

CHAPTER VI
STATISTICS OF HAY, SEEDS, AND MINOR FIELD CROPS

Chapter VI deals with hay, pasture, seeds, and various minor field crops.

Table 6-1.—Hay, all: Area, yield, and production, by State and United States, 2016–2018

State	Area harvested			Yield per harvested 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
Alabama	810	860	850	2.10	2.50	2.80	1,701	2,150	2,380
Alaska ¹	(X)	(X)	22	(X)	(X)	1.30	(X)	(X)	29
Arizona	320	325	300	8.18	7.96	7.82	2,619	2,586	2,346
Arkansas	1,304	1,293	1,203	2.00	2.00	1.80	2,614	2,591	2,168
California	1,220	1,140	980	5.57	5.60	5.80	6,790	6,388	5,682
Colorado	1,380	1,440	1,420	2.59	2.75	2.55	3,570	3,960	3,621
Connecticut	46	48	47	1.89	2.29	2.34	87	110	110
Delaware	17	15	13	3.06	3.20	2.62	52	48	34
Florida	300	300	280	2.70	2.50	3.10	810	750	868
Georgia	600	620	600	2.30	2.90	2.90	1,380	1,798	1,740
Illinois	1,330	1,430	1,340	3.85	3.59	3.75	5,126	5,128	5,019
Indiana	480	490	470	3.12	3.25	2.79	1,497	1,593	1,309
Iowa	500	540	510	3.56	2.76	2.71	1,781	1,492	1,382
Kansas	910	1,060	940	3.53	3.08	3.19	3,210	3,268	2,998
Kentucky	2,600	2,470	2,360	2.40	2.22	2.02	6,240	5,472	4,760
Louisiana	2,260	2,125	1,895	2.48	2.43	2.68	5,600	5,170	5,088
Maine	410	400	380	2.90	2.60	2.20	1,189	1,040	836
Maryland	140	125	110	1.88	1.93	1.89	263	241	208
Massachusetts	215	190	195	2.68	2.68	2.83	576	509	552
Michigan	82	78	79	1.57	1.78	1.48	129	139	117
Minnesota	870	870	810	2.71	2.29	2.24	2,357	1,989	1,812
Mississippi	1,520	1,360	1,220	2.92	2.79	2.52	4,440	3,797	3,077
Missouri	640	610	590	2.20	2.40	2.10	1,408	1,464	1,239
Montana	2,830	3,000	3,070	2.14	2.00	1.76	6,066	5,985	5,408
Nebraska	2,600	2,500	2,900	1.92	1.90	1.93	5,000	4,740	5,595
Nevada	2,380	2,510	2,700	2.40	2.37	2.59	5,717	5,955	6,985
New Hampshire	340	385	365	3.37	3.35	3.17	1,146	1,288	1,158
New Jersey	55	45	39	1.98	1.80	1.77	109	81	69
New Mexico	115	108	114	1.85	2.22	1.93	213	240	220
New York	275	285	250	3.71	4.00	3.73	1,019	1,140	932
North Carolina	1,360	1,320	1,220	1.68	2.01	2.25	2,285	2,650	2,744
North Dakota	687	657	816	2.31	2.30	2.71	1,587	1,514	2,210
Ohio	2,530	2,580	2,670	1.69	1.33	1.66	4,285	3,423	4,419
Oklahoma	965	960	970	2.56	2.47	2.43	2,471	2,371	2,356
Oregon	2,960	2,930	3,230	1.90	1.92	1.59	5,611	5,638	5,121
Pennsylvania	1,130	1,085	1,000	3.44	3.05	3.06	3,891	3,304	3,056
Rhode Island	1,300	1,420	1,190	2.38	2.61	2.30	3,093	3,709	2,739
South Carolina	7	6	6	1.29	2.00	2.00	9	12	12
South Dakota	320	300	270	2.10	2.60	2.50	672	780	675
Tennessee	3,050	2,950	3,250	1.78	1.56	1.78	5,425	4,603	5,788
Texas	1,815	1,665	1,720	2.16	2.26	2.46	3,924	3,767	4,231
Utah	4,630	4,520	4,740	2.53	2.11	1.77	11,714	9,548	8,374
Vermont	690	705	650	3.74	3.74	3.38	2,578	2,636	2,195
Virginia	180	185	170	1.92	1.97	2.15	345	364	366
Washington	1,215	1,195	1,140	2.34	2.31	2.23	2,847	2,764	2,540
West Virginia	840	740	760	3.98	4.02	3.64	3,343	2,973	2,764
Wisconsin	587	567	535	1.84	1.78	1.72	1,079	1,009	922
Wyoming	1,330	1,270	1,360	2.95	2.77	2.17	3,926	3,522	2,953
United States ²	53,185	52,777	52,839	2.52	2.43	2.34	134,082	128,207	123,600

(X) Not applicable. ¹ Previously was included in the Alaska table. For 2016 and 2017 data please refer to the Alaska table on page 105. ² Beginning in 2018, United States total includes data for Alaska.
 NASS, Crops Branch, (202) 720-2127.

Table 6-2.—Hay, all: Area, yield, production, and value, United States, 2009–2018

Year	Area harvested	Yield per acre	Production	Marketing year average price per ton received by farmers	Value of production
	<i>1,000 acres</i>	<i>Tons</i>	<i>1,000 tons</i>	<i>Dollars</i>	<i>1,000 dollars</i>
2009	59,775	2.47	147,700	108.00	14,715,559
2010	59,574	2.43	145,000	114.00	14,606,696
2011	55,204	2.35	129,880	178.00	18,085,074
2012	54,653	2.14	117,072	191.00	18,613,183
2013	57,973	2.33	135,198	176.00	19,845,080
2014	57,153	2.45	140,119	172.00	19,147,954
2015	54,529	2.47	134,668	145.00	16,568,121
2016	53,185	2.52	134,082	129.00	15,477,263
2017	52,777	2.43	128,207	142.00	16,109,040
2018	52,839	2.34	123,600	164.00	17,048,184

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

Table 6-3.—Alfalfa and alfalfa mixtures for hay: Area, yield, and production, by State and United States, 2016–2018

