.2
2007	1,803	49.1
2008	1,662	45.2
2009	1,752	47.7
2010	1,648	44.9
2011	1,703	46.3
2012	1,689	46.0
2013	1,734	47.2
2014	1,873	51.0
2015	1,886	51.3
2016	1,901	51.7
2017	1,960	53.3

Source: USDA, WAOB

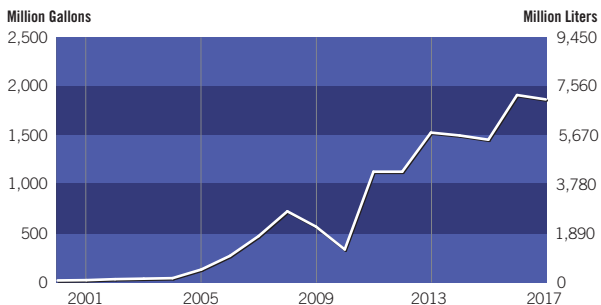
U.S. Soybean Ending Stocks 1988–2017



Year	Million Bushels	Million Metric Tons	Year	Million Bushels	Million Metric Tons
1988	182	5.0	2003	112	3.0
1989	239	6.5	2004	256	7.0
1990	329	9.0	2005	449	12.2
1991	278	7.6	2006	574	15.6
1992	292	7.9	2007	205	5.6
1993	209	5.7	2008	138	3.8
1994	335	9.1	2009	151	4.1
1995	183	5.0	2010	215	5.9
1996	132	3.6	2011	169	4.6
1997	200	5.4	2012	141	3.8
1998	348	9.5	2013	92	2.5
1999	290	7.9	2014	191	5.2
2000	248	6.7	2015	197	5.4
2001	208	5.7	2016	302	8.2
2002	178	4.8	2017	555	15.1

Source: USDA, WAOB

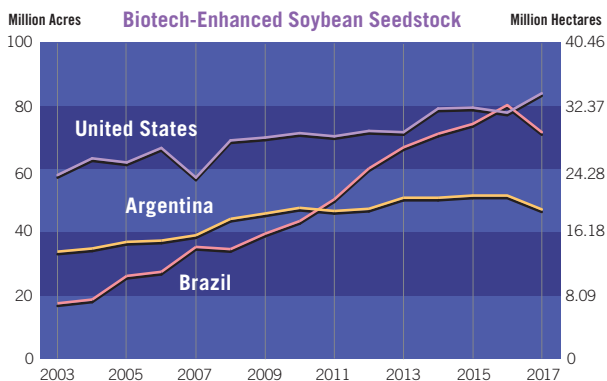
U.S. Biodiesel Production 2000-2017



Year	Million Gallons	Million Liters
2000	2.0	7.6
2001	5.0	18.9
2002	15.0	56.7
2003	20.0	75.6
2004	25.0	94.5
2005	112.0	423.4
2006	250.0	945.0
2007	450.0	1701.0
2008	700.0	2646.0
2009	545.0	2060.1
2010	315.0	1190.7
2011	1100.0	4158.0
2012	1100.0	4158.0
2013	1495.0	5651.1
2014	1466.0	5541.5
2015	1423.0	5378.9
2016	1874.0	7083.7
2017	1830.0	6917.4

1 bushel of soybeans produces 1.5 gallons of biodiesel and 48 pounds of protein-rich meal. Source: National Biodiesel Board

Adoption of **Biotech-Enhanced Seedstock** 2003-2017 MAJOR EXPORTING COUNTRIES ONLY



UNITED STATES					
Year	Total Soy Acres (Millions)	Total Soy Hectares (Millions)	Biotech Acres (Millions)	Biotech Hectares (Millions)	Pct Biotech
2003	72.3	29.3	58.6	23.7	81
2004	75.2	30.4	63.9	25.8	85
2005	72.0	29.1	62.6	25.3	87
2006	75.5	30.6	67.2	27.2	89
2007	63.6	25.7	57.8	23.4	91
2008	75.7	30.6	69.6	28.2	92
2009	77.5	31.4	70.5	28.6	91
2010	77.4	31.3	71.9	29.1	93
2011	75.4	30.5	70.9	28.7	94
2012	77.2	31.2	72.6	29.3	94
2013	77.6	31.4	72.2	29.2	93
2014	84.8	34.3	79.7	32.2	94
2015	85.2	34.5	80.0	32.4	94
2016	83.4	33.8	78.4	31.7	94
2017	90.1	36.5	84.7	34.3	94

