

CHAPTER I

STATISTICS OF GRAIN AND FEED

This chapter contains tables for wheat, rye, rice, corn, oats, barley, sorghum grain, and feedstuffs. Estimates are given of area, production, disposition, supply and disappearance, prices, value of production, stocks, foreign production and trade, price-support operations, animal units fed, and feed consumed by livestock and poultry.

Table 1-1.—Total grain: Supply and disappearance, United States, 2008–2016¹

Year ²	Supply				Disappearance			Ending stocks
	Beginning stocks	Production	Imports	Total	Domestic use	Exports	Total disappearance	
	<i>Million metric tons</i>	<i>Million metric tons</i>	<i>Million metric tons</i>	<i>Million metric tons</i>	<i>Million metric tons</i>	<i>Million metric tons</i>	<i>Million metric tons</i>	<i>Million metric tons</i>
2008	54.3	400.4	7.1	461.9	314.4	81.6	396.0	65.9
2009	66.3	418.0	6.4	490.8	331.1	83.4	414.5	76.3
2010	76.3	399.6	6.0	481.9	333.1	90.8	423.9	58.0
2011	58.0	385.1	6.8	449.9	326.3	74.2	400.0	49.9
2012	49.9	355.7	11.0	416.6	318.7	53.1	371.8	44.7
2013	44.7	433.9	9.0	487.1	345.3	90.2	435.6	51.8
2014	51.5	442.4	8.5	503.4	348.8	84.6	433.3	69.7
2015	69.6	432.2	8.4	509.3	349.7	83.1	432.8	76.8
2016	76.8	475.3	7.4	560.5	365.2	98.0	463.2	96.5

¹ Aggregate data on corn, sorghum, barley, oats, wheat, rye, and rice. ² The marketing year for corn and sorghum begins September 1; for oats, barley, wheat, and rye, June 1; and for rice, August 1.
ERS, Market and Trade Economics Division, (202) 694–5313.

Table 1-2.—Wheat: Area, yield, production, and value, United States, 2009–2018

Year	Area		Yield per harvested acre	Production	Marketing year average price per bushel received by farmers ²	Value of production ²
	Planted ¹	Harvested				
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>Bushels</i>	<i>1,000 bushels</i>	<i>Dollars</i>	<i>1,000 dollars</i>
2009	59,017	49,841	44.3	2,208,918	4.87	10,607,218
2010	52,620	46,883	46.1	2,163,023	5.70	12,579,125
2011	54,277	45,687	43.6	1,993,111	7.24	14,269,225
2012	55,294	48,758	46.2	2,252,307	7.77	17,383,149
2013	56,236	45,332	47.1	2,134,979	6.87	14,604,442
2014	56,841	46,385	43.7	2,026,310	5.99	11,914,954
2015	54,999	47,318	43.6	2,061,939	4.89	10,018,323
2016	50,116	43,848	52.7	2,308,663	3.89	9,179,190
2017	46,052	37,555	46.4	1,740,910	4.72	8,255,119
2018	47,815	39,612	47.6	1,885,156	5.16	9,699,073

¹ Includes area seeded in preceding fall for winter wheat. ² Includes allowance for loans outstanding and purchases by the Government valued at the average loan and purchase rate, by States, where applicable.
NASS, Crops Branch, (202) 720–2127.

Table 1-3.—Wheat, by type: Area, yield, production, and value, United States, 2009–2018

Year	Area		Yield per harvested acre	Production	Marketing year average price per bushel received by farmers ²	Value of production ²
	Planted ¹	Harvested				
Winter wheat						
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>Bushels</i>	<i>1,000 bushels</i>	<i>Dollars</i>	<i>1,000 dollars</i>
2009	43,287	34,550	44.0	1,521,077	4.71	7,070,719
2010	36,576	31,219	46.5	1,452,313	5.37	7,835,595
2011	40,596	32,378	46.1	1,493,130	6.81	10,154,257
2012	40,897	34,609	47.1	1,630,387	7.55	12,245,482
2013	43,230	32,650	47.3	1,542,902	6.89	10,590,949
2014	42,409	32,299	42.6	1,377,216	5.92	8,036,108
2015	39,681	32,346	42.5	1,374,690	4.80	6,555,216
2016	36,149	30,235	55.3	1,672,522	3.57	6,114,353
2017	32,726	25,301	50.2	1,270,282	4.32	5,522,949
2018	32,542	24,742	47.9	1,183,939	5.08	5,981,865
Durum wheat						
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>Bushels</i>	<i>1,000 bushels</i>	<i>Dollars</i>	<i>1,000 dollars</i>
2009	2,512	2,386	44.0	104,930	5.47	569,360
2010	2,503	2,462	41.2	101,482	5.98	633,469
2011	1,337	1,280	36.8	47,043	9.68	445,186
2012	2,138	2,122	38.4	81,501	8.18	682,317
2013	1,400	1,338	43.3	57,976	7.46	432,733
2014	1,407	1,346	40.2	54,056	8.81	482,417
2015	1,951	1,911	44.0	84,009	7.36	615,160
2016	2,412	2,360	44.0	103,914	6.01	608,093
2017	2,307	2,106	26.0	54,777	6.35	344,791
2018	2,073	1,974	39.5	77,985	5.33	405,313
Other spring wheat ³						
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>Bushels</i>	<i>1,000 bushels</i>	<i>Dollars</i>	<i>1,000 dollars</i>
2009	13,218	12,905	45.2	582,911	5.23	2,967,139
2010	13,541	13,202	46.1	609,228	6.49	4,110,061
2011	12,344	12,029	37.7	452,938	8.24	3,669,782
2012	12,259	12,027	44.9	540,419	8.24	4,455,350
2013	11,606	11,344	47.1	534,101	6.73	3,580,760
2014	13,025	12,740	46.7	595,038	5.75	3,396,429
2015	13,367	13,061	46.2	603,240	4.78	2,847,947
2016	11,555	11,253	47.3	532,227	4.56	2,456,744
2017	11,019	10,148	41.0	415,851	5.71	2,387,379
2018	13,200	12,896	48.3	623,232	5.31	3,311,895

¹ Seeded in preceding fall for winter wheat. ² Obtained by weighting State prices by quantity sold. ³ Includes small quantities of Durum wheat grown in other States.
NASS, Crops Branch, (202) 720-2127.

Table 1-4.—Wheat: Stocks on and off farms, United States, 2009–2018

Year beginning September	All wheat							
	On farms				Off farms ¹			
	Sept. 1	Dec. 1	Mar. 1	Jun. 1	Sept. 1	Dec. 1	Mar. 1	Jun. 1
	<i>1,000 bushels</i>							
2009	836,000	558,800	348,250	209,900	1,373,338	1,222,891	1,008,107	765,737
2010	812,100	550,000	288,010	130,915	1,637,517	1,382,946	1,137,292	732,083
2011	633,000	405,200	217,100	112,030	1,513,669	1,257,318	982,245	630,590
2012	572,900	399,500	236,970	120,150	1,542,209	1,271,079	997,860	597,739
2013	555,000	398,400	237,530	96,995	1,314,637	1,076,451	819,435	493,288
2014	713,450	472,800	278,710	155,170	1,193,770	1,056,830	861,697	597,224
2015	650,200	503,450	319,800	197,210	1,446,889	1,242,457	1,051,862	778,393
2016	728,200	571,280	349,500	191,755	1,816,830	1,508,080	1,309,175	988,847
2017	492,500	394,180	259,310	130,475	1,774,275	1,479,335	1,236,131	968,414
2018	632,700	504,280	367,870	206,545	1,757,071	1,505,205	1,225,201	873,216
	<i>1,000 bushels</i>							
	Durum wheat ²							
Year beginning September	On farms				Off farms ¹			
	Sept. 1	Dec. 1	Mar. 1	Jun. 1	Sept. 1	Dec. 1	Mar. 1	Jun. 1
	<i>1,000 bushels</i>							
2009	74,100	50,600	34,300	23,900	27,686	25,181	21,216	10,749
2010	71,200	46,600	35,700	22,100	28,931	21,742	20,720	13,366
2011	34,900	24,500	17,900	15,200	28,828	23,507	17,899	10,270
2012	43,600	36,700	21,400	13,600	24,842	24,306	21,088	9,450
2013	42,900	32,800	20,700	12,800	23,465	21,175	17,430	8,724
2014	38,700	23,900	16,200	10,250	19,121	20,147	21,454	15,406
2015	44,900	35,700	17,700	12,190	29,146	24,787	24,785	15,609
2016	65,500	49,200	32,400	18,350	26,386	23,719	20,584	17,953
2017	33,400	30,700	25,800	14,950	32,756	25,351	23,740	19,996
2018	51,800	46,700	40,600	26,050	38,260	36,830	33,789	28,920

¹ Includes stocks at mills, elevators, warehouses, terminals, and processors. ² Included in all wheat. NASS, Crops Branch, (202) 720-2127.

Table 1-5.—Wheat: Supply and disappearance, by class, United States, 2014–2018¹

Item	Year beginning June				
	2014	2015	2016	2017	2018
	<i>Million bushels</i>				
All wheat:					
Stocks, June 1	590	752	976	1,181	1,099
Production	2,026	2,062	2,309	1,741	1,884
Supply ²	2,768	2,927	3,402	3,079	3,118
Exports ³	864	778	1,051	906	936
Domestic disappearance	1,151	1,174	1,171	1,075	1,110
Stocks, May 31	752	976	1,181	1,099	1,072
Hard red winter:					
Stocks, June 1	237	294	446	589	581
Production	739	830	1,082	750	662
Supply ²	985	1,130	1,533	1,346	1,248
Exports ³	272	227	453	373	331
Domestic disappearance	419	458	490	392	411
Stocks, May 31	294	446	589	581	506
Soft red winter:					
Stocks, June 1	113	154	157	215	205
Production	455	359	345	293	286
Supply ²	571	518	510	513	495
Exports ³	134	120	91	91	128
Domestic disappearance	283	241	204	.....	188
Stocks, May 31	154	157	215	205	178
Hard red spring:					
Stocks, June 1	169	212	272	235	191
Production	556	568	491	384	587
Supply ²	802	842	830	707	847
Exports ³	274	254	319	229	260
Domestic disappearance	316	316	276	287	279
Stocks, May 31	212	272	235	191	309
Durum:					
Stocks, June 1	22	26	28	36	35
Production	54	84	104	55	77
Supply ²	126	143	162	143	167
Exports ³	37	29	25	18	20
Domestic disappearance	64	86	101	90	86
Stocks, May 31	26	28	36	35	61
White:					
Stocks, June 1	50	67	74	105	87
Production	224	221	286	259	272
Supply ²	283	294	368	371	365
Exports ³	147	147	163	193	200
Domestic disappearance	69	73	100	90	96
Stocks, May 31	67	74	105	87	69

¹ Data except production are approximations. ² Total supply includes imports. ³ Import and exports include flour and products in wheat equivalent.

ERS, Market and Trade Economics Division, (202) 694-5285.

Table 1-6.—Wheat: Supply and disappearance, United States, 2009–2018

Year beginning June	Supply				Disappearance						Ending stocks May 31
	Beginning stocks	Production	Imports ¹	Total	Domestic use				Ex-ports ¹	Total disappearance	
					Food	Seed	Feed ²	Total			
<i>Million bushels</i>											
2009	657	2,218	119	2,984	919	68	142	1,129	879	2,008	976
2010	976	2,207	97	3,236	926	71	85	1,081	1,291	2,373	863
2011	862	1,999	112	2,969	941	76	159	1,176	1,051	2,227	743
2012	743	2,252	124	3,119	951	73	365	1,389	1,012	2,401	718
2013	718	2,135	172	3,025	955	74	230	1,259	1,176	2,435	590
2014	590	2,026	151	2,768	958	79	113	1,151	864	2,015	752
2015	752	2,062	113	2,927	957	67	149	1,174	778	1,952	676
2016	976	2,309	118	3,402	949	61	161	1,171	1,051	2,222	1,181
2017	1,181	1,741	158	3,080	964	63	47	1,075	906	1,981	1,099
2018	1,099	1,884	140	3,123	955	60	96	1,110	936	2,046	1,072

¹Imports and exports include flour and other products expressed in wheat equivalent. ²Approximates feed and residual use and includes negligible quantities used for distilled spirits.
Totals may not add due to independent rounding.
ERS, Market and Trade Economics Division, (202) 694-5296.

Table 1-7.—All Wheat: Area, yield, and production, by State and United States, 2016–2018

State	Area planted ¹			Area harvested		
	2016	2017	2018	2016	2017	2018
<i>1,000 acres</i>						
Alabama	230	150	160	170	100	110
Arizona	111	115	96	103	105	77
Arkansas	195	200	175	115	125	95
California	480	420	425	217	182	147
Colorado	2,361	2,260	2,260	2,200	2,029	1,954
Delaware	70	75	75	65	60	45
Florida	22	20	15	15	10	10
Georgia	180	160	200	110	70	70
Idaho	1,190	1,175	1,191	1,125	1,109	1,136
Illinois	520	500	600	470	470	560
Indiana	330	290	310	280	240	260
Iowa	25	16	16	17	8	6
Kansas	8,500	7,600	7,700	8,200	6,950	7,300
Kentucky	510	480	450	400	310	300
Louisiana	25	20	15	20	13	10
Maryland	360	410	360	260	185	200
Michigan	610	480	510	570	425	470
Minnesota	1,321	1,170	1,621	1,268	1,135	1,575
Mississippi	65	45	55	50	25	30
Missouri	690	640	740	570	540	520
Montana	5,130	5,140	5,390	4,975	4,665	5,165
Nebraska	1,370	1,120	1,100	1,310	1,020	1,010
Nevada	15	29	23	9	14	8
New Jersey	25	23	18	21	17	15
New Mexico	345	330	320	210	135	105
New York	120	140	110	115	125	95
North Carolina	420	450	460	355	375	370
North Dakota	7,590	6,680	7,735	7,405	6,260	7,635
Ohio	580	490	490	560	460	450
Oklahoma	5,000	4,500	4,400	3,500	2,900	2,500
Oregon	810	775	800	797	763	770
Pennsylvania	190	210	195	150	150	145
South Carolina	60	90	80	50	75	65
South Dakota	2,270	1,887	1,883	2,157	1,196	1,628
Tennessee	400	370	380	335	275	285
Texas	5,000	4,700	4,500	2,800	2,350	1,750
Utah	129	134	130	120	120	103
Virginia	210	210	230	175	145	155
Washington	2,240	2,195	2,220	2,200	2,140	2,165
West Virginia	7	8	7	4	4	3
Wisconsin	270	210	240	250	170	200
Wyoming	140	135	130	125	105	115
United States	50,116	46,052	47,815	43,848	37,555	39,612

See footnote(s) at end of table.

Table 1-7.—All Wheat: Area, yield, and production, by State and United States, 2016–2018—Continued

State	Yield per harvested acre			Production		
	2016	2017	2018	2016	2017	2018
	<i>Bushels</i>			<i>1,000 bushels</i>		
Alabama	70.0	77.0	72.0	11,900	7,700	7,920
Arizona	97.8	100.8	102.6	10,073	10,589	7,898
Arkansas	54.0	52.0	55.0	6,210	6,500	5,225
California	79.7	68.2	81.5	17,302	12,404	11,985
Colorado	48.2	43.2	36.1	106,000	87,598	70,504
Delaware	67.0	73.0	71.0	4,355	4,380	3,195
Florida	30.0	37.0	36.0	450	370	360
Georgia	46.0	47.0	54.0	5,060	3,290	3,780
Idaho	91.4	81.8	91.9	102,795	90,723	104,410
Illinois	74.0	76.0	66.0	34,780	35,720	36,960
Indiana	81.0	74.0	71.0	22,680	17,760	18,460
Iowa	63.0	68.0	58.0	1,071	544	348
Kansas	57.0	48.0	38.0	467,400	333,600	277,400
Kentucky	80.0	77.0	66.0	32,000	23,870	19,800
Louisiana	45.0	46.0	65.0	900	598	650
Maryland	64.0	71.0	63.0	16,640	13,135	12,600
Michigan	89.0	79.0	76.0	50,730	33,575	35,720
Minnesota	59.0	66.9	59.0	74,828	75,935	92,930
Mississippi	48.0	58.0	49.0	2,400	1,450	1,470
Missouri	70.0	68.0	59.0	39,900	36,720	30,680
Montana	42.4	27.3	38.3	210,875	127,430	197,630
Nebraska	54.0	46.0	49.0	70,740	46,920	49,490
Nevada	72.3	105.7	112.5	651	1,480	900
New Jersey	64.0	64.0	62.0	1,344	1,088	930
New Mexico	22.0	30.0	15.0	4,620	4,050	1,575
New York	74.0	67.0	69.0	8,510	8,375	6,555
North Carolina	41.0	55.0	57.0	14,555	20,625	21,090
North Dakota	45.0	37.9	47.6	332,978	237,133	363,483
Ohio	80.0	74.0	75.0	44,800	34,040	33,750
Oklahoma	39.0	34.0	28.0	136,500	98,600	70,000
Oregon	50.1	63.0	67.0	39,937	48,069	51,590
Pennsylvania	68.0	72.0	65.0	10,200	10,800	9,425
South Carolina	43.0	49.0	54.0	2,150	3,675	3,510
South Dakota	51.6	34.8	44.4	111,281	41,678	72,294
Tennessee	73.0	70.0	65.0	24,455	19,250	18,525
Texas	32.0	29.0	32.0	89,600	68,150	56,000
Utah	59.9	52.0	52.0	7,184	6,240	5,356
Virginia	53.0	66.0	60.0	9,275	9,570	9,300
Washington	71.5	66.6	70.8	157,290	142,500	153,210
West Virginia	61.0	69.0	46.0	244	276	138
Wisconsin	79.0	68.0	71.0	19,750	11,560	14,200
Wyoming	34.0	28.0	34.0	4,250	2,940	3,910
United States	52.7	46.4	47.6	2,308,663	1,740,910	1,885,156

¹ Includes area planted preceding fall.
NASS, Crops Branch, (202) 720-2127.

Table 1-8.—Wheat, by type: Area, yield, and production, by State and United States, 2016–2018

State	Area planted ¹			Area harvested		
	2016	2017	2018	2016	2017	2018
<i>1,000 acres</i>						
Winter wheat						
Alabama	230	150	160	170	100	110
Arizona	14	25	22	7	16	4
Arkansas	195	200	175	115	125	95
California	425	385	380	170	155	110
Colorado	2,350	2,250	2,250	2,190	2,020	1,950
Delaware	70	75	75	65	60	45
Florida	22	20	15	15	10	10
Georgia	180	160	200	110	70	70
Idaho	770	720	720	720	670	680
Illinois	520	500	600	470	470	560
Indiana	330	290	310	280	240	260
Iowa	25	16	16	17	8	6
Kansas	8,500	7,600	7,700	8,200	6,950	7,300
Kentucky	510	480	450	400	310	300
Louisiana	25	20	15	20	13	10
Maryland	360	410	360	260	185	200
Michigan	610	480	510	570	425	470
Minnesota	11	10	11	8	5	5
Mississippi	65	45	55	50	25	30
Missouri	690	640	740	570	540	520
Montana	2,250	1,750	1,650	2,150	1,590	1,570
Nebraska	1,370	1,120	1,100	1,310	1,020	1,010
Nevada	10	14	13	6	5	5
New Jersey	25	23	18	21	17	15
New Mexico	345	330	320	210	135	105
New York	120	140	110	115	125	95
North Carolina	420	450	460	355	375	370
North Dakota	130	70	85	120	35	70
Ohio	580	490	490	560	460	450
Oklahoma	5,000	4,500	4,400	3,500	2,900	2,500
Oregon	720	700	720	710	690	695
Pennsylvania	190	210	195	150	150	145
South Carolina	60	90	80	50	75	65
South Dakota	1,180	910	830	1,100	520	660
Tennessee	400	370	380	335	275	285
Texas	5,000	4,700	4,500	2,800	2,350	1,750
Utah	120	120	120	112	108	94
Virginia	210	210	230	175	145	155
Washington	1,700	1,700	1,700	1,670	1,650	1,650
West Virginia	7	8	7	4	4	3
Wisconsin	270	210	240	250	170	200
Wyoming	140	135	130	125	105	115
United States	36,149	32,726	32,542	30,235	25,301	24,742
Other spring wheat						
Colorado	11	10	10	10	9	4
Idaho	410	430	460	395	415	445
Minnesota	1,310	1,160	1,610	1,260	1,130	1,570
Montana	2,100	2,500	2,900	2,060	2,290	2,820
Nevada	5	15	10	3	9	3
North Dakota	6,000	5,350	6,550	5,850	5,050	6,490
Oregon	90	75	80	87	73	75
South Dakota	1,080	970	1,050	1,050	670	965
Utah	9	14	10	8	12	9
Washington	540	495	520	530	490	515
United States	11,555	11,019	13,200	11,253	10,148	12,896
Durum wheat						
Arizona	97	90	74	96	89	73
California	55	35	45	47	27	37
Idaho	10	25	11	10	24	11
Montana	780	890	840	765	785	775
North Dakota	1,460	1,260	1,100	1,435	1,175	1,075
South Dakota	10	7	3	7	6	3
United States	2,412	2,307	2,073	2,360	2,106	1,974

See footnote(s) at end of table.