State	Area harvested			Yield per harvested 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>
Arizona	285	285	260	8.60	8.40	8.30	2,451	2,394	2,158
Arkansas	4	3	3	3.60	3.60	2.50	14	11	8
California	720	700	620	7.00	6.80	6.90	5,040	4,760	4,278
Colorado	680	720	730	3.50	3.70	3.40	2,380	2,664	2,482
Connecticut	6	8	7	1.90	2.30	2.50	11	18	18
Delaware	5	5	4	2.80	3.50	2.90	14	18	12
Idaho	1,000	1,060	1,050	4.40	4.00	4.20	4,400	4,240	4,410
Illinois	230	230	250	3.90	4.10	3.30	897	943	825
Indiana	210	250	240	4.20	3.30	3.00	882	825	720
Iowa	550	720	620	4.20	3.50	3.70	2,310	2,520	2,294
Kansas	700	570	610	4.30	3.60	3.50	3,010	2,052	2,135
Kentucky	160	185	145	3.50	3.30	3.10	560	611	450
Maine	10	10	10	2.20	2.20	2.30	22	22	23
Maryland	35	35	40	4.10	3.90	4.50	144	137	180
Massachusetts	7	8	9	2.30	2.50	2.10	16	20	19
Michigan	640	610	590	3.00	2.60	2.40	1,920	1,586	1,416
Minnesota	1,000	870	720	3.40	3.35	2.85	3,400	2,915	2,052
Missouri	230	300	270	3.20	2.40	2.40	736	720	648
Montana	1,800	1,650	1,900	2.00	2.10	2.05	3,600	3,465	3,895
Nebraska	780	860	850	4.15	3.95	4.30	3,237	3,397	3,655
Nevada	200	225	185	4.40	4.30	4.70	880	968	870
New Hampshire	5	5	4	1.70	1.80	2.20	9	9	9
New Jersey	12	13	9	3.20	3.10	3.45	38	40	31
New Mexico	190	190	160	4.60	5.00	4.70	874	950	752
New York	350	400	300	2.20	2.60	2.40	770	1,040	720
North Carolina	7	7	6	3.30	2.70	3.90	23	19	23
North Dakota	1,430	1,380	1,470	1.65	1.35	1.70	2,360	1,863	2,499
Ohio	365	350	350	3.40	3.20	3.10	1,241	1,120	1,085
Oklahoma	210	280	230	3.80	3.10	2.70	798	868	621
Oregon	420	420	420	4.70	4.70	4.10	1,974	1,974	1,722
Pennsylvania	350	430	300	3.00	3.10	2.90	1,050	1,333	870
Rhode Island	1	1	1	1.10	2.00	2.00	1	2	2
South Dakota	1,700	1,550	1,750	2.00	1.75	2.15	3,400	2,713	3,763
Tennessee	15	15	20	3.60	3.60	3.30	54	54	66
Texas	130	120	140	5.30	4.40	5.60	689	528	784
Utah	530	550	500	4.20	4.20	3.70	2,226	2,310	1,850
Vermont	30	30	20	2.50	1.80	1.80	75	54	36
Virginia	65	65	40	3.10	3.40	3.00	202	221	120
Washington	430	390	350	5.20	5.20	4.50	2,236	2,028	1,575
West Virginia	17	17	15	3.10	2.70	2.50	53	46	38
Wisconsin	1,000	910	820	3.20	3.00	2.35	3,200	2,730	1,927
Wyoming	520	580	590	2.70	2.80	2.70	1,404	1,624	1,593
United States	17,029	17,007	16,608	3.44	3.28	3.17	58,601	55,812	52,634

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Table 6-4.—Hay, all other: Area, yield, and production, by State and United States, 2016–2018

State	Area harvested			Yield per harvested 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
Alabama ¹	810	860	850	2.10	2.50	2.80	1,701	2,150	2,380
Alaska ^{1 2}	(X)	(X)	22	(X)	(X)	1.30	(X)	(X)	29
Arizona	35	40	40	4.80	4.80	4.70	168	192	188
Arkansas	1,300	1,290	1,200	2.00	2.00	1.80	2,600	2,580	2,160
California	500	440	360	3.50	3.70	3.90	1,750	1,628	1,404
Colorado	700	720	690	1.70	1.80	1.65	1,190	1,296	1,139
Connecticut	40	40	40	1.90	2.30	2.30	76	92	92
Delaware	12	10	9	3.20	3.00	2.40	38	30	22
Florida ¹	300	300	280	2.70	2.50	3.10	810	750	868
Georgia ¹	600	620	600	2.30	2.90	2.90	1,380	1,798	1,740
Idaho	330	370	290	2.20	2.40	2.10	726	888	609
Illinois	250	260	220	2.40	2.50	2.20	600	650	484
Indiana	290	290	270	3.10	2.30	2.45	899	667	662
Iowa	360	340	320	2.50	2.20	2.20	900	748	704
Kansas	1,900	1,900	1,750	1.70	1.80	1.50	3,230	3,420	2,625
Kentucky	2,100	1,940	1,750	2.40	2.35	2.65	5,040	4,559	4,638
Louisiana ¹	410	400	380	2.90	2.60	2.20	1,189	1,040	836
Maine	130	115	100	1.85	1.90	1.85	241	219	185
Maryland	180	155	155	2.40	2.40	2.40	432	372	372
Massachusetts	75	70	70	1.50	1.70	1.40	113	119	98
Michigan	230	260	220	1.90	1.55	1.80	437	403	396
Minnesota	520	490	500	2.00	1.80	2.05	1,040	882	1,025
Mississippi ¹	640	610	590	2.20	2.40	2.10	1,408	1,464	1,239
Missouri	2,600	2,700	2,800	2.05	1.95	1.70	5,330	5,265	4,760
Montana	800	850	1,000	1.75	1.50	1.70	1,400	1,275	1,700
Nebraska	1,600	1,650	1,850	1.55	1.55	1.80	2,480	2,558	3,330
Nevada	140	160	180	1.90	2.00	1.60	266	320	288
New Hampshire	50	40	35	2.00	1.80	1.70	100	72	60
New Jersey	103	95	105	1.70	2.10	1.80	175	200	189
New Mexico	85	95	90	1.70	2.00	2.00	145	190	180
New York	1,010	920	920	1.50	1.75	2.20	1,515	1,610	2,024
North Carolina	680	650	810	2.30	2.30	2.70	1,564	1,495	2,187
North Dakota	1,100	1,200	1,200	1.75	1.30	1.60	1,925	1,560	1,920
Ohio	600	610	620	2.05	2.05	2.05	1,230	1,251	1,271
Oklahoma	2,750	2,650	3,000	1.75	1.80	1.50	4,813	4,770	4,500
Oregon	710	665	580	2.70	2.00	2.30	1,917	1,330	1,334
Pennsylvania	950	990	890	2.15	2.40	2.10	2,043	2,376	1,869
Rhode Island	6	5	5	1.30	1.90	1.90	8	10	10
South Carolina ¹	320	300	270	2.10	2.60	2.50	672	780	675
South Dakota	1,350	1,400	1,500	1.50	1.35	1.35	2,025	1,890	2,025
Tennessee	1,800	1,650	1,700	2.15	2.25	2.45	3,870	3,713	4,165
Texas	4,500	4,400	4,600	2.45	2.05	1.65	11,025	9,020	7,590
Utah	160	155	150	2.20	2.10	2.30	352	326	345
Vermont	150	155	150	1.80	2.00	2.20	270	310	330
Virginia	1,150	1,130	1,100	2.30	2.25	2.20	2,645	2,543	2,420
Washington	410	350	410	2.70	2.70	2.90	1,107	945	1,189
West Virginia	570	550	520	1.80	1.75	1.70	1,026	963	884
Wisconsin	330	360	540	2.20	2.20	1.90	726	792	1,026
Wyoming	520	520	500	1.70	1.70	1.60	884	884	800
United States ²	36,156	35,770	36,231	2.09	2.02	1.96	75,481	72,395	70,966