Source: USDA, NASS, ISAAA

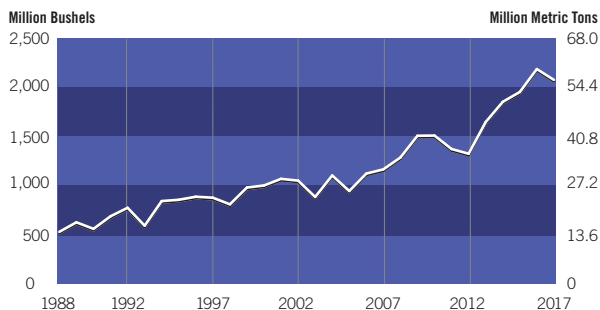
ARGENTINA					
Year	Total Soy Acres (Millions)	Total Soy Hectares (Millions)	Biotech Acres (Millions)	Biotech Hectares (Millions)	Pct Biotech
2003	34.6	14.0	34.3	13.9	99
2004	35.6	14.4	35.3	14.3	99
2005	37.6	15.2	37.4	15.1	100
2006	38.0	15.4	37.8	15.3	100
2007	41.5	16.8	39.5	16.0	95
2008	44.9	18.2	44.7	18.1	99
2009	46.9	19.0	46.4	18.8	99
2010	48.2	19.5	48.2	19.5	100
2011	47.2	19.1	47.2	19.1	100
2012	47.9	19.4	47.9	19.4	100
2013	51.4	20.8	51.4	20.8	100
2014	51.4	20.8	51.4	20.8	100
2015	52.1	21.1	52.1	21.1	100
2016	52.1	21.1	52.1	21.1	100
2017	47.4	19.2	47.4	19.2	100

Source: USDA, FAS, ISAAA, Argentinian Agriculture Ministry

BRAZIL					
Year	Total Soy Acres (Millions)	Total Soy Hectares (Millions)	Biotech Acres (Millions)	Biotech Hectares (Millions)	Pct Biotech
2003	52.6	21.3	17.9	7.2	34
2004	56.3	22.8	19.1	7.7	34
2005	54.3	22.0	26.6	10.8	49
2006	49.9	20.2	27.9	11.3	56
2007	54.4	22.0	35.8	14.5	66
2008	54.1	21.9	35.1	14.2	65
2009	56.6	22.9	40.0	16.2	71
2010	62.7	25.4	44.0	17.8	75
2011	61.8	25.0	50.9	20.7	83
2012	68.2	27.6	60.7	24.6	89
2013	72.9	29.5	67.4	27.3	92
2014	77.1	31.2	71.7	29.0	93
2015	79.5	32.2	74.8	30.3	94
2016	83.7	33.9	80.8	32.7	97
2017	84.0	34.0	71.6	29.0	85

Source: USDA, FAS, ISAAA, CONAB

U.S. Soybean Exports 1988-2017

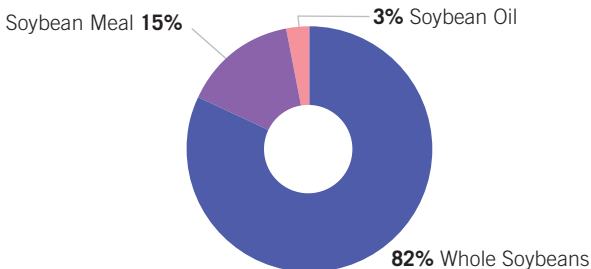


Year	Million Bushels	Million Metric Tons
1988	527	14.3
1989	623	17.0
1990	557	15.2
1991	684	18.6
1992	770	21.0
1993	589	16.0
1994	838	22.8
1995	851	23.2
1996	882	24.0
1997	872	23.7
1998	805	21.9
1999	975	26.5
2000	996	27.1
2001	1,063	28.9
2002	1,045	28.4

Year	Million Bushels	Million Metric Tons
2003	880	23.9
2004	1,097	29.9
2005	940	25.6
2006	1,116	30.4
2007	1,159	31.5
2008	1,279	34.8
2009	1,499	40.8
2010	1,501	40.9
2011	1,365	37.1
2012	1,317	35.8
2013	1,638	44.6
2014	1,842	50.1
2015	1,942	52.9
2016	2,174	59.2
2017	2,065	56.2

