Crop Production

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Special Note

Each October, NASS considers revisions to planted and harvested acreage for canola, corn, dry edible beans, sorghum, soybeans, sugarbeets, and sunflower. Updates are based on all available data, including the latest certified acreage data from the Farm Service Agency (FSA). All States in the estimating program for these crops were subject to review and updating. NASS previously reviewed corn, sorghum, soybeans, and sugarbeets in September due to the completeness of this season's data for these crops and published updates at that time. No additional changes were made for corn, sorghum, or soybeans this month. Detailed estimates are found on pages 6, 9, 11, 14, 17, 22, and 23.

Corn Production Up Slightly from September Forecast
Soybean Production Up 2 Percent
Cotton Production Down 3 Percent
Orange Production Down 12 Percent from Last Season

Corn production for grain is forecast at 15.0 billion bushels, up slightly from the previous forecast and up 6 percent from 2020. Based on conditions as of October 1, yields are expected to average 176.5 bushels per harvested acre, up 0.2 bushel from the previous forecast and up 5.1 bushels from last year. After a thorough review of all available data, acreage estimates are unchanged from last month. Total planted area, at 93.3 million acres, is unchanged from the previous estimate, but up 3 percent from the previous year. Area harvested for grain, forecast at 85.1 million acres, is unchanged from the previous forecast but up 3 percent from the previous year.

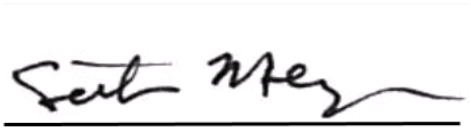
Soybean production for beans is forecast at a record 4.45 billion bushels, up 2 percent from the previous forecast and up 5 percent from 2020. Based on conditions as of October 1, yields are expected to average 51.5 bushels per harvested acre, up 0.9 bushel from the previous forecast and up 0.5 bushel from 2020. After a thorough review of all available data acreage estimates are unchanged from last month. Total planted area, at 87.2 million acres, is unchanged from the previous estimate, but up 5 percent from the previous year. Area harvested for beans, forecast at 86.4 million acres, is unchanged from the previous forecast but up 5 percent from the previous year.

All cotton production is forecast at 18.0 million 480-pound bales, down 3 percent from the previous forecast, but up 23 percent from 2020. Based on conditions as of October 1, yields are expected to average 871 pounds per harvested acre, down 24 pounds from the previous forecast but up 24 pounds from 2020. Upland cotton production is forecast at 17.7 million 480-pound bales, down 3 percent from the previous forecast but up 26 percent from 2020. Pima cotton production is forecast at 353,000 bales, up 5 percent from the previous forecast but down 35 percent from 2020. All cotton area harvested is forecast at 9.92 million acres, unchanged from the previous forecast, but up 20 percent from 2020.

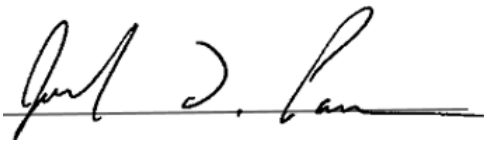
The United States all orange forecast for the 2021-2022 season is 3.88 million tons, down 12 percent from the 2020-2021 final utilization. The Florida all orange forecast, at 47.0 million boxes (2.12 million tons), is down 11 percent from last season's final utilization. In Florida, early, midseason, and Navel varieties are forecast at 19.0 million boxes (855,000 tons), down 16 percent from last season's final utilization. The Florida Valencia orange forecast, at 28.0 million boxes (1.26 million tons), is down 7 percent from last season's final utilization.

The California all orange forecast is 43.5 million boxes (1.74 million tons), down 13 percent from the last season's final utilization. The California Navel orange forecast is 35.0 million boxes (1.40 million tons), down 14 percent from the last season's final utilization. The California Valencia orange forecast is 8.50 million boxes (340,000 tons), down 11 percent from last season's final utilization. The Texas all orange forecast, at 550,000 boxes (23,000 tons), down 48 percent from last season's final utilization.

This report was approved on October 12, 2021.



Secretary of Agriculture
Designate
Seth Meyer



Agricultural Statistics Board
Chairperson
Joseph L. Parsons

Contents

Corn Area Planted for All Purposes and Harvested for Grain, Yield, and Production – States and United States: 2020 - 2021

[Includes updates to planted and harvested area previously published]

State	Area planted for all purposes		Area harvested for grain	
	2020	2021	2020	2021 [1]
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Alabama	330	350	320	340
Arizona	75	95	29	34
Arkansas	620	850	605	830
California	440	450	60	95
Colorado	1,420	1,390	1,060	1,110
Connecticut [2]	24	26	(NA)	(NA)
Delaware	180	175	176	170
Florida	100	100	61	60
Georgia	420	480	390	440
Idaho	390	380	130	105
Illinois	11,300	11,000	11,100	10,800
Indiana	5,400	5,400	5,250	5,250
Iowa	13,600	12,900	12,900	12,450
Kansas	6,100	5,700	5,720	5,300
Kentucky	1,470	1,550	1,360	1,450
Louisiana	500	580	485	565
Maine [2]	30	31	(NA)	(NA)
Maryland	480	470	430	390
Massachusetts [2]	14	14	(NA)	(NA)
Michigan	2,350	2,350	1,990	1,970
Minnesota	8,000	8,300	7,510	7,800
Mississippi	510	730	490	700
Missouri	3,450	3,650	3,280	3,380
Montana	115	120	61	68
Nebraska	10,200	9,900	9,890	9,600
Nevada [2]	13	12	(NA)	(NA)
New Hampshire [2]	13	13	(NA)	(NA)
New Jersey	80	90	73	80
New Mexico	125	115	37	36
New York	1,030	1,050	500	500
North Carolina	990	960	940	910
North Dakota	1,950	4,100	1,780	3,820
Ohio	3,550	3,600	3,300	3,380
Oklahoma	360	340	320	300
Oregon	100	90	65	45
Pennsylvania	1,500	1,330	1,000	870
Rhode Island [2]	2	2	(NA)	(NA)
South Carolina	390	420	370	390
South Dakota	4,900	6,100	4,450	5,650
Tennessee	860	1,040	815	970
Texas	2,250	2,100	1,810	1,700
Utah	85	75	29	22
Vermont [2]	85	85	(NA)	(NA)
Virginia	560	540	420	390
Washington	195	160	85	75
West Virginia	51	51	38	38
Wisconsin	3,950	3,950	2,930	2,940
Wyoming	95	90	54	62
United States	90,652	93,304	82,313	85,085

(NA) Not available.

[1] Forecasted.

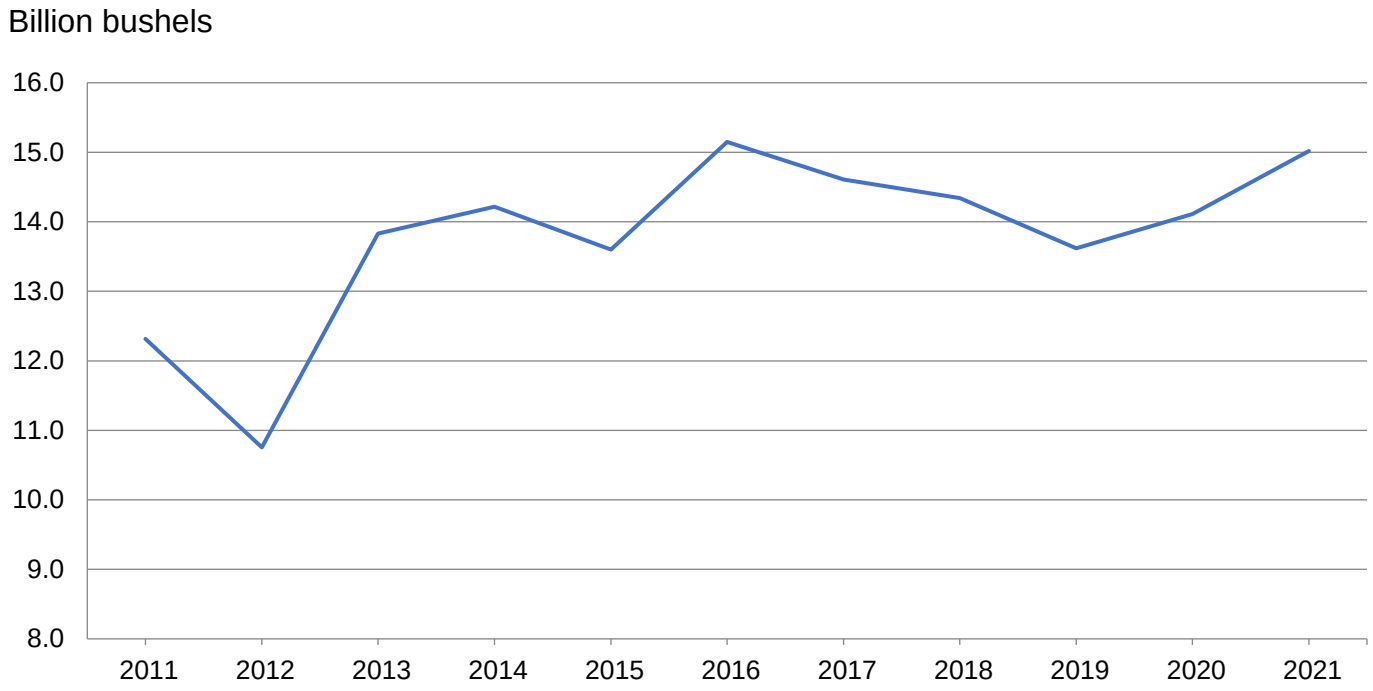
[2] Area harvested for grain not estimated.