Table 1-8.—Wheat, by type: Area, yield, and production, by State and United States, 2016–2018—Continued

State	Yield per harvested acre			Production		
	2016	2017	2018	2016	2017	2018
	<i>Bushels</i>			<i>1,000 bushels</i>		
	Winter wheat					
Alabama	70.0	77.0	72.0	11,900	7,700	7,920
Arizona	95.0	100.0	40.0	665	1,600	160
Arkansas	54.0	52.0	55.0	6,210	6,500	5,225
California	78.0	64.0	77.0	13,260	9,920	8,470
Colorado	48.0	43.0	36.0	105,120	86,860	70,200
Delaware	67.0	73.0	71.0	4,355	4,380	3,195
Florida	30.0	37.0	36.0	450	370	360
Georgia	46.0	47.0	54.0	5,060	3,290	3,780
Idaho	94.0	80.0	90.0	67,680	53,600	61,200
Illinois	74.0	76.0	66.0	34,780	35,720	36,960
Indiana	81.0	74.0	71.0	22,680	17,760	18,460
Iowa	63.0	68.0	58.0	1,071	544	348
Kansas	57.0	48.0	38.0	467,400	333,600	277,400
Kentucky	80.0	77.0	66.0	32,000	23,870	19,800
Louisiana	45.0	46.0	65.0	900	598	650
Maryland	64.0	71.0	63.0	16,640	13,135	12,600
Michigan	89.0	79.0	76.0	50,730	33,575	35,720
Minnesota	61.0	45.0	60.0	488	225	300
Mississippi	48.0	58.0	49.0	2,400	1,450	1,470
Missouri	70.0	68.0	59.0	39,900	36,720	30,680
Montana	49.0	42.0	50.0	105,350	66,780	78,500
Nebraska	54.0	46.0	49.0	70,740	46,920	49,490
Nevada	75.0	107.0	120.0	450	535	600
New Jersey	64.0	64.0	62.0	1,344	1,088	930
New Mexico	22.0	30.0	15.0	4,620	4,050	1,575
New York	74.0	67.0	69.0	8,510	8,375	6,555
North Carolina	41.0	55.0	57.0	14,555	20,625	21,090
North Dakota	48.0	37.0	43.0	5,760	1,295	3,010
Ohio	80.0	74.0	75.0	44,800	34,040	33,750
Oklahoma	39.0	34.0	28.0	136,500	98,600	70,000
Oregon	50.0	63.0	67.0	35,500	43,470	46,565
Pennsylvania	68.0	72.0	65.0	10,200	10,800	9,425
South Carolina	43.0	49.0	54.0	2,150	3,675	3,510
South Dakota	58.0	40.0	48.0	63,800	20,800	31,680
Tennessee	73.0	70.0	65.0	24,455	19,250	18,525
Texas	32.0	29.0	32.0	89,600	68,150	56,000
Utah	60.0	52.0	52.0	6,720	5,616	4,888
Virginia	53.0	66.0	60.0	9,275	9,570	9,300
Washington	78.0	73.0	76.0	130,260	120,450	125,400
West Virginia	61.0	69.0	46.0	244	276	138
Wisconsin	79.0	68.0	71.0	19,750	11,560	14,200
Wyoming	34.0	28.0	34.0	4,250	2,940	3,910
United States	55.3	50.2	47.9	1,672,522	1,270,282	1,183,939
	Other spring wheat					
Colorado	88.0	82.0	76.0	880	738	304
Idaho	87.0	85.0	95.0	34,365	35,275	42,275
Minnesota	59.0	67.0	59.0	74,340	75,710	92,630
Montana	36.0	21.0	34.0	74,160	48,090	95,880
Nevada	67.0	105.0	100.0	201	945	300
North Dakota	46.0	41.0	49.0	269,100	207,050	318,010
Oregon	51.0	63.0	67.0	4,437	4,599	5,025
South Dakota	45.0	31.0	42.0	47,250	20,770	40,530
Utah	58.0	52.0	52.0	464	624	468
Washington	51.0	45.0	54.0	27,030	22,050	27,810
United States	47.3	41.0	48.3	532,227	415,851	623,232
	Durum wheat					
Arizona	98.0	101.0	106.0	9,408	8,989	7,738
California	86.0	92.0	95.0	4,042	2,484	3,515
Idaho	75.0	77.0	85.0	750	1,848	935
Montana	41.0	16.0	30.0	31,365	12,560	23,250
North Dakota	40.5	24.5	39.5	58,118	28,788	42,463
South Dakota	33.0	18.0	28.0	231	108	84
United States	44.0	26.0	39.5	103,914	54,777	77,985

¹ Includes area planted preceding fall.
NASS, Crops Branch, (202) 720-2127.

Table 1-9.—Wheat: Support operations, United States, 2012–2018

Marketing year beginning June 1	Income support payment rates per bushel ¹	Program price levels per bushel		Put under loan		Acquired by CCC under loan program ⁵	Owned by CCC at end of marketing year	
		Loan ²	Target/Reference ³	Quantity	Percentage of production ⁴			
								Dollars
		<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Million bushels</i>	<i>Percent</i>	<i>Million bushels</i>	<i>Million bushels</i>
2012/2013 ...	0.52/0.00	2.94	4.17	27.5	1.2	0	0	
2013/2014 ...	0.52/0.00	2.94	4.17	24.7	1.2	0	0	
2014/2015 ...	0.00	2.94	5.50	43.1	2.1	0	0	
2015/2016 ...	0.61	2.94	5.50	80.9	3.9	0	0	
2016/2017 ...	1.61	2.94	5.50	150.7	6.5	0.25	0	
2017/2018 ...	0.85	2.94	5.50	44.7	2.6	0	0	
2018/2019 ...	0.34	2.94	5.50	65.1	5.9	0	0	

¹The first entry is the direct payment rate and the second entry is the counter-cyclical payment rate for 2004/2005-2013/2014. For 2009/2010-2013/2014, producers who participated in the Average Crop Revenue (ACRE) program got a 20 percent reduction in their direct payment, not calculated in this table. For 2014/2015 and after, the entry is the price loss coverage (PLC) payment rate. Agricultural Risk Coverage (ARC) is also available, but payment rates are established at the county or farm levels. ² For 2009/2010-2013/2014, producers who participated in the ACRE program got a 30 percent reduction in their loan rate, not calculated in this table. ³ Target applies to 2003/2004-2013/2014 and Reference applies beginning with 2014/2015. ⁴ Percent of production is on a grain basis. ⁵ Acquisitions as of September 30, 2019. FPAC-BC, Commodity Analysis Branch.

Table 1-10.—Wheat: Marketing year average price and value, by State and United States, 2016–2018

State	Marketing year average price per bushel			Value of production		
	2016	2017	2018 ¹	2016	2017	2018 ¹
	<i>Dollars</i>			<i>1,000 dollars</i>		
Alabama	4.45	4.60	4.95	52,955	35,420	40,392
Arizona	6.70	7.06	7.01	66,459	70,822	52,337
Arkansas	4.66	4.46	4.88	28,939	28,990	25,603
California	5.07	5.42	6.39	88,401	67,730	72,892
Colorado	3.08	3.88	4.61	326,674	339,873	327,935
Delaware	4.04	4.63	4.90	17,594	20,279	15,336
Florida	3.90	4.00	4.40	1,755	1,480	1,494
Georgia	4.05	4.10	4.80	20,493	13,489	17,766
Idaho	4.10	4.64	5.15	421,527	426,305	535,949
Illinois	4.09	4.59	4.77	142,250	163,955	175,560
Indiana	4.04	4.78	4.90	91,627	84,893	89,531
Iowa	3.62	3.90	4.75	3,877	2,122	1,653
Kansas	3.20	4.07	4.93	1,495,680	1,357,752	1,373,130
Kentucky	4.52	4.68	5.19	144,640	111,712	101,970
Louisiana	4.25	4.20	5.10	3,825	2,512	3,315
Maryland	4.04	4.63	4.90	67,226	60,815	60,480
Michigan	4.15	4.54	5.08	210,530	152,431	180,386
Minnesota	4.69	5.76	5.25	351,326	438,062	497,041
Mississippi	4.47	4.30	4.88	10,728	6,235	7,203
Missouri	3.99	4.47	4.84	159,201	164,138	147,264
Montana	4.43	5.34	5.24	947,754	695,891	1,054,840
Nebraska	3.14	4.03	4.71	222,124	189,088	235,078
Nevada	4.05	4.70	5.18	2,637	7,233	4,995
New Jersey	4.15	4.60	4.90	5,578	5,005	4,557
New Mexico	3.30	4.20	4.75	15,246	17,010	7,481
New York	4.29	4.88	5.31	36,508	40,870	35,069
North Carolina	4.61	4.70	4.80	67,099	96,938	100,178
North Dakota	4.68	5.74	5.09	1,578,377	1,362,415	1,872,675
Ohio	4.25	4.90	5.08	190,400	166,796	170,438
Oklahoma	3.44	3.98	5.10	469,560	392,428	360,500
Oregon	4.53	5.16	5.80	180,160	245,537	298,150
Pennsylvania	4.64	5.21	5.30	47,328	56,268	50,895
South Carolina	4.34	4.20	4.70	9,331	15,435	16,146
South Dakota	4.15	5.52	5.24	456,411	233,427	382,000
Tennessee	4.64	4.60	5.24	113,471	88,550	96,330
Texas	3.54	3.89	5.17	317,184	265,104	288,400
Utah	4.30	5.20	6.00	29,298	32,448	31,249
Virginia	4.75	4.60	4.70	44,056	44,022	43,710
Washington	4.16	4.85	5.51	656,782	690,902	835,677
West Virginia	4.80	4.70	4.90	1,171	1,297	676
Wisconsin	3.51	4.15	4.55	69,323	47,974	64,610
Wyoming	3.22	3.90	4.75	13,685	11,466	18,182
United States	3.89	4.72	5.16	9,179,190	8,255,119	9,699,073

¹ Preliminary.
NASS, Crops Branch, (202) 720-2127.

Table 1-11.—International Wheat: Area, yield, and production in specified countries, 2016/2017–2018/2019

Country	Area			Yield per hectare			Production		
	2016/ 2017	2017/ 2018	2018/ 2019	2016/ 2017	2017/ 2018	2018/ 2019	2016/ 2017	2017/ 2018	2018/ 2019
	1,000 hectares			Metric tons			1,000 metric tons		
European Union ...	27,232	26,160	25,701	5.34	5.78	5.34	145,369	151,141	137,219
China	24,694	24,508	24,268	5.40	5.48	5.42	133,271	134,334	131,430
India	30,220	30,785	29,576	2.88	3.20	3.38	87,000	98,510	99,870
Russia	27,004	27,370	26,344	2.69	3.11	2.72	72,529	85,167	71,685
United States	17,745	15,198	16,028	3.54	3.12	3.20	62,832	47,380	51,287
Canada	8,976	8,983	9,900	3.58	3.34	3.21	32,140	29,984	31,800
Pakistan	9,224	9,050	8,800	2.78	2.94	2.85	25,633	26,600	25,100
Ukraine	6,462	6,642	6,718	4.15	4.06	3.73	26,791	26,981	25,057
Argentina	5,560	5,800	6,040	3.31	3.19	3.23	18,400	18,500	19,500
Turkey	7,815	7,800	7,615	2.21	2.69	2.50	17,250	21,000	19,000
Australia	12,191	10,919	10,200	2.61	1.92	1.70	31,819	20,941	17,300
Iran	6,700	6,700	6,700	2.16	2.09	2.16	14,500	14,000	14,500
Kazakhstan	12,373	11,912	11,354	1.21	1.24	1.23	14,985	14,802	13,947
Egypt	1,260	1,320	1,320	6.43	6.40	6.40	8,100	8,450	8,450
Morocco	2,414	3,321	2,850	1.13	2.14	2.58	2,731	7,091	7,340
Uzbekistan	1,446	1,440	1,400	4.80	4.79	4.29	6,940	6,900	6,000
Brazil	2,120	1,916	2,042	3.18	2.23	2.66	6,730	4,264	5,428
Ethiopia	1,696	1,717	1,700	2.68	2.81	2.65	4,538	4,831	4,500
Algeria	1,300	1,600	2,074	1.54	1.50	1.90	2,000	2,400	3,940
Afghanistan	2,300	2,100	2,000	2.22	2.00	1.80	5,100	4,200	3,600
Serbia	610	540	675	4.92	4.26	5.04	3,000	2,300	3,400
Iraq	2,350	2,200	1,700	1.80	1.82	1.77	4,225	4,000	3,000
Mexico	724	667	540	5.34	5.24	5.56	3,865	3,494	3,000
Belarus	711	718	700	3.29	3.65	3.71	2,340	2,620	2,600
Syria	1,100	1,100	1,100	2.18	2.00	1.82	2,400	2,200	2,000
Azerbaijan	590	596	700	3.05	2.97	2.86	1,800	1,770	2,000
South Africa	508	492	503	3.76	3.12	3.71	1,910	1,535	1,868
Nepal	761	770	760	2.41	2.31	2.35	1,834	1,780	1,786
Chile	225	236	243	6.00	6.23	6.21	1,349	1,469	1,510
Paraguay	494	430	485	2.60	1.63	2.80	1,284	700	1,360
Moldova	370	336	372	3.50	3.72	3.12	1,293	1,251	1,160
Tunisia	516	579	536	1.80	1.91	2.00	927	1,104	1,070
Bangladesh	405	370	320	3.09	3.12	3.13	1,250	1,153	1,000
Japan	214	213	212	4.16	4.56	4.15	891	972	880
Uruguay	215	193	198	3.52	2.28	3.68	757	440	728
Turkmenistan	825	760	750	1.70	1.32	0.93	1,400	1,000	700
Tajikistan	300	286	300	2.57	3.15	2.33	770	900	700
Kyrgyzstan	270	250	300	2.45	2.40	2.05	662	601	616
Sudan	217	168	200	2.38	2.76	2.98	516	463	595
Switzerland	90	90	90	6.00	6.00	6.00	540	540	540
New Zealand	50	41	42	9.18	9.88	8.81	459	405	370
Kenya	153	86	170	1.45	1.92	2.12	222	165	360
Mongolia	355	366	330	1.32	0.63	1.07	467	231	352
Albania	71	68	75	3.87	4.04	4.13	275	275	310
Bosnia and Herzegovina	71	65	73	4.32	4.45	4.00	307	289	292
Macedonia	80	73	71	3.83	2.74	3.39	306	200	241
Peru	130	128	138	1.62	1.50	1.59	210	192	220
Libya	165	165	165	1.21	1.21	1.21	200	200	200
Zimbabwe	10	44	56	2.00	3.59	3.57	20	158	200
Bolivia	100	114	150	0.73	1.04	1.20	73	119	180

FAS, Office of Global Analysis, (202) 720-6301. Prepared or estimated on the basis of official USDA production, supply, and distribution statistics from foreign governments.

Table 1-12.—Wheat and flour: United States imports, 2009–2018

Year beginning June	All wheat grain	All wheat flour ¹	All wheat products ²	Total all wheat ³
	<i>1,000 bushels</i>	<i>1,000 bushels⁴</i>	<i>1,000 bushels⁴</i>	<i>1,000 bushels</i>
2009	93,003	9,720	15,868	118,591
2010	69,053	11,283	16,582	96,918
2011	84,382	10,666	18,068	113,116
2012	96,103	10,151	18,063	124,317
2013	141,665	11,535	19,267	172,467
2014	116,973	14,332	19,942	151,246
2015	76,433	15,822	20,559	112,815
2016	83,777	14,573	19,675	118,025
2017	120,781	16,814	20,431	158,027
2018	98,004	17,026	19,980	135,010

¹Includes meal, groats, and durum. ²Includes bulgur, couscous, and selected categories of pasta. ³Totals may not add due to rounding. ⁴Expressed in grain-equivalent bushels.
ERS, Market and Trade Economics Division, (202) 694-5285.

Table 1-13.—Wheat: International trade, 2016/2017–2018/2019

Country	2016/2017	2017/2018	2018/2019
	<i>1,000 metric tons</i>	<i>1,000 metric tons</i>	<i>1,000 metric tons</i>
Principle importing countries:			
Egypt	11,175	12,407	12,500
Indonesia	10,176	10,516	11,200
Brazil	7,349	7,021	7,500
Algeria	8,414	8,172	7,000
Philippines	5,704	5,987	7,000
Japan	5,911	5,876	5,800
Turkey	4,513	6,043	5,800
European Union	5,299	5,824	5,500
Mexico	5,370	5,245	5,100
Bangladesh	5,556	6,150	5,000
Nigeria	4,972	5,085	5,000
Iraq	2,446	4,108	4,000
Korea, South	4,667	4,269	4,000
Morocco	5,479	3,676	4,000
United States	3,212	4,284	3,810
Afghanistan	2,700	3,300	3,700
Vietnam	5,535	4,655	3,700
China	4,410	4,000	3,500
Uzbekistan	2,596	3,119	3,200
Yemen	3,278	3,009	3,200
Principle exporting countries:			
Russia	27,809	41,419	36,000
United States	28,602	24,524	25,855
Canada	20,157	21,954	24,300
European Union	27,439	23,289	24,000
Ukraine	18,107	17,775	16,200
Argentina	13,825	12,660	13,000
Australia	22,644	13,848	9,000
Kazakhstan	7,400	9,000	8,500
Turkey	6,174	6,194	6,400
Pakistan	600	1,200	1,500
Serbia	1,077	840	1,300
China	748	1,000	1,200
Brazil	619	230	650
Moldova	734	656	650
Paraguay	678	230	650
Egypt	491	730	600
Mexico	1,119	1,147	550
India	516	439	450
Iran	200	650	400
Nigeria	400	400	400

FAS, Office of Global Analysis, (202) 720-6301. Prepared or estimated on the basis of official USDA production, supply, and distribution statistics from foreign governments.

Table 1-14.—Wheat and flour: United States exports by country of destination, 2016–2018

Country of destination	Year		
	2016	2017	2018
	<i>Metric tons</i>	<i>Metric tons</i>	<i>Metric tons</i>
Wheat:			
Mexico	2,763,704	3,698,250	2,810,012
Japan	2,697,930	3,047,584	2,797,403
Philippines	2,679,306	2,447,963	2,583,359
Nigeria	1,088,333	1,554,669	1,521,306
Korea, South	1,098,891	1,094,747	982,154
Indonesia	0	256,404	882,123
China	1,076,320	1,638,036	816,158
Taiwan	961,240	1,492,946	778,362
Algeria	653,045	735,769	687,802
Colombia	510,442	537,856	548,394
Thailand	424,135	411,961	484,125
Guatemala	463,365	442,004	480,382
Peru	100,885	308,155	449,751
Yemen(*)	837,779	833,326	413,250
Italy(*)	900,689	1,514,399	394,423
Morocco	539,764	399,928	357,507
Dominican Republic	409,530	357,493	340,793
Venezuela	300,061	231,985	322,740
Chile	339,357	840,476	308,623
Ethiopia(*)	427,191	328,770	297,856
El Salvador	366,876	369,991	291,581
Bangladesh	197,376	317,902	279,109
Ecuador	230,619	115,071	275,097
Brazil	1,254,817	286,837	273,462
Iraq	250,544	289,191	266,703
Honduras	434,567	488,441	241,716
Malaysia	492,817	321,720	218,500
Jamaica	169,491	179,086	194,670
Egypt	186,903	224,883	192,592
Egypt	83,975	0	156,707
Rest of World	1,947,495	2,408,255	1,467,133
World Total	23,887,447	27,174,098	22,113,793
Wheat flour:			
Mexico	206,855	181,521	195,588
Canada	122,445	92,992	53,637
Yemen(*)	0	0	5,011
Bahamas, The	1,256	2,133	2,057
Dominican Republic	2,478	2,637	2,019
Netherlands Antilles(*)	1,995	2,166	1,970
Sweden	1,723	1,730	1,763
Malaysia	1,043	1,100	1,325
Trinidad and Tobago	574	804	1,126
Djibouti	1,295	1,254	1,071
Leeward-Windward Islands(*)	989	839	1,015
United Arab Emirates	594	1,089	983
Barbados	344	796	763
Belize	0	111	608
Guatemala	286	405	585
China	442	1,204	571
Panama	401	602	503
Brazil	432	347	472
Japan	344	764	467
New Zealand(*)	359	584	405
Turks and Caicos Islands	110	266	368
Colombia	18	111	340
Jamaica	280	144	280
Korea, South	1,772	1,343	276
Iceland	178	234	231
Micronesia	351	370	223
Netherlands	75	199	219
Kyrgyzstan	0	270	185
Taiwan	188	148	182
Cayman Islands	156	165	175
Rest of World	9,756	2,235	1,959
World Total	356,740	298,560	276,374

(*) Denotes a country that is a summarization of its component countries.
FAS, Office of Global Analysis, (202) 720-6301. Prepared or estimated on the basis of official USDA production, supply, and distribution, supply, and distribution statistics from foreign governments.

Table 1-15.—Rye: Area, yield, production, disposition, and value, United States, 2008–2017

Year	Area		Yield per harvested acre	Production	Marketing year average price per bushel received by farmers ²	Value of production ²
	Planted ¹	Harvested				
	1,000 acres	1,000 acres	Bushels	1,000 bushels	Dollars	1,000 dollars
2009	1,256	251	27.1	6,791	5.06	34,355
2010	1,256	270	27.7	7,480	5.18	38,767
2011	1,227	239	25.3	6,051	7.81	47,250
2012	1,271	250	26.2	6,542	7.69	50,304
2013	1,451	278	27.4	7,626	7.95	60,598
2014	1,434	258	27.9	7,189	7.74	55,639
2015	1,584	365	31.8	11,616	6.50	75,497
2016	1,891	411	32.5	13,337	5.12	68,343
2017	1,961	300	34.2	10,252	4.70	48,180
2018	2,011	273	30.9	8,432	6.27	51,674

¹ Area planted in preceding fall. ² 2018 data is preliminary. NASS, Crops Branch, (202) 720-2127.