Source: USDA, WAOB

U.S. Soybean & Soy Product Exports 2017



WHOLE SOYBEAN EXPORTS

Customer	Value (Millions)	Customer	Value (Millions)
China	\$12,356	Thailand	\$467
Mexico	\$1,586	Pakistan	\$428
Netherlands	\$1,103	Bangladesh	\$385
Japan	\$976	Egypt	\$364
Indonesia	\$922	All Others	\$2,407
Taiwan	\$588		

SOYBEAN MEAL EXPORTS

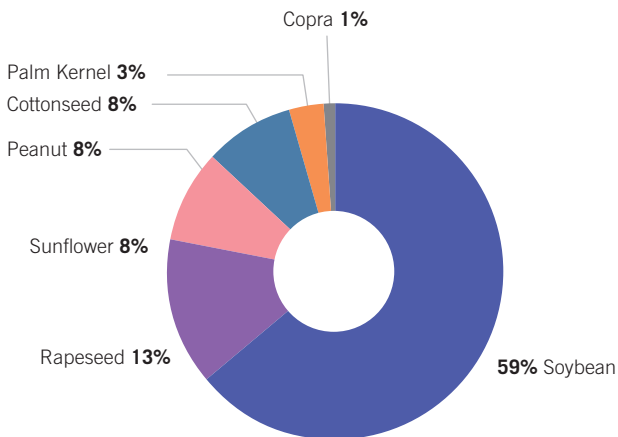
Customer	Value (Millions)	Customer	Value (Millions)
Philippines	\$747	Guatemala	\$136
Mexico	\$579	Japan	\$107
Colombia	\$340	Venezuela	\$106
Canada	\$317	Peru	\$90
Dominican Republic	\$173	All Others	\$1,157
Thailand	\$142		

SOYBEAN OIL EXPORTS

Customer	Value (Millions)	Customer	Value (Millions)
South Korea	\$207	Canada	\$26
Mexico	\$202	China	\$24
Dominican Republic	\$141	Morocco	\$24
Colombia	\$73	Nicaragua	\$12
Guatemala	\$41	All Others	\$109
Jamaica	\$27		

Source: USDA, FAS

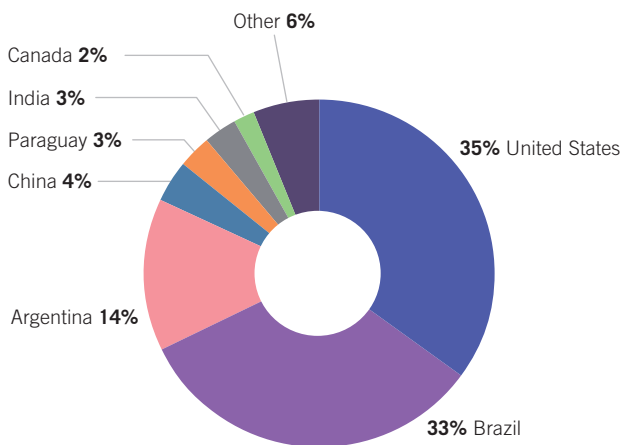
World Oilseed Production 2017



Oilseed	Million Short Tons	Million Metric Tons
Soybean	375.7	340.9
Rapeseed	81.5	74.0
Sunflower	50.8	46.1
Cottonseed	49.6	45.0
Peanut	49.0	44.5
Palm Kernel	20.5	18.6
Copra	6.1	5.5
TOTAL	633.3	574.5

Source: USDA, FAS

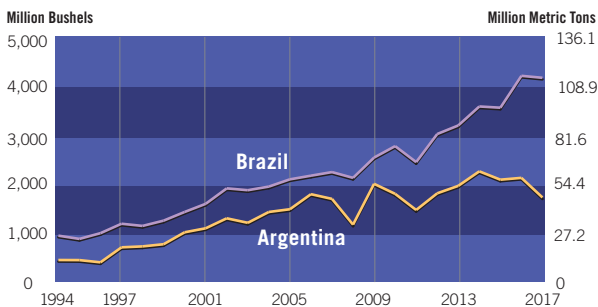
World Soybean Production 2017



Country	Million Bushels	Million Metric Tons
United States	4,392	119.5
Brazil	4,152	113.0
Argentina	1,727	47.0
China	522	14.2
India	349	9.5
Paraguay	338	9.2
Canada	294	8.0
Other	751	20.4
Total	12,524	340.9