Corn for Grain Area Harvested, Yield, and Production – States and United States: 2020 and Forecasted October 1, 2021

State	Area harvested		Yield per acre			Production	
	2020	2021	2020	2021		2020	2021
				September 1	October 1		
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Alabama	320	340	158.0	166.0	162.0	50,560	55,080
Arkansas	605	830	184.0	182.0	184.0	111,320	152,720
California	60	95	187.0	195.0	195.0	11,220	18,525
Colorado	1,060	1,110	116.0	132.0	134.0	122,960	148,740
Delaware	176	170	160.0	163.0	170.0	28,160	28,900
Georgia	390	440	180.0	172.0	176.0	70,200	77,440
Idaho	130	105	199.0	209.0	214.0	25,870	22,470
Illinois	11,100	10,800	191.0	214.0	210.0	2,120,100	2,268,000
Indiana	5,250	5,250	187.0	197.0	194.0	981,750	1,018,500
Iowa	12,900	12,450	177.0	198.0	201.0	2,283,300	2,502,450
Kansas	5,720	5,300	134.0	138.0	140.0	766,480	742,000
Kentucky	1,360	1,450	184.0	185.0	185.0	250,240	268,250
Louisiana	485	565	181.0	179.0	181.0	87,785	102,265
Maryland	430	390	155.0	162.0	166.0	66,650	64,740
Michigan	1,990	1,970	153.0	174.0	171.0	304,470	336,870
Minnesota	7,510	7,800	191.0	174.0	178.0	1,434,410	1,388,400
Mississippi	490	700	180.0	187.0	186.0	88,200	130,200
Missouri	3,280	3,380	171.0	169.0	164.0	560,880	554,320
Nebraska	9,890	9,600	180.0	188.0	190.0	1,780,200	1,824,000
New York	500	500	157.0	167.0	167.0	78,500	83,500
North Carolina	940	910	113.0	142.0	146.0	106,220	132,860
North Dakota	1,780	3,820	139.0	108.0	107.0	247,420	408,740
Ohio	3,300	3,380	171.0	190.0	188.0	564,300	635,440
Oklahoma	320	300	135.0	150.0	150.0	43,200	45,000
Pennsylvania	1,000	870	138.0	167.0	169.0	138,000	147,030
South Carolina	370	390	132.0	134.0	136.0	48,840	53,040
South Dakota	4,450	5,650	162.0	133.0	133.0	720,900	751,450
Tennessee	815	970	170.0	172.0	170.0	138,550	164,900
Texas	1,810	1,700	128.0	140.0	140.0	231,680	238,000
Virginia	420	390	122.0	149.0	155.0	51,240	60,450
Washington	85	75	228.0	215.0	225.0	19,380	16,875
Wisconsin	2,930	2,940	173.0	172.0	172.0	506,890	505,680
Other States [1]	447	445	160.1	159.3	161.1	71,574	71,707
United States	82,313	85,085	171.4	176.3	176.5	14,111,449	15,018,542

[1] Other States include Arizona, Florida, Montana, New Jersey, New Mexico, Oregon, Utah, West Virginia, and Wyoming. Individual State level estimates will be published in the *Crop Production 2021 Summary.*

Corn Production – United States



Sorghum Area Planted for All Purpose and Harvested for Grain – States and United States: 2020 and 2021

[Includes updates to planted and harvested area previously published]

State	Area planted		Area harvested	
	2020	2021	2020	2021 [1]
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Colorado	370	500	255	435
Kansas	3,000	3,600	2,800	3,350
Nebraska	195	320	150	265
Oklahoma	305	430	230	355
South Dakota	210	340	160	285
Texas	1,800	2,150	1,500	1,830
United States	5,880	7,340	5,095	6,520

[1] Forecasted.

Sorghum for Grain Area Harvested, Yield, and Production – States and United States: 2020 and Forecasted October 1, 2021

State	Area harvested		Yield per acre			Production	
	2020	2021	2020	2021		2020	2021
				September 1	October 1		
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Colorado	255	435	20.0	48.0	45.0	5,100	19,575
Kansas	2,800	3,350	85.0	75.0	80.0	238,000	268,000
Nebraska	150	265	91.0	84.0	81.0	13,650	21,465
Oklahoma	230	355	45.0	58.0	62.0	10,350	22,010
South Dakota	160	285	71.0	65.0	56.0	11,360	15,960
Texas	1,500	1,830	63.0	66.0	68.0	94,500	124,440
United States	5,095	6,520	73.2	69.7	72.3	372,960	471,450

Rice Area Harvested, Yield, and Production – States and United States: 2020 and Forecasted October 1, 2021

State	Area harvested		Yield per acre			Production [1]	
	2020	2021	2020	2021		2020	2021
				September 1	October 1		
	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)
Arkansas	1,441	1,198	7,500	7,500	7,500	108,107	89,850
California	514	405	8,720	8,800	8,900	44,810	36,045
Louisiana	474	413	6,820	6,850	6,900	32,306	28,497
Mississippi	165	101	7,420	7,400	7,400	12,241	7,474
Missouri	214	194	7,250	8,000	8,000	15,522	15,520
Texas	179	188	8,150	7,300	7,000	14,597	13,160
United States	2,987	2,499	7,619	7,623	7,625	227,583	190,546

[1] Includes sweet rice production.

Rice Production by Class – United States: 2020 and Forecasted October 1, 2021

Year	Long grain	Medium grain	Short grain [1]	All
	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
2020	170,853	53,920	2,810	227,583
2021 [2]	144,254	43,741	2,551	190,546

[1] Sweet rice production included with short grain.
[2] The 2021 rice production by class forecasts are based on class harvested acreage estimates and the 5-year average class yield compared to the all rice yield.

Soybeans for Beans Area Planted and Harvested – States and United States: 2020 and 2021

[Includes updates to planted and harvested area previously published]

State	Area planted		Area harvested	
	2020	2021	2020	2021 [1]
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Alabama	280	310	275	305
Arkansas	2,820	3,050	2,800	3,010
Delaware	150	155	148	153
Georgia	100	140	95	130
Illinois	10,300	10,600	10,250	10,550
Indiana	5,750	5,700	5,730	5,690
Iowa	9,450	10,100	9,370	10,020
Kansas	4,800	4,850	4,750	4,800
Kentucky	1,850	1,800	1,840	1,790
Louisiana	1,050	1,080	1,020	1,050
Maryland	485	490	465	480
Michigan	2,200	2,150	2,190	2,140
Minnesota	7,450	7,700	7,380	7,630
Mississippi	2,090	2,230	2,060	2,190
Missouri	5,850	5,700	5,810	5,650
Nebraska	5,200	5,600	5,160	5,550
New Jersey	94	100	93	98
New York	315	325	312	320
North Carolina	1,600	1,650	1,570	1,630
North Dakota	5,750	7,300	5,700	7,250
Ohio	4,950	4,850	4,920	4,830
Oklahoma	560	575	540	550
Pennsylvania	640	580	630	570
South Carolina	310	390	295	370
South Dakota	4,950	5,500	4,920	5,450
Tennessee	1,650	1,500	1,620	1,470
Texas	120	110	110	100
Virginia	570	600	560	590
Wisconsin	2,020	2,100	1,990	2,070
United States	83,354	87,235	82,603	86,436

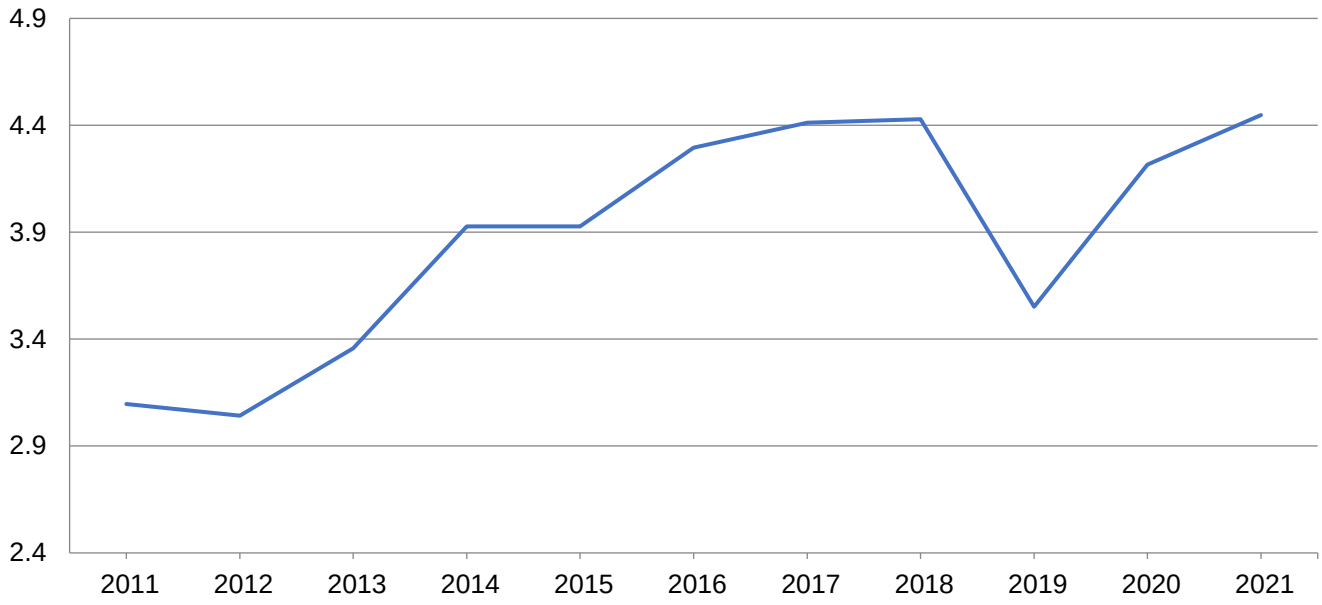
[1] Forecasted.