Table 1-16.—Rye: Supply and disappearance, United States, 2009–2018

Year beginning June	Supply				Disappearance						Ending stocks May 31	
	Beginning stocks	Production	Imports	Total	Domestic use					Exports		Total disappearance ²
					Food	Seed	Industry ¹	Residual use	Total			
1,000 bushels												
2009 ..	509	6,791	4,251	11,551	3,330	2,560	2,161	2,495	10,546	73	10,619	932
2010 ..	932	7,480	5,552	13,964	3,350	2,520	2,176	4,968	13,014	149	13,163	801
2011 ..	801	6,051	5,994	12,846	3,380	2,610	2,531	3,716	12,237	157	12,394	452
2012 ..	452	6,542	8,966	15,960	3,400	2,990	2,786	6,073	15,249	310	15,559	401
2013 ..	401	7,626	9,213	17,240	3,430	2,970	3,399	6,888	16,687	268	16,955	285
2014 ..	285	7,189	9,319	16,793	3,450	3,200	3,173	6,141	15,964	240	16,204	589
2015 ..	589	11,616	8,757	20,962	3,480	3,840	5,321	7,685	20,326	181	20,507	455
2016 ..	455	13,337	6,586	20,378	3,500	4,110	5,727	6,168	19,505	175	19,680	698
2017 ..	698	10,252	8,825	19,775	3,530	4,250	5,800	5,445	19,025	157	19,182	593
2018 ..	593	8,432	11,964	20,989	3,550	3,920	6,000	6,973	20,443	148	20,591	398

¹ Includes commercial adhesives, packaging materials, thatching, mattresses, hats, and paper. ² Totals may not add due to independent rounding. ERS, Market and Trade Economics Division, (202) 694-5302.

Table 1-17.—Rye: Area, yield, and production, by State and United States, 2016–2018

State	Area planted ¹			Area harvested		
	2016	2017	2018	2016	2017	2018
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>1,000 acres</i>
Georgia	200	210	190	30	25	15
Oklahoma	260	260	240	75	45	50
Other States ²	1,431	1,491	1,581	306	230	208
United States	1,891	1,961	2,011	411	300	273

State	Yield per harvested acre			Production		
	2016	2017	2018	2016	2017	2018
	<i>Bushels</i>	<i>Bushels</i>	<i>Bushels</i>	<i>1,000 bushels</i>	<i>1,000 bushels</i>	<i>1,000 bushels</i>
Georgia	21.0	19.0	26.0	630	475	390
Oklahoma	25.0	24.0	22.0	1,875	1,080	1,100
Other States ²	35.4	37.8	33.4	10,832	8,697	6,942
United States	32.5	34.2	30.9	13,337	10,252	8,432

¹ Includes area planted preceding fall. ² Other States include Illinois, Kansas, Maine, Maryland, Michigan, Minnesota, Nebraska, New Jersey, New York, North Carolina, North Dakota, Pennsylvania, South Carolina, South Dakota, Texas, Virginia, and Wisconsin.

NASS, Crops Branch, (202) 720-2127.

Table 1-18.—Rye: Marketing year average price and value, by State and United States, 2016–2018

State	Marketing year average price per bushel			Value of production		
	2016	2017	2018 ¹	2016	2017	2018 ¹
	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>
Georgia	5.85	5.10	7.05	3,686	2,423	2,574
Oklahoma	7.00	5.05	7.55	13,125	5,454	7,700
Other States ²	4.76	4.63	5.77	51,532	40,303	41,400
United States	5.12	4.70	6.27	68,343	48,180	51,674

¹ Preliminary. ² Other States include Illinois, Kansas, Maine, Maryland, Michigan, Minnesota, Nebraska, New Jersey, New York, North Carolina, North Dakota, Pennsylvania, South Carolina, South Dakota, Texas, Virginia, and Wisconsin.

NASS, Crops Branch, (202) 720-2127.

Table 1-19.—International Rye: Area, yield, and production in specified countries, 2016/2017–2018/2019

Country	Area			Yield			Production		
	2016/ 2017	2017/ 2018	2018/ 2019	2016/ 2017	2017/ 2018	2018/ 2019	2016/ 2017	2017/ 2018	2018/ 2019
	1,000 hectares			Metric tons per hectare			1,000 metric tons		
European Union ...	1,915	1,931	1,925	3.89	3.83	3.25	7,440	7,398	6,256
Russia	1,251	1,171	957	2.03	2.17	2.00	2,538	2,540	1,914
Belarus	241	256	250	2.70	2.62	2.60	651	670	650
Ukraine	145	172	149	2.72	2.97	2.66	394	510	396
Turkey	115	101	110	2.61	3.17	2.91	300	320	320
Canada	140	101	79	3.11	3.39	2.98	436	342	235
United States	166	121	110	2.04	2.15	1.95	339	260	214
Argentina	41	45	48	1.93	1.91	2.08	79	86	100
Australia	43	40	44	0.67	0.75	0.68	29	30	30
Kazakhstan	36	31	22	1.14	1.26	1.05	41	39	23
Bosnia and Herzegovina	4	3	4	3.25	3.67	2.75	13	11	11
Switzerland	2	2	2	5.50	5.50	5.50	11	11	11
Serbia	4	4	4	2.50	2.50	2.50	10	10	10
Macedonia	4	4	4	2.50	2.00	2.25	10	8	9
Norway	5	9	3	4.60	5.56	3.00	23	50	9
Brazil	3	4	4	2.33	1.50	2.00	7	6	8
Chile	1	1	1	5.00	5.00	5.00	5	5	5
Albania	1	1	1	3.00	3.00	3.00	3	3	3
South Africa	20	20	20	0.15	0.15	0.15	3	3	3

FAS, Office of Global Analysis, (202) 720-6301. Prepared or estimated on the basis of official USDA production, supply, and distribution, supply, and distribution statistics from foreign governments.

Table 1-20.—Rye: ¹ International trade, 2016/2017–2018/2019 ²

Country	2016/2017	2017/2018	2018/2019
	1,000 metric tons	1,000 metric tons	1,000 metric tons
Principle exporting countries:			
Russia	9	71	300
European Union	76	81	200
Canada	142	193	150
Ukraine	12	38	95
United States	4	4	5
Belarus	11	0	0
Principle importing countries:			
United States	167	225	330
European Union	16	61	300
Belarus	2	15	25
Japan	24	21	20
Norway	3	4	20
Israel	4	21	15
Korea, South	4	3	5
Switzerland	3	2	5
Bosnia and Herzegovina	1	1	1
Canada	0	1	0
Russia	4	0	0
Serbia	1	1	0

¹Flour and products reported in terms of grain equivalent. ²Year beginning July 1.
FAS, Office of Global Analysis, (202) 720-6301. Prepared or estimated on the basis of official USDA production, supply, and distribution statistics from foreign governments.

Table 1-21.—Rice, rough: Area, yield, production, and value, United States, 2009–2018

Year	Area planted	Area harvested	Yield per acre	Production	Marketing year average price per cwt. received by farmers	Value of production
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>Pounds</i>	<i>1,000 cwt</i>	<i>Dollars</i>	<i>1,000 dollars</i>
2009	3,135	3,103	7,085	219,850	14.40	3,209,236
2010	3,636	3,615	6,725	243,104	12.70	3,183,213
2011	2,689	2,617	7,067	184,941	14.50	2,737,423
2012	2,700	2,679	7,463	199,939	15.10	3,067,365
2013	2,490	2,463	7,694	189,500	16.30	3,175,107
2014	2,954	2,933	7,576	222,215	13.40	3,075,618
2015	2,625	2,584	7,472	193,080	12.20	2,421,111
2016	3,150	3,097	7,237	224,145	10.40	2,384,690
2017	2,463	2,374	7,507	178,228	12.90	2,360,439
2018	2,946	2,915	7,692	224,211	12.20	2,751,514

NASS, Crops Branch, (202) 720-2127.

Table 1-22.—Rice, rough: Stocks on and off farms, United States, 2009–2018

Year beginning previous December	On farms			Off farms ¹		
	Dec. 1	Mar. 1	Aug. 1	Dec. 1	Mar. 1	Aug. 1
	<i>1,000 cwt</i>					
2009	47,530	21,286	876	91,071	70,042	23,787
2010	51,880	23,465	1,200	104,726	80,516	29,176
2011	63,617	33,895	3,772	109,869	86,720	37,917
2012	41,180	23,825	910	105,689	82,666	35,052
2013	39,385	18,430	640	108,650	85,839	29,880
2014	36,935	14,995	305	96,636	73,959	26,299
2015	47,865	25,810	1,480	110,061	86,658	41,293
2016	43,245	18,255	3,762	101,804	90,507	34,983
2017	48,595	21,600	4,693	111,734	85,969	34,077
2018	31,570	22,923	1,902	88,104	70,831	21,962

¹ Stocks at mills and in attached warehouses, in warehouses not attached to mills, and in ports or in transit.
NASS, Crops Branch, (202) 720-2127.**Table 1-23.—Rice, by length of grain: Harvest, yield, and production, United States, 2009–2018**

Year	Area harvested			Yield per acre			Production		
	Long grain	Medium grain	Short grain	Long grain	Medium grain	Short grain	Long grain	Medium grain	Short grain
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>1,000 cwt</i>	<i>1,000 cwt</i>	<i>1,000 cwt</i>
2009	2,265	786	52	6,743	8,052	7,373	152,725	63,291	3,834
2010	2,826	746	43	6,486	7,660	6,195	183,296	57,144	2,664
2011	1,739	834	44	6,691	7,861	6,880	116,352	65,562	3,027
2012	1,979	643	57	7,291	8,059	6,737	144,280	51,819	3,840
2013	1,762	654	47	7,464	8,385	6,685	131,896	54,840	3,142
2014	2,196	700	37	7,407	8,175	6,292	162,665	57,222	2,328
2015	1,848	698	38	7,219	8,162	7,121	133,401	56,973	2,706
2016	2,403	651	43	6,927	8,377	7,319	166,465	54,533	3,147
2017	1,748	587	39	7,314	8,155	6,438	127,850	47,867	2,511
2018	2,181	693	41	7,517	8,274	7,112	163,956	57,339	2,916

NASS, Crops Branch, (202) 720-2127.

Table 1-24.—Rice, rough, by length of grain: Stocks in all positions, United States, 2009–2018

Year beginning previous December	Dec. 1	Mar. 1	Jun. 1	Aug. 1	Oct. 1 ¹
<i>1,000 cwt</i>					
Long grain					
2009	96,994	64,226	34,293	17,698	372
2010	103,430	67,910	37,041	19,532	(²)
2011	123,521	86,864	54,636	32,847	(²)
2012	93,027	68,469	37,552	22,034	(²)
2013	99,111	69,313	(NA)	19,439	(²)
2014	84,738	56,125	31,622	14,010	(²)
2015	106,786	71,243	42,295	23,917	(²)
2016	91,814	66,307	36,305	19,801	(²)
2017	106,700	71,636	47,199	28,198	(²)
2018	81,250	57,863	31,903	17,431	(²)
Medium grain					
2009	37,989	24,755	12,722	6,093	938
2010	49,264	33,395	18,344	9,527	3,053
2011	46,853	31,548	15,327	7,870	1,366
2012	50,935	35,978	20,272	12,983	1,870
2013	45,349	32,558	(NA)	10,057	2,029
2014	45,497	30,491	17,294	11,631	6,691
2015	48,483	39,505	27,988	18,169	7,892
2016	50,562	40,718	26,960	18,347	3,732
2017	50,547	33,644	17,612	9,878	3,180
2018	35,376	23,512	11,901	5,561	546
Short grain					
2009	3,618	2,347	1,301	872	522
2010	3,912	2,676	2,023	1,317	(²)
2011	3,112	2,203	1,410	972	(²)
2012	2,907	2,044	1,282	945	(²)
2013	3,575	2,398	(NA)	1,024	(²)
2014	3,336	2,348	1,435	963	(²)
2015	2,657	1,720	1,057	687	(²)
2016	2,653	1,737	999	597	371
2017	3,082	2,289	1,533	694	(²)
2018	3,048	2,021	1,246	872	(²)

(NA) Not available. ¹ California only. ² Not published to avoid disclosing individual reports. NASS, Crops Branch, (202) 720-2127.

Table 1-25.—Rough and milled rice (rough equivalent): Supply and disappearance, United States, 2009–2018¹

Year beginning August	Supply				Disappearance				Ending stocks July 31	
	Beginning stocks	Production	Imports	Total	Food, industrial, & residual ²	Seed	Total	Exports		Total disappearance
<i>Million cwt</i>										
2009 ...	30.4	219.9	19.0	269.3	121.3	3.1	124.4	108.4	232.8	36.5
2010 ...	36.5	243.1	18.3	297.9	134.5	2.4	136.9	112.6	249.5	48.5
2011 ...	48.5	184.9	19.4	252.8	108.4	2.4	110.8	100.9	211.7	41.1
2012 ...	41.1	199.9	21.1	262.1	116.9	2.2	119.0	106.6	225.7	36.4
2013 ...	36.4	189.5	23.1	249.0	121.5	2.4	123.9	93.3	217.2	31.8
2014 ...	31.8	222.2	24.6	278.7	131.8	2.1	133.9	96.3	230.2	48.5
2015 ...	48.5	193.1	24.1	265.7	109.8	2.5	112.3	107.0	219.3	46.5
2016 ...	46.5	224.1	23.5	294.1	131.3	2.0	133.2	114.8	248.0	46.0
2017 ...	46.0	178.2	26.9	251.2	132.5	2.3	134.8	87.0	221.8	29.4
2018 ³	29.4	224.2	29.0	282.6	(NA)	(NA)	135.0	98.0	233.0	49.6

(NA) Not available. ¹ Consolidated supply and disappearance of rough and milled rice. Milled rice data converted to a rough basis using annually derived extraction rates as factors. ² The residual includes unaccounted losses in transporting, processing, and marketing. ³ Projected as of March 8, 2019.

ERS, Market and Trade Economics Division, (202) 694-5292. Sources: USDA, ERS using data from USDA, National Agricultural Statistics Service, *Quick Stats* and USDA, World Agricultural Outlook Board, *World Agricultural Supply and Demand Estimates* report.

Table 1-26.—Rice, by length of grain: Area, yield, and production, by State and United States, 2016–2018

State	Area harvested			Yield per acre			Production		
	2016	2017	2018	2016	2017	2018	2016	2017	2018
Long grain									
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>1,000 cwt</i>	<i>1,000 cwt</i>	<i>1,000 cwt</i>
Arkansas	1,390	955	1,245	6,940	7,510	7,550	96,466	71,721	93,998
California	9	7	11	7,300	7,400	6,000	657	518	660
Louisiana	405	366	392	6,660	6,720	7,160	26,973	24,595	28,067
Mississippi	194	114	139	7,180	7,400	7,350	13,929	8,436	10,217
Missouri	225	151	211	6,640	7,460	7,760	14,940	11,265	16,374
Texas	180	155	183	7,500	7,300	8,000	13,500	11,315	14,640
United States	2,403	1,748	2,181	6,927	7,314	7,517	166,465	127,850	163,956
Medium grain									
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>1,000 cwt</i>	<i>1,000 cwt</i>	<i>1,000 cwt</i>
Arkansas	130	148	181	6,760	7,340	7,330	8,788	10,863	13,267
California	485	398	453	9,000	8,620	8,810	43,650	34,308	39,909
Louisiana	23	29	44	6,160	6,580	6,880	1,417	1,908	3,027
Missouri	6	9	9	6,860	7,060	7,950	412	635	716
Texas	7	3	6	3,800	5,100	7,000	266	153	420
United States	651	587	693	8,377	8,155	8,274	54,533	47,867	57,339
Short grain ¹									
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>1,000 cwt</i>	<i>1,000 cwt</i>	<i>1,000 cwt</i>
Arkansas	1	1	1	6,000	6,000	6,000	60	60	60
California	42	38	40	7,350	6,450	7,140	3,087	2,451	2,856
United States	43	39	41	7,319	6,438	7,112	3,147	2,511	2,916

¹ Sweet rice acreage included with short grain.
NASS, Crops Branch, (202) 720-2127.

Table 1-27.—Rice: Area, yield, and production, by State and United States, 2016–2018

State	Area planted			Area harvested		
	2016	2017	2018	2016	2017	2018
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>1,000 acres</i>
Arkansas	1,546	1,161	1,441	1,521	1,104	1,427
California	541	445	506	536	443	504
Louisiana	437	400	440	428	395	436
Mississippi	195	115	140	194	114	139
Missouri	236	169	224	231	160	220
Texas	195	173	195	187	158	189
United States	3,150	2,463	2,946	3,097	2,374	2,915
State	Yield per harvested acre			Production		
	2016	2017	2018	2016	2017	2018
	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>1,000 cwt</i>	<i>1,000 cwt</i>	<i>1,000 cwt</i>
Arkansas	6,920	7,490	7,520	105,314	82,644	107,325
California	8,840	8,410	8,620	47,394	37,277	43,425
Louisiana	6,630	6,710	7,130	28,390	26,503	31,094
Mississippi	7,180	7,400	7,350	13,929	8,436	10,217
Missouri	6,650	7,440	7,770	15,352	11,900	17,090
Texas	7,360	7,260	7,970	13,766	11,468	15,060
United States	7,237	7,507	7,692	224,145	178,228	224,211

NASS, Crops Branch, (202) 720-2127.

Table 1-28.—Rice: Marketing year average price and value, by State and United States, 2016–2018

State	Marketing year average price per cwt.			Value of production		
	2016	2017	2018 ¹	2016	2017	2018 ¹
	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>
Arkansas	9.39	11.10	10.80	988,898	917,348	1,159,110
California	14.30	20.30	17.50	677,734	756,723	759,938
Louisiana	10.20	11.70	11.30	289,578	310,085	351,362
Mississippi	9.55	11.50	11.10	133,022	97,014	113,409
Missouri	9.92	12.00	10.50	152,292	142,800	179,445
Texas	10.40	11.90	12.50	143,166	136,469	188,250
United States	10.40	12.90	12.20	2,384,690	2,360,439	2,751,514

¹ Preliminary.
NASS, Crops Branch, (202) 720-2127.

Table 1-29.—Rice, milled, by length of grain: Stocks in all positions, United States, 2009–2018

Year beginning previous December	Whole kernels (head rice)				
	Dec. 1	Mar. 1	Jun. 1	Aug. 1	Oct. 1 ¹
	Long grain				
	<i>1,000 cwt</i>	<i>1,000 cwt</i>	<i>1,000 cwt</i>	<i>1,000 cwt</i>	<i>1,000 cwt</i>
2009	2,504	2,300	3,251	1,658	(²)
2010	2,022	2,370	2,043	2,511	(²)
2011	2,665	3,038	3,291	1,924	(²)
2012	2,699	1,856	1,906	1,550	1
2013	2,574	3,144	(NA)	1,704	(²)
2014	3,348	2,379	(³)	1,556	(²)
2015	2,308	1,952	2,523	1,792	(²)
2016	2,716	2,616	3,463	2,022	(²)
2017	2,453	2,659	2,056	1,969	(²)
2018	2,307	1,717	2,633	2,026	(²)
	Medium grain				
	<i>1,000 cwt</i>	<i>1,000 cwt</i>	<i>1,000 cwt</i>	<i>1,000 cwt</i>	<i>1,000 cwt</i>
2009	1,531	978	823	689	(²)
2010	1,496	1,472	1,188	799	454
2011	1,743	1,803	981	845	399
2012	1,406	935	1,041	496	281
2013	1,638	772	(NA)	726	(²)
2014	1,285	1,584	1,601	472	603
2015	1,694	1,139	1,662	878	1,430
2016	1,279	1,459	1,030	1,324	389
2017	1,017	971	1,292	609	388
2018	1,220	1,317	909	804	(²)
	Short grain				
	<i>1,000 cwt</i>	<i>1,000 cwt</i>	<i>1,000 cwt</i>	<i>1,000 cwt</i>	<i>1,000 cwt</i>
2009	80	69	57	51	36
2010	73	74	47	60	(²)
2011	97	62	53	45	(²)
2012	199	49	60	38	69
2013	99	64	(NA)	61	28
2014	58	48	(²)	47	(²)
2015	51	59	54	37	(²)
2016	75	62	41	40	(²)
2017	65	75	101	45	(²)
2018	62	62	56	43	(²)

See footnote(s) at end of table.

Table 1-29.—Rice, milled, by length of grain: Stocks in all positions, United States, 2009–2018—Continued

Year beginning previous December	Broken kernels				
	Dec. 1	Mar. 1	Jun. 1	Aug. 1	Oct. 1 ¹
	Second heads				
	<i>1,000 cwt</i>	<i>1,000 cwt</i>	<i>1,000 cwt</i>	<i>1,000 cwt</i>	<i>1,000 cwt</i>
2009	661	794	828	1,465	(²)
2010	1,374	707	961	670	(²)
2011	888	634	817	992	(²)
2012	1,037	1,021	778	870	(²)
2013	1,231	1,225	(NA)	1,104	(²)
2014	1,243	1,064	1,159	797	(²)
2015	727	1,663	1,227	1,120	(²)
2016	1,385	1,550	1,634	1,436	(²)
2017	1,777	1,924	1,222	1,588	(²)
2018	1,968	1,559	887	566	(²)
	Screenings ³				
	<i>1,000 cwt</i>	<i>1,000 cwt</i>	<i>1,000 cwt</i>	<i>1,000 cwt</i>	<i>1,000 cwt</i>
2009	42	64	61	3	.....
2010	52	20	34	93	.....
2011	110	91	153	75	.....
2012	192	82	145	51	.....
2013	136	271	(NA)	153	.....
2014	96	118	72	92	.....
2015	118	115	153	88	.....
2016	56	61	70	33	.....
2017	82	81	76	84	.....
2018	107	205	205	138	.....
	Brewers				
	<i>1,000 cwt</i>	<i>1,000 cwt</i>	<i>1,000 cwt</i>	<i>1,000 cwt</i>	<i>1,000 cwt</i>
2009	437	527	704	211	(²)
2010	662	252	247	247	(²)
2011	799	647	673	786	(²)
2012	710	551	532	573	(²)
2013	1,241	1,189	(NA)	384	(²)
2014	575	651	589	747	(²)
2015	748	941	1,153	141	(²)
2016	734	387	678	551	(²)
2017	401	510	650	798	(²)
2018	1,038	687	364	285	(²)

(NA) Not available. ¹ California only; included in Second heads. ² Not published to avoid disclosing individual operations. ³ Screenings included in Second heads in California.
NASS, Crops Branch, (202) 720-2127.