Source: USDA, FAS

Brazil & Argentina Soybean Production 1994-2017

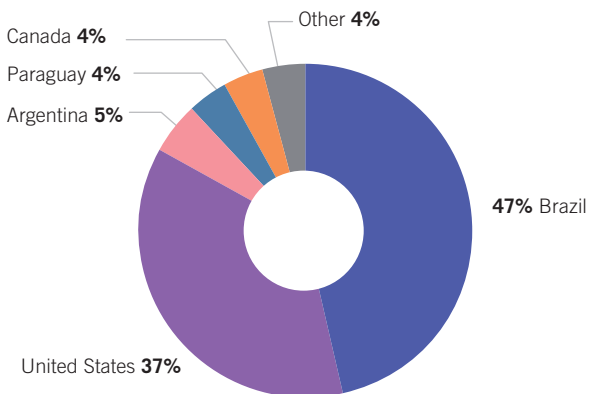


BRAZIL		
Year	Million Bushels	Million Metric Tons
1994	952	25.9
1995	887	24.2
1996	1,003	27.3
1997	1,194	32.5
1998	1,150	31.3
1999	1,257	34.2
2000	1,433	39.0
2001	1,598	43.5
2002	1,911	52.0
2003	1,874	51.0
2004	1,947	53.0
2005	2,094	57.0
2006	2,168	59.0
2007	2,241	61.0
2008	2,124	57.8
2009	2,535	69.0
2010	2,767	75.3
2011	2,443	66.5
2012	3,013	82.0
2013	3,186	86.7
2014	3,571	97.2
2015	3,546	96.5
2016	4,192	114.1
2017	4,152	113.0

ARGENTINA		
Year	Million Bushels	Million Metric Tons
1994	459	12.5
1995	457	12.4
1996	412	11.2
1997	716	19.5
1998	735	20.0
1999	779	21.2
2000	1,021	27.8
2001	1,102	30.0
2002	1,304	35.5
2003	1,213	33.0
2004	1,433	39.0
2005	1,488	40.5
2006	1,793	48.8
2007	1,698	46.2
2008	1,176	32.0
2009	2,003	54.5
2010	1,800	49.0
2011	1,473	40.1
2012	1,811	49.3
2013	1,962	53.4
2014	2,256	61.4
2015	2,087	56.8
2016	2,124	57.8
2017	1,727	47.0

Source: USDA, FAS

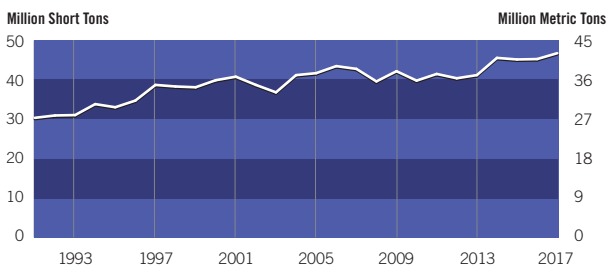
World Soybean Exports 2017



Country	Million Bushels	Million Metric Tons
Brazil	2,590	70.5
United States	2,065	56.2
Argentina	250	6.8
Paraguay	213	5.8
Canada	202	5.5
Other	213	5.8
Total	5,534	150.6