Soybeans for Beans Area Harvested, Yield, and Production – States and United States: 2020 and Forecasted October 1, 2021

State	Area harvested		Yield per acre			Production	
	2020	2021	2020	2021		2020	2021
				September 1	October 1		
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Alabama	275	305	41.0	44.0	44.0	11,275	13,420
Arkansas	2,800	3,010	51.5	50.0	50.0	144,200	150,500
Delaware	148	153	49.0	49.0	49.0	7,252	7,497
Georgia	95	130	41.0	42.0	43.0	3,895	5,590
Illinois	10,250	10,550	60.0	64.0	64.0	615,000	675,200
Indiana	5,730	5,690	59.0	60.0	60.0	338,070	341,400
Iowa	9,370	10,020	54.0	59.0	61.0	505,980	611,220
Kansas	4,750	4,800	41.0	40.0	42.0	194,750	201,600
Kentucky	1,840	1,790	55.0	55.0	55.0	101,200	98,450
Louisiana	1,020	1,050	53.0	55.0	54.0	54,060	56,700
Maryland	465	480	47.0	51.0	51.0	21,855	24,480
Michigan	2,190	2,140	48.0	50.0	50.0	105,120	107,000
Minnesota	7,380	7,630	50.0	47.0	49.0	369,000	373,870
Mississippi	2,060	2,190	54.0	56.0	54.0	111,240	118,260
Missouri	5,810	5,650	51.0	51.0	50.0	296,310	282,500
Nebraska	5,160	5,550	58.0	59.0	61.0	299,280	338,550
New Jersey	93	98	46.0	40.0	42.0	4,278	4,116
New York	312	320	51.0	53.0	53.0	15,912	16,960
North Carolina	1,570	1,630	38.0	39.0	39.0	59,660	63,570
North Dakota	5,700	7,250	34.0	25.0	26.0	193,800	188,500
Ohio	4,920	4,830	55.0	58.0	58.0	270,600	280,140
Oklahoma	540	550	30.0	30.0	28.0	16,200	15,400
Pennsylvania	630	570	46.0	52.0	52.0	28,980	29,640
South Carolina	295	370	35.0	33.0	33.0	10,325	12,210
South Dakota	4,920	5,450	46.0	38.0	40.0	226,320	218,000
Tennessee	1,620	1,470	50.0	48.0	49.0	81,000	72,030
Texas	110	100	34.0	35.0	35.0	3,740	3,500
Virginia	560	590	42.0	44.0	44.0	23,520	25,960
Wisconsin	1,990	2,070	52.0	49.0	54.0	103,480	111,780
United States	82,603	86,436	51.0	50.6	51.5	4,216,302	4,448,043

Soybean Production – United States

Billion bushels



Sunflower Area Planted and Harvested by Type – States and United States: 2020 and 2021

[Includes updates to planted and harvested area previously published]

Varietal type and State	Area planted		Area harvested	
	2020	2021	2020	2021 [1]
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Oil				
California	43.0	45.0	42.5	44.5
Colorado	42.0	42.0	32.0	37.0
Kansas	54.0	25.0	52.0	24.0
Minnesota	68.0	54.0	67.0	52.0
Nebraska	40.0	35.0	39.0	33.0
North Dakota	640.0	455.0	630.0	440.0
South Dakota	570.0	485.0	560.0	465.0
Texas	33.0	33.0	30.0	30.0
United States	1,490.0	1,174.0	1,452.5	1,125.5
Non-oil				
California	1.6	1.0	1.6	1.0
Colorado	18.0	12.0	17.0	11.0
Kansas	19.0	4.5	18.0	4.0
Minnesota	5.5	3.0	5.0	2.7
Nebraska	10.0	6.5	9.0	6.0
North Dakota	93.0	34.0	85.0	32.0
South Dakota	52.0	39.0	51.0	36.0
Texas	30.0	6.0	27.0	5.0
United States	229.1	106.0	213.6	97.7
All				
California	44.6	46.0	44.1	45.5
Colorado	60.0	54.0	49.0	48.0
Kansas	73.0	29.5	70.0	28.0
Minnesota	73.5	57.0	72.0	54.7
Nebraska	50.0	41.5	48.0	39.0
North Dakota	733.0	489.0	715.0	472.0
South Dakota	622.0	524.0	611.0	501.0
Texas	63.0	39.0	57.0	35.0
United States	1,719.1	1,280.0	1,666.1	1,223.2

[1] Forecasted.

Sunflower Area Harvested, Yield, and Production by Type – States and United States: 2020 and Forecasted October 1, 2021

[Blank data cells indicate estimation period has not yet begun]

Varietal type and State	Area harvested		Yield per acre		Production	
	2020	2021	2020	2021 [1]	2020	2021 [1]
	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)
Oil						
California	42.5	44.5	1,300		55,250	
Colorado	32.0	37.0	830		26,560	
Kansas	52.0	24.0	1,470		76,440	
Minnesota	67.0	52.0	1,920		128,640	
Nebraska	39.0	33.0	1,050		40,950	
North Dakota	630.0	440.0	1,880		1,184,400	
South Dakota	560.0	465.0	1,900		1,064,000	
Texas	30.0	30.0	1,370		41,100	
United States	1,452.5	1,125.5	1,802		2,617,340	
Non-oil						
California	1.6	1.0	1,200		1,920	
Colorado	17.0	11.0	1,150		19,550	
Kansas	18.0	4.0	1,450		26,100	
Minnesota	5.0	2.7	1,800		9,000	
Nebraska	9.0	6.0	1,470		13,230	
North Dakota	85.0	32.0	1,810		153,850	
South Dakota	51.0	36.0	2,020		103,020	
Texas	27.0	5.0	1,440		38,880	
United States	213.6	97.7	1,711		365,550	
All						
California	44.1	45.5	1,296	1,489	57,170	67,750
Colorado	49.0	48.0	941	1,049	46,110	50,370
Kansas	70.0	28.0	1,465	1,497	102,540	41,920
Minnesota	72.0	54.7	1,912	2,090	137,640	114,330
Nebraska	48.0	39.0	1,129	688	54,180	26,850
North Dakota	715.0	472.0	1,872	1,600	1,338,250	755,200
South Dakota	611.0	501.0	1,910	1,582	1,167,020	792,600
Texas	57.0	35.0	1,403	1,483	79,980	51,900
United States	1,666.1	1,223.2	1,790	1,554	2,982,890	1,900,920

[1] 2021 yield and production estimates for oil and non-oil varieties will be published in the *Crop Production 2021 Summary.*

Peanut Area Planted and Harvested, Yield, and Production – States and United States: 2020 and Forecasted October 1, 2021

State	Area planted		Area harvested	
	2020	2021	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Alabama	185.0	185.0	183.0	182.0
Arkansas	39.0	36.0	38.0	35.0
Florida	175.0	170.0	166.0	160.0
Georgia	810.0	760.0	805.0	750.0
Mississippi	23.0	18.0	22.0	17.0
New Mexico	6.5	11.0	5.2	11.0
North Carolina	107.0	115.0	105.0	113.0
Oklahoma	15.0	16.0	14.0	15.0
South Carolina	84.0	69.0	80.0	66.0
Texas	190.0	170.0	170.0	155.0
Virginia	28.0	30.0	27.0	29.0
United States	1,662.5	1,580.0	1,615.2	1,533.0

State	Yield per acre			Production	
	2020	2021		2020	2021
		September 1	October 1		
	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)
Alabama	3,400	4,000	3,600	622,200	655,200
Arkansas	4,800	5,000	5,000	182,400	175,000
Florida	3,400	3,900	3,700	564,400	592,000
Georgia	4,120	4,400	4,400	3,316,600	3,300,000
Mississippi	4,400	4,100	4,100	96,800	69,700
New Mexico	2,850	3,100	3,100	14,820	34,100
North Carolina	3,900	3,900	4,000	409,500	452,000
Oklahoma	4,220	4,000	4,000	59,080	60,000
South Carolina	3,700	4,000	4,100	296,000	270,600
Texas	2,850	3,350	3,550	484,500	550,250
Virginia	4,150	4,600	4,600	112,050	133,400
United States	3,813	4,141	4,105	6,158,350	6,292,250

Canola Area Planted and Harvested – States and United States: 2020 and 2021

[Includes updates to planted and harvested area previously published]

State	Area planted		Area harvested	
	2020	2021	2020	2021 [1]
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Kansas	5.0	7.0	2.8	6.5
Minnesota	50.0	63.0	48.0	61.0
Montana	155.0	185.0	149.0	176.0
North Dakota	1,510.0	1,750.0	1,490.0	1,720.0
Oklahoma	11.0	12.0	7.0	10.0
Washington	93.0	135.0	91.0	131.0
United States	1,824.0	2,152.0	1,787.8	2,104.5

[1] Forecasted.