Table 1-30.—Rice, rough: Support operations, United States, 2015–2018

Marketing year beginning August 1	Income support payment rates per cwt ¹	Program price levels per cwt		Put under loan		Acquired by CCC under loan program ⁴	Owned by CCC at end of marketing year
		Loan ²	Target/Reference ³	Quantity	Percentage of production		
	Dollars	Dollars	Dollars	Million cwt	Percent	1,000 cwt	1,000 cwt
Long grain							
2015/2016	2.90	6.50	14.00	18.35	13.75	0	0
2016/2017	4.36	6.50	14.00	30.24	18.16	0	0
2017/2018	2.50	6.50	14.00	17.07	13.35	0	0
2018/2019	3.20	6.50	14.00	21.11	12.88	0	0
Medium grain ⁵							
2015/2016	2.80	6.50	14.00	19.74	33.08	0	0
2016/2017	3.90	6.50	14.00	16.74	29.02	0	0
2017/2018	2.30	6.50	14.00	12.19	24.20	0	0
2018/2019	1.70	6.50	14.00	15.19	25.21	0	0
Temperate Japonica ⁶							
2015/2016	0.00	6.50	16.10	16.19	43.29	0	0
2016/2017	2.00	6.50	16.10	16.40	35.09	0	0
2017/2018	0.00	6.50	16.10	10.98	29.86	0	0
2018/2019	0.00	6.50	16.10	12.95	30.29	0	0

(NA) Not applicable.¹The first entry is the direct payment rate and the second entry is the counter-cyclical payment rate for 2012/2013-2013/14. For 2009/2010-2013/2014, producers who participated in the Average Crop Revenue (ACRE) program got a 20 percent reduction in their direct payment, not calculated in this table. For 2014/2015 and after, the entry is the price loss coverage payment rate. Agricultural Risk Coverage (ARC) is also available, but payment rates are established at the county or farm levels. ² For 2009/2010-2013/2014, producers who participated in the ACRE program got a 30 percent reduction in their loan rate, not calculated in this table. ³ Target applies to 2012/2013-2013/2014 and Reference applies beginning with 2014/2015. ⁴ Acquisitions as of September 30, 2019. ⁵ Medium Grain includes all short grain rice and medium grain rice for the marketing assistance loan program. The quantity under loan for 2014/2015 includes the medium and short grain rice in California. The medium and short grain rice in California is also shown in the Temperate Japonica section below. ⁶ Temperate Japonica Rice is medium and short grain rice in California starting with the 2014/2015 crop. Prior to the 2014/2015 crop, temperate japonica rice was classified as medium grain rice for program purposes. FPAC-BC, Commodity Analysis Branch.

Table 1-31.—Rice: United States exports (milled basis), by country of destination, 2016–2018¹

Country of destination	Year		
	2016	2017	2018
	Metric tons	Metric tons	Metric tons
Mexico	837,977	924,842	740,780
Haiti	418,747	530,530	412,253
Japan	346,358	302,973	274,066
Canada	222,546	222,013	240,268
Honduras	250,778	148,212	184,024
Iraq	93,080	33,472	156,906
Colombia	140,851	118,927	150,081
Korea, South	160,025	152,693	114,417
Guatemala	130,795	113,077	114,379
Saudi Arabia	122,551	119,821	95,766
Jordan	102,016	141,006	82,239
El Salvador	79,060	66,328	78,712
Libya	92,652	72,502	75,610
Costa Rica	121,314	72,176	73,582
Taiwan	60,209	51,620	47,410
Venezuela	292,035	239,062	42,218
United Kingdom	30,328	30,070	25,341
Panama	45,330	49,386	24,434
Dominican Republic	19,442	41,245	20,553
Cote d'Ivoire	29,053	4,171	19,005
Tanzania	19	20	16,651
Benin	13,432	27,791	11,753
Nicaragua	1,066	6,697	10,715
Israel(*)	18,236	14,661	10,416
Australia(*)	11,088	11,985	10,020
Liberia	1,059	20,231	9,298
Germany(*)	8,642	9,900	8,060
Bahamas, The	8,036	7,643	7,351
Netherlands	6,969	6,061	7,110
Hong Kong	4,557	18,240	6,212
Rest of World	245,485	285,369	110,890
World Total	3,913,733	3,842,721	3,180,522

(*) Denotes a country that is a summarization of its component countries. ¹ Year beginning Jan 1. FAS, Grain and Feed Division, (202) 720-6219. www.fas.usda.gov/grain/default.html.

Table 1-32.—International Rice, milled: Area, yield, and production in specified countries, 2015/2016–2017/2018

Country	Area			Yield per hectare			Production		
	2015/ 2016	2016/ 2017	2017/ 2018	2015/ 2016	2016/ 2017	2017/ 2018	2015/2016	2016/2017	2017/2018
	1,000 hectares	1,000 hectares	1,000 hectares	Metric tons	Metric tons	Metric tons	1,000 metric tons	1,000 metric tons	1,000 metric tons
Bangladesh	11,765	11,748	11,272	4.40	4.42	4.35	34,500	34,578	32,650
Brazil	2,010	1,981	1,960	5.28	6.22	6.06	7,210	8,383	8,075
Burma	6,900	7,030	7,100	2.75	2.81	2.90	12,160	12,650	13,200
China	30,210	30,178	30,176	6.89	6.86	6.91	145,770	144,953	145,989
India	43,378	43,993	43,916	3.61	3.74	3.76	104,408	109,698	110,000
Indonesia	12,100	12,240	12,250	4.71	4.78	4.76	36,200	36,858	37,000
Japan	1,586	1,570	1,557	6.64	6.81	6.69	7,670	7,780	7,586
Philippines	4,523	4,723	4,855	3.86	3.93	4.02	11,000	11,686	12,300
Thailand	9,444	10,247	10,684	2.53	2.84	2.89	15,800	19,200	20,370
Vietnam	7,704	7,714	7,760	5.73	5.68	5.97	27,584	27,400	28,943
Others	28,491	28,802	29,229	2.27	2.31	2.28	64,801	66,410	66,768
Total Foreign	158,111	160,226	160,759	2.95	2.99	3.00	467,103	479,596	482,881
United States	1,046	1,253	961	8.38	8.11	8.41	6,133	7,117	5,659
Total	159,157	161,479	161,720	2.97	3.01	3.02	473,236	486,713	488,540

FAS, Office of Global Analysis, (202) 720-6301. Prepared or estimated on the basis of official USDA production, supply, and distribution, supply, and and distribution statistics from foreign governments.

Table 1-33.—Rice, milled equivalent: International trade, 2016/2017–2018/2019

Country	2016/2017	2017/2018	2018/2019
	1,000 metric tons	1,000 metric tons	1,000 metric tons
Principle exporting countries:			
India	11,710	12,041	12,500
Thailand	11,615	11,056	9,800
Vietnam	6,488	6,590	6,500
Pakistan	3,548	4,011	4,000
United States	3,645	2,763	2,858
Burma	3,350	2,750	2,800
China	805	1,386	2,600
Cambodia	1,150	1,300	1,300
Uruguay	950	756	785
Brazil	830	1,152	650
Paraguay	537	650	650
Guyana	431	455	414
Argentina	343	310	330
European Union	319	349	300
Russia	175	139	150
South Africa	140	112	125
Cote d'Ivoire	70	80	100
Guinea	80	80	100
Suriname	109	90	95
Mexico	85	102	90
Principle importing countries:			
China	5,300	5,500	3,500
Philippines	1,100	1,300	3,300
Nigeria	2,500	2,000	2,200
European Union	1,841	2,006	2,000
Cote d'Ivoire	1,300	1,370	1,500
Saudi Arabia	1,195	1,300	1,350
Iraq	1,070	1,130	1,300
Senegal	1,100	1,150	1,250
Iran	1,400	1,200	1,200
South Africa	1,005	1,074	1,050
Malaysia	900	800	1,000
United States	745	875	911
Guinea	610	700	850
United Arab Emirates	700	775	850
Mexico	870	813	815
Brazil	614	562	800
Egypt	102	87	800
Ghana	600	780	800
Kenya	650	675	750
Nepal	530	670	700

FAS, Office of Global Analysis, (202) 720-6301. Prepared or estimated on the basis of official USDA production, supply, and distribution statistics from foreign governments.

Table 1-34.—Food grains: Average price, selected markets and grades, 2009–2018 ¹

Calendar year ²	Kansas City			Minneapolis (rail)			Portland Wheat No. 1 Soft White	St. Louis Wheat, No. 2 Soft Red Winter (truck)
	Wheat, No. 1 Hard Winter, Ordinary Protein (rail)	Wheat, No. 1 Hard Winter, 13% protein (rail)	Wheat, No. 2 Soft Red Winter (rail)	Wheat, No. 1 Hard Amber Durum (milling) (rail)	Wheat, No. 1 Dark Northern Spring (rail), 14% protein	Rye, No. 2, 20 day delivery (truck)		
	Dollars per bushel	Dollars per bushel	Dollars per bushel	Dollars per bushel	Dollars per bushel	Dollars per bushel	Dollars per bushel	Dollars per bushel
2009	5.80	6.29	5.06	.....	7.21	4.35	5.28	5.55
2010	5.90	6.58	6.03	8.75	7.79	4.58	5.45	5.36
2011	8.44	9.17	7.87	.....	11.36	.....	7.08	7.49
2012	8.47	8.96	7.25	.....	9.69	.....	7.74	7.56
2013	7.22	8.60	6.67	(NA)	8.08	(NA)	7.67	6.97
2014	7.89	7.95	5.72	(NA)	8.73	5.75	7.09	6.45
2015	6.05	6.16	4.43	(NA)	7.00	5.75	5.88	4.81
2016	4.80	5.50	3.35	(NA)	6.60	4.48	4.95	4.32
2017	5.03	6.25	3.98	(NA)	7.18	4.07	4.99	4.36
2018	6.22	6.67	6.19	(NA)	7.12	5.38	5.88	(NA)

Calendar year ²	Chicago Wheat, No. 2 Soft Red Winter (rail)	Denver Wheat, No. 1 Hard Winter (truck red)	S.W. Louisiana Milled Rice		Arkansas Milled Rice		Texas Milled Rice
	Dollars per bushel	Dollars per bushel	Medium	Long	Medium	Long	Long
	Dollars per bushel	Dollars per bushel	Dollars per cwt	Dollars per cwt	Dollars per cwt	Dollars per cwt	Dollars per cwt
2009	4.43	5.04	39.56	24.91	40.57	26.46	27.88
2010	5.36	5.00	30.80	23.12	29.68	23.91	26.46
2011	6.83	7.36	33.47	26.20	34.99	27.10	29.25
2012	7.44	7.44	28.89	25.77	27.91	26.18	27.18
2013	6.84	7.27	30.56	28.48	28.68	28.52	29.61
2014	5.89	6.38	30.76	27.04	31.30	27.62	29.15
2015	5.08	4.77	27.88	23.30	27.41	23.35	25.31
2016	4.31	3.35	27.39	22.65	22.92	23.01	23.92
2017	4.22	3.45	22.88	22.88	23.75	22.52	23.07
2018	4.88	4.52	29.43	22.54	27.41	27.41	26.37

(NA) Not available. ¹ Simple average of daily prices. ² For wheat and rye, crop year begins in June. For rice, crop year begins in August.
AMS, Livestock and Grain Market News branch, (202) 720-6231.

Table 1-35.—Corn: Area, yield, production, and value, United States, 2009–2018

Year	Area planted, all purposes	Corn for grain				Corn for silage			
		Area harvested	Yield per harvested acre	Production	Marketing year average price per bushel	Value of production	Area harvested	Yield per harvested acre	Production
	1,000 acres	1,000 acres	Bushels	1,000 bushels	Dollars	1,000 dollars	1,000 acres	Tons	1,000 tons
2009 ...	86,382	79,490	164.4	13,067,156	3.55	46,640,936	5,605	19.3	108,221
2010 ...	88,192	81,446	152.6	12,425,330	5.18	64,529,628	5,567	19.3	107,314
2011 ...	91,936	83,879	146.8	12,313,956	6.22	76,651,242	5,935	18.4	109,091
2012 ...	97,291	87,365	123.1	10,755,111	6.89	74,155,299	7,419	15.7	116,148
2013 ...	95,365	87,451	158.1	13,828,964	4.46	61,927,548	6,281	18.8	118,296
2014 ...	90,597	83,136	171.0	14,215,532	3.70	52,951,760	6,371	20.1	128,048
2015 ...	88,019	80,753	168.4	13,601,964	3.61	49,339,261	6,237	20.4	127,311
2016 ...	94,004	86,748	174.6	15,148,038	3.36	51,304,297	6,206	20.3	126,020
2017 ...	90,167	82,733	176.6	14,609,407	3.30	49,567,854	6,385	20.0	127,434
2018 ...	89,129	81,740	176.4	14,420,101	3.55	51,481,090	6,113	19.9	121,361

NASS, Crops Branch, (202) 720-2127.

Table 1-36.—Corn: Area, yield, and production, by State and United States, 2016–2018

State	Area planted for all purposes			Area harvested for grain		
	2016	2017	2018	2016	2017	2018
	<i>1,000 acres</i>					
Alabama	330	250	260	315	235	250
Arizona	95	65	70	50	32	15
Arkansas	760	620	660	745	595	645
California	420	430	430	100	80	65
Colorado	1,340	1,460	1,470	1,170	1,300	1,200
Connecticut	25	24	23	(NA)	(NA)	(NA)
Delaware	170	180	170	164	171	166
Florida	80	75	100	40	37	65
Georgia	410	290	325	340	245	285
Idaho	340	340	360	100	115	135
Illinois	11,600	11,200	11,000	11,450	10,950	10,850
Indiana	5,600	5,350	5,350	5,470	5,200	5,200
Iowa	13,900	13,900	13,200	13,500	12,900	12,800
Kansas	5,100	5,500	5,450	4,920	5,200	5,000
Kentucky	1,500	1,320	1,340	1,400	1,220	1,230
Louisiana	620	500	460	550	490	450
Maine	31	31	31	(NA)	(NA)	(NA)
Maryland	460	480	450	400	420	390
Massachusetts	16	15	14	(NA)	(NA)	(NA)
Michigan	2,400	2,250	2,300	2,040	1,890	1,940
Minnesota	8,450	8,050	7,900	8,000	7,630	7,430
Mississippi	750	520	480	720	500	465
Missouri	3,650	3,400	3,500	3,500	3,250	3,330
Montana	115	115	115	55	65	68
Nebraska	9,850	9,550	9,600	9,550	9,300	9,310
Nevada	11	12	13	(NA)	(NA)	(NA)
New Hampshire	15	14	13	(NA)	(NA)	(NA)
New Jersey	80	77	72	71	70	61
New Mexico	120	125	135	41	43	35
New York	1,100	1,000	1,100	570	485	645
North Carolina	1,000	890	910	940	840	830
North Dakota	3,450	3,420	3,150	3,270	3,230	2,930
Ohio	3,550	3,400	3,500	3,300	3,150	3,300
Oklahoma	400	350	320	350	305	280
Oregon	80	85	80	39	44	45
Pennsylvania	1,400	1,350	1,350	950	920	950
Rhode Island	2	2	2	(NA)	(NA)	(NA)
South Carolina	375	350	340	350	325	310
South Dakota	5,600	5,700	5,300	5,130	5,080	4,860
Tennessee	880	750	740	830	710	690
Texas	2,900	2,450	2,200	2,550	2,240	1,750
Utah	80	80	70	29	20	22
Vermont	90	82	85	(NA)	(NA)	(NA)
Virginia	490	500	485	340	340	325
Washington	170	170	165	85	80	85
West Virginia	49	50	46	35	33	33
Wisconsin	4,050	3,900	3,900	3,220	2,930	3,170
Wyoming	100	95	95	69	63	70
United States	94,004	90,167	89,129	86,748	82,733	81,740

See footnote(s) at end of table.

Table 1-36.—Corn: Area, yield, and production, by State and United States, 2016–2018—Continued

State	Corn for grain					
	Yield per harvested acre			Production		
	2016	2017	2018	2016	2017	2018
	<i>1,000 acres</i>					
Alabama	120.0	167.0	156.0	37,800	39,245	39,000
Arizona	215.0	195.0	220.0	10,750	6,240	3,300
Arkansas	171.0	183.0	181.0	127,395	108,885	116,745
California	185.0	167.0	173.0	18,500	13,360	11,245
Colorado	137.0	143.0	130.0	160,290	185,900	156,000
Connecticut	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Delaware	170.0	189.0	145.0	27,880	32,319	24,070
Florida	145.0	161.0	157.0	5,800	5,957	10,205
Georgia	165.0	176.0	176.0	56,100	43,120	50,160
Idaho	188.0	203.0	213.0	18,800	23,345	28,755
Illinois	197.0	201.0	210.0	2,255,650	2,200,950	2,278,500
Indiana	173.0	180.0	189.0	946,310	936,000	982,800
Iowa	203.0	202.0	196.0	2,740,500	2,605,800	2,508,800
Kansas	142.0	132.0	129.0	698,640	686,400	645,000
Kentucky	159.0	178.0	175.0	222,600	217,160	215,250
Louisiana	165.0	184.0	173.0	90,750	90,160	77,850
Maine	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Maryland	152.0	172.0	146.0	60,800	72,240	56,940
Massachusetts	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Michigan	157.0	159.0	153.0	320,280	300,510	296,820
Minnesota	193.0	194.0	182.0	1,544,000	1,480,220	1,363,180
Mississippi	166.0	189.0	185.0	119,520	94,500	86,025
Missouri	163.0	170.0	140.0	570,500	552,500	466,200
Montana	100.0	70.0	85.0	5,500	4,550	5,780
Nebraska	178.0	181.0	192.0	1,699,900	1,683,300	1,787,520
Nevada	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
New Hampshire	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
New Jersey	145.0	167.0	141.0	10,295	11,690	8,601
New Mexico	150.0	134.0	187.0	6,150	5,762	6,545
New York	129.0	161.0	159.0	73,530	78,085	102,555
North Carolina	129.0	142.0	113.0	121,260	119,280	93,790
North Dakota	158.0	139.0	153.0	516,660	448,970	448,290
Ohio	159.0	177.0	187.0	524,700	557,550	617,100
Oklahoma	121.0	126.0	134.0	42,350	38,430	37,520
Oregon	230.0	212.0	195.0	8,970	9,328	8,775
Pennsylvania	129.0	161.0	140.0	122,550	148,120	133,000
Rhode Island	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
South Carolina	127.0	136.0	127.0	44,450	44,200	39,370
South Dakota	161.0	145.0	160.0	825,930	736,600	777,600
Tennessee	151.0	171.0	168.0	125,330	121,410	115,920
Texas	127.0	140.0	108.0	323,850	313,600	189,000
Utah	175.0	176.0	182.0	5,075	3,520	4,004
Vermont	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Virginia	148.0	140.0	146.0	50,320	47,600	47,450
Washington	235.0	225.0	220.0	19,975	18,000	18,700
West Virginia	145.0	152.0	152.0	5,075	5,016	5,016
Wisconsin	178.0	174.0	172.0	573,160	509,820	545,240
Wyoming	147.0	155.0	164.0	10,143	9,765	11,480
United States	174.6	176.6	176.4	15,148,038	14,609,407	14,420,101

(NA) Not available.
 NASS, Crops Branch, (202) 720-2127.

Table 1-37.—Corn: Supply and disappearance, United States, 2009–2018

Year beginning September 1	Supply				Disappearance					Ending stocks Aug. 31
	Beginning stocks	Production	Imports	Total ¹	Domestic use			Exports	Total disappearance	
					Food, alcohol, and industrial	Seed	Feed and residual			
<i>Million bushels</i>										
2009	1,673	13,067	8	14,749	5,939	27.8	5,096	1,979	13,041	1,708
2010	1,708	12,425	28	14,161	6,403	29.6	4,770	1,831	13,033	1,128
2011	1,128	12,314	29	13,471	6,400	31.0	4,512	1,539	12,482	989
2012	989	10,755	160	11,904	6,013	31.0	4,309	730	11,083	821
2013	821	13,831	36	14,688	6,501	29.7	5,004	1,921	13,456	1,232
2014	1,232	14,217	32	15,481	6,566	29.3	5,287	1,867	13,750	1,731
2015	1,731	13,602	68	15,401	6,617	30.6	5,118	1,899	13,664	1,737
2016	1,737	15,148	57	16,942	6,856	29.3	5,470	2,294	14,649	2,293
2017	2,293	14,609	36	16,939	7,027	29.6	5,304	2,438	14,798	2,140
2018	2,140	14,420	30	16,590	6,824	30.8	5,275	2,100	14,230	2,360

Latest data may be preliminary or projected. ¹Total may not add due to rounding. ERS, Market and Trade Economics Division, (202) 694-5313. Source: USDA, World Agricultural Outlook Board, World Agricultural Supply and Demand Estimates and supporting materials.