Source: USDA, FAS

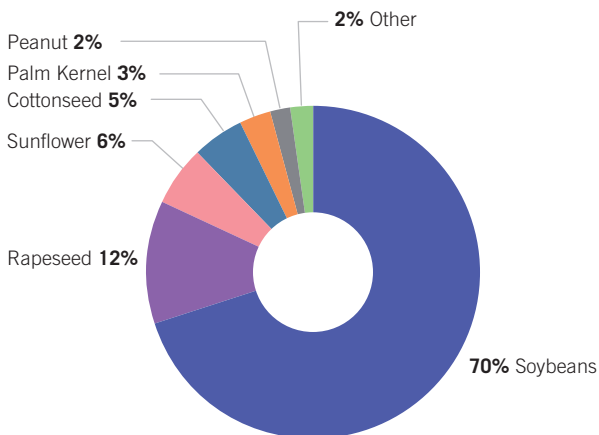
U.S. Soybean Meal Production 1991-2017



Year	Million Short Tons/ Average Price	Million Metric Tons/ Average Price
1991	29.8/\$189	27.0/\$209
1992	30.4/\$194	27.6/\$214
1993	30.5/\$193	27.7/\$213
1994	33.3/\$163	30.2/\$179
1995	32.5/\$236	29.5/\$260
1996	34.2/\$262	31.0/\$289
1997	38.2/\$185	34.7/\$204
1998	37.8/\$139	34.3/\$153
1999	37.6/\$168	34.1/\$185
2000	39.4/\$174	35.7/\$191
2001	40.3/\$168	36.6/\$185
2002	38.2/\$182	34.6/\$201
2003	36.3/\$256	32.9/\$282
2004	40.7/\$183	33.0/\$202
2005	41.2/\$174	37.4/\$192
2006	43.0/\$205	39.0/\$226
2007	42.3/\$336	38.4/\$370
2008	39.1/\$331	35.5/\$365
2009	41.7/\$311	37.8/\$343
2010	39.3/\$346	35.7/\$381
2011	41.0/\$394	37.2/\$434
2012	39.9/\$468	36.2/\$516
2013	40.7/\$490	36.9/\$540
2014	45.1/\$368	40.9/\$406
2015	44.7/\$325	40.6/\$358
2016	44.8/\$317	40.6/\$349
2017	46.3/\$340	42.0/\$375

Source: USDA, WAOB

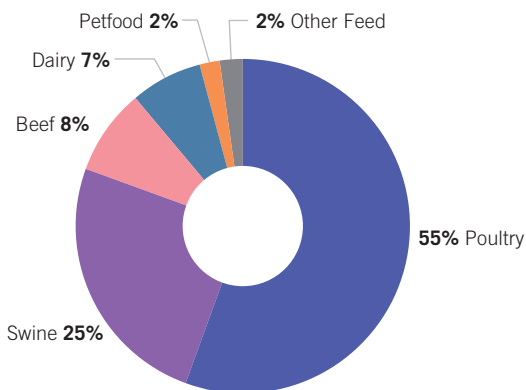
World Protein Meal Consumption 2017



Source	Million Short Tons	Million Metric Tons
Soybeans	257.6	233.7
Rapeseed	44.3	40.2
Sunflower	21.4	19.4
Cottonseed	16.9	15.3
Palm Kernel	10.7	9.7
Peanut	8.0	7.3
Other	7.2	6.5
TOTAL	366.1	332.1

Source: USDA

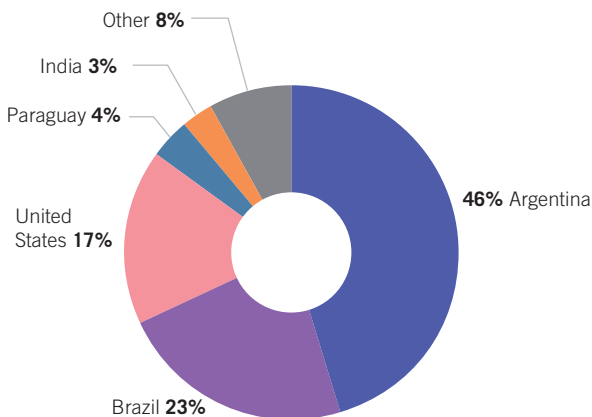
U.S. Soybean Meal Use by Livestock 2017



Use	Million Short Tons	Million Metric Tons
Poultry	18.9	17.2
Swine	8.6	7.8
Beef	2.8	2.5
Dairy	2.5	2.2
Petfood	0.8	0.7
Other Feed	0.8	0.7
Total	34.3	31.1

Source: Based on industry estimates, USB 2008 soybean meal market study, USDA, (NASS).

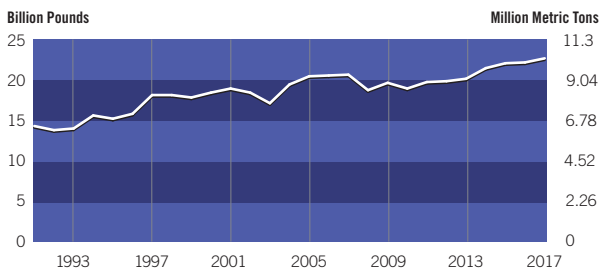
World Soybean Meal Exports 2017



Country	Million Short Tons	Million Metric Tons
Argentina	34.0	30.8
Brazil	16.8	15.3
United States	12.4	11.2
Paraguay	2.8	2.5
India	1.9	1.7
Other	5.7	5.2
TOTAL	73.5	66.7