Canola Area Harvested, Yield, and Production – States and United States: 2020 and Forecasted October 1, 2021

State	Area harvested		Yield per acre		Production	
	2020	2021	2020	2021	2020	2021
	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)
Kansas	2.8	6.5	1,790	1,000	5,012	6,500
Minnesota	48.0	61.0	1,570	1,740	75,360	106,140
Montana	149.0	176.0	1,620	900	241,380	158,400
North Dakota	1,490.0	1,720.0	1,960	1,100	2,920,400	1,892,000
Oklahoma	7.0	10.0	1,530	1,550	10,710	15,500
Washington	91.0	131.0	2,200	1,340	200,200	175,540
United States	1,787.8	2,104.5	1,931	1,119	3,453,062	2,354,080

Cotton Area Harvested, Yield, and Production by Type – States and United States: 2020 and Forecasted October 1, 2021

Type and State	Area harvested		Yield per acre			Production [1]	
	2020	2021	2020	2021		2020	2021
				September 1	October 1		
	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(pounds)	(1,000 bales) [2]	(1,000 bales) [2]
Upland							
Alabama	446.0	400.0	790	924	906	734.0	755.0
Arizona	123.0	119.0	1,179	1,250	1,258	302.0	312.0
Arkansas	520.0	470.0	1,179	1,174	1,226	1,277.0	1,200.0
California	33.5	24.5	2,006	1,900	1,900	140.0	97.0
Florida	93.0	89.0	532	809	782	103.0	145.0
Georgia	1,180.0	1,160.0	887	910	931	2,180.0	2,250.0
Kansas	184.0	101.0	783	1,069	998	300.0	210.0
Louisiana	165.0	105.0	986	1,097	1,006	339.0	220.0
Mississippi	525.0	430.0	1,079	1,150	1,150	1,180.0	1,030.0
Missouri	287.0	310.0	1,144	1,316	1,285	684.0	830.0
New Mexico	26.0	28.0	1,052	977	977	57.0	57.0
North Carolina	330.0	350.0	759	809	864	522.0	630.0
Oklahoma	435.0	415.0	702	856	879	636.0	760.0
South Carolina	179.0	205.0	802	948	925	299.0	395.0
Tennessee	275.0	270.0	1,066	1,049	1,067	611.0	600.0
Texas	3,200.0	5,250.0	686	786	731	4,570.0	8,000.0
Virginia	79.0	73.0	772	1,118	1,052	127.0	160.0
United States	8,080.5	9,799.5	835	890	865	14,061.0	17,651.0
American Pima							
Arizona	6.5	9.0	1,034	853	853	14.0	16.0
California	146.0	85.0	1,562	1,519	1,609	475.0	285.0
New Mexico	10.5	12.2	663	787	787	14.5	20.0
Texas	31.0	16.0	666	900	960	43.0	32.0
United States	194.0	122.2	1,352	1,316	1,387	546.5	353.0
All							
Alabama	446.0	400.0	790	924	906	734.0	755.0
Arizona	129.5	128.0	1,171	1,223	1,230	316.0	328.0
Arkansas	520.0	470.0	1,179	1,174	1,226	1,277.0	1,200.0
California	179.5	109.5	1,645	1,604	1,675	615.0	382.0
Florida	93.0	89.0	532	809	782	103.0	145.0
Georgia	1,180.0	1,160.0	887	910	931	2,180.0	2,250.0
Kansas	184.0	101.0	783	1,069	998	300.0	210.0
Louisiana	165.0	105.0	986	1,097	1,006	339.0	220.0
Mississippi	525.0	430.0	1,079	1,150	1,150	1,180.0	1,030.0
Missouri	287.0	310.0	1,144	1,316	1,285	684.0	830.0
New Mexico	36.5	40.2	940	919	919	71.5	77.0
North Carolina	330.0	350.0	759	809	864	522.0	630.0
Oklahoma	435.0	415.0	702	856	879	636.0	760.0
South Carolina	179.0	205.0	802	948	925	299.0	395.0
Tennessee	275.0	270.0	1,066	1,049	1,067	611.0	600.0
Texas	3,231.0	5,266.0	685	787	732	4,613.0	8,032.0
Virginia	79.0	73.0	772	1,118	1,052	127.0	160.0
United States	8,274.5	9,921.7	847	895	871	14,607.5	18,004.0

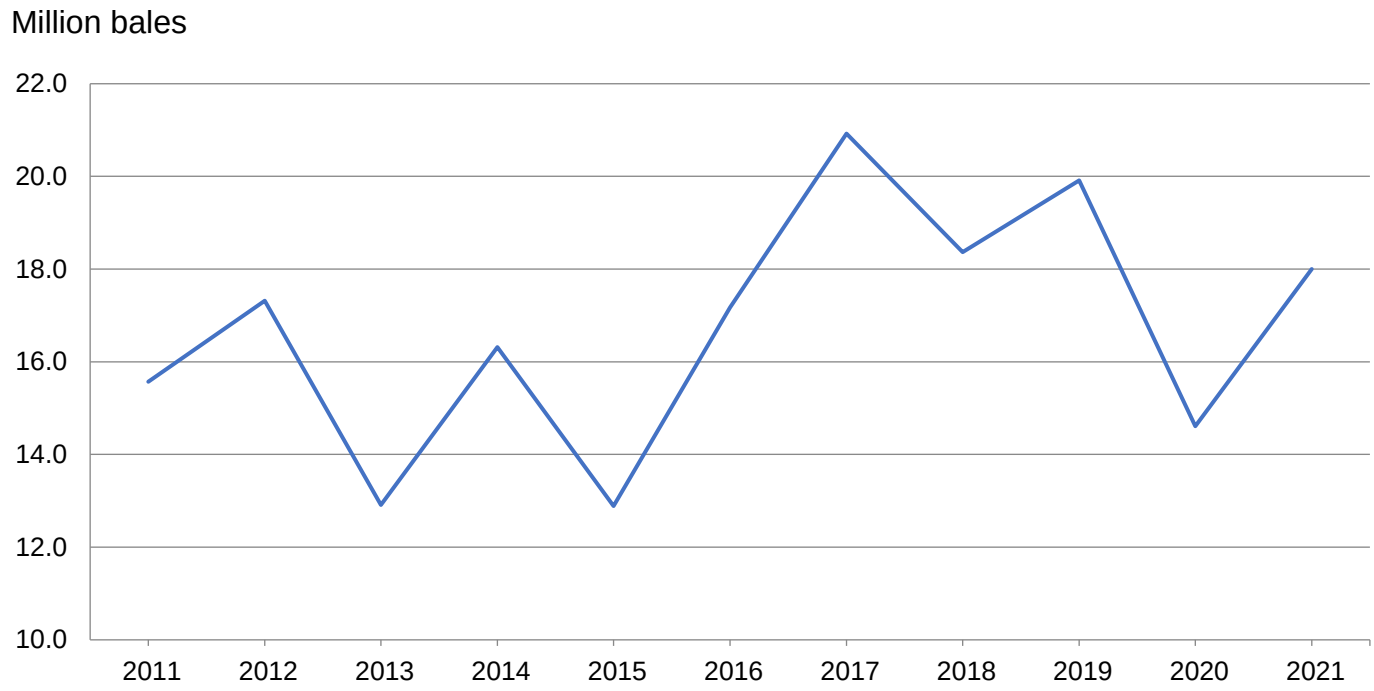
[1] Production ginned and to be ginned.
[2] 480-pound net weight bale.

Cottonseed Production – United States: 2020 and Forecasted October 1, 2021

State	Production	
	2020	2021 [1]
	(1,000 tons)	(1,000 tons)
United States	4,509.0	5,491.0

[1] Based on a 3-year average lint-seed ratio.

Cotton Production - United States



Alfalfa and Alfalfa Mixtures for Hay Area Harvested, Yield, and Production – States and United States: 2020 and Forecasted October 1, 2021

State	Area harvested		Yield per acre		Production	
	2020	2021	2020	2021	2020	2021
	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(1,000 tons)	(1,000 tons)
Arizona	260	275	8.50	9.00	2,210	2,475
California	475	580	7.20	6.50	3,420	3,770
Colorado	700	730	3.40	4.50	2,380	3,285
Idaho	1,010	1,010	4.50	4.10	4,545	4,141
Illinois	220	180	3.90	3.50	858	630
Indiana	220	250	2.90	3.00	638	750
Iowa	830	790	3.50	3.60	2,905	2,844
Kansas	540	590	3.70	4.10	1,998	2,419
Kentucky	145	135	3.50	3.80	508	513
Michigan	550	560	2.80	2.70	1,540	1,512
Minnesota	740	750	3.60	2.30	2,664	1,725
Missouri	220	220	2.70	2.40	594	528
Montana	1,900	1,850	2.20	1.20	4,180	2,220
Nebraska	860	960	3.80	3.90	3,268	3,744
Nevada	175	260	4.40	4.30	770	1,118
New Mexico	130	135	5.30	5.10	689	689
New York	300	280	1.90	2.40	570	672
North Dakota	1,220	1,250	1.80	0.90	2,196	1,125
Ohio	300	300	2.90	3.00	870	900
Oklahoma	190	160	3.60	3.00	684	480
Oregon	360	380	4.60	4.20	1,656	1,596
Pennsylvania	395	350	3.00	3.00	1,185	1,050
South Dakota	1,800	1,600	1.80	1.30	3,240	2,080
Texas	110	140	4.90	5.00	539	700
Utah	550	490	3.80	3.70	2,090	1,813
Virginia	35	38	3.60	3.10	126	118
Washington	410	420	4.40	4.30	1,804	1,806
Wisconsin	840	850	3.20	2.30	2,688	1,955
Wyoming	610	450	3.10	2.50	1,891	1,125
Other States [1]	135	140	2.67	2.66	361	373
United States	16,230	16,123	3.27	2.99	53,067	48,156

[1] Other States include Arkansas, Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, North Carolina, Rhode Island, Tennessee, Vermont, and West Virginia. Individual State level estimates will be published in the *Crop Production 2021 Summary.*