¹ Alfalfa and alfalfa mixtures included in all other hay. ² Beginning in 2018, United States total includes data for Alaska. NASS, Crops Branch, (202) 720–2127.

Table 6-5.—Hay, all: Stocks on farms, United States, 2008–2018

Crop year	Dec. 1	May 1 ¹
2008		103,658
2009		107,222
2010		101,667
2011		89,723
2012		75,175
2013		89,304
2014		92,172
2015		94,928
2016		95,928
2017		89,422
2018		79,055

¹ Following year. NASS, Crops Branch, (202) 720–2127.

Table 6-6.—Hay, all: Marketing year average price and value of production, by State and United States, 2016–2018

State	Marketing year average price per ton, baled ¹			Value of production		
	2016	2017	2018 ²	2016	2017	2018 ²
	<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	110.00	98.00	95.00	187,110	210,700	226,100
Alaska ³	(NA)	(NA)	355.00	(NA)	(NA)	10,295
Arizona	153.00	172.00	209.00	399,432	445,368	488,622
Arkansas	102.00	100.00	108.00	267,720	257,488	234,816
California	149.00	168.00	191.00	1,005,200	1,067,060	1,076,226
Colorado	151.00	172.00	217.00	549,780	688,824	788,035
Connecticut	160.00	171.00	172.00	13,974	17,568	18,960
Delaware	169.00	153.00	168.00	8,770	7,656	5,650
Florida	160.00	157.00	153.00	129,600	117,750	132,804
Georgia	100.00	98.00	82.00	138,000	176,204	142,680
Idaho	131.00	138.00	152.00	673,596	717,832	769,440
Illinois	139.00	129.00	148.00	199,920	200,243	190,674
Indiana	155.00	157.00	154.00	265,826	237,369	211,026
Iowa	89.00	111.00	121.00	285,030	367,396	364,008
Kansas	90.50	111.00	150.00	524,970	536,256	627,410
Kentucky	133.00	131.00	162.00	673,120	624,019	764,622
Louisiana	97.00	95.00	102.00	115,333	98,800	85,272
Maine	135.00	151.00	133.00	35,400	33,395	28,121
Maryland	179.00	150.00	163.00	92,880	76,387	91,092
Massachusetts	185.00	159.00	182.00	23,250	18,696	21,662
Michigan	133.00	145.00	142.00	323,067	296,985	261,276
Minnesota	74.00	103.00	117.00	330,520	398,191	370,289
Mississippi	77.00	90.00	97.00	108,416	131,760	120,183
Missouri	95.50	99.50	117.00	542,688	566,775	617,112
Montana	132.00	141.00	145.00	658,800	665,430	799,160
Nebraska	77.00	91.00	105.00	432,560	526,475	696,390
Nevada	151.00	174.00	173.00	169,670	219,328	202,062
New Hampshire	179.00	153.00	114.00	19,636	10,080	8,103
New Jersey	191.00	127.00	186.00	36,778	31,240	41,032
New Mexico	162.00	178.00	229.00	164,365	201,780	211,080
New York	185.00	148.00	149.00	436,660	446,820	410,800
North Carolina	116.00	117.00	123.00	184,805	177,410	271,897
North Dakota	77.50	99.50	87.00	312,435	315,735	360,468
Ohio	137.00	138.00	155.00	348,752	339,865	351,447
Oklahoma	86.00	86.00	102.00	491,922	495,308	527,022
Oregon	164.00	170.00	196.00	636,207	560,952	595,192
Pennsylvania	178.00	164.00	177.00	551,718	616,101	491,118
Rhode Island	163.00	143.00	140.00	1,458	1,650	1,684
South Carolina	106.00	141.00	139.00	71,232	109,980	93,825
South Dakota	86.00	108.00	99.50	458,525	487,765	571,577
Tennessee	112.00	116.00	120.00	437,850	438,497	510,353
Texas	112.00	116.00	137.00	1,201,714	1,042,668	1,063,146
Utah	127.00	134.00	170.00	319,310	347,356	359,695
Vermont	132.00	137.00	138.00	45,900	48,244	50,412
Virginia	140.00	127.00	139.00	398,485	354,113	347,540
Washington	142.00	172.00	187.00	478,980	515,901	518,891
West Virginia	119.00	120.00	127.00	128,325	120,402	116,446
Wisconsin	85.00	111.00	144.00	332,582	396,066	414,873
Wyoming	119.00	140.00	164.00	264,992	347,152	387,596
United States ³	129.00	142.00	164.00	15,477,263	16,109,040	17,048,184

(NA) Not available. ¹ Baled hay. ² Preliminary. ³ Beginning in 2018, United States total includes data for Alaska. NASS, Crops Branch, (202) 720–2127.

Table 6-7.—Hay: Area and production, by type, United States, 2008–2018

Year	Area harvested			Production		
	Alfalfa	All other hay	All hay	Alfalfa	All other hay	All hay
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>1,000 tons</i>	<i>1,000 tons</i>	<i>1,000 tons</i>
2008	21,060	39,092	60,152	70,180	76,090	146,270
2009	21,247	38,528	59,775	71,072	76,628	147,700
2010	19,968	39,606	59,574	67,977	77,023	145,000
2011	19,044	36,160	55,204	64,815	65,065	129,880
2012	16,795	37,858	54,653	50,600	66,472	117,072
2013	17,699	40,274	57,973	57,307	77,891	135,198
2014	18,406	38,747	57,153	61,487	78,632	140,119
2015	17,810	36,719	54,529	59,060	75,608	134,668
2016	17,029	36,156	53,185	58,601	75,481	134,082
2017	17,007	35,770	52,777	55,812	72,395	128,207
2018	16,608	36,231	52,839	52,634	70,966	123,600

NASS, Crops Branch, (202) 720–2127.