Table 1-38.—Corn: Stocks on and off farms, United States, 2009–2018

Year beginning previous December	On farms				Off farms ¹			
	Dec. 1	Mar. 1	Jun. 1	Sep. 1 ²	Dec. 1	Mar. 1	Jun. 1	Sep. 1 ²
<i>1,000 bushels</i>								
2009	6,482,000	4,085,000	2,205,400	607,500	3,590,106	2,869,145	2,056,027	1,065,811
2010	7,405,000	4,548,000	2,131,400	485,100	3,497,460	3,145,787	2,178,671	1,222,687
2011	6,302,000	3,384,000	1,681,500	314,950	3,754,769	3,139,228	1,988,832	812,695
2012	6,175,000	3,192,000	1,482,000	313,700	3,471,823	2,831,356	1,666,204	675,327
2013	4,586,000	2,669,200	1,260,100	275,000	3,446,732	2,730,726	1,506,144	546,185
2014	6,380,000	3,860,500	1,863,200	462,000	4,072,532	3,147,623	1,988,516	769,904
2015	7,087,000	4,380,000	2,275,000	593,000	4,124,380	3,369,806	2,177,988	1,138,164
2016	6,829,000	4,335,000	2,471,400	627,400	4,406,178	3,487,233	2,239,679	1,109,658
2017	7,611,000	4,908,000	2,841,400	787,000	4,772,471	3,713,992	2,387,682	1,506,303
2018	7,739,000	5,002,000	2,750,000	620,000	4,827,501	3,890,126	2,554,704	1,520,335

¹Includes stocks at mills, elevators, warehouses, terminals, and processors. ²Old crop only. NASS, Crops Branch, (202) 720-2127.

Table 1-39.—Corn: Utilization for silage, by State and United States, 2016–2018

State	Silage								
	Area harvested			Yield per acre			Production		
	2016	2017	2018	2016	2017	2018	2016	2017	2018
<i>1,000 acres</i>	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>Tons</i>	<i>Tons</i>	<i>Tons</i>	<i>1,000 tons</i>	<i>1,000 tons</i>	<i>1,000 tons</i>	
Alabama	7	7	5	16.0	17.0	16.0	112	119	80
Arizona	44	32	51	30.0	31.0	29.0	1,320	992	1,479
Arkansas	2	2	3	15.0	19.0	21.0	30	38	63
California	315	345	360	26.5	26.5	27.5	8,348	9,143	9,900
Colorado	140	130	190	24.0	25.5	22.0	3,360	3,315	4,180
Connecticut	21	20	20	18.5	19.5	19.0	389	390	380
Delaware	5	7	3	18.0	19.5	24.0	90	137	72
Florida	35	35	30	19.0	19.0	21.0	665	665	630
Georgia	40	35	30	19.0	16.0	21.0	760	560	630
Illinois	235	220	220	30.0	30.0	30.0	7,050	6,600	6,600
Indiana	80	190	100	21.0	17.0	20.0	1,680	3,230	2,000
Iowa	100	110	100	22.0	21.0	21.0	2,200	2,310	2,100
Kansas	330	330	270	24.0	21.0	20.5	7,920	6,930	5,535
Kentucky	150	250	390	19.5	21.5	13.5	2,925	5,375	5,265
Louisiana	80	85	90	19.5	20.0	21.0	1,560	1,700	1,890
Maine	1	1	2	17.0	20.0	20.0	17	20	40
Maryland	28	27	27	19.0	18.0	20.0	532	486	540
Massachusetts	50	50	45	18.0	20.5	19.0	900	1,025	855
Michigan	14	12	12	16.0	19.0	20.0	224	228	240
Minnesota	340	340	340	19.5	18.5	17.5	6,630	6,290	5,950
Mississippi	390	360	340	21.5	21.5	22.0	8,385	7,740	7,480
Missouri	10	7	7	14.0	18.0	15.0	140	126	105
Montana	80	70	100	15.0	15.0	13.0	1,200	1,050	1,300
Nebraska	55	25	37	22.0	20.0	20.0	1,210	500	740
Nevada	240	210	220	19.5	19.5	21.0	4,680	4,095	4,620
New Hampshire	7	10	7	24.0	24.0	26.0	168	240	182
New Jersey	14	13	12	20.0	20.0	21.0	280	260	252
New Mexico	5	6	6	16.0	19.5	19.0	80	117	114
New York	75	80	95	23.0	25.0	22.0	1,725	2,000	2,090
North Carolina	510	495	445	16.0	18.0	19.0	8,160	8,910	8,455
North Dakota	40	40	50	15.5	18.0	16.0	620	720	800
Ohio	150	160	170	17.5	10.0	15.0	2,625	1,600	2,550
Oklahoma	210	210	160	15.5	20.0	20.0	3,255	4,200	3,200
Oregon	20	20	20	15.0	20.0	11.0	300	400	220
Pennsylvania	40	40	34	27.0	24.0	23.0	1,080	960	782
Rhode Island	440	420	390	17.5	21.5	19.0	7,700	9,030	7,410
South Carolina	2	2	2	18.5	18.0	21.0	37	36	42
South Dakota	13	16	19	14.0	18.0	14.0	182	288	266
Tennessee	420	510	360	17.5	12.5	16.5	7,350	6,375	5,940
Texas	40	30	38	19.0	22.0	19.0	760	660	722
Utah	250	150	270	17.0	22.0	16.0	4,250	3,300	4,320
Vermont	49	56	45	24.0	25.0	23.0	1,176	1,400	1,035
Virginia	85	76	79	20.0	16.5	19.0	1,700	1,254	1,501
Washington	130	135	135	20.0	18.0	19.0	2,600	2,430	2,565
West Virginia	85	90	80	26.0	27.0	26.0	2,210	2,430	2,080
Wisconsin	13	16	11	19.0	20.0	19.0	247	320	209
Wyoming	790	880	670	21.0	19.0	20.0	16,590	16,720	13,400
United States	26	30	23	23.0	24.0	24.0	598	720	552
United States	6,206	6,385	6,113	20.3	20.0	19.9	126,020	127,434	121,361

NASS, Crops Branch, (202) 720-2127.

Table 1-40.—Corn for grain: Marketing year average price and value, by State and United States, 2016–2018

State	Marketing year average price per bushel			Value of production		
	2016	2017	2018 ¹	2016	2017	2018 ¹
	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>
Alabama	3.63	4.04	4.10	137,214	158,550	159,900
Arizona	4.73	4.55	4.90	50,848	28,392	16,170
Arkansas	3.69	3.64	3.70	470,088	396,341	431,957
California	4.69	4.20	4.20	86,765	56,112	47,229
Colorado	3.42	3.37	3.75	548,192	626,483	585,000
Delaware	4.09	4.02	3.80	114,029	129,922	91,466
Florida	3.93	4.47	4.20	22,794	26,628	42,861
Georgia	3.88	4.33	4.20	217,668	186,710	210,672
Idaho	4.44	4.21	4.45	83,472	98,282	127,960
Illinois	3.43	3.41	3.60	7,736,880	7,505,240	8,202,600
Indiana	3.63	3.56	3.60	3,435,105	3,332,160	3,538,080
Iowa	3.30	3.31	3.50	9,043,650	8,625,198	8,780,800
Kansas	3.20	3.28	3.60	2,235,648	2,251,392	2,322,000
Kentucky	3.74	3.69	3.80	832,524	801,320	817,950
Louisiana	3.70	3.72	3.85	335,775	335,395	299,723
Maryland	4.05	4.02	3.80	246,240	290,405	216,372
Michigan	3.44	3.46	3.55	1,101,763	1,039,765	1,053,711
Minnesota	3.21	3.18	3.40	4,956,240	4,707,100	4,634,812
Mississippi	3.74	3.68	3.75	447,005	347,760	322,594
Missouri	3.40	3.41	3.60	1,939,700	1,884,025	1,678,320
Montana	4.15	3.41	3.50	22,825	15,516	20,230
Nebraska	3.32	3.35	3.55	5,643,668	5,639,055	6,345,696
New Jersey	3.90	3.75	3.50	40,151	43,838	30,104
New Mexico	3.93	3.90	4.45	24,170	22,472	29,125
New York	3.90	4.07	4.10	286,767	317,806	420,476
North Carolina	4.07	4.24	4.35	493,528	505,747	407,987
North Dakota	3.01	3.04	3.30	1,555,147	1,364,869	1,479,357
Ohio	3.61	3.61	3.65	1,894,167	2,012,756	2,252,415
Oklahoma	3.39	3.59	3.80	143,567	137,964	142,576
Oregon	4.25	3.78	4.15	38,123	35,260	36,416
Pennsylvania	4.04	3.87	4.05	495,102	573,224	538,650
South Carolina	3.69	4.40	4.40	164,021	194,480	173,228
South Dakota	3.09	3.09	3.30	2,552,124	2,276,094	2,566,080
Tennessee	3.66	3.55	3.75	458,708	431,006	434,700
Texas	3.71	3.70	4.10	1,201,484	1,160,320	774,900
Utah	3.87	3.96	4.50	19,640	13,939	18,018
Virginia	4.00	3.96	3.90	201,280	188,496	185,055
Washington	4.71	4.05	4.10	94,082	72,900	76,670
West Virginia	3.90	3.95	3.90	19,793	19,813	19,562
Wisconsin	3.28	3.30	3.50	1,879,965	1,682,406	1,908,340
Wyoming	3.39	3.35	3.60	34,385	32,713	41,328
United States	3.36	3.36	3.55	51,304,297	49,567,854	51,481,090

¹ Preliminary.
NASS, Crops Branch, (202) 720-2127.

Table 1-41.—International Corn: Area, yield, and production in specified countries, 2015/2016–2017/2018

Country	Area			Yield per hectare			Production		
	2015/ 2016	2016/ 2017	2017/ 2018	2015/ 2016	2016/ 2017	2017/ 2018	2015/ 2016	2016/ 2017	2017/ 2018
	<i>1,000 hectares</i>			<i>Metric tons</i>			<i>1,000 metric tons</i>		
Argentina	3,700	4,900	5,100	7.97	8.37	6.47	29,500	41,000	33,000
Brazil	16,000	17,600	16,800	4.19	5.60	4.97	67,000	98,500	83,500
Canada	1,340	1,414	1,405	10.21	9.82	10.04	13,680	13,889	14,100
China	38,119	36,768	35,445	5.89	5.97	6.09	224,632	219,552	215,891
European Union	9,252	8,566	8,372	6.35	7.22	7.44	58,748	61,888	62,277
India	8,730	9,633	9,219	2.59	2.69	2.92	22,570	25,900	26,880
Indonesia	7,207	7,509	7,230	3.60	3.67	3.71	25,971	27,575	26,800
Mexico	2,671	2,777	2,700	4.93	5.51	4.90	13,168	15,305	13,229
Russia	2,213	2,996	2,650	3.71	5.86	5.21	8,214	17,551	13,800
Ukraine	4,085	4,239	4,433	5.71	6.60	5.44	23,333	27,969	24,115
Others	54,706	55,368	56,800	2.58	2.61	2.63	140,923	144,692	149,251
Total Foreign	148,023	151,770	150,154	4.24	4.57	4.41	627,739	693,821	662,843
United States	32,680	35,106	33,469	10.57	10.96	11.08	345,506	384,778	370,960
Total	180,703	186,876	183,623	5.39	5.77	5.63	973,245	1,078,599	1,033,803

FAS, Office of Global Analysis, (202) 720-6301. Prepared or estimated on the basis of official USDA production, supply, and distribution statistics from foreign governments.

Table 1-42.—Corn: International trade, 2016/2017–2018/2019

Country	2016/2017	2017/2018	2018/2019
	<i>1,000 metric tons</i>	<i>1,000 metric tons</i>	<i>1,000 metric tons</i>
Principle exporting countries:			
United States	58,270	61,935	55,883
Argentina	25,986	22,500	34,000
Brazil	31,604	25,121	34,000
Ukraine	21,334	18,036	29,500
Russia	5,598	5,532	3,000
Serbia	2,414	819	2,700
European Union	2,189	1,749	2,500
Paraguay	1,901	1,800	2,200
Canada	1,522	1,936	2,000
Burma	1,500	1,350	1,400
South Africa	2,289	2,069	1,000
Mexico	1,539	958	800
Cambodia	300	500	500
India	597	1,089	500
Moldova	217	460	500
Vietnam	500	500	500
Laos	300	200	300
Zambia	600	700	300
Indonesia	3	272	250
Thailand	729	199	200
Principle importing countries:			
European Union	14,973	18,465	23,500
Mexico	14,614	16,129	17,500
Japan	15,169	15,668	15,500
Korea, South	9,220	10,018	10,200
Vietnam	8,100	8,600	10,200
Egypt	8,773	9,464	9,700
Iran	7,800	8,900	9,500
Colombia	4,754	5,201	5,500
China	2,464	3,456	5,000
Saudi Arabia	3,421	3,983	5,000
Algeria	4,109	4,184	4,400
Taiwan	4,163	4,410	4,100
Malaysia	3,531	3,645	4,000
Peru	3,269	3,402	3,600
Morocco	2,097	2,558	2,800
Chile	1,644	2,132	2,300
Canada	706	1,699	2,200
Turkey	1,389	2,719	2,200
Israel	1,539	1,861	1,700
Bangladesh	897	1,476	1,500

FAS, Office of Global Analysis, (202) 720-6301. Prepared or estimated on the basis of official USDA production, supply, and distribution statistics from foreign governments.

Table 1-43.—Corn: Support operations, United States, 2012–2018

Marketing year beginning September 1	Income support payment rates per bushel ¹	Program price levels per bushel		Put under loan		Acquired by CCC under loan program ⁵	Owned by CCC at end of marketing year
		Loan ²	Target/reference ³	Quantity	Percentage of production ⁴		
	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Million bushels</i>	<i>Percent</i>	<i>Million bushels</i>	<i>Million bushels</i>
2012/2013	0.28/0.00	1.95	2.63	368	3.4	0	0
2013/2014	0.28/0.00	1.95	2.63	460	3.3	0	0
2014/2015	0.00	1.95	3.70	574	4.0	0	0
2015/2016	0.09	1.95	3.70	746	5.5	0	0
2016/2017	0.34	1.95	3.70	880	5.8	0	0
2017/2018	0.35	1.95	3.70	980	6.7	0	0
2018/2019	0.10	1.95	3.70	919	6.4	0	0

¹The first entry is the direct payment rate and the second entry is the counter-cyclical payment rate for 2004/2005-2013/2014. For 2009/2010-2013/2014, producers who participated in the Average Crop Revenue (ACRE) program got a 20 percent reduction in their direct payment, not calculated in this table. For 2014/2015 and after, the entry is the price loss coverage (PLC) payment rate. For 2017/2018, projected PLC payment rate is based on March 2018 WASDE MY price. Agricultural Risk Coverage (ARC) is also available, but payment rates are established at the county or farm levels. ²For 2009/2010-2013/2014, producers who participated in the ACRE program got a 30 percent reduction in their loan rate, not calculated in this table. ³Target applies to 2003/2004-2013/2014 and Reference applies beginning with 2014/2015. ⁴Percent of production is on a grain basis. ⁵Acquisitions as of September 30, 2019.

FPAC-BC, Commodity Analysis Branch.

Table 1-44.—Corn: United States exports, specified by country of destination, 2016–2018¹

Country of destination	2016	2017	2018
	<i>Metric tons</i>		
Mexico	13,793,172	14,713,470	16,723,702
Japan	11,879,775	12,378,239	15,254,712
Korea, South	4,839,165	4,000,761	7,268,377
Colombia	4,558,964	4,779,449	5,509,784
Taiwan	2,658,105	2,256,757	3,212,124
Peru	2,686,455	3,216,248	3,074,252
Canada	888,114	837,589	1,971,341
Vietnam	539,161	541	1,908,990
Egypt	908,053	142,159	1,861,572
Saudi Arabia	1,953,149	1,599,150	1,724,045
Spain	85,079	185,613	1,167,083
Guatemala	987,278	859,355	1,153,275
Dominican Republic	515,249	562,416	947,230
Costa Rica	674,514	835,332	867,592
Morocco	772,927	575,272	822,679
Israel(*)	387,811	107,459	814,810
Honduras	587,410	489,966	620,111
El Salvador	689,094	456,103	601,587
Venezuela	1,116,316	336,081	509,994
Panama	494,891	494,518	507,012
Tunisia	177,691	20,000	451,707
Netherlands	84,457	210,197	439,800
Nicaragua	317,043	257,712	338,400
China	215,307	811,069	289,757
Jamaica	272,104	295,841	284,394
Portugal	109,026	118,335	227,473
Philippines	78,243	56,060	167,073
Indonesia	314,574	126,705	151,160
Cuba	191,600	230,863	116,599
Trinidad and Tobago	88,141	80,752	91,761
Rest of World	2,803,560	1,727,793	726,218
World Total	55,666,428	52,761,825	69,804,634

¹Data Source: U.S. Census Bureau trade data. Excludes seed, popcorn.
FAS, Office of Global Analysis, (202) 720-6301.

Table 1-45.—Oats: Area, yield, production, and value, United States, 2009–2018

Year	Area		Yield per harvested acre	Production	Marketing year average price per bushel received by farmers	Value of production
	Planted ¹	Harvested				
	1,000 acres	1,000 acres	Bushels	1,000 bushels	Dollars	1,000 dollars
2009	3,349	1,340	67.9	91,043	2.02	200,997
2010	3,113	1,267	64.6	81,856	2.52	218,536
2011	2,349	875	57.3	50,126	3.49	175,523
2012	2,700	1,005	61.2	61,486	3.89	243,018
2013	2,980	1,009	64.1	64,642	3.75	239,643
2014	2,753	1,035	67.9	70,232	3.21	241,472
2015	3,088	1,276	70.2	89,455	2.12	214,415
2016	2,829	979	66.0	64,628	2.06	153,824
2017	2,589	804	61.7	49,585	2.59	139,635
2018	2,746	865	64.9	56,130	2.65	163,822

¹ Relates to the total area of oats sown for all purposes, including oats sown in the preceding fall. NASS, Crops Branch, (202) 720–2127.

Table 1-46.—Oats: Stocks on and off farms, United States, 2009–2018

Year beginning September	On farms				Off farms ¹			
	Sep. 1	Dec. 1	Mar. 1	Jun. 1	Sep. 1	Dec. 1	Mar. 1	Jun. 1
2009	54,500	43,000	30,900	17,600	73,875	67,629	67,091	62,716
2010	45,850	34,100	26,950	14,580	70,722	66,911	59,361	53,049
2011	30,300	24,600	19,550	11,070	47,391	54,244	55,044	43,869
2012	34,100	26,100	18,900	11,380	50,872	47,051	33,726	24,957
2013	37,150	25,650	19,800	9,710	26,339	22,394	15,323	15,029
2014	41,400	31,300	20,810	15,120	32,910	35,670	38,609	38,625
2015	47,800	36,750	26,800	18,350	46,066	45,981	48,429	38,452
2016	37,400	30,430	22,320	13,540	41,190	45,058	40,885	36,790
2017	33,950	23,300	17,240	11,410	38,039	43,166	37,699	29,606
2018	39,200	25,410	18,050	10,500	35,573	41,864	32,232	26,428

¹ Includes stocks at mills, elevators, warehouses, terminals, and processors. NASS, Crops Branch, (202) 720–2127.

Table 1-47.—Oats: Supply and disappearance, United States, 2009–2018

Year beginning June 1	Supply				Disappearance					Ending stocks May 31 ¹
	Beginning stocks	Production	Imports	Total	Domestic use			Exports	Total disappearance	
					Food, alcohol, and industrial	Seed	Feed and residual			
<i>Million bushels</i>										
2009	84	91	95	270	66	8	113	2	190	80
2010	80	82	85	247	67	7	103	3	180	68
2011	68	50	94	212	69	7	78	2	157	55
2012	55	61	93	209	68	8	96	1	173	36
2013	36	65	97	198	66	7	98	2	173	25
2014	25	70	109	204	69	8	71	2	150	54
2015	54	89	86	229	69	7	93	2	172	57
2016	57	65	90	212	70	6	82	3	161	50
2017	50	50	89	189	71	7	68	2	148	41
2018	41	56	87	184	71	6	68	2	147	37

¹ Privately held: Includes quantity under loan and farmer-owned reserve. Latest data may be preliminary or projected. Totals may not add due to rounding. ERS, Market and Trade Economics Division, (202) 694–5313. Source: USDA, World Agricultural Outlook Board, World Agricultural Supply and Demand Estimates and supporting materials.