All Other Hay Area Harvested, Yield, and Production – States and United States: 2020 and Forecasted October 1, 2021

State	Area harvested		Yield per acre		Production	
	2020	2021	2020	2021	2020	2021
	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(1,000 tons)	(1,000 tons)
Alabama [1]	750	750	3.10	3.70	2,325	2,775
Arkansas	1,270	1,290	2.10	1.80	2,667	2,322
California	350	335	3.40	3.40	1,190	1,139
Colorado	680	680	1.35	1.80	918	1,224
Georgia [1]	570	560	3.00	2.60	1,710	1,456
Idaho	290	280	2.50	1.70	725	476
Illinois	270	240	2.30	2.40	621	576
Indiana	280	280	2.30	2.00	644	560
Iowa	330	360	2.40	2.30	792	828
Kansas	2,050	1,750	1.90	1.80	3,895	3,150
Kentucky	2,050	2,100	2.40	2.40	4,920	5,040
Louisiana [1]	400	390	2.40	2.20	960	858
Michigan	230	230	2.00	2.20	460	506
Minnesota	490	480	1.80	1.70	882	816
Mississippi [1]	650	630	2.50	2.10	1,625	1,323
Missouri	2,850	2,900	2.05	2.00	5,843	5,800
Montana	960	970	1.80	1.20	1,728	1,164
Nebraska	1,880	1,550	1.65	1.60	3,102	2,480
New York	760	850	1.50	2.00	1,140	1,700
North Carolina	660	640	2.40	2.50	1,584	1,600
North Dakota	1,000	1,150	1.40	1.10	1,400	1,265
Ohio	560	570	2.20	2.40	1,232	1,368
Oklahoma	2,600	2,600	1.80	1.80	4,680	4,680
Oregon	600	540	2.20	2.20	1,320	1,188
Pennsylvania	960	860	2.20	2.40	2,112	2,064
South Dakota	1,250	1,150	1.70	1.10	2,125	1,265
Tennessee	1,730	1,710	2.35	2.15	4,066	3,677
Texas	4,900	5,000	1.85	2.40	9,065	12,000
Virginia	1,100	1,150	2.35	2.10	2,585	2,415
Washington	280	350	2.90	2.30	812	805
West Virginia	530	540	1.90	1.75	1,007	945
Wisconsin	530	370	1.50	1.30	795	481
Wyoming	470	490	1.70	1.40	799	686
Other States [2]	1,728	1,669	2.32	2.21	4,016	3,694
United States	36,008	35,414	2.05	2.04	73,745	72,326

[1] Alfalfa and alfalfa mixtures included in all other hay.
[2] Other States include Alaska, Arizona, Connecticut, Delaware, Florida, Maine, Maryland, Massachusetts, Nevada, New Hampshire, New Jersey, New Mexico, Rhode Island, South Carolina, Utah, and Vermont. Individual State level estimates will be published in the *Crop Production 2021 Summary.*

Sugarbeet Area Planted and Harvested – States and United States: 2020 and 2021

[Includes updates to planted and harvested area previously published]

State	Area planted		Area harvested	
	2020	2021	2020	2021 [1]
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
California	24.0	24.0	23.9	23.8
Colorado	24.2	24.2	23.7	23.7
Idaho	172.0	173.0	169.0	170.0
Michigan	157.0	154.0	154.0	152.0
Minnesota	432.0	428.0	427.0	426.0
Montana	43.6	44.0	38.0	43.5
Nebraska	46.2	44.0	45.7	43.6
North Dakota	221.0	226.0	219.0	224.0
Oregon	9.4	10.4	9.4	10.3
Washington	1.8	1.9	1.8	1.9
Wyoming	31.0	32.0	30.8	31.7
United States	1,162.2	1,161.5	1,142.3	1,150.5

[1] Forecasted.

Sugarbeet Area Harvested, Yield, and Production – States and United States: 2020 and Forecasted October 1, 2021

[Relates to year of intended harvest in all States except California]

State	Area harvested		Yield per acre			Production	
	2020	2021	2020	2021		2020	2021
				September 1	October 1		
	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)	(1,000 tons)	(1,000 tons)
California [1]	23.9	23.8	45.5	45.5	45.5	1,087	1,083
Colorado	23.7	23.7	31.3	32.8	32.8	742	777
Idaho	169.0	170.0	40.5	41.1	41.1	6,845	6,987
Michigan	154.0	152.0	28.3	31.6	31.3	4,358	4,758
Minnesota	427.0	426.0	26.1	26.6	28.1	11,145	11,971
Montana	38.0	43.5	31.3	31.6	31.6	1,189	1,375
Nebraska	45.7	43.6	31.0	29.7	29.7	1,417	1,295
North Dakota	219.0	224.0	24.9	25.0	26.9	5,453	6,026
Oregon	9.4	10.3	40.9	40.3	40.3	384	415
Washington	1.8	1.9	47.8	47.8	47.8	86	91
Wyoming	30.8	31.7	29.6	28.6	28.3	912	897
United States	1,142.3	1,150.5	29.4	30.1	31.0	33,618	35,675

[1] Relates to year of planting for overwintered beets in southern California.

Sugarcane for Sugar and Seed Area Harvested, Yield, and Production – States and United States: 2020 and Forecasted October 1, 2021

State	Area harvested		Yield per acre [1]			Production [1]	
	2020	2021	2020	2021		2020	2021
				September 1	October 1		
	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)	(1,000 tons)	(1,000 tons)
Florida	423.3	406.0	44.4	42.7	42.7	18,795	17,336
Louisiana	488.4	490.0	33.1	33.2	32.2	16,167	15,778
Texas	35.9	36.0	31.7	32.5	32.8	1,138	1,181
United States	947.6	932.0	38.1	37.3	36.8	36,100	34,295

[1] Net tons.

Dry Edible Bean Area Planted and Harvested – States and United States: 2020 and 2021

[Includes updates to planted and harvested area previously published. Excludes beans grown for garden seed and chickpeas]

State	Area planted		Area harvested	
	2020	2021	2020	2021 [1]
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
California	29.0	15.0	29.0	15.0
Colorado	58.0	33.0	52.0	30.0
Idaho	68.0	57.0	66.0	55.0
Michigan	260.0	210.0	258.0	208.0
Minnesota	275.0	240.0	263.0	229.0
Nebraska	165.0	120.0	159.0	108.0
North Dakota	815.0	665.0	785.0	640.0
Washington	41.0	42.0	40.0	41.0
Wyoming	29.0	17.0	24.5	15.0
United States	1,740.0	1,399.0	1,676.5	1,341.0

[1] Forecasted.

Dry Edible Bean Area Harvested, Yield, and Production – States and United States: 2020 and Forecasted October 1, 2021

[Excludes beans grown for garden seed and chickpeas]

State	Area harvested		Yield per acre [1]		Production [1]	
	2020	2021	2020	2021	2020	2021
	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)
California	29.0	15.0	2,400	2,400	695	360
Colorado	52.0	30.0	2,060	1,940	1,069	582
Idaho	66.0	55.0	2,410	2,900	1,592	1,595
Michigan	258.0	208.0	2,340	2,600	6,033	5,408
Minnesota	263.0	229.0	2,100	1,950	5,525	4,466
Nebraska	159.0	108.0	2,270	2,580	3,607	2,786
North Dakota	785.0	640.0	1,630	930	12,794	5,952
Washington	40.0	41.0	2,800	2,700	1,120	1,107
Wyoming	24.5	15.0	2,160	2,350	528	353
United States	1,676.5	1,341.0	1,966	1,686	32,963	22,609

[1] Clean basis.

Tobacco Area Harvested, Yield, and Production – States and United States: 2020 and Forecasted October 1, 2021

State	Area harvested		Yield per acre			Production	
	2020	2021	2020	2021		2020	2021
				September 1	October 1		
	(acres)	(acres)	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)
Georgia	7,900	8,000	2,440	2,000	2,000	19,276	16,000
Kentucky	51,400	50,800	2,086	2,280	2,222	107,235	112,880
North Carolina	102,310	120,290	1,800	1,999	1,999	184,127	240,493
Pennsylvania	5,500	5,500	2,444	2,581	2,584	13,440	14,210
South Carolina	6,000	7,600	1,400	2,000	2,100	8,400	15,960
Tennessee	12,300	13,400	2,389	2,375	2,364	29,380	31,680
Virginia	12,650	15,610	2,178	1,993	2,089	27,555	32,612
United States	198,060	221,200	1,966	2,102	2,097	389,413	463,835

Tobacco Area Harvested, Yield, and Production by Class and Type – States and United States: 2020 and Forecasted October 1, 2021