Forage production is the sum of all dry hay production and haylage/greenchop production after converting the haylage/greenchop production to a dry equivalent basis (13 percent moisture) by multiplying the green weight (weight at harvest) by 0.4943. The conversion factor (0.4943) is based on the assumption that one ton of dry hay is 0.87 ton of dry matter, one ton of haylage is 0.45 ton dry matter and one ton of greenchop is 0.25 ton dry matter. The total haylage/greenchop production is assumed to be comprised of 90 percent haylage and 10 percent greenchop. Therefore, the conversion factor used to adjust haylage/greenchop production to a dry equivalent basis = $((0.45*0.9)+(0.25*0.1))/0.87 = 0.4943$. The factors assumed here may vary by State and can be adjusted. Adjustments would result in a slightly different conversion factor.

Table 6-8.—All forage: Area harvested, yield, and production, by State and 17 State total, 2016–2018 ¹

State	Area harvested			Yield		
	2016	2017	2018	2016	2017	2018
	1,000 acres	1,000 acres	1,000 acres	Tons	Tons	Tons
California	1,440	1,360	1,180	5.59	5.92	5.98
Idaho	1,385	1,495	1,380	4.26	3.74	4.00
Illinois	500	515	485	3.28	3.46	2.92
Iowa	1,010	1,120	995	3.71	3.23	3.31
Kansas	2,700	2,565	2,460	2.47	2.32	2.09
Michigan	1,080	1,050	1,010	3.26	2.86	2.70
Minnesota	1,835	1,550	1,380	3.19	2.97	2.73
Missouri	2,920	3,060	3,170	2.17	2.02	1.81
Nebraska	2,400	2,535	2,730	2.44	2.42	2.59
New York	1,850	1,800	1,740	2.25	2.73	3.01
Ohio	1,025	1,060	1,035	2.73	2.72	2.66
Pennsylvania	1,640	1,795	1,465	2.78	2.92	2.77
South Dakota	3,110	3,020	3,330	1.83	1.60	1.83
Texas	4,716	4,655	4,845	2.60	2.20	1.84
Vermont	310	290	295	2.72	3.47	3.76
Washington	870	815	830	4.23	4.35	4.07
Wisconsin	2,400	2,170	2,210	3.59	3.52	2.93
17 State Total	31,191	30,855	30,540	2.89	2.76	2.61
State	Production					
	2016	2017	2018			
	1,000 tons	1,000 tons	1,000 tons			
California	8,053	8,052	7,053			
Idaho	5,905	5,587	5,516			
Illinois	1,640	1,783	1,417			
Iowa	3,750	3,619	3,289			
Kansas	6,656	5,949	5,140			
Michigan	3,518	3,006	2,729			
Minnesota	5,852	4,587	3,763			
Missouri	6,342	6,193	5,737			
Nebraska	5,866	6,125	7,084			
New York	4,165	4,913	5,233			
Ohio	2,803	2,878	2,757			
Pennsylvania	4,556	5,242	4,065			
South Dakota	5,680	4,827	6,110			
Texas	12,257	10,236	8,910			
Vermont	844	1,006	1,110			
Washington	3,679	3,542	3,382			
Wisconsin	8,607	7,643	6,479			
17 State Total	90,173	85,198	79,774			

¹ All forage production is the sum of the following dry equivalents: alfalfa hay harvested as dry hay, all other hay harvested as dry hay, alfalfa haylage and greenchop, all other hay haylage and greenchop; after converting alfalfa and all other haylage and greenchop to a dry equivalent basis.

Table 6-9.—All alfalfa forage: Area harvested, yield, and production, by State and 17 State total, 2016–2018 ¹

State	Area harvested			Yield		
	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>
California	800	740	670	6.68	6.71	6.75
Idaho	1,030	1,090	1,080	4.90	4.18	4.43
Illinois	240	245	260	4.22	4.45	3.47
Iowa	620	770	655	4.38	3.67	3.84
Kansas	720	585	620	4.35	3.72	3.54
Michigan	830	780	780	3.64	3.23	2.94
Minnesota	1,285	1,040	850	3.67	3.52	3.13
Missouri	240	310	290	3.31	2.51	2.68
Nebraska	790	870	870	4.20	3.98	4.26
New York	650	700	650	3.16	3.73	3.95
Ohio	405	410	390	3.69	3.60	3.66
Pennsylvania	540	645	465	3.71	3.59	3.65
South Dakota	1,740	1,580	1,800	2.05	1.78	2.21
Texas	136	125	145	5.24	4.47	5.52
Vermont	50	50	45	5.06	4.24	4.27
Washington	440	425	355	5.33	5.32	4.72
Wisconsin	1,950	1,700	1,590	3.80	3.83	3.29
17 State Total	12,466	12,065	11,515	3.92	3.71	3.64
State	Production					
	2016	2017	2018			
	<i>1,000 tons</i>	<i>1,000 tons</i>	<i>1,000 tons</i>			
California	5,346	4,968	4,523			
Idaho	5,043	4,561	4,788			
Illinois	1,012	1,090	902			
Iowa	2,714	2,828	2,514			
Kansas	3,129	2,176	2,194			
Michigan	3,020	2,523	2,290			
Minnesota	4,715	3,665	2,657			
Missouri	795	779	778			
Nebraska	3,318	3,463	3,704			
New York	2,055	2,611	2,566			
Ohio	1,495	1,476	1,428			
Pennsylvania	2,002	2,316	1,698			
South Dakota	3,566	2,807	3,985			
Texas	713	559	801			
Vermont	253	212	192			
Washington	2,345	2,263	1,676			
Wisconsin	7,406	6,519	5,239			
17 State Total	48,927	44,816	41,935			

¹ All alfalfa forage production is the sum of alfalfa harvested as dry hay; and alfalfa haylage and greenchop production after converting it to a dry equivalent basis.
NASS, Crops Branch, (202) 720-2127.