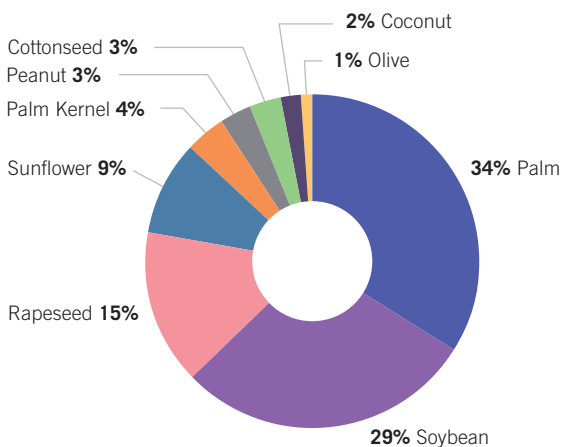
Source: USDA, FAS

U.S. Soybean Oil Production 1991-2017



Year	Billion Pounds/ Average Price	Million Metric Tons/ Average Price
1991	14.3/\$.191	6.5/\$421
1992	13.8/\$.214	6.2/\$472
1993	14.0/\$.270	6.3/\$595
1994	15.6/\$.275	7.1/\$606
1995	15.2/\$.247	6.9/\$545
1996	15.8/\$.225	7.2/\$496
1997	18.1/\$.258	8.2/\$569
1998	18.1/\$.199	8.2/\$439
1999	17.8/\$.156	8.1/\$344
2000	18.4/\$.142	8.4/\$312
2001	18.9/\$.165	8.6/\$364
2002	18.4/\$.220	8.3/\$485
2003	17.1/\$.300	7.8/\$661
2004	19.4/\$.230	8.8/\$507
2005	20.4/\$.234	9.2/\$516
2006	20.5/\$.310	9.3/\$684
2007	20.6/\$.520	9.3/\$1,147
2008	18.7/\$.322	8.5/\$709
2009	19.6/\$.360	8.9/\$793
2010	18.9/\$.532	8.6/\$1,173
2011	19.7/\$.519	8.9/\$1,144
2012	19.8/\$.471	9.0/\$1,038
2013	20.1/\$.382	9.1/\$842
2014	21.4/\$.316	9.7/\$697
2015	22.0/\$.299	10.0/\$659
2016	22.1/\$.325	10.2/\$716
2017	22.6/\$.315	10.3/\$694

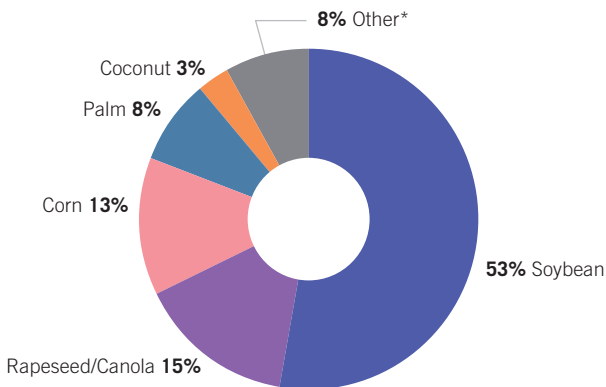
World Vegetable Oil Consumption 2017



Feedstock	Million Short Tons	Million Metric Tons
Palm	71.2	64.6
Soybean	62.0	56.3
Rapeseed	32.3	29.3
Sunflower	19.0	17.3
Palm Kernel	8.2	7.5
Peanut	6.6	6.0
Cottonseed	5.5	5.0
Coconut	3.5	3.2
Olive	2.9	2.6
TOTAL	211.2	191.6

Source: USDA, FAS

U.S. Vegetable Oil Consumption 2017



Feedstock	Million Pounds	Million Metric Tons
Soybean	21,000	9.5
Rapeseed/Canola	6,040	2.7
Corn	5,342	2.4
Palm	3,350	1.5
Coconut	1,004	0.5
Other*	3,063	1.4
TOTAL	39,799	18.1

*Other includes palm kernel, peanut, sunflower, safflower and others.

Source: ERS, USDA

ABOUT

THE AMERICAN SOYBEAN ASSOCIATION



The mission of the American Soybean Association (ASA) is to advocate for U.S. soy farmers on policy and trade.

ASA represents U.S. soybean farmers on domestic and international policy issues important to the soybean industry. ASA has 26 affiliated state associations representing 30 soybean producing states and more than 300,000 soybean farmers.

In support of ASA's mission to advocate for U.S. soy farmers on policy and trade, ASA invests cost-share funding provided by the U.S. Department of Agriculture's Foreign Agricultural Service in the U.S. Soybean Export Council to operate global offices and conduct activities to maximize the use of U.S. soy internationally.

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