Class, type, and State	Area harvested		Yield per acre			Production	
	2020	2021	2020	2021		2020	2021
				September 1	October 1		
	(acres)	(acres)	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)
Class 1, Flue-cured (11-14)							
Georgia	7,900	8,000	2,440	2,000	2,000	19,276	16,000
North Carolina	102,000	120,000	1,800	2,000	2,000	183,600	240,000
South Carolina	6,000	7,600	1,400	2,000	2,100	8,400	15,960
Virginia	12,000	15,000	2,200	2,000	2,100	26,400	31,500
United States	127,900	150,600	1,858	2,000	2,015	237,676	303,460
Class 2, Fire-cured (21-23)							
Kentucky	8,300	8,700	2,500	3,300	3,500	20,750	30,450
Tennessee	5,800	6,100	2,850	3,000	3,000	16,530	18,300
Virginia	250	250	1,900	2,000	2,000	475	500
United States	14,350	15,050	2,631	3,157	3,272	37,755	49,250
Class 3A, Light air-cured							
Type 31, Burley							
Kentucky	37,000	36,000	1,950	2,000	1,900	72,150	68,400
North Carolina	310	290	1,700	1,700	1,700	527	493
Pennsylvania	2,800	2,800	2,500	2,700	2,650	7,000	7,420
Tennessee	2,800	3,000	1,550	1,500	1,450	4,340	4,350
Virginia	400	360	1,700	1,700	1,700	680	612
United States	43,310	42,450	1,956	2,006	1,915	84,697	81,275
Type 32, Southern Maryland Belt							
Pennsylvania	400	400	2,300	2,500	2,600	920	1,040
United States	400	400	2,300	2,500	2,600	920	1,040
Total light air-cured (31-32)	43,710	42,850	1,959	2,011	1,921	85,617	82,315
Class 3B, Dark air-cured (35-37)							
Kentucky	6,100	6,100	2,350	2,500	2,300	14,335	14,030
Tennessee	3,700	4,300	2,300	2,100	2,100	8,510	9,030
United States	9,800	10,400	2,331	2,344	2,217	22,845	23,060
Class 4, Cigar filler							
Type 41, Pennsylvania Seedleaf							
Pennsylvania	2,300	2,300	2,400	2,450	2,500	5,520	5,750
United States	2,300	2,300	2,400	2,450	2,500	5,520	5,750
All tobacco							
United States	198,060	221,200	1,966	2,102	2,097	389,413	463,835

Utilized Production of Citrus Fruits by Crop – States and United States: 2020-2021 and Forecasted October 1, 2021

[The crop year begins with the bloom of the first year shown and ends with the completion of harvest the following year]

Crop and State	Utilized production boxes [1]		Utilized production ton equivalent	
	2020-2021	2021-2022	2020-2021	2021-2022
	(1,000 boxes)	(1,000 boxes)	(1,000 tons)	(1,000 tons)
Oranges				
California, all	50,100	43,500	2,004	1,740
Early, mid, and Navel [2]	40,600	35,000	1,624	1,400
Valencia	9,500	8,500	380	340
Florida, all	52,800	47,000	2,377	2,115
Early, mid, and Navel [2]	22,700	19,000	1,022	855
Valencia	30,100	28,000	1,355	1,260
Texas, all	1,050	550	45	23
Early, mid, and Navel [2]	1,000	450	43	19
Valencia	50	100	2	4
United States, all	103,950	91,050	4,426	3,878
Early, mid, and Navel [2]	64,300	54,450	2,689	2,274
Valencia	39,650	36,600	1,737	1,604
Grapefruit				
California	3,900	3,900	156	156
Florida, all	4,100	3,800	174	162
Texas	2,400	3,100	96	124
United States	10,400	10,800	426	442
Tangerines and mandarins [3]				
California	28,100	21,000	1,124	840
Florida	890	900	42	43
United States	28,990	21,900	1,166	883
Lemons				
Arizona	800	1,300	32	52
California	21,300	21,000	852	840
United States	22,100	22,300	884	892

[1] Net pounds per box: oranges in California-80, Florida-90, Texas-85; grapefruit in California-80, Florida-85, Texas-80; tangerines and mandarins in California-80, Florida-95; lemons-80.

[2] Navel and miscellaneous varieties in California. Early (including Navel) and midseason varieties in Florida and Texas.

[3] Includes tangelos and tangors.

Pecan Production by Variety – States and United States: 2020 and Forecasted October 1, 2021

State and variety	Utilized production (in-shell basis)	
	2020	2021
	(1,000 pounds)	(1,000 pounds)
Arizona	29,500	39,000
Improved	29,500	39,000
Georgia	147,500	91,000
Improved	147,500	91,000
New Mexico	78,800	89,000
Improved	78,800	89,000
Oklahoma	6,960	10,000
Improved	2,230	4,000
Native and seedling	4,730	6,000
Texas	42,600	29,000
Improved	34,300	24,700
Native and seedling	8,300	4,300
United States	305,360	258,000
Improved	292,330	247,700
Native and seedling	13,030	10,300

Crop Area Planted and Harvested, Yield, and Production in Domestic Units – United States: 2020 and 2021

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2021 crop year. Blank data cells indicate estimation period has not yet begun]

Crop	Area planted		Area harvested	
	2020	2021	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Grains and hay				
Barley	2,726	2,660	2,214	1,948
Corn for grain [1]	90,652	93,304	82,313	85,085
Corn for silage	(NA)		6,711	
Hay, all	(NA)	(NA)	52,238	51,537
Alfalfa	(NA)	(NA)	16,230	16,123
All other	(NA)	(NA)	36,008	35,414
Oats	3,009	2,550	1,009	650
Proso millet	609	600	484	
Rice	3,036	2,541	2,987	2,499
Rye	1,955	2,133	330	294
Sorghum for grain [1]	5,880	7,340	5,095	6,520
Sorghum for silage	(NA)		239	
Wheat, all	44,450	46,703	36,789	37,163
Winter	30,450	33,648	23,029	25,464
Durum	1,690	1,635	1,665	1,534
Other spring	12,310	11,420	12,095	10,165
Oilseeds				
Canola	1,824.0	2,152.0	1,787.8	2,104.5
Cottonseed	(X)	(X)	(X)	(X)
Flaxseed	305	390	296	366
Mustard seed	97.0	88.0	91.4	84.0
Peanuts	1,662.5	1,580.0	1,615.2	1,533.0
Rapeseed	11.2	15.5	10.1	14.5
Safflower	136.0	135.0	126.7	127.5
Soybeans for beans	83,354	87,235	82,603	86,436
Sunflower	1,719.1	1,280.0	1,666.1	1,223.2
Cotton, tobacco, and sugar crops				
Cotton, all	12,092.0	11,190.5	8,274.5	9,921.7
Upland	11,890.0	11,066.0	8,080.5	9,799.5
American Pima	202.0	124.5	194.0	122.2
Sugarbeets	1,162.2	1,161.5	1,142.3	1,150.5
Sugarcane	(NA)	(NA)	947.6	932.0
Tobacco	(NA)	(NA)	198.1	221.2
Dry beans, peas, and lentils				
Chickpeas	269.8	376.3	262.9	367.6
Dry edible beans	1,740.0	1,399.0	1,676.5	1,341.0
Dry edible peas	999.0	970.0	973.0	919.0
Lentils	528.0	711.0	514.0	667.0
Potatoes and miscellaneous				
Hops	(NA)	(NA)	58.6	60.8
Maple syrup	(NA)	(NA)	(NA)	(NA)
Mushrooms	(NA)	(NA)	(NA)	(NA)
Peppermint oil	(NA)		50.1	
Potatoes	918.5	943.0	911.7	935.2
Spearmint oil	(NA)		17.7	

See footnote(s) at end of table.

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Crop Area Planted and Harvested, Yield, and Production in Domestic Units – United States: 2020 and 2021 (continued)

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2021 crop year. Blank data cells indicate estimation period has not yet begun]

Crop		Yield per acre		Production	
		2020	2021	2020	2021
				(1,000)	(1,000)
Grains and hay					
Barley	bushels	77.2	60.4	170,813	117,673
Corn for grain	bushels	171.4	176.5	14,111,449	15,018,542
Corn for silage	tons	20.5		137,675	
Hay, all	tons	2.43	2.34	126,812	120,482
Alfalfa	tons	3.27	2.99	53,067	48,156
All other	tons	2.05	2.04	73,745	72,326
Oats	bushels	65.1	61.3	65,694	39,836
Proso millet	bushels	19.0		9,210	
Rice [2]	cwt	7,619	7,625	227,583	190,546
Rye	bushels	34.9	33.4	11,532	9,808
Sorghum for grain	bushels	73.2	72.3	372,960	471,450
Sorghum for silage	tons	13.1		3,125	
Wheat, all	bushels	49.7	44.3	1,828,043	1,645,764
Winter	bushels	50.9	50.2	1,171,397	1,277,365
Durum	bushels	41.5	24.3	69,141	37,259
Other spring	bushels	48.6	32.6	587,505	331,140
Oilseeds					
Canola	pounds	1,931	1,119	3,453,062	2,354,080
Cottonseed	tons	(X)	(X)	4,509.0	5,491.0
Flaxseed	bushels	19.3		5,706	
Mustard seed	pounds	895		81,770	
Peanuts	pounds	3,813	4,105	6,158,350	6,292,250
Rapeseed	pounds	1,971		19,910	
Safflower	pounds	1,167		147,800	
Soybeans for beans	bushels	51.0	51.5	4,216,302	4,448,043
Sunflower	pounds	1,790	1,554	2,982,890	1,900,920
Cotton, tobacco, and sugar crops					
Cotton, all [2]	bales	847	871	14,607.5	18,004.0
Upland [2]	bales	835	865	14,061.0	17,651.0
American Pima [2]	bales	1,352	1,387	546.5	353.0
Sugarbeets	tons	29.4	31.0	33,618	35,675
Sugarcane	tons	38.1	36.8	36,100	34,295
Tobacco	pounds	1,966	2,097	389,413	463,835
Dry beans, peas, and lentils					
Chickpeas [2]	cwt	1,625	825	4,273	3,033
Dry edible beans [2]	cwt	1,966	1,686	32,963	22,609
Dry edible peas [2]	cwt	2,234	1,322	21,733	12,150
Lentils [2]	cwt	1,442	763	7,411	5,090
Potatoes and miscellaneous					
Hops	pounds	1,770	1,924	103,810.3	116,880.0
Maple syrup	gallons	(NA)	(NA)	4,111	3,424
Mushrooms	pounds	(NA)	(NA)	816,367	757,987
Peppermint oil	pounds	99		4,984	
Potatoes	cwt	461		420,020	
Spearmint oil	pounds	121		2,134	

(NA) Not available.
(X) Not applicable.
[1] Area planted for all purposes.
[2] Yield in pounds.