Table 6-10.—All haylage and greenchop: Area harvested, yield, and production, by State and 17 State total, 2016–2018¹

State	Area harvested			Yield		
	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>
California	260	265	250	9.83	12.70	11.10
Idaho	125	100	105	12.60	9.30	9.57
Illinois	40	53	38	7.25	7.23	5.74
Iowa	135	100	80	8.10	7.12	7.36
Kansas	130	135	120	6.46	7.15	6.42
Michigan	285	275	285	8.24	7.48	6.51
Minnesota	390	250	220	7.32	6.48	6.31
Missouri	130	90	155	4.31	4.68	4.29
Nebraska	50	50	40	6.02	6.88	5.05
New York	680	660	710	5.59	6.94	7.09
Ohio	135	205	135	4.97	5.00	6.00
Pennsylvania	470	475	410	6.30	6.53	6.54
South Dakota	80	105	120	6.44	4.32	5.44
Texas	147	199	145	7.48	7.00	7.48
Vermont	170	180	185	5.94	7.22	8.14
Washington	67	125	119	10.13	9.20	10.50
Wisconsin	1,310	1,190	1,120	7.23	7.01	6.37
17 State Total	4,604	4,457	4,237	7.09	7.21	6.99

State	Production		
	2016	2017	2018
	<i>1,000 tons</i>	<i>1,000 tons</i>	<i>1,000 tons</i>
California	2,556	3,365	2,774
Idaho	1,575	930	1,005
Illinois	290	383	218
Iowa	1,093	712	589
Kansas	840	965	770
Michigan	2,348	2,057	1,856
Minnesota	2,856	1,620	1,388
Missouri	560	421	665
Nebraska	301	344	202
New York	3,804	4,578	5,035
Ohio	671	1,026	810
Pennsylvania	2,959	3,101	2,683
South Dakota	515	454	653
Texas	1,099	1,393	1,085
Vermont	1,010	1,300	1,505
Washington	679	1,150	1,249
Wisconsin	9,470	8,337	7,132
17 State Total	32,626	32,136	29,619

¹ Includes all types of forage harvested as haylage or greenchop (green weight). Forage harvested as dry hay and corn and sorghum silage/greenchop are not included.
 NASS, Crops Branch, (202) 720-2127.

Table 6-11.—Alfalfa haylage and greenchop: Area harvested, yield, and production, by State and 17 State total, 2016–2018

State	Area harvested			Yield		
	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>
California	100	70	80	6.20	6.00	6.20
Idaho	100	65	85	13.00	10.00	9.00
Illinois	25	33	24	9.30	9.00	6.50
Iowa	95	80	55	8.60	7.80	8.10
Kansas	30	25	20	8.00	10.00	6.00
Michigan	250	240	260	8.90	7.90	6.80
Minnesota	350	220	180	7.60	6.90	6.80
Missouri	20	20	35	6.00	6.00	7.50
Nebraska	25	20	25	6.50	6.70	4.00
New York	400	410	450	6.50	7.75	8.30
Ohio	90	120	90	5.70	6.00	7.70
Pennsylvania	275	265	250	7.00	7.50	6.70
South Dakota	50	50	75	6.70	3.80	6.00
Texas	7	9	5	7.00	7.00	7.00
Vermont	40	40	45	9.00	8.00	7.00
Washington	22	50	24	10.00	9.50	8.50
Wisconsin	1,150	1,050	1,000	7.40	7.30	6.70
17 State Total	3,029	2,767	2,703	7.56	7.41	7.08
State	Production					
	2016	2017	2018			
	<i>1,000 tons</i>	<i>1,000 tons</i>	<i>1,000 tons</i>			
California	620	420	496			
Idaho	1,300	650	765			
Illinois	233	297	156			
Iowa	817	624	446			
Kansas	240	250	120			
Michigan	2,225	1,896	1,768			
Minnesota	2,660	1,518	1,224			
Missouri	120	120	263			
Nebraska	163	134	100			
New York	2,600	3,178	3,735			
Ohio	513	720	693			
Pennsylvania	1,925	1,988	1,675			
South Dakota	335	190	450			
Texas	49	63	35			
Vermont	360	320	315			
Washington	220	475	204			
Wisconsin	8,510	7,665	6,700			
17 State Total	22,890	20,508	19,145			

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

Table 6-12.—Hay: Supply and disappearance, prices, and number of animal units fed annually, United States, 2009–2018¹

Year beginning May	Farm carryover May 1	Production	Total supply	Disappearance	Roughage-consuming animal units	Supply per animal unit	Disappearance per animal unit	Price received per ton
	Million tons	Million tons	Million tons	Million tons	Million tons	Tons	Tons	Dollars
2009 ²	22.1	146.6	170.0	148.8	70	2.41	2.11	108
2010	20.9	143.5	166.0	143.7	69	2.39	2.07	114
2011	22.2	140.3	152.2	130.7	68	2.24	1.92	178
2012	21.4	126.1	138.7	124.3	68	2.05	1.84	191
2013	14.2	132.7	149.5	130.0	67	2.24	1.95	176
2014	19.2	137.0	159.4	134.6	67	2.36	2.00	172
2015	24.5	134.5	159.3	133.9	69	2.29	1.93	145
2016	25.1	133.8	160.1	135.5	71	2.26	1.91	129
2017 .....	.....	.....	.....	.....	.....	.....	.....	142
2018 .....	.....	.....	.....	.....	.....	.....	.....	164

¹ Excludes trade. ² Beginning in 2009, supply includes imports. ERS, Market and Trade Economics Division, (202) 694-5313.

Table 6-13.—Field seeds: Average retail price paid by farmers for seed, Mar. 15, United States, 2005–2014¹