Table 1-48.—Oats: Area, yield, and production, by State and United States, 2016–2018

State	Area planted ¹			Area harvested		
	2016	2017	2018	2016	2017	2018
	<i>1,000 acres</i>					
Alabama	50	40	40	20	10	15
Arkansas	11	11	10	8	8	7
California	110	110	110	11	10	6
Colorado	55	50	95	10	9	7
Georgia	45	50	60	15	15	15
Idaho	55	50	40	15	10	10
Illinois	45	35	40	20	20	25
Iowa	120	115	135	43	42	33
Kansas	120	100	120	30	25	18
Maine	25	22	21	22	21	19
Michigan	65	55	75	30	40	50
Minnesota	210	170	180	120	95	105
Missouri	45	30	35	19	13	16
Montana	60	70	70	28	18	23
Nebraska	135	110	125	25	35	22
New York	90	55	69	60	35	43
North Carolina	35	35	30	9	10	11
North Dakota	290	295	300	110	80	105
Ohio	50	60	55	25	20	30
Oklahoma	65	45	50	8	16	10
Oregon	30	25	20	10	10	5
Pennsylvania	85	70	65	50	40	35
South Carolina	17	20	19	7	8	7
South Dakota	295	290	290	110	110	95
Texas	470	455	450	60	60	50
Washington	18	16	17	7	4	4
Wisconsin	210	180	200	100	85	90
Wyoming	23	25	25	7	5	9
United States	2,829	2,588	2,746	979	804	865
	<i>Yield per harvested acre</i>			<i>Production</i>		
State	2016	2017	2018	2016	2017	2018
	<i>Bushels</i>			<i>1,000 bushels</i>		
Alabama	55.0	60.0	63.0	1,100	600	945
Arkansas	73.0	85.0	75.0	584	680	525
California	65.0	65.0	70.0	715	650	420
Colorado	80.0	65.0	50.0	800	585	350
Georgia	58.0	49.0	71.0	870	735	1,065
Idaho	83.0	71.0	84.0	1,245	710	840
Illinois	81.0	79.0	83.0	1,620	1,580	2,075
Iowa	76.0	77.0	63.0	3,268	3,234	2,079
Kansas	57.0	54.0	49.0	1,710	1,350	882
Maine	71.0	67.0	67.0	1,562	1,407	1,273
Michigan	58.0	54.0	63.0	1,740	2,160	3,150
Minnesota	68.0	75.0	59.0	8,160	7,125	6,195
Missouri	60.0	65.0	45.0	1,140	845	720
Montana	47.0	47.0	43.0	1,316	846	989
Nebraska	60.0	49.0	69.0	1,500	1,715	1,518
New York	55.0	55.0	54.0	3,300	1,925	2,322
North Carolina	60.0	66.0	66.0	540	660	726
North Dakota	66.0	58.0	82.0	7,260	4,640	8,610
Ohio	74.0	70.0	65.0	1,850	1,400	1,950
Oklahoma	43.0	42.0	48.0	344	672	480
Oregon	90.0	83.0	99.0	900	830	495
Pennsylvania	67.0	58.0	46.0	3,350	2,320	1,610
South Carolina	46.0	51.0	62.0	322	408	434
South Dakota	82.0	70.0	82.0	9,020	4,200	7,790
Texas	50.0	45.0	50.0	3,000	2,700	2,500
Washington	61.0	42.0	46.0	427	168	184
Wisconsin	66.0	59.0	61.0	6,600	5,015	5,490
Wyoming	55.0	85.0	57.0	385	425	513
United States	66.0	61.7	64.9	64,628	49,585	56,130

¹ Relates to the total area of oats sown for all purposes, including oats sown in the preceding fall. NASS, Crops Branch, (202) 720-2127.

Table 1-49.—Oats: Support operations, United States, 2012–2018

Marketing Year beginning June 1	Income support payment rates per bushel ¹	Program price levels per bushel		Put under loan		Acquired by CCC under loan program ⁵	Owned by CCC at end of marketing year
		Loan ²	Target/reference ³	Quantity	Percentage of production ⁴		
	Dollars	Dollars	Dollars	Million bushels	Percent	Million bushels	Million bushels
2012/2013	0.02/0.00	1.39	1.79	0.3	0.5	0	0
2013/2014	0.02/0.00	1.39	1.79	0.3	0.5	0	0
2014/2015	0.00	1.39	2.40	0.5	0.7	0	0
2015/2016	0.28	1.39	2.40	1.1	1.3	0	0
2016/2017	0.34	1.39	2.40	0.8	1.2	0	0
2017/2018	0.00	1.39	2.40	0.4	0.8	0	0
2018/2019	0.00	1.39	2.40	0.4	0.8	0	0

¹The first entry is the direct payment rate and the second entry is the counter-cyclical payment rate for 2004/2005-2013/2014. For 2009/2010-2013/2014, producers who participated in the Average Crop Revenue (ACRE) program got a 20 percent reduction in their direct payment, not calculated in this table. For 2014/2015 and after, the entry is the price loss coverage (PLC) payment rate. Agricultural Risk Coverage (ARC) is also available, but payment rates are established at the county or farm levels. ²For 2009/2010-2013/2014, producers who participated in the ACRE program got a 30 percent reduction in their loan rate, not calculated in this table. ³Target applies to 2003/2004-2013/2014 and Reference applies beginning with 2014/2015. ⁴Percent of production is on a grain basis. ⁵Acquisitions as of September 30, 2019. FPAC-BC, Commodity Analysis Branch.

Table 1-50.—Oats: Marketing year average price and value of production, by State and United States, 2016–2018

State	Marketing year average price per bushel			Value of production		
	2016	2017	2018 ¹	2016	2017	2018 ¹
	Dollars	Dollars	Dollars	1,000 dollars	1,000 dollars	1,000 dollars
Alabama	3.90	4.05	4.50	4,290	2,430	4,253
Arkansas	2.15	2.80	2.75	1,256	1,904	1,444
California	3.80	2.90	3.30	2,717	1,885	1,386
Colorado	2.67	3.20	3.65	2,136	1,872	1,278
Georgia	3.60	3.67	4.20	3,132	2,697	4,473
Idaho	2.55	2.73	2.75	3,175	1,938	2,310
Illinois	2.40	3.39	2.80	3,888	5,356	5,810
Iowa	2.52	2.54	2.70	8,235	8,214	5,613
Kansas	1.77	2.93	3.25	3,027	3,956	2,867
Maine	2.30	2.80	3.30	3,593	3,940	4,201
Michigan	2.28	2.91	3.25	3,967	6,286	10,238
Minnesota	2.02	2.15	2.35	16,483	15,319	14,558
Missouri	2.30	3.25	2.70	2,622	2,746	1,944
Montana	3.20	2.86	2.90	4,211	2,420	2,868
Nebraska	2.25	2.62	2.75	3,375	4,493	4,175
New York	2.17	2.20	2.95	7,161	4,235	6,850
North Carolina	2.20	2.60	3.10	1,188	1,716	2,251
North Dakota	2.25	2.55	2.40	16,335	11,832	20,664
Ohio	3.04	3.51	3.60	5,624	4,914	7,020
Oklahoma	2.95	3.02	2.75	1,015	2,029	1,320
Oregon	2.50	2.65	3.40	2,250	2,200	1,683
Pennsylvania	2.76	3.57	3.95	9,246	8,282	6,360
South Carolina	3.10	3.64	4.10	998	1,485	1,779
South Dakota	1.97	2.45	2.45	17,769	10,290	19,086
Texas	4.03	4.28	4.95	12,090	11,556	12,375
Washington	1.77	2.26	2.30	756	380	423
Wisconsin	1.86	2.78	2.70	12,276	13,942	14,823
Wyoming	2.62	3.10	3.45	1,009	1,318	1,770
United States	2.06	2.59	2.65	153,824	139,635	163,822

¹ Preliminary. NASS, Crops Branch, (202) 720-2127.

Table 1-51.—International Oats: Area, yield, and production in specified countries, 2016/2017–2018/2019

Country	Area			Yield per hectare			Production		
	2016/ 2017	2017/ 2018	2018/ 2019	2016/ 2017	2017/ 2018	2018/ 2019	2016/ 2017	2017/ 2018	2018/ 2019
	<i>1,000 hectares</i>			<i>Metric tons</i>			<i>1,000 metric tons</i>		
European Union	2,571	2,665	2,704	3.13	3.04	2.83	8,044	8,087	7,644
Russia	2,746	2,780	2,725	1.73	1.96	1.73	4,750	5,448	4,715
Canada	925	1,052	1,000	3.49	3.55	3.45	3,231	3,733	3,450
Australia	1,028	874	634	2.20	1.40	1.40	2,266	1,227	888
United States	396	325	350	2.37	2.22	2.33	938	720	815
Brazil	292	340	376	2.84	1.87	2.11	828	634	795
China	450	475	500	1.17	1.16	1.15	525	550	575
Argentina	321	220	215	2.45	2.24	2.40	785	492	516
Chile	137	108	93	5.20	5.31	5.09	713	573	473
Belarus	146	150	160	2.67	3.33	2.88	390	500	460
Ukraine	214	208	198	2.38	2.31	2.14	510	481	423
Kazakhstan	210	213	235	1.60	1.34	1.43	335	285	336
Turkey	99	113	100	2.27	2.21	2.30	225	250	230
Norway	76	68	69	4.72	4.16	2.09	359	283	144
Algeria	85	85	85	1.29	1.29	1.29	110	110	110
Mexico	38	44	50	1.87	1.64	2.06	71	72	103
Serbia	30	30	30	2.17	2.17	2.17	65	65	65
Morocco	25	30	45	0.60	1.17	1.40	15	35	63
Uruguay	26	25	26	1.58	1.52	2.04	41	38	53
Bosnia and Herzegovina	10	11	14	2.90	2.73	2.79	29	30	39
South Africa	35	15	20	1.60	1.53	1.65	56	23	33
Albania	15	15	13	2.13	2.27	2.08	32	34	27
New Zealand	8	6	5	5.38	5.83	5.00	43	35	25

FAS, Office of Global Analysis, (202) 720-6301. Prepared or estimated on the basis of official USDA production, supply, and distribution, supply, and and distribution statistics from foreign governments.

Table 1-52. Oats: International trade, 2016/2017–2018/2019

Country	2016/2017	2017/2018	2018/2019
	<i>1,000 metric tons</i>		
Principle exporting countries:			
Canada	1,642	1,631	1,600
Australia	490	550	250
European Union	151	186	150
Russia	13	28	100
Chile	34	38	30
United States	50	35	29
Kazakhstan	13	10	25
Ukraine	28	9	10
Argentina	1	0	5
Brazil	2	4	5
Uruguay	1	1	1
Principle importing countries:			
United States	1,556	1,540	1,465
China	278	389	150
Mexico	123	129	100
Norway	3	16	80
Japan	49	44	50
Switzerland	52	51	50
Korea, South	23	46	40
South Africa	24	39	40
Belarus	0	2	30
Ecuador	31	41	30
Algeria	22	7	25
European Union	4	4	15
India	25	19	15
Canada	21	14	10
Bosnia and Herzegovina	4	6	5
Colombia	1	1	5
Serbia	1	1	5
Turkey	0	5	5
Uruguay	1	6	5
Morocco	4	2	2
Russia	11	0	0
Brazil	1	0	0

FAS, Office of Global Analysis, (202) 720-6301. Prepared or estimated on the basis of official USDA production, supply, and distribution statistics from foreign governments.

Table 1-53.—Barley: Area, yield, production, and value, United States, 2009–2018

Year	Area		Yield per harvested acre	Production	Marketing year average price per bushel received by farmers	Value of production
	Planted ¹	Harvested				
	1,000 acres	1,000 acres	Bushels	1,000 bushels	Dollars	1,000 dollars
2009	3,568	3,114	72.8	226,603	4.66	968,676
2010	2,872	2,465	73.1	180,241	3.86	691,573
2011	2,564	2,241	69.1	154,788	5.35	808,741
2012	3,660	3,274	66.9	218,990	6.43	1,371,381
2013	3,528	3,040	71.3	216,745	6.06	1,265,798
2014	3,031	2,497	72.7	181,542	5.30	914,955
2015	3,583	3,158	69.1	218,187	5.52	1,149,831
2016	3,059	2,565	77.9	199,914	4.96	949,876
2017	2,486	1,962	73.0	143,258	4.47	624,184
2018	2,548	1,982	77.5	153,527	4.62	693,058

¹ Barley sown for all purposes, including barley sown in the preceding fall. NASS, Crops Branch, (202) 720–2127.

Table 1-54.—Barley: Stocks on and off farms, United States, 2009–2018

Year beginning September	On farms				Off farms ¹			
	Sep. 1	Dec. 1	Mar. 1	June 1	Sep. 1	Dec. 1	Mar. 1	June 1
	1,000 bushels							
2009	154,050	114,630	67,370	40,440	85,414	91,759	89,985	75,059
2010	125,070	91,660	57,700	26,040	98,818	88,720	80,424	63,311
2011	93,050	55,320	26,480	9,670	82,007	82,999	67,248	50,317
2012	112,550	72,580	35,180	15,840	85,226	85,473	81,897	64,557
2013	105,620	81,340	43,830	19,110	90,470	88,063	77,734	63,145
2014	97,820	74,510	41,990	20,940	81,997	81,625	76,247	57,639
2015	135,840	96,670	57,910	27,740	83,132	83,738	79,832	74,370
2016	130,600	99,100	56,490	27,050	99,737	93,429	88,211	79,314
2017	90,400	74,340	48,540	26,420	89,283	84,528	81,491	68,061
2018	91,350	72,070	46,180	22,870	83,456	80,561	75,216	63,709

¹ Includes stocks at mills, elevators, warehouses, terminals, and processors. NASS, Crops Branch, (202) 720–2127.

Table 1-55.—Barley: Supply and disappearance, United States, 2009–2018

Year beginning June 1	Supply				Disappearance					Ending stocks May 31
	Beginning stocks	Production	Imports	Total	Domestic use			Exports	Total disappearance	
					Food, alcohol, and industrial	Seed	Feed and residual			Total ¹
	Million bushels									
2009	89	227	17	332	159	5	47	6	216	115
2010	115	180	9	305	154	5	50	8	216	89
2011	89	155	16	260	149	6	37	9	200	60
2012	60	219	23	302	141	6	66	9	222	80
2013	80	217	19	316	148	5	66	14	234	82
2014	82	182	24	287	154	6	34	14	209	79
2015	79	218	19	315	153	5	44	11	213	102
2016	102	200	10	312	158	4	39	4	205	106
2017	106	143	9	259	153	4	2	5	164	94
2018	94	153	6	253	150	5	7	5	167	87

¹ Privately held: Includes quantity under loan and farmer-owned reserve. Includes quantity under loan and farmer-owned reserve. Latest data may be preliminary or projected. Totals may not add due to independent rounding. ERS, Market and Trade Economics Division, (202) 694–5313.

Table 1-56.—Barley: Area, yield, and production, by State and United States, 2016–2018

State	Area planted ¹			Area harvested		
	2016	2017	2018	2016	2017	2018
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>1,000 acres</i>
Alaska ²	(X)	(X)	5	(X)	(X)	4
Arizona	17	20	14	16	17	11
California	85	75	65	60	29	26
Colorado	80	70	60	75	68	53
Delaware	35	32	25	25	18	14
Idaho	600	530	550	580	510	530
Kansas ³	(NA)	(NA)	17	(NA)	(NA)	6
Maine ³	(NA)	(NA)	17	(NA)	(NA)	16
Maryland	50	50	45	34	27	24
Michigan ³	(NA)	(NA)	20	(NA)	(NA)	5
Minnesota	95	80	80	79	68	67
Montana	990	770	790	780	565	600
New York ³	(NA)	(NA)	10	(NA)	(NA)	8
North Carolina ³	(NA)	(NA)	11	(NA)	(NA)	8
North Dakota	740	520	470	640	400	385
Oregon	45	47	43	32	38	26
Pennsylvania	55	60	45	38	45	33
South Dakota ³	(NA)	(NA)	48	(NA)	(NA)	13
Utah	29	25	21	19	18	16
Virginia	33	30	30	12	11	9
Washington	110	95	85	93	85	67
Wisconsin ³	(NA)	(NA)	25	(NA)	(NA)	10
Wyoming	95	82	72	82	63	51
United States ⁴	3,059	2,486	2,548	2,565	1,962	1,982
State	Yield per harvested acre			Production		
	2016	2017	2018	2016	2017	2018
	<i>Bushels</i>	<i>Bushels</i>	<i>Bushels</i>	<i>1,000 bushels</i>	<i>1,000 bushels</i>	<i>1,000 bushels</i>
Alaska ²	(X)	(X)	43.0	(X)	(X)	172
Arizona	128.0	131.0	100.0	2,048	2,227	1,100
California	75.0	50.0	69.0	4,500	1,450	1,794
Colorado	129.0	132.0	145.0	9,675	8,976	7,685
Delaware	76.0	85.0	78.0	1,900	1,530	1,092
Idaho	107.0	95.0	101.0	62,060	48,450	53,530
Kansas ³	(NA)	(NA)	31.0	(NA)	(NA)	186
Maine ³	(NA)	(NA)	73.0	(NA)	(NA)	1,168
Maryland	72.0	76.0	70.0	2,448	2,052	1,680
Michigan ³	(NA)	(NA)	43.0	(NA)	(NA)	215
Minnesota	66.0	76.0	76.0	5,214	5,168	5,092
Montana	60.0	51.0	56.0	46,800	28,815	33,600
New York ³	(NA)	(NA)	58.0	(NA)	(NA)	464
North Carolina ³	(NA)	(NA)	80.0	(NA)	(NA)	640
North Dakota	67.0	65.0	74.0	42,880	26,000	28,490
Oregon	67.0	62.0	53.0	2,144	2,356	1,378
Pennsylvania	75.0	70.0	63.0	2,850	3,150	2,079
South Dakota ³	(NA)	(NA)	55.0	(NA)	(NA)	715
Utah	82.0	75.0	86.0	1,558	1,350	1,376
Virginia	67.0	73.0	70.0	804	803	630
Washington	77.0	53.0	73.0	7,161	4,505	4,891
Wisconsin ³	(NA)	(NA)	45.0	(NA)	(NA)	450
Wyoming	96.0	102.0	100.0	7,872	6,426	5,100
United States ⁴	77.9	73.0	77.5	199,914	143,258	153,527

(NA) Not available. ¹ Includes area planted in the preceding fall. ² Alaska data previously included in a separate table for Alaska. ³ Estimates began in 2018. ⁴ Beginning in 2018, United States total includes data for Alaska.
 NASS, Crops Branch, (202) 720-2127.

Table 1-57.—Barley: Marketing year average price and value, by State and United States, 2016–2018

State	Marketing year average price per bushel			Value of production		
	2016	2017	2018 ¹	2016	2017	2018 ¹
	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>
Alaska ²	(X)	(X)	5.20	(X)	(X)	894
Arizona	4.06	3.91	3.84	8,315	8,708	3,420
California	4.30	4.82	4.84	19,350	6,989	8,791
Colorado	5.31	4.60	4.55	51,374	41,290	33,930
Delaware	2.64	2.90	2.60	5,016	4,437	2,948
Idaho	5.19	4.75	5.03	322,091	230,138	264,974
Kansas ³	(NA)	(NA)	3.20	(NA)	(NA)	595
Maine ³	(NA)	(NA)	2.90	(NA)	(NA)	3,387
Maryland	2.69	2.90	2.60	6,585	5,951	4,536
Michigan ³	(NA)	(NA)	2.45	(NA)	(NA)	677
Minnesota	4.18	4.33	4.22	21,795	22,377	21,132
Montana	5.12	4.34	4.62	239,616	125,057	157,920
New York ³	(NA)	(NA)	2.90	(NA)	(NA)	1,346
North Carolina ³	(NA)	(NA)	2.70	(NA)	(NA)	1,728
North Dakota	4.47	4.31	4.24	191,674	112,060	122,507
Oregon	2.66	2.99	3.28	5,703	7,044	4,272
Pennsylvania	2.85	3.10	2.90	8,123	9,765	6,029
South Dakota ³	(NA)	(NA)	3.65	(NA)	(NA)	2,610
Utah	2.36	3.08	3.69	3,677	4,158	4,610
Virginia	2.80	2.60	2.60	2,251	2,088	1,638
Washington	2.89	3.09	4.40	20,695	13,920	19,564
Wisconsin ³	(NA)	(NA)	4.00	(NA)	(NA)	1,800
Wyoming	5.54	4.70	4.72	43,611	30,202	23,750
United States	4.96	4.47	4.62	949,876	624,184	693,058

(NA) Not available. ¹ Preliminary. ² Alaska data previously included in a separate table for Alaska. ³ Estimates began in 2018. ⁴ Beginning in 2018, United States total includes data for Alaska. NASS, Crops Branch, (202) 720-2127.

Table 1-58.—Barley: Support operations, United States, 2012–2018

Marketing year beginning June 1	Income support payment rates per bushel ¹	Program price levels per bushel		Put under loan		Acquired by CCC under loan program ⁵	Owned by CCC at end of marketing year
		Loan ²	Target/reference ³	Quantity	Percentage of production ⁴		
	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Million bushels</i>	<i>Percent</i>	<i>Million bushels</i>	<i>Million bushels</i>
2012/2013	0.24/0.00	1.95	2.63	3.1	1.4	0	0
2013/2014	0.24/0.00	1.95	2.63	4.2	1.9	0	0
2014/2015	0.00	1.95	4.95	3.9	2.1	0	0
2015/2016	0.00	1.95	4.95	8.3	3.8	0	0
2016/2017	0.00	1.95	4.95	9.3	4.6	0	0
2017/2018	0.50	1.95	4.95	4.5	3.1	0	0
2018/2019	0.33	1.95	4.95	5.1	3.3	0	0

¹ The first entry is the direct payment rate and the second entry is the counter-cyclical payment rate for 2004/2005-2013/2014. For 2009/2010-2013/2014, producers who participated in the Average Crop Revenue (ACRE) program got a 20 percent reduction in their direct payment, not calculated in this table. For 2014/2015 and after, the entry is the price loss coverage payment rate. Agricultural Risk Coverage (ARC) is also available, but payment rates are established at the county or farm levels. ² For 2009/2010-2013/2014, producers who participated in the ACRE program got a 30 percent reduction in their loan rate, not calculated in this table. ³ Target applies to 2003/2004-2013/2014 and Reference applies beginning with 2014/2015. ⁴ Percent of production is on a grain basis. ⁵ Acquisitions as of September 30, 2019. FPAC-BC, Commodity Analysis Branch.