Crop Area Planted and Harvested, Yield, and Production in Metric Units – United States: 2020 and 2021

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2021 crop year. Blank data cells indicate estimation period has not yet begun]

Crop	Area planted		Area harvested	
	2020	2021	2020	2021
	(hectares)	(hectares)	(hectares)	(hectares)
Grains and hay				
Barley	1,103,180	1,076,480	895,980	788,340
Corn for grain [1]	36,685,960	37,759,200	33,311,250	34,433,050
Corn for silage	(NA)		2,715,870	
Hay, all [2]	(NA)	(NA)	21,140,200	20,856,510
Alfalfa	(NA)	(NA)	6,568,120	6,524,820
All other	(NA)	(NA)	14,572,080	14,331,690
Oats	1,217,710	1,031,960	408,330	263,050
Proso millet	246,460	242,810	195,870	
Rice	1,228,640	1,028,320	1,208,810	1,011,320
Rye	791,170	863,200	133,550	118,980
Sorghum for grain [1]	2,379,580	2,970,420	2,061,900	2,638,580
Sorghum for silage	(NA)		96,720	
Wheat, all [2]	17,988,470	18,900,240	14,888,140	15,039,490
Winter	12,322,810	13,617,010	9,319,610	10,305,030
Durum	683,930	661,670	673,810	620,790
Other spring	4,981,730	4,621,560	4,894,730	4,113,670
Oilseeds				
Canola	738,150	870,890	723,500	851,670
Cottonseed	(X)	(X)	(X)	(X)
Flaxseed	123,430	157,830	119,790	148,120
Mustard seed	39,250	35,610	36,990	33,990
Peanuts	672,800	639,410	653,660	620,390
Rapeseed	4,530	6,270	4,090	5,870
Safflower	55,040	54,630	51,270	51,600
Soybeans for beans	33,732,530	35,303,130	33,428,610	34,979,780
Sunflower	695,700	518,000	674,250	495,020
Cotton, tobacco, and sugar crops				
Cotton, all [2]	4,893,510	4,528,680	3,348,610	4,015,210
Upland	4,811,760	4,478,300	3,270,100	3,965,760
American Pima	81,750	50,380	78,510	49,450
Sugarbeets	470,330	470,050	462,280	465,600
Sugarcane	(NA)	(NA)	383,480	377,170
Tobacco	(NA)	(NA)	80,150	89,520
Dry beans, peas, and lentils				
Chickpeas	109,190	152,280	106,390	148,760
Dry edible beans	704,160	566,160	678,460	542,690
Dry edible peas	404,290	392,550	393,760	371,910
Lentils	213,680	287,730	208,010	269,930
Potatoes and miscellaneous				
Hops	(NA)	(NA)	23,730	24,580
Maple syrup	(NA)	(NA)	(NA)	(NA)
Mushrooms	(NA)	(NA)	(NA)	(NA)
Peppermint oil	(NA)		20,270	
Potatoes	371,710	381,620	368,960	378,470
Spearmint oil	(NA)		7,160	

See footnote(s) at end of table.

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Crop Area Planted and Harvested, Yield, and Production in Metric Units – United States: 2020 and 2021 (continued)

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2021 crop year. Blank data cells indicate estimation period has not yet begun]

Crop	Yield per hectare		Production	
	2020	2021	2020	2021
	(metric tons)	(metric tons)	(metric tons)	(metric tons)
Grains and hay				
Barley	4.15	3.25	3,719,010	2,562,030
Corn for grain	10.76	11.08	358,447,310	381,488,540
Corn for silage	45.99		124,896,660	
Hay, all [2]	5.44	5.24	115,041,910	109,299,430
Alfalfa	7.33	6.70	48,141,570	43,686,390
All other	4.59	4.58	66,900,340	65,613,040
Oats	2.34	2.20	953,550	578,220
Proso millet	1.07		208,880	
Rice	8.54	8.55	10,322,990	8,643,020
Rye	2.19	2.09	292,930	249,130
Sorghum for grain	4.59	4.54	9,473,620	11,975,380
Sorghum for silage	29.31		2,834,950	
Wheat, all [2]	3.34	2.98	49,751,180	44,790,360
Winter	3.42	3.37	31,880,200	34,764,180
Durum	2.79	1.63	1,881,710	1,014,020
Other spring	3.27	2.19	15,989,270	9,012,150
Oilseeds				
Canola	2.16	1.25	1,566,280	1,067,790
Cottonseed	(X)	(X)	4,090,500	4,981,350
Flaxseed	1.21		144,940	
Mustard seed	1.00		37,090	
Peanuts	4.27	4.60	2,793,380	2,854,120
Rapeseed	2.21		9,030	
Safflower	1.31		67,040	
Soybeans for beans	3.43	3.46	114,748,940	121,055,890
Sunflower	2.01	1.74	1,353,020	862,240
Cotton, tobacco, and sugar crops				
Cotton, all [2]	0.95	0.98	3,180,410	3,919,910
Upland	0.94	0.97	3,061,420	3,843,050
American Pima	1.52	1.55	118,990	76,860
Sugarbeets	65.97	69.51	30,497,740	32,363,820
Sugarcane	85.40	82.49	32,749,370	31,111,900
Tobacco	2.20	2.35	176,630	210,390
Dry beans, peas, and lentils				
Chickpeas	1.82	0.92	193,820	137,570
Dry edible beans	2.20	1.89	1,495,180	1,025,530
Dry edible peas	2.50	1.48	985,790	551,110
Lentils	1.62	0.86	336,160	230,880
Potatoes and miscellaneous				
Hops	1.98	2.16	47,090	53,020
Maple syrup	(NA)	(NA)	20,560	17,120
Mushrooms	(NA)	(NA)	370,300	343,820
Peppermint oil	0.11		2,260	
Potatoes	51.64		19,051,790	
Spearmint oil	0.14		970	

(NA) Not available.
(X) Not applicable.
[1] Area planted for all purposes.
[2] Total may not add due to rounding.

Fruits and Nuts Production in Domestic Units – United States: 2021 and 2022

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2021 crop year, except citrus which is for the 2020-2021 season. Blank data cells indicate estimation period has not yet begun]

Crop	Production	
	2021	2022
Citrus [1]		
Grapefruit ..... 1,000 tons	426	442
Lemons ..... 1,000 tons	884	892
Oranges ..... 1,000 tons	4,426	3,878
Tangerines and mandarins ..... 1,000 tons	1,166	883
Noncitrus		
Apples, commercial ..... million pounds	10,525.0	
Apricots ..... tons	55,500	
Avocados ..... tons		
Blueberries, Cultivated ..... 1,000 pounds		
Blueberries, Wild (Maine) ..... 1,000 pounds		
Cherries, Sweet ..... tons	369,000	
Cherries, Tart ..... million pounds	142.0	
Coffee (Hawaii) ..... 1,000 pounds		
Cranberries ..... barrel	7,900,000	
Dates ..... tons		
Grapes ..... tons	6,470,000	
Kiwifruit (California) ..... tons		
Nectarines (California) ..... tons		
Olives (California) ..... tons		
Papayas (Hawaii) ..... 1,000 pounds		
Peaches ..... tons	696,500	
Pears ..... tons	670,000	
Plums (California) ..... tons		
Prunes (California) ..... tons		
Raspberries, all ..... 1,000 pounds		
Strawberries ..... 1,000 cwt		
Nuts and miscellaneous		
Almonds, shelled (California) ..... 1,000 pounds	2,800,000	
Hazelnuts, in-shell (Oregon) ..... tons		
Macadamias (Hawaii) ..... 1,000 pounds		
Pecans, in-shell ..... 1,000 pounds	258,000	
Pistachios (California) ..... 1,000 pounds		
Walnuts, in-shell (California) ..... tons	670,000	

[1] Production years are 2020-2021 and 2021-2022.

Fruits and Nuts Production in Metric Units – United States: 2021 and 2022

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2021 crop year, except citrus which is for the 2020-2021 season. Blank data cells indicate estimation period has not yet begun]

Crop	Production	
	2021	2022
	(metric tons)	(metric tons)
Citrus [1]		
Grapefruit	386,460	400,980
Lemons	801,950	809,210
Oranges	4,015,200	3,518,060
Tangerines and mandarins	1,057,780	801,040
Noncitrus		
Apples, commercial	4,774,060	
Apricots	50,350	
Avocados		
Blueberries, Cultivated		
Blueberries, Wild (Maine)		
Cherries, Sweet	334,750	
Cherries, Tart	64,410	
Coffee (Hawaii)		
Cranberries	358,340	
Dates		
Grapes	5,869,490	
Kiwifruit (California)		
Nectarines (California)		
Olives (California)		
Papayas (Hawaii)		
Peaches	631,850	
Pears	607,810	
Plums (California)		
Prunes (California)		
Raspberries, all		
Strawberries		
Nuts and miscellaneous		
Almonds, shelled (California)	1,270,060	
Hazelnuts, in-shell (Oregon)		
Macadamias (Hawaii)		
Pecans, in-shell	117,030	
Pistachios (California)		
Walnuts, in-shell (California)	607,810	

[1] Production years are 2020-2021 and 2021-2022.

Corn for Grain Objective Yield Data

The National Agricultural Statistics Service is conducting objective yield surveys in 10 corn-producing States during 2021. Randomly selected plots in corn for grain fields are visited monthly from September through harvest to obtain specific counts and measurements. Data in these tables are rounded actual field counts from this survey.