Kind of seed	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
	Price per 100 pounds									
	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars
Alfalfa:										
Public and common ...	177.00	181.00	201.00	246.00	262.00	273.00	284.00	308.00	316.00	326.00
Proprietary	281.00	286.00	292.00	342.00	379.00	379.00	411.00	442.00	456.00	469.00
Clover, ladino	280.00	306.00	316.00	344.00	394.00	349.00	321.00	337.00	348.00	356.00
Clover, red	174.00	177.00	202.00	241.00	289.00	213.00	200.00	218.00	226.00	231.00
Lespedeza:										
Korean	79.30	87.00	126.00	184.00	127.00	105.00	123.00	248.00	263.00	277.00
Striate, Kobe	83.10	89.50	113.00	263.00	198.00	141.00	128.00	280.00	298.00	317.00
Sericea	220.00	181.00	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)
Timothy	105.00	106.00	112.00	133.00	149.00	135.00	146.00	191.00	193.00	198.00
Orchardgrass	137.00	158.00	189.00	321.00	329.00	185.00	170.00	187.00	197.00	199.00
Bluegrass, Kentucky:										
Public and common ...	180.00	161.00	175.00	227.00	269.00	224.00	189.00	223.00	230.00	236.00
Proprietary, including										
Merion	235.00	224.00	232.00	251.00	326.00	284.00	259.00	260.00	266.00	270.00
Rye grass, annual	59.30	69.60	71.80	78.80	78.90	70.30	73.40	95.20	99.90	101.00
Tall fescue	100.00	124.00	146.00	158.00	143.00	99.00	102.00	146.00	147.00	150.00
Sudangrass	57.40	50.20	56.70	62.10	72.50	73.60	75.70	100.00	103.00	105.00
Potatoes	9.30	11.80	12.00	13.10	15.60	12.90	14.40	15.90	14.80	15.53
Peanuts	56.40	57.70	60.70	83.10	76.50	75.40	91.00	95.40	74.50	77.60
Sunflower	476.00	520.00	616.00	718.00	749.00	729.00	897.00	931.00	940.00	948.00
Cottonseed, all	309.00	356.00	408.00	455.00	521.00	570.00	684.00	702.00	735.00	734.00
Biotech ²	390.00	443.00	500.00	525.00	609.00	648.00	702.00	754.00	739.00	789.00
Non-biotech	110.00	118.00	97.10	88.50	113.00	130.00	242.00	249.00	323.00	331.00
Grain sorghum, hybrid ..	114.00	116.00	120.00	142.00	161.00	165.00	162.00	203.00	207.00	212.00
Rice	20.80	27.30	30.20	33.50	48.60	48.90	49.80	50.60	60.30	68.10
	Price per bushel									
	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars
Corn, hybrid, all ³	111.00	118.00	133.00	165.00	217.00	229.00	237.00	258.00	274.00	283.00
Biotech ^{2,3}	131.00	137.00	154.00	184.00	235.00	247.00	249.00	268.00	285.00	293.00
Non-biotech ³	93.40	95.10	100.00	115.00	139.00	152.00	163.00	182.00	197.00	197.00
Wheat, spring	7.30	7.60	8.40	20.50	11.80	10.00	14.20	15.20	15.60	16.20
Wheat, winter	9.06	9.32	10.60	14.80	16.00	13.70	15.40	17.50	18.00	18.40
Oats, spring	5.54	5.83	6.81	8.19	8.19	7.78	8.34	10.30	10.50	10.70
Barley, spring	6.72	6.58	7.18	10.10	9.78	8.52	10.30	13.10	13.90	13.90
Soybeans for seed, all ..	27.60	28.90	34.80	38.80	48.30	51.90	49.70	54.90	57.80	58.40
Biotech ²	34.60	34.10	36.70	40.00	49.60	53.50	51.00	55.90	59.10	59.80
Non-biotech	19.10	21.10	20.50	26.30	33.70	33.90	33.50	38.80	40.50	40.70
Flaxseed	14.40	8.80	9.73	19.80	13.80	13.80	19.10	17.50	19.00	19.50

Note: Surveys discontinued after 2014.
¹ Beginning in 2009 program changed from April 15 to March 15. ² Biotech varieties are made to be resistant to herbicides, insects, or both. A technology fee is included within the price. ³ Price per 80,000 kernels. ⁴ Estimate discontinued in 2007.
 NASS, Environmental, Economics, and Demographics Branch, (202) 720-6146.

Table 6-14.—Beans, dry edible (clean basis): Production, by classes, United States, 2016–2018 ¹

Class	2016	2017	2018
	1,000 cwt	1,000 cwt	1,000 cwt
Navy (pea beans)	3,516	4,161	4,085
Great northern	845	1,403	1,186
Small white	(²)	171	155
Pinto	9,638	13,617	8,792
Red kidney, light	462	899	901
Red kidney, dark	1,126	1,099	1,529
Pink	307	332	396
Small red	657	438	707
Cranberry	65	185	246
Black	4,360	5,120	5,195
Large lima	300	255	234
Baby lima	209	204	275
Blackeye	572	437	521
Small chickpeas (Garbanzo)	1,938	1,969	3,270
Large chickpeas (Garbanzo)	3,509	5,088	9,472
Chickpeas, all (Garbanzo)	5,447	7,057	12,742
Other ²	1,199	583	530
Total	28,703	35,961	37,494

¹ Excludes beans grown for garden seed. ² Data are included in "Other" class to avoid disclosing data for individual operations.
NASS, Crops Branch, (202) 720-2127.

Table 6-15.—Beans, dry edible: Area, yield, and production, by State and United States, 2016–2018 ¹

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
California	50.0	50.0	48.0	49.0	49.7	47.7
Colorado	46.0	58.0	42.0	42.5	54.5	31.5
Idaho	140.0	180.0	185.0	137.0	178.0	183.0
Michigan	210.0	220.0	195.0	208.0	218.5	193.0
Minnesota	155.0	170.0	175.0	147.0	163.0	168.0
Montana	103.0	275.0	395.0	99.5	265.0	386.0
Nebraska	138.0	180.0	140.0	122.0	155.0	131.0
North Dakota	625.0	705.0	635.0	565.0	685.0	615.0
Texas	29.0	22.0	18.0	24.0	20.0	16.0
Washington	135.0	196.0	218.0	133.0	195.0	217.0
Wyoming	33.0	41.0	30.0	31.1	39.0	27.8
United States	1,664.0	2,097.0	2,081.0	1,558.1	2,022.7	2,016.0
State	Yield per acre (clean basis) ²			Production (clean basis) ²		
	2016	2017	2018	2016	2017	2018
	Pounds	Pounds	Pounds	1,000 cwt	1,000 cwt	1,000 cwt
California	2,330	2,100	2,500	1,141	1,045	1,191
Colorado	1,750	2,000	2,120	742	1,092	668
Idaho	1,920	1,610	1,710	2,624	2,873	3,127
Michigan	1,920	2,010	2,400	4,002	4,394	4,635
Minnesota	2,230	2,190	2,360	3,279	3,567	3,964
Montana	1,620	1,000	1,350	1,613	2,643	5,214
Nebraska	2,270	2,520	2,480	2,766	3,901	3,249
North Dakota	1,580	1,810	1,760	8,908	12,392	10,806
Texas	1,100	1,100	1,100	264	220	176
Washington	1,980	1,490	1,780	2,631	2,901	3,857
Wyoming	2,360	2,390	2,180	733	933	607
United States	1,842	1,778	1,860	28,703	35,961	37,494

¹ Excludes beans grown for garden seed. ² Clean basis.
NASS, Crops Branch, (202) 720-2127.

Table 6-16.—Beans, dry edible: Area, yield, production, price, and value, United States, 2009–2018 ¹

Year	Area planted	Area harvested	Yield per acre ²	Production ²	Marketing year average price per 100 pounds 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	1,540.0	1,464.0	1,737	25,427	30.00	790,250
2010	1,911.4	1,842.7	1,726	31,801	28.00	899,258
2011	1,217.9	1,167.9	1,703	19,890	42.10	851,131
2012	1,742.5	1,690.4	1,889	31,925	38.00	1,235,255
2013	1,361.8	1,315.0	1,868	24,567	39.10	982,385
2014	1,703.1	1,648.6	1,754	28,910	32.30	980,622
2015	1,766.7	1,708.4	1,759	30,057	27.30	866,222
2016	1,664.0	1,558.1	1,842	28,703	29.20	863,431
2017	2,097.0	2,022.7	1,778	35,961	26.70	1,006,353
2018	2,081.0	2,016.0	1,860	37,494	26.80	978,076

¹ Excludes beans grown for garden seed. ² Clean basis. NASS, Crops Branch, (202) 720-2127.