Table 1-59.—International Barley: Area, yield, and production in specified countries, 2016/2017–2018/2019

Country	Area			Yield per hectare			Production		
	2016/ 2017	2017/ 2018	2018/ 2019	2016/ 2017	2017/ 2018	2018/ 2019	2016/ 2017	2017/ 2018	2018/ 2019
	1,000 hectares			Metric tons			1,000 metric tons		
European Union	12,308	12,092	12,382	4.86	4.86	4.52	59,866	58,805	55,968
Russia	7,955	7,714	7,784	2.21	2.62	2.15	17,547	20,211	16,737
Canada	2,266	2,114	2,400	3.90	3.73	3.50	8,839	7,891	8,400
Australia	4,834	4,124	4,000	2.79	2.24	2.08	13,506	9,254	8,300
Ukraine	3,045	2,652	2,569	3.24	3.28	2.96	9,874	8,695	7,604
Turkey	3,400	3,400	3,600	1.40	1.88	2.06	4,750	6,400	7,400
Argentina	870	935	1,200	3.79	4.00	3.75	3,300	3,740	4,500
Kazakhstan	1,893	2,069	2,516	1.71	1.60	1.58	3,231	3,305	3,971
United States	1,038	794	800	4.19	3.93	4.17	4,353	3,119	3,333
Morocco	1,208	1,893	1,597	0.51	1.30	1.82	620	2,466	2,910
Iran	1,760	1,600	1,550	2.12	1.94	1.81	3,724	3,100	2,800
Ethiopia	959	955	1,000	2.11	2.13	2.20	2,025	2,032	2,200
Algeria	900	763	1,026	1.11	1.27	1.90	1,000	968	1,950
China	429	430	450	4.08	4.19	4.11	1,752	1,800	1,850
India	589	656	662	2.45	2.67	2.69	1,440	1,750	1,780
Belarus	450	452	500	2.78	3.14	3.40	1,253	1,420	1,700
Mexico	330	358	353	2.96	2.81	2.82	978	1,005	996
Azerbaijan	355	319	320	2.62	2.56	2.72	929	815	870
Iraq	1,200	775	600	1.29	1.26	1.30	1,550	975	780
Uruguay	190	153	167	3.57	2.52	3.82	678	385	638

FAS, Office of Global Analysis, (202) 720-6301. Prepared or estimated on the basis of official USDA production, supply, and distribution statistics from foreign governments.

Table 1-60.—Barley: International trade, 2016/2017–2018/2019

Country	2016/2017	2017/2018	2018/2019
	1,000 metric tons		
Principle importing countries:			
Saudi Arabia	3,077	2,556	7,600
China	5,744	9,192	6,500
Iran	1,192	1,546	3,000
Japan	10,786	5,669	1,100
Libya	816	753	900
Jordan	65	103	850
Tunisia	4,241	2,949	650
Brazil	54	26	600
United Arab Emirates .....	.....	14	500
Kuwait	4,412	5,354	450
European Union	156	139	400
Algeria	30,543	28,301	350
Turkey	235	95	300
Colombia	30,778	28,396	250
Israel	65	103	250
Lebanon	4,241	2,949	150
Belarus	54	26	140
United States .....	.....	14	131
Vietnam	4,412	5,354	125
Uzbekistan	156	139	120
Peru	30,543	28,301	111
Morocco	235	95	100
Thailand	30,778	28,396	100
Principle exporting countries:			
European Union	5,667	5,899	5,000
Russia	2,951	5,884	4,800
Australia	9,190	5,725	4,600
Ukraine	5,354	4,289	3,800
Argentina	2,556	2,500	3,100
Canada	1,546	2,021	2,200
Kazakhstan	682	1,347	1,800
United States	95	111	109
Turkey	14	0	100
Uruguay	114	5	100
Serbia	26	53	85
Moldova	117	127	70
India	1	1	7
Belarus	16	0	0
Azerbaijan	7	0	0

FAS, Office of Global Analysis, (202) 720-6301. Prepared or estimated on the basis of official USDA production, supply, and distribution statistics from foreign governments.

Table 1-61.—Grains and grain products: Food availability, United States, 2009–2018

Year ¹	Wheat			Rye		Rice (milled)	
	Total ²	Per capita availability		Total ²	Per capita availability of rye flour	Total ⁴	Per capita availability
		Flour ³	Non-milled product				
	<i>Million bushels</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Million bushels</i>	<i>Pounds</i>	<i>Million cwt.</i>	<i>Pounds</i>
2009	920	134.7	2.3	3.3	0.5	62.6	20.4
2010	928	134.8	2.3	3.3	0.5	63.1	20.4
2011	925	132.5	2.3	3.3	0.5	(NA)	(NA)
2012	952	134.3	2.3	3.4	0.5	(NA)	(NA)
2013	945	135.0	2.3	3.4	0.5	(NA)	(NA)
2014 .....	.....	134.7	.....	3.5	0.5	(NA)	(NA)
2015 .....	.....	133.0	.....	3.6	0.5	(NA)	(NA)
2016 .....	.....	131.7	.....	3.7	0.5	(NA)	(NA)
2017 .....	.....	131.8	.....	3.8	0.5	(NA)	(NA)
2018 .....	.....	132.1	.....	3.6	0.5	(NA)	(NA)

Year ¹	Corn				Oats		Barley		
	Total ⁵	Per capita availability of food products			Total ⁶	Per capita availability of food products	Total ⁷	Per capita availability of food products ⁸	
		Flour and meal	Hominy and grits	Food Starch					Total
	<i>Million bushels</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Million bushels</i>	<i>Pounds</i>		
2009	986	19.3	9.3	4.4	33.0	66.2	4.7	6.9	0.7
2010	973	19.3	9.3	4.5	33.1	67.2	4.7	6.8	0.7
2011	989	19.9	9.6	4.6	34.1	68.8	4.8	6.8	0.7
2012	980	19.8	9.5	4.6	33.9	68.1	4.7	6.5	0.6
2013	958	19.8	9.5	4.6	33.9	66.2	4.5	7.5	0.7
2014 .....	.....	19.9	9.5	4.6	34.0	66.4	4.5	7.7	0.7
2015 .....	.....	19.9	9.5	4.6	34.0	68.0	4.6	8.0	0.8
2016 .....	.....	20.0	9.5	4.7	34.2	69.0	4.6	9.0	0.8
2017 .....	.....	21.0	9.5	4.7	35.2	72.0	4.8	9.5	0.9
2018 .....	.....	21.0	9.5	4.7	35.2	72.5	4.8	9.7	0.9

Estimates of corn syrup and sugar are unofficial estimates; industry data were not reported after April 1968.
 Annual data and per capita estimates for rice are unavailable beyond 2010 due to a large and unexplained decline in the implied total domestic and residual use estimate.
 (NA) Not available. ¹Data are in marketing year; for corn, September 1-August 31; for oats and barley, June 1-May 31; and rice, August 1-July 31. Wheat, rye, syrup, and sugar are in calendar year. ²Excludes quantities used in alcoholic beverages. ³Includes white, whole wheat, and semolina flour. ⁴Does not include shipments to U.S. territories. Excludes rice used in alcoholic beverages. Includes imports and rice used in processed foods and pet foods. ⁵Includes an allowance for the quantity used as hominy and grits. This series is not adjusted for trade. ⁶Oats used in oatmeal, prepared breakfast foods, infant foods, and food products. ⁷Malt for food, breakfast food uses, pearl barley, and flour. ⁸Malt equivalent of barley food products.
 ERS, Market & Trade Economics Division, (202) 694-5290. All figures are estimates based on data from private industry sources, the U.S. Department of Commerce, the Internal Revenue Service, and other Government agencies.

Table 1-62.—Sorghum: Area, yield, production, and value, United States, 2009–2018

Year	Area planted for all purposes ¹	Sorghum for grain ²					Sorghum for silage		
		Area harvested	Yield per harvested acre	Production	Marketing year average price per cwt ³	Value of production ³	Area harvested	Yield per harvested acre	Production
		1,000 acres	1,000 acres	Bushels	1,000 bushels	Dollars	1,000 dollars	1,000 acres	Tons	1,000 tons
2009 ..	6,599	5,502	69.4	381,605	5.75	1,202,331	255	14.5	3,693
2010 ..	5,369	4,806	71.9	345,464	8.96	1,616,773	272	12.5	3,412
2011 ..	5,451	3,945	54.0	212,993	10.70	1,259,635	226	10.4	2,353
2012 ..	6,259	4,995	49.6	247,742	11.30	1,606,237	353	11.9	4,196
2013 ..	8,076	6,585	59.6	392,331	7.64	1,716,927	380	14.3	5,420
2014 ..	7,138	6,401	67.6	432,575	7.20	1,721,330	315	13.1	4,123
2015 ..	8,459	7,851	76.0	596,751	5.91	2,064,638	306	14.6	4,475
2016 ..	6,690	6,163	77.9	480,261	4.98	1,352,438	298	14.0	4,171
2017 ..	5,629	5,044	71.7	361,871	5.75	1,168,526	282	13.4	3,772
2018 ..	5,690	5,061	72.1	364,986	5.90	1,212,237	264	12.6	3,326

¹ Grain and sweet sorghum for all uses, including syrup. ² Includes both grain sorghum for grain, and sweet sorghum for grain or seed. ³ Based on the reported price of grain sorghum.
NASS, Crops Branch, (202) 720-2127.

Table 1-63.—Sorghum grain: Stocks on and off farms, United States, 2009–2018

Year beginning previous Dec.	On farms				Off farms ¹			
	Dec. 1	Mar. 1	Jun. 1	Sep. 1	Dec. 1	Mar. 1	Jun. 1	Sep. 1
	1,000 bushels	1,000 bushels	1,000 bushels	1,000 bushels	1,000 bushels	1,000 bushels	1,000 bushels	1,000 bushels
2009	54,400	32,200	12,000	4,400	243,290	173,650	90,215	50,312
2010	48,000	23,680	10,700	4,500	202,759	151,873	77,162	36,740
2011	30,500	13,020	3,140	2,030	207,168	158,027	76,894	25,420
2012	27,850	12,800	4,120	1,160	123,101	95,266	54,405	21,792
2013	17,600	10,850	2,710	602	122,247	80,685	38,398	14,551
2014	32,950	15,950	4,500	1,945	198,466	159,784	87,924	32,087
2015	30,500	9,000	2,960	1,895	192,094	110,856	31,329	16,514
2016	51,500	25,000	9,700	3,755	271,035	176,584	80,654	32,877
2017	43,000	21,250	8,620	4,280	266,079	159,495	76,088	29,179
2018 ²	33,800	13,250	5,220	3,355	193,692	127,006	60,113	31,499

¹ Includes stocks at mills, elevators, warehouses, terminals, and processors. ² Preliminary.
NASS, Crops Branch, (202) 720-2127.

Table 1-64.—Sorghum: Supply and disappearance, United States, 2009–2018

Year beginning September 1	Supply			Disappearance					Ending stocks Aug. 31 ¹
	Beginning stocks	Production	Total	Domestic use			Exports	Total disappearance	
				Food, alcohol, and industrial	Seed	Feed and residual			
	<i>Million bushels</i>								
2009	55	382	436	89	1	141	164	395	41
2010	41	345	387	84	1	123	152	359	27
2011	27	213	241	84	1	69	63	218	23
2012	23	248	280	94	1	93	76	265	15
2013	15	392	408	69	1	93	211	374	34
2014	34	433	467	14	1	82	352	449	18
2015	18	597	620	136	1	104	342	583	37
2016	37	480	519	114	1	133	238	485	33
2017	33	362	397	60	1	102	200	362	35
2018	35	365	400	99	1	155	85	340	60

¹ Includes quantity under loan and farmer-owned reserve.
Latest data may be preliminary or projected. Totals may not add due to independent rounding.
ERS, Market and Trade Economics Division, (202) 694-5313. Source: USDA, World Agricultural Outlook Board, World Agricultural Supply and Demand Estimates and supporting materials.

Table 1-65.—Sorghum: Area, yield, and production, by State and United States, 2016–2018

State	Area planted for all purposes			Sorghum for grain		
				Area harvested		
	2016	2017	2018	2016	2017	2018
	1,000 acres	1,000 acres	1,000 acres	1,000 acres	1,000 acres	1,000 acres
Arkansas	47	9	12	44	7	10
Colorado	450	410	355	415	360	325
Georgia	20	21	25	10	12	15
Illinois	18	17	18	16	15	16
Kansas	3,100	2,600	2,800	2,950	2,450	2,650
Louisiana	52	15	8	46	13	6
Mississippi	13	5	4	11	4	3
Missouri	65	30	30	54	23	21
Nebraska	200	180	230	175	130	170
New Mexico	110	85	80	85	48	47
North Carolina	45	22	18	37	17	8
Oklahoma	400	315	300	370	295	240
South Dakota	270	270	260	200	170	200
Texas	1,900	1,650	1,550	1,750	1,500	1,350
United States	6,690	5,629	5,690	6,163	5,044	5,061

State	Yield per harvested acre			Production		
	2016	2017	2018	2016	2017	2018
	Bushels	Bushels	Bushels	1,000 bushels	1,000 bushels	1,000 bushels
Arkansas	73.0	78.0	77.0	3,212	546	770
Colorado	50.0	52.0	53.0	20,750	18,720	17,225
Georgia	54.0	54.0	53.0	540	648	795
Illinois	93.0	83.0	111.0	1,488	1,245	1,776
Kansas	91.0	82.0	88.0	268,450	200,900	233,200
Louisiana	102.0	91.0	84.0	4,692	1,183	504
Mississippi	89.0	72.0	90.0	979	288	270
Missouri	95.0	107.0	100.0	5,130	2,461	2,100
Nebraska	102.0	89.0	94.0	17,850	11,570	15,980
New Mexico	41.0	35.0	38.0	3,485	1,680	1,786
North Carolina	55.0	55.0	60.0	2,035	935	480
Oklahoma	55.0	53.0	50.0	20,350	15,635	12,000
South Dakota	79.0	68.0	80.0	15,800	11,560	16,000
Texas	66.0	63.0	46.0	115,500	94,500	62,100
United States	77.9	71.7	72.1	480,261	361,871	364,986

NASS, Crops Branch, (202) 720-2127.

Table 1-66.—Sorghum silage: Area harvested, yield, and production, by State and United States, 2016–2018

State	Silage								
	Area harvested			Yield per acre			Production		
	2016	2017	2018	2016	2017	2018	2016	2017	2018
	1,000 acres	1,000 acres	1,000 acres	Tons	Tons	Tons	1,000 tons	1,000 tons	1,000 tons
Arkansas	1	1	1	18.0	16.0	18.0	18	16	18
Colorado	10	25	8	9.0	15.0	14.0	90	375	112
Georgia	8	8	8	10.0	13.0	11.0	80	104	88
Illinois	1	1	1	17.0	12.0	14.0	17	12	14
Kansas	95	85	60	15.5	13.0	15.0	1,473	1,105	900
Louisiana	1	1	1	13.0	12.0	12.0	13	12	12
Mississippi	1	1	1	10.0	8.0	10.0	10	8	10
Missouri	9	5	7	17.0	19.0	12.0	153	95	84
Nebraska	10	20	20	14.0	11.0	11.0	140	220	220
New Mexico	18	17	18	13.0	11.0	11.0	234	187	198
North Carolina	4	4	7	10.0	10.0	10.0	40	40	70
Oklahoma	15	12	12	10.0	18.0	5.0	150	216	60
South Dakota	40	37	40	13.0	11.0	12.5	520	407	500
Texas	85	65	80	14.5	15.0	13.0	1,232	975	1,040
United States	298	282	264	14.0	13.4	12.6	4,171	3,772	3,326

NASS, Crops Branch, (202) 720-2127.

Table 1-67.—Sorghum grain: Marketing year average price and value of production, by State and United States, 2016–2018

State	Marketing year average price per cwt			Value of production		
	2016	2017	2018 ¹	2016	2017	2018 ¹
	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>
Arkansas	5.00	5.66	6.70	8,994	1,731	2,889
Colorado	4.30	5.45	5.50	49,966	57,133	53,053
Georgia	6.37	7.96	7.35	1,926	2,889	3,272
Illinois	5.41	6.37	5.60	4,508	4,441	5,570
Kansas	4.67	5.58	5.75	702,050	627,772	750,904
Louisiana	6.04	6.19	6.15	15,870	4,101	1,736
Mississippi	5.87	5.72	5.50	3,218	923	832
Missouri	5.20	5.60	6.20	14,939	7,718	7,291
Nebraska	4.89	5.15	5.60	48,880	33,368	50,113
New Mexico	5.57	6.12	6.65	10,870	5,758	6,651
North Carolina	6.50	6.50	6.60	7,407	3,403	1,774
Oklahoma	4.82	5.64	6.05	54,929	49,382	40,656
South Dakota	5.05	5.64	5.50	44,682	36,511	49,280
Texas	5.94	6.30	6.85	384,199	333,396	238,216
United States	4.98	5.75	5.90	1,352,438	1,168,526	1,212,237

¹ Preliminary.
NASS, Crops Branch, (202) 720-2127.

Table 1-68.—Sorghum grain: Support operations, United States, 2012–2018

Marketing year beginning September 1	Income support payment rates per cwt ¹	Program price levels per cwt		Put under support		Acquired by CCC under loan program ⁵	Owned by CCC at end of marketing year
		Loan ²	Target/reference ³	Quantity	Percentage of production ⁴		
2012/2013	0.63/0.00	3.48	4.70	0.2	0.1	0	0
2013/2014	0.63/0.00	3.48	4.70	0.3	0.1	0	0
2014/2015	0.00	3.48	3.95	0.4	0.2	0	0
2015/2016	0.64	3.48	3.95	1.4	0.4	0	0
2016/2017	1.16	3.48	3.95	1.9	0.7	0	0
2017/2018	0.73	3.48	3.95	1.3	0.6	0	0
2018/2019	1.25	3.48	3.95	1.2	0.6	0	0

¹ The first entry is the direct payment rate and the second entry is the counter-cyclical payment rate for 2004/2005-2013/2014. For 2009/2010-2013/2014, producers who participated in the Average Crop Revenue (ACRE) program got a 20 percent reduction in their direct payment, not calculated in this table. For 2014/2015 and after, the entry is the price loss coverage (PLC) payment rate. For 2017/2018, projected PLC payment rate is based on March 2018 WASDE MY price. Agricultural Risk Coverage (ARC) is also available, but payment rates are established at the county or farm levels. ² For 2009/2010-2013/2014, producers who participate in the ACRE program get a 30 percent reduction in their loan rate, not calculated in this table. ³ Target applies to 2003/2004-2013/2014 and Reference applies beginning with 2014/2015. ⁴ Percent of production is on a grain basis. ⁵ Acquisitions as of September 30, 2019.
FPAC-BC, Commodity Analysis Branch.

Table 1-69.—International Sorghum: Area, yield, and production in specified countries, 2016/2017–2018/2019

Country	Area			Yield per hectare			Production		
	2016/ 2017	2017/ 2018	2018/ 2019	2016/ 2017	2017/ 2018	2018/ 2019	2016/ 2017	2017/ 2018	2018/ 2019
	1,000 hectares			Metric tons			1,000 metric tons		
United States	2,494	2,041	2,048	4.89	4.50	4.53	12,199	9,192	9,271
Nigeria	6,651	5,820	5,800	1.14	1.19	1.17	7,556	6,939	6,800
Ethiopia	1,882	1,840	1,840	2.53	2.62	2.72	4,752	4,816	5,000
Mexico	1,465	1,350	1,350	3.17	3.37	3.48	4,638	4,545	4,700
Sudan	9,158	6,298	7,000	0.71	0.59	0.64	6,466	3,743	4,500
India	5,624	4,967	4,014	0.81	0.97	0.92	4,568	4,800	3,700
China	625	675	720	4.78	4.74	4.79	2,985	3,200	3,450
Argentina	700	700	630	4.86	4.29	3.97	3,400	3,000	2,500
Brazil	629	782	737	2.97	2.73	2.92	1,865	2,136	2,150
Niger	3,605	3,821	3,700	0.50	0.51	0.57	1,808	1,945	2,100
Burkina	1,734	1,667	1,800	0.96	0.82	1.07	1,663	1,366	1,930
Mali	1,560	1,386	1,500	0.89	1.03	0.98	1,394	1,424	1,470
Cameroon	856	852	850	1.56	1.59	1.65	1,339	1,352	1,400
Australia	368	462	540	2.70	2.72	2.41	994	1,257	1,300
Chad	1,191	1,147	1,100	0.83	0.83	0.90	991	946	988
Tanzania	775	783	800	0.98	1.02	1.00	760	797	800
Bolivia	200	300	285	2.50	2.50	2.74	500	750	780
Egypt	140	140	140	5.36	5.36	5.36	750	750	750
European Union ...	116	124	129	5.45	5.42	5.68	632	672	733
South Sudan	447	600	600	1.59	1.11	1.17	712	667	700

FAS, Office of Global Analysis, (202) 720-6301. Prepared or estimated on the basis of official USDA production, supply, and distribution statistics from foreign governments.

Table 1-70.—Sorghum: International trade, 2016/2017–2018/2019

Country	2016/2017	2017/2018	2018/2019
	1,000 metric tons		
Principle exporting countries:			
United States	6,041	5,211	2,159
Australia	280	456	500
Argentina	563	2	150
Ukraine	164	123	120
Nigeria	100	100	100
Ethiopia	75	75	75
China	34	43	50
Kenya	81	130	50
Brazil	1	1	40
India	23	140	25
Bolivia	4	21	20
Paraguay	1	5	15
South Africa	9	6	10
Burkina	5	5	5
European Union	2	2	5
Sudan	150	100	5
Tanzania	5	5	5
Thailand	5	5	5
Uganda	5	5	5
Principle importing countries:			
European Union	168	420	800
China	5,209	4,436	700
Japan	561	594	600
Mexico	548	98	500
Sudan	120	150	200
Kenya	132	119	150
South Sudan	36	148	150
Chile	49	65	100
Somalia	60	80	100
Taiwan	48	64	60
Colombia	0	56	50
Israel	21	29	40
Philippines	20	21	40
Uganda	40	35	40
Eritrea	0	30	35
South Africa	0	48	30
Botswana	7	10	25
Cameroon	30	15	25
Chad	25	25	25
Niger	25	25	25

FAS, Office of Global Analysis, (202) 720-6301. Prepared or estimated on the basis of official USDA production, supply, and distribution statistics from foreign governments.