Table 6-17.—Beans, dry edible (clean basis): Marketing year average price and value of production, by State and United States, 2016–2018 ¹

States	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>
California	63.10	61.20	61.30	71,997	63,954	73,008
Colorado	30.40	28.90	34.20	22,557	31,559	22,846
Idaho	27.30	27.80	23.40	71,635	79,869	73,172
Michigan	29.20	29.30	27.30	116,858	128,744	126,536
Minnesota	30.10	27.40	28.00	98,698	97,736	110,992
Montana	26.00	33.80	24.60	41,938	89,333	128,264
Nebraska	28.30	25.50	23.80	78,278	99,476	77,326
North Dakota	27.90	24.10	23.80	248,533	298,647	257,183
Texas	34.90	34.60	31.10	9,214	7,612	5,474
Washington	31.40	29.10	22.70	82,613	84,419	87,554
Wyoming	28.80	26.80	25.90	21,110	25,004	15,721
Other States ²	-	-	-	-	-	-
United States	29.20	26.70	26.80	863,431	1,006,353	978,076

- Represents zero. ¹ Preliminary. ² Includes data withheld above. NASS, Crops Branch, (202) 720-2127.

Table 6-18.—Beans, dry edible: Season average price¹ per 100 pounds, 2009–2018

Year beginning September	Lima	Garbanzo	Blackeye	Pinto	Great northern	Small red	Pea bean (Navy)	Black	Red kidney
<i>Dollars</i>									
2009	43.98	39.18	45.12	39.45	41.57	43.32	40.37	41.57	43.56
2010	40.13	49.69	42.47	36.08	41.81	47.74	41.94	41.81	48.25
2011	57.88	58.42	69.57	62.72	54.75	61.25	58.61	54.75	69.30
2012	48.14	52.32	54.75	45.54	53.96	53.36	45.57	53.96	63.32
2013	53.45	40.63	55.19	45.76	(NA)	52.17	55.25	(NA)	68.88
2014	56.50	38.54	70.00	32.41	48.46	55.10	38.85	48.46	64.84
2015	58.75	45.20	70.00	33.14	32.47	39.80	32.19	32.47	38.37
2016	50.49	47.98	56.86	38.34	40.53	38.00	38.72	40.53	45.04
2017	58.08	63.67	65.62	31.05	33.79	37.25	34.40	33.79	44.67
2018	58.61	28.50	64.16	28.86	36.47	38.38	33.43	36.47	49.00

(NA) Not available. ¹ Free-on-board (f.o.b.) dealer prices as reported by USDA, Bean Market News, ERS, Specialty Crops Branch, (202) 694-5253. Compiled from the Bean Market Summary, Agricultural Marketing Service, U.S. Department of Agriculture, Greeley, Colorado.

Table 6-19.—Beans, dry edible: United States exports to specified countries, 2016–2018¹

Country	2016	2017	2018
<i>Metric tons</i>			
Mexico	89,504	102,791	98,938
Canada	65,359	72,076	45,218
Italy(*)	25,944	47,082	38,875
United Kingdom	33,939	38,048	28,241
Dominican Republic	33,028	19,636	22,968
Colombia	9,804	6,348	9,759
Haiti	10,265	10,712	7,888
Japan	7,070	6,994	7,637
Panama	4,415	5,762	5,926
Guatemala	3,502	4,114	5,615
Spain	3,578	4,132	5,032
Australia(*)	5,127	6,382	4,846
France(*)	9,634	5,834	4,394
Germany(*)	2,573	2,701	4,009
Korea, South	1,705	5,877	3,901
El Salvador	2,959	3,043	3,850
Belgium-Luxembourg(*)	4,753	5,262	3,690
Peru	455	2,650	3,500
Netherlands	2,298	4,650	3,195
Jamaica	2,718	2,694	3,184
Costa Rica	3,221	7,630	2,476
Poland	751	1,398	2,397
United Arab Emirates	399	1,308	1,965
Philippines	822	864	1,710
Hungary	2,442	2,375	1,583
Chile	1,471	1,455	1,515
Vietnam	451	263	1,292
South Africa	6,094	2,839	1,245
Tanzania	2,060	0	1,157
French West Indies(*)	962	949	1,152
Rest of World	40,617	25,017	12,406
World Total	377,919	400,883	399,566

(*) Denotes a country that is a summarization of its component countries. ¹ Excluding seed bean exports. FAS, Office of Global Analysis, (202) 720-6301. Data Source: U.S. Census Bureau Trade Data.

Table 6-20.—Chickpeas & lentils, dried: United States exports by class and quantity, 2016–2018¹

Country	2016	2017	2018
	<i>Metric tons</i>		
Dried chickpeas:			
Spain	14,059	20,631	19,686
Canada	13,840	29,348	15,163
Pakistan	7,036	18,780	14,744
India	8,911	17,130	4,230
Portugal	1,828	2,835	3,206
Peru	4,878	3,317	1,771
Algeria	3,485	6,302	1,688
Italy(*)	4,714	5,863	1,663
Lebanon	3,312	3,197	1,515
Turkey	7,544	12,348	1,271
Jordan	501	1,446	1,180
United Kingdom	306	1,281	1,135
Sri Lanka	1,857	2,757	1,122
United Arab Emirates	3,729	7,600	1,041
France(*)	368	2,545	927
New Zealand(*)	1,060	667	760
Japan	553	530	652
Taiwan	598	419	554
Israel(*)	1,363	620	545
Korea, South	820	766	526
Philippines	911	341	500
Egypt	164	576	485
China	322	527	474
Belgium-Luxembourg(*)	409	2,264	472
Dominican Republic	188	150	432
Colombia	914	1,816	263
Costa Rica	91	86	185
Trinidad and Tobago	139	429	163
Netherlands	254	392	162
Hong Kong	129	153	159
Rest of World	1,975	3,831	831
World Total	86,256	148,947	77,503
Dried lentils:			
Spain	32,085	33,869	22,216
Sudan(*)	10,846	5,988	20,339
Canada	60,737	55,774	15,617
Mexico	19,758	23,171	11,707
Peru	13,561	18,431	9,534
Colombia	10,323	31,974	8,967
India	61,897	22,885	8,740
China	786	1,580	5,960
Benin	99	4,175	3,668
Italy(*)	9,122	5,913	2,862
Greece	2,106	3,106	2,427
Belgium-Luxembourg(*)	3,404	3,108	1,244
Pakistan	4,990	4,152	1,215
Thailand	14	1,081	1,035
Dominican Republic	1,797	992	918
Turkey	7,914	5,166	838
Germany(*)	448	2,255	837
French Pacific Islands(*)	803	545	524
Netherlands	1,532	1,591	515
Leeward-Windward Islands(*)	744	634	495
Korea, South	1,056	147	490
Philippines	677	240	486
United Arab Emirates	4,679	4,884	414
Ecuador	962	1,623	328
Bangladesh	0	92	276
France(*)	99	769	243
Algeria	1,542	1,635	240
Laos	0	170	240
Mali	206	220	219
Georgia	0	0	139
Rest of World	9,756	9,861	1,179
World Total	261,942	246,028	123,911

(*) Denotes a country that is a summarization of its component countries. ¹ Excluding seed pea exports. FAS, Office of Global Analysis, (202) 720-6301. Data Source: U.S. Census Bureau Trade Data.

Table 6-21.—Peas, dry: United States exports to specified countries, 2016–2018¹

Country	2016	2017	2018
	<i>Metric tons</i>		
Yemen(*)	11,489	35,712	31,888
Tanzania	4,326	10,233	31,029
Ethiopia(*)	57,480	36,511	26,761
Peru	9,448	16,587	17,666
Philippines	9,376	16,535	16,791
India	208,945	45,857	15,421
Canada	14,805	16,909	14,847
China	61,198	58,550	14,023
Djibouti	12,859	22,230	12,884
Kenya	7,196	14,591	11,730
Mexico	6,638	9,155	10,710
South Africa	5,736	12,950	7,297
Somalia	3,055	5,075	6,474
Cameroon	8,736	5,594	4,381
Taiwan	2,623	2,908	2,859
Saudi Arabia	2,663	47	2,657
Sudan(*)	1,795	6,493	2,507
Togo	3,825	1,492	1,994
Pakistan	14,923	1,894	1,340
Vietnam	644	625	935
Colombia	5,351	2,630	897
Thailand	334	904	701
Spain	2,806	896	641
Chile	89	547	577
Belgium-Luxembourg(*)	343	473	485
Bangladesh	730	540	460
Sri Lanka	957	448	457
Israel(*)	493	329	451
Cote d'Ivoire	447	447	450
Turkey	3,139	3,066	411
Rest of World	43,314	13,243	4,401
World Total	505,764	343,472	244,126

(*) Denotes a country that is a summarization of its component countries. ¹ Excluding seed pea exports.
 FAS, Office of Global Analysis, (202) 720-6301. Data Source: U.S. Census Bureau Trade Data.

Table 6-22.—Hops: Area, yield, production, price, value, and Sept. 1 stocks, United States, 2009–2018

Year	Area harvested	Yield per acre	Production	Marketing year average price per pound received by farmers	Value of production	Stocks Sept. 1	Stocks Mar. 1
	<i>1,000 acres</i>	<i>Pounds</i>	<i>1,000 pounds</i>	<i>Dollars per pound</i>	<i>1,000 dollars</i>	<i>1,000 pounds</i>	<i>1,000 pounds</i>
2009	39.7	2,383	94,678	3.57	337,874	65,000	82,000
2010	31.3	2,093	65,493	3.28	214,589	83,000	102,000
2011	29.8	2,175	64,782	3.14	203,378	87,000	121,000
2012	29.7	1,985	58,911	3.17	186,876	96,000	120,000
2013	35.3	1,962	69,246	3.35	232,308	(NA)	115,000
2014	38.0	1,868	70,996	3.67	260,627	90,000	121,000
2015	43.6	1,807	78,846	4.38	345,388	83,000	119,000
2016	50.9	1,713	87,140	5.72	498,420	85,000	128,000
2017	53.9	1,956	105,622	5.60	591,375	98,000	140,000
2018	55.0	1,943	106,907	5.46	583,444	113,000	169,000

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

Table 6-23.—Hops: 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
	<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 pounds</i>	<i>1,000 pounds</i>	<i>1,000 pounds</i>
Idaho	5,648	7,125	8,140	1,646	1,974	1,995	9,297.7	14,067.3	16,242.8
Oregon	7,765	8,216	7,725	1,596	1,518	1,675	12,395.3	12,470.4	12,936.2
Washington	37,444	38,648	39,170	1,748	2,046	1,984	65,446.6	79,083.8	77,727.7
United States ...	50,857	53,989	55,035	1,713	1,956	1,943	87,139.6	105,621.5	106,906.7

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

Table 6-24.—Hops: Marketing year average price and value of production, by State and United States, 2016–2018

State	Marketing year average price per pound			Value of production		
	2016	2017	2018	2016	2017	2018
	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>
Idaho	5.50	5.00	5.30	51,137	70,337	86,087
Oregon	5.25	5.00	5.40	65,075	62,352	69,855
Washington	5.84	5.80	5.50	382,208	458,686	427,502
United States ...	5.72	5.60	5.46	498,420	591,375	583,444

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

Table 6-25.—Hops: United States exports by country of destination and imports by country of origin, 2016–2018

Country	2016	2017	2018
	<i>Metric tons</i>		
Belgium-Luxembourg(*)	1,212	1,636	2,519
United Kingdom	2,971	3,392	2,092
Germany(*)	1,233	1,284	1,754
Canada	1,402	1,386	1,748
Brazil	802	1,001	1,489
China	669	764	1,472
Mexico	918	822	923
Australia(*)	460	595	869
Argentina	227	542	593
Colombia	619	678	593
Japan	694	609	448
Vietnam	107	135	270
Korea, South	190	385	254
Peru	239	293	251
Philippines	231	97	190
Chile	91	44	155
Hong Kong	278	125	125
India	97	64	124
South Africa	102	107	113
New Zealand(*)	64	88	100
Russia	223	188	98
Ecuador	67	64	97
Dominican Republic	115	115	96
Panama	20	55	69
Guatemala	69	45	48
Venezuela	48	20	43
Taiwan	7	3	34
Turkey	13	21	32
Bolivia	35	28	29
Angola	0	1	26
Rest of World	488	566	406
World Total	13,692	15,152	17,058

(*) Denotes a country that is a summarization of its component countries.
 FAS, Office of Global Analysis, (202) 720-6301. Data Source: U.S. Census Bureau Trade Data