Table 1-71.—International Mixed grain: Area, yield, and production in specified countries, 2016/2017–2018/2019

Country	Area			Yield per hectare			Production		
	2016/ 2017	2017/ 2018	2018/ 2019	2016/ 2017	2017/ 2018	2018/ 2019	2016/ 2017	2017/ 2018	2018/ 2019
	1,000 hectares			Metric tons			1,000 metric tons		
Bangladesh	35	35	35	0.71	0.71	0.71	25	25	25
Canada	78	66	90	2.92	2.76	2.83	228	182	255
European Union ...	4,016	3,894	3,890	3.73	3.93	3.38	14,963	15,316	13,144
Switzerland	10	10	10	6.00	6.00	6.00	60	60	60
Turkey	1	1	1	1.00	1.00	1.00	1	1	1

FAS, Office of Global Analysis, (202) 720-6301. Prepared or estimated on the basis of official USDA production, supply, and distribution statistics from foreign governments.

Table 1-72.—Commercial feeds: Disappearance for feed, United States, 2009–2018

Year beginning October	Oilseed cake and meal							Total		
	Soybean	Cottonseed	Linseed	Peanut ¹	Sunflower	Canola	Total			
	1,000 Short tons									
2009	30,640	767	210	91	415	1,984	33,109			
2010	30,301	1,079	208	112	281	2,968	33,354			
2011	31,552	982	194	109	197	3,753	34,491			
2012	28,999	1,012	199	123	241	4,260	31,913			
2013	29,514	811	153	130	268	4,750	31,862			
2014	32,277	794	212	141	224	4,891	35,038			
2015	33,118	638	196	144	288	4,975	35,520			
2016	33,420	687	190	177	293	5,011	41,290			
2017	36,971	708	166	.....	261	4,616	.....		
2018	35,952	750	173	.....	270	4,842	.....		
Year beginning October	Animal protein				Mill products ³					Total com- mercial feeds
	Tankage and meat meal	Fish meal	Dried milk ²	Total	Wheat millfeeds	Gluten feed and meal ⁴	Rice millfeeds	Alfalfa meal	Total	
	1,000 Short tons									
2007	2,367	197	356	2,920	6,863	4,560	580	225	12,228	54,148
2008	2,302	182	364	2,848	6,514	5,166	547	225	12,453	51,065
2009	2,260	178	338	2,775	6,445	5,203	574	225	12,447	50,316
2010	2,027	298	436	2,762	6,204	5,034	608	225	12,070	51,156
2011	(NA)	198	463	2,857	6,404	5,772	535	225	12,936	54,038
2012	(NA)	198	368	2,728	6,345	5,707	531	225	12,808	51,709
2013	(NA)	198	219	2,545	6,345	5,651	447	225	12,669	51,827
2014	(NA)	198	248	2,608	6,603	5,837	845	225	13,510	56,048
2015	2,594	198	248	3,041	6,513	5,921	235	225	12,894	56,434
2016	2,933	198	248	3,379	9,101	5,864	579	225	15,768	60,438

¹Year beginning August 1. ²Includes dried skim milk, and whey for feed, but does not include any milk products fed on farms. ³Other mill products that are not listed include screenings, hominy, and oats feed etc., for which no statistics are available. ⁴Adjusted for export data.

ERS, Market and Trade Economics Division, (202) 694-5313.

Table 1-73.—High-protein feeds: Quantity for feeding, high-protein animal units, quantity per animal unit, and prices, United States, 2007–2016

Year beginning October	Quantity for feeding ¹						High-protein animal units	Quantity per animal unit	High protein feed prices
	Oilseed meal			Animal protein	Grain protein ³	Total			
	Soybean meal	Other oilseed meals ²	Total						
	1,000 tons	1,000 tons	1,000 tons	1,000 tons	1,000 tons	1,000 tons	Million units	Pounds	Index numbers 1992=100
2007	36,555	2,945	39,500	3,207	2,715	45,422	71	1,271	173
2008	33,827	2,282	36,109	3,113	3,076	42,298	71	1,193	171
2009	33,703	2,262	35,965	3,049	3,098	42,112	70	1,195	153
2010	33,331	2,814	36,145	2,950	2,998	42,093	69	1,214	177
2011	34,695	2,721	37,416	3,037	3,437	43,890	68	1,290	203
2012	31,899	2,689	34,587	2,965	3,398	40,951	68	1,212	239
2013	32,466	2,166	34,632	2,879	3,365	40,877	67	1,225	250
2014	35,506	2,546	38,052	2,929	3,476	44,456	67	1,319	191
2015	36,430	2,211	38,641	3,450	3,526	45,616	69	1,313	166
2016	36,630	2,686	39,316	3,858	3,492	46,665	71	1,316	159

Latest data may be preliminary or projected. ¹In terms of 44 percent protein soybean meal equivalent. ²Includes cottonseed, linseed, peanut meal, and sunflower meal. ³Beginning 1974, adjusted for exports of corn gluten feed and meal. ERS, Market and Trade Economics Division, (202) 694-5313.

Table 1-74.—Feed concentrates: Fed to livestock and poultry, 2007–2016

Year beginning October	Feed grains				Wheat ²	Rye ²	By-product feeds ³	Total concentrates	Grain consuming animal units	Concentrates fed per grain-consuming animal unit
	Corn ¹	Sorghum ¹	Oats ² and barley ²	Total						
	Million tons	Million tons	Million tons	Million tons	Million tons	Million tons	Million tons	Millions	Tons	
2007	163.9	4.6	3.2	171.7	4.9	0.1	62.0	238.8	92.7	2.58
2008	143.6	6.6	3.2	153.4	3.4	0.1	58.2	215.1	91.7	2.35
2009	142.7	3.9	3.0	149.6	3.2	0.1	57.3	210.1	92.4	2.27
2010	133.6	3.4	2.7	139.7	2.1	0.1	57.7	196.6	92.9	2.15
2011	126.3	1.9	3.0	131.3	10.8	0.1	57.7	202.9	93.1	2.18
2012	120.6	2.6	3.6	126.9	11.6	0.1	57.6	196.7	92.3	2.13
2013	140.1	2.6	3.1	145.7	1.8	0.1	57.7	206.3	90.5	2.28
2014	148.0	2.3	2.5	152.8	4.7	0.1	63.3	220.9	92.4	2.39
2015	143.2	3.0	2.7	148.9	3.5	0.1	63.6	216.1	94.2	2.29
2016	153.0	3.6	2.4	159.0	2.2	0.1	68.0	229.3	95.8	2.39

Latest data may be preliminary or projected. ¹Marketing year beginning Sept. 1. ²Marketing year beginning June 1. ³Oilseed meals, animal protein feeds, mill byproducts, and mineral supplements. ERS, Market and Trade Economics Division, (202) 694-5313.

Table 1-75.—Feed: Consumed per head and per unit of production, by class of live-stock or poultry, with quantity expressed in equivalent feeding value of corn, 2007–2016

Year beginning October	Dairy cattle			Beef cattle				Sheep and lambs	
	Milk cows		Other dairy cattle per head	Cattle on feed per head Jan. 1 ¹	Other beef cattle per head	All beef cattle per head	Cattle and calves per 100 pounds produced ²	Per head	Per 100 pounds produced ³
	Per head	Per 100 pounds milk produced							
	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>
2007	12,949	65	6,526	9,114	5,307	5,993	1,261	1,271	1,718
2008	12,265	60	6,473	8,854	5,283	5,895	1,214	1,263	1,741
2009	12,303	59	6,425	8,942	5,269	5,896	1,227	1,260	1,680
2010	12,013	57	6,378	8,403	5,253	5,815	1,183	1,254	1,695
2011	12,030	57	6,369	8,056	5,263	5,782	1,145	1,261	1,669
2012	11,918	57	6,364	7,830	5,255	5,717	1,137	1,261	1,659
2013	12,143	56	6,434	8,677	5,314	5,891	1,143	1,269	1,631
2014	12,345	56	6,453	8,912	5,292	5,919	1,183	1,265	1,649
2015	12,224	55	6,399	8,577	5,280	5,838	1,173	1,260	1,649
2016	12,408	55	6,905	9,398	5,282	5,958	1,180	1,265	1,624

Year beginning October	Poultry								Hogs per 100 pounds produced	Horses and mules two years and over per head
	Hens and pullets		Chickens raised		Broilers produced		Turkeys raised			
	Per head Jan. 1	Per 100 eggs	Per head	Per 100 pounds live weight	Per head	Per 100 pounds produced	Per head	Per 100 pounds produced		
	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>
2007	136	47	28	1,045	11	197	86	313	574	3,832
2008	126	44	27	1,017	10	175	84	270	496	3,735
2009	119	43	26	1,077	10	180	85	293	487	3,707
2010	113	40	24	1,037	9	162	82	285	487	3,650
2011	119	42	25	1,019	10	163	79	272	486	3,663
2012	117	41	25	1,049	9	160	78	252	447	3,641
2013	119	40	26	1,156	9	165	82	255	471	3,674
2014	115	41	30	1,321	10	173	89	287	516	3,723
2015	106	43	28	1,255	10	164	85	290	483	3,695
2016	115	43	28	1,316	10	170	87	284	498	3,728

¹ Feed consumed by all cattle divided by the number on feed Jan. 1. ² Feed for all cattle, except milk cows, divided by the net live-weight production of cattle and calves. It includes the growth on dairy heifers and calves as well as all beef cattle. ³ Including wool produced.

ERS, Market and Trade Economics Division, (202) 694-5313.

Table 1-76.—Feed: Consumed by livestock and poultry, by type of feed, with quantity expressed in equivalent feeding value of corn, 2007–2016

Year beginning October	Concentrates	Harvested roughage	Pasture	Total
	<i>Million tons</i>	<i>Million tons</i>	<i>Million tons</i>	<i>Million tons</i>
2007	239	80	163	482
2008	215	83	158	456
2009	210	83	156	450
2010	200	81	155	435
2011	203	76	155	434
2012	197	75	155	427
2013	206	78	149	433
2014	221	82	148	450
2015	216	81	155	452
2016	229	81	160	470

Latest data may be preliminary or projected.
ERS, Market and Trade Economics Division, (202) 694-5313.

Table 1-77.—Animal units fed: Grain-consuming, roughage-consuming, and grain-and-roughage-consuming, United States, 2007–2016¹

Year beginning October	Grain-consuming ²	Roughage-consuming ³	Grain and roughage-consuming ⁴
	<i>1,000 units</i>	<i>1,000 units</i>	<i>1,000 units</i>
2007	95,118	71,479	80,042
2008	92,702	70,887	78,782
2009	91,687	70,452	78,111
2010	92,411	69,352	77,720
2011	93,104	68,023	77,192
2012	92,311	67,593	76,617
2013	90,502	66,758	75,347
2014	92,433	67,413	76,532
2015	94,187	69,498	85,126
2016	95,771	70,917	80,814

Latest data may be preliminary or projected. ¹ Index series based on average feeding rates for years 1969–71. In calculations for the feeding years 1969 to date, cattle numbers used are the new categories shown in the Livestock and Poultry Inventory, published by NASS, USDA. ² Livestock and poultry numbers weighted by all concentrates consumed. ³ Livestock and poultry numbers weighted by all roughage (including pasture) consumed. ⁴ Livestock and poultry numbers weighted by all feed (including pasture) fed to livestock.
ERS, Market and Trade Economics Division, (202) 694–5313.

Table 1-78.—Feed grains: Average price, selected markets and grades, 2009–2018¹

Calendar year	Kansas City			Minneapolis		
	Corn, No. 2 Yellow (truck)	Corn, No. 2 White (rail)	Sorghum, No. 2 Yellow (truck)	Corn, No. 2 Yellow	Barley, No. 3 or Better malting	Oats, No. 2 White
	<i>Dollars per bushel</i>	<i>Dollars per bushel</i>	<i>Dollars per cwt.</i>	<i>Dollars per bushel</i>	<i>Dollars per bushel</i>	<i>Dollars per bushel</i>
2009	3.60	3.90	5.57	3.46	4.26	2.21
2010	4.08	4.27	6.94	3.65	4.70	2.74
2011	6.81	7.11	11.73	6.58	6.96	3.72
2012	7.17	7.29	11.81	6.87	7.06	3.67
2013	6.28	6.35	10.40	5.97	6.35	3.90
2014	4.07	4.30	7.30	3.83	6.23	4.02
2015	3.76	3.82	6.97	3.45	6.23	2.84
2016	3.49	3.93	5.59	3.18	(NA)	2.57
2017	3.43	3.62	5.61	3.19	4.70	3.43
2018	3.57	3.73	5.87	3.21	2.74	2.96

Calendar year	Omaha: Corn, No. 2 Yellow (truck)	Chicago: Corn, No. 2 Yellow	Texas High Plains: Sorghum, No. 2 Yellow	Memphis Corn, No. 2 Yellow	St. Louis: Corn, No. 2 Yellow (truck)
	<i>Dollars per bushel</i>	<i>Dollars per bushel</i>	<i>Dollars per cwt</i>	<i>Dollars per bushel</i>	<i>Dollars per cwt</i>
2009	3.56	3.76	6.52	3.69	3.78
2010	4.03	4.16	7.81	4.25	4.26
2011	6.72	6.78	12.64	6.85	7.08
2012	7.06	6.86	13.15	6.95	7.08
2013	6.23	5.81	10.51	6.07	6.25
2014	3.99	4.03	7.26	4.33	4.84
2015	3.66	3.68	6.72	3.87	3.87
2016	3.34	3.61	5.53	3.67	3.70
2017	3.29	3.44	5.85	(NA)	3.62
2018	3.49	3.50	5.85	(NA)	3.73

¹ Simple average of daily prices.
AMS, Livestock and Grain Market News Branch, (202) 720–6231.

Table 1-79.—Feedstuffs: Average price per ton bulk, in wholesale lots, at leading markets, 2009–2018

Year beginning October	Soybean meal	Cottonseed meal		Linseed meal	Meat meal	Fish meal	Wheat bran	Wheat middlings
	48% protein	41% protein	41% protein	34% protein	50% protein	60% protein	Kansas City	Minneapolis
	Decatur	Kansas City	Memphis	Minneapolis	Kansas City	Gulf Coast		
	<i>Dollars per ton</i>	<i>Dollars per ton</i>	<i>Dollars per ton</i>	<i>Dollars per ton</i>	<i>Dollars per ton</i>	<i>Dollars per ton</i>	<i>Dollars per ton</i>	<i>Dollars per ton</i>
2009	347.73	293.25	265.21	231.77	334.69	861.06	90.17	89.12
2010	313.47	249.72	212.57	210.80	299.05	1,265.78	94.62	94.44
2011	333.73	310.43	275.43	242.60	342.84	1,198.89	176.20	172.74
2012	439.77	336.79	303.37	282.67	391.49	1,168.09	175.06	192.91
2013	464.61	430.80	333.42	(NA)	467.00	(NA)	129.57	182.40
2014	478.26	410.64	369.30	(NA)	456.61	1,466.28	119.45	117.43
2015	341.20	333.31	291.97	(NA)	328.33	1,531.77	98.42	93.66
2016	328.64	290.99	247.63	(NA)	275.20	1,386.72	75.10	73.51
2017	307.57	246.30	209.00	(NA)	254.17	1,291.67	75.47	69.59
2018	334.68	307.24	264.85	(NA)	270.39	(NA)	141.88	(NA)
Year beginning October	Wheat shorts or middlings	Wheat millrun	Gluten feed	Hominy feed	Distillers' dried grains	Alfalfa meal		
	Kansas City	Portland	21% protein	Midwest	Lawrenceburg	Dehydrated, 17% protein	Sun-cured	
			Illinois Points			Kansas City	Kansas City	
	<i>Dollars per ton</i>	<i>Dollars per ton</i>	<i>Dollars per ton</i>	<i>Dollars per ton</i>	<i>Dollars per ton</i>	<i>Dollars per ton</i>	<i>Dollars per ton</i>	
2009	90.24	120.48	.....	100.53	114.23	224.93	189.19
2010	94.62	124.06	.....	115.61	122.77	210.36	178.16
2011	176.20	187.71	.....	206.85	202.42	254.72	243.29
2012	174.78	219.71	.....	.....	200.00	347.23	.....
2013	129.99	228.57	166.35	202.42	236.07	339.28	275.70	
2014	119.41	191.60	165.00	124.84	172.22	324.74	267.10	
2015	98.42	170.20	98.28	103.53	164.40	283.53	206.99	
2016	75.10	144.76	90.72	92.12	148.60	253.90	185.82	
2017	74.08	131.65	(NA)	95.20	(NA)	227.37	190.02	
2018	102.72	143.33	(NA)	(NA)	80.00	247.07	231.43	

(NA) Not available.

AMS, Livestock and Grain Market News Branch, (202) 720-6231.

Table 1-80.—International Millet: Area, yield, and production in specified countries, 2016/2017–2018/2019

Country	Area			Yield per hectare			Production		
	2016/2017	2017/2018	2018/2019	2016/2017	2017/2018	2018/2019	2016/2017	2017/2018	2018/2019
	<i>1,000 hectares</i>			<i>Metric tons</i>			<i>1,000 metric tons</i>		
India	9,094	9,107	8,140	1.27	1.28	1.24	11,560	11,640	10,070
Niger	7,230	6,999	7,000	0.54	0.54	0.55	3,886	3,790	3,847
China	857	870	870	2.67	2.53	2.53	2,288	2,200	2,200
Nigeria	1,827	2,212	2,000	0.85	0.68	1.06	1,553	1,500	2,119
Sudan	3,007	2,620	3,000	0.48	0.36	0.67	1,449	954	2,000
Mali	2,040	2,156	2,000	0.89	0.69	0.92	1,807	1,493	1,840
Burkina	1,187	1,223	1,200	0.76	0.68	0.99	905	828	1,189
Ethiopia	456	464	450	2.23	2.32	2.22	1,017	1,078	1,000
Senegal	858	850	850	0.76	1.03	1.06	651	875	897
Chad	1,225	1,165	1,100	0.59	0.57	0.69	726	660	756
Tanzania	338	333	350	0.93	0.96	1.00	313	318	350
Pakistan	469	489	476	0.65	0.69	0.65	305	335	307
Nepal	260	260	260	0.96	0.96	0.96	250	250	250
Uganda	168	151	175	1.39	1.42	1.40	234	214	245
Burma	240	240	240	1.00	1.00	1.00	240	240	240

FAS, Office of Global Analysis, (202) 720-6301. Prepared or estimated on the basis of official USDA production, supply, and distribution statistics from foreign governments.

Table 1-81.—Proso millet: Area, yield, production, and value, United States, 2009–2018

Year	Area		Yield per harvested acre	Production	Marketing year average price per bushel received by farmers	Value of production
	Planted	Harvested				
	1,000 acres	1,000 acres	Bushels	1,000 dollars	Dollars	1,000 dollars
2009	350	265	33.5	8,875	2.87	25,460
2010	390	363	31.8	11,535	4.54	52,419
2011	370	338	27.1	9,149	6.01	54,974
2012	335	205	15.0	3,075	15.10	46,548
2013	720	638	28.9	18,436	4.61	84,915
2014	505	430	31.4	13,483	3.35	45,104
2015	445	418	33.9	14,159	2.93	41,547
2016	443	413	30.4	12,558	2.87	36,065
2017	478	403	36.9	14,889	3.32	49,444
2018	443	403	29.8	11,991	4.64	55,648

NASS, Crops Branch, (202) 720-2127.

Table 1-82.—Proso millet: Area, yield, and production, by State and United States, 2016–2018

State	Area planted			Area harvested		
	2016	2017	2018	2016	2017	2018
	1,000 acres	1,000 acres	1,000 acres	1,000 acres	1,000 acres	1,000 acres
Colorado	300	320	300	285	290	275
Nebraska	95	105	95	88	86	89
South Dakota	48	53	48	40	27	39
United States	443	478	443	413	403	403

State	Yield per acre			Production		
	2016	2017	2018	2016	2017	2018
	Bushels	Bushels	Bushels	1,000 bushels	1,000 bushels	1,000 bushels
Colorado	27.5	38.5	28.0	7,838	11,165	7,700
Nebraska	35.0	32.0	32.0	3,080	2,752	2,848
South Dakota	41.0	36.0	37.0	1,640	972	1,443
United States	30.4	36.9	29.8	12,558	14,889	11,991

NASS, Crops Branch, (202) 720-2127.

Table 1-83.—Proso millet: Marketing year average price and value, by State and United States, 2016–2018

State	Marketing year average price per bushel			Value of production		
	2016	2017	2018	2016	2017	2018
	Dollars	Dollars	Dollars	1,000 dollars	1,000 dollars	1,000 dollars
Colorado	2.85	3.32	4.85	22,338	37,068	37,345
Nebraska	2.87	3.13	4.40	8,640	8,614	12,531
South Dakota	2.98	3.87	4.00	4,887	3,762	5,772
United States	2.87	3.32	4.64	36,065	49,444	55,648

NASS, Crops Branch, (202) 720-2127.