Corn for Grain Plant Population per Acre – Selected States: 2017-2021

[Blank data cells indicate estimation period has not yet begun]

State and month	2017	2018	2019	2020	2021
	(number)	(number)	(number)	(number)	(number)
Illinois					
September	30,800	32,000	31,100	30,600	31,550
October	30,900	32,000	30,950	30,400	31,550
November	30,950	32,000	30,900	30,400	
Final	30,950	32,000	30,900	30,400	
Indiana					
September	29,550	30,450	29,300	29,850	29,700
October	29,350	30,400	29,050	29,800	29,650
November	29,200	30,400	29,000	29,850	
Final	29,200	30,400	28,950	29,850	
Iowa					
September	31,300	31,350	30,850	31,050	31,850
October	31,150	31,150	30,800	31,000	31,850
November	31,150	31,100	30,750	31,050	
Final	31,150	31,100	30,750	31,050	
Kansas					
September	22,050	22,600	21,350	21,700	22,050
October	22,100	22,450	21,200	21,650	21,550
November	22,300	22,450	21,200	21,650	
Final	22,300	22,450	21,200	21,650	
Minnesota					
September	30,750	30,950	30,700	31,750	30,750
October	30,550	30,900	30,650	31,800	30,700
November	30,600	30,900	30,550	31,800	
Final	30,600	30,900	30,650	31,800	
Missouri					
September	27,850	28,500	28,200	28,200	27,250
October	27,850	28,400	27,500	28,150	27,400
November	27,950	28,400	27,600	28,200	
Final	27,950	28,400	27,600	28,200	

State and month	2017	2018	2019	2020	2021
	(number)	(number)	(number)	(number)	(number)
Nebraska					
All corn					
September	25,950	27,100	25,850	27,450	26,750
October	25,800	26,750	25,850	27,450	26,650
November	25,700	26,750	25,700	27,400	
Final	25,700	26,750	25,700	27,400	
Irrigated					
September	29,050	30,300	28,300	29,950	29,350
October	29,000	29,900	28,350	30,100	29,300
November	28,750	29,900	28,300	30,100	
Final	28,750	29,900	28,300	30,100	
Non-irrigated					
September	22,500	23,350	23,300	24,950	24,050
October	22,200	23,100	23,250	24,750	24,000
November	22,250	23,150	23,000	24,700	
Final	22,250	23,150	23,000	24,700	
Ohio					
September	29,250	30,550	30,050	29,800	30,400
October	29,150	30,400	30,100	29,900	30,050
November	29,100	30,400	30,000	29,900	
Final	29,100	30,400	30,000	29,850	
South Dakota					
September	26,250	27,000	26,400	25,450	26,150
October	26,200	26,750	26,100	25,400	26,100
November	26,200	27,000	26,000	25,550	
Final	26,200	27,000	25,900	25,550	
Wisconsin					
September	29,450	31,000	30,250	30,300	29,900
October	29,100	30,600	30,150	30,400	29,550
November	29,150	30,650	29,750	30,300	
Final	29,100	30,650	29,850	30,300	
10 State					
September	28,800	29,500	28,650	29,000	29,100
October	28,700	29,350	28,500	28,950	29,000
November	28,700	29,400	28,450	28,950	
Final	28,700	29,350	28,450	28,950	

Corn for Grain Number of Ears per Acre – Selected States: 2017-2021

[Blank data cells indicate estimation period has not yet begun]

State and month	2017	2018	2019	2020	2021
	(number)	(number)	(number)	(number)	(number)
Illinois					
September	30,200	31,550	30,300	29,900	31,100
October	30,300	31,500	30,300	29,800	31,050
November	30,250	31,500	30,150	29,800	
Final	30,250	31,500	30,150	29,800	
Indiana					
September	28,900	30,000	28,900	29,600	29,700
October	29,100	29,800	28,700	29,600	29,750
November	28,850	29,750	28,650	29,600	
Final	28,850	29,750	28,600	29,600	
Iowa					
September	30,600	31,150	30,250	30,600	31,750
October	30,600	30,900	30,200	30,450	31,800
November	30,600	30,800	30,100	30,550	
Final	30,600	30,800	30,100	30,550	
Kansas					
September	22,800	22,350	21,550	22,050	22,250
October	22,600	21,650	22,250	21,250	21,450
November	22,650	21,700	22,200	21,250	
Final	22,650	21,700	22,200	21,250	
Minnesota					
September	30,750	30,850	30,050	31,750	30,800
October	30,850	30,850	29,800	31,850	30,650
November	30,850	30,800	29,650	31,850	
Final	30,600	30,800	29,700	31,850	
Missouri					
September	27,750	27,400	26,950	27,650	26,900
October	27,800	27,300	26,950	27,600	26,950
November	27,850	27,300	27,100	27,650	
Final	27,850	27,300	27,100	27,650	

State and month	2017	2018	2019	2020	2021
	(number)	(number)	(number)	(number)	(number)
Nebraska					
All corn					
September	25,800	27,100	25,850	26,800	26,650
October	26,050	26,750	25,950	26,850	26,950
November	25,950	26,800	25,700	26,750	
Final	25,950	26,800	25,700	26,750	
Irrigated					
September	28,650	29,950	28,200	28,900	29,000
October	28,950	29,350	28,150	28,850	29,600
November	28,750	29,300	28,000	28,800	
Final	28,750	29,300	28,000	28,800	
Non-irrigated					
September	22,600	23,850	23,500	24,650	24,250
October	22,800	23,650	23,700	24,800	24,200
November	22,900	23,850	23,400	24,700	
Final	22,900	23,850	23,400	24,700	
Ohio					
September	29,500	30,750	29,850	29,350	30,650
October	29,250	30,300	29,750	29,700	30,350
November	29,150	30,300	29,550	29,700	
Final	29,150	30,300	29,550	29,650	
South Dakota					
September	26,250	28,100	26,450	25,550	26,250
October	26,150	27,750	25,300	25,550	26,150
November	26,200	27,950	25,000	25,700	
Final	25,850	28,050	24,900	25,700	
Wisconsin					
September	28,950	30,700	29,850	30,050	30,100
October	28,800	30,450	30,250	30,400	29,500
November	28,600	30,450	29,850	30,350	
Final	28,550	30,450	29,950	30,350	
10-State					
September	28,550	29,350	28,200	28,650	29,050
October	28,550	29,100	28,200	28,600	28,950
November	28,500	29,100	28,050	28,600	
Final	28,450	29,100	28,050	28,600	

Corn Objective Yield Percent of Samples Processed in the Lab – United States: 2017-2021

Year	October		November	
	Dent stage [1]	Mature [2]	Dent stage [1]	Mature [2]
	(percent)	(percent)	(percent)	(percent)
2017	41	51	(Z)	96
2018	13	80	(Z)	96
2019	49	29	1	94
2020	25	68	(Z)	96
2021	22	69		

(Z) Less than half of the unit shown.

[1] Includes corn in the dent stage of development. Ears are firm and solid. Kernels fully dented with no milk present in most kernels.

[2] Includes that portion of the crop that is mature and ready for harvest. No green foliage is present.

Soybean Objective Yield Data

The National Agricultural Statistics Service is conducting objective yield surveys in 11 soybean-producing States during 2021. Randomly selected plots in soybean fields are visited monthly from September through harvest to obtain specific counts and measurements. Data in these tables are actual field counts from this survey.

Soybean Pods with Beans per 18 Square Feet – Selected States: 2017-2021

[Blank data cells indicate estimation period has not yet begun]

State and month	2017	2018	2019	2020	2021	State and month	2017	2018	2019	2020	2021
	(number)	(number)	(number)	(number)	(number)		(number)	(number)	(number)	(number)	(number)
Arkansas						**Missouri**					
September	1,992	1,841	1,759	1,630	1,449	September	2,041	1,777	1,719	1,977	1,925
October	1,898	1,795	1,731	1,527	1,501	October	2,172	1,899	1,754	2,093	1,886
November	2,039	1,943	1,717	1,459		November	2,253	1,948	1,898	2,036	
Final	2,075	1,973	1,828	1,418		Final	2,239	1,961	1,921	2,041	
Illinois						**Nebraska**					
September	1,917	2,132	1,696	2,019	2,080	September	1,653	1,736	1,669	1,943	1,887
October	1,886	2,225	1,683	2,127	2,120	October	1,795	2,071	1,777	2,002	2,069
November	1,947	2,249	1,601	2,170		November	1,853	2,174	1,722	1,980	
Final	1,947	2,264	1,603	2,170		Final	1,853	2,174	1,722	1,980	
Indiana						**North Dakota**					
September	1,795	1,880	1,496	2,056	1,846	September	1,406	1,418	1,147	1,242	1,055
October	1,772	2,001	1,501	1,994	1,811	October	1,430	1,485	1,246	1,439	1,014
November	1,774	2,054	1,569	1,963		November	1,465	1,515	1,253	1,442	
Final	1,774	2,052	1,561	1,959		Final	1,451	1,514	1,195	1,442	
Iowa						**Ohio**					
September	1,644	1,823	1,601	1,675	1,732	September	1,765	2,019	1,563	1,811	2,060
October	1,670	1,984	1,642	1,933	1,800	October	1,714	2,180	1,760	1,972	1,989
November	1,717	2,082	1,660	1,927		November	1,828	2,210	1,587	1,983	
Final	1,735	2,097	1,682	1,927		Final	1,823	2,210	1,587	1,981	
Kansas						**South Dakota**					
September	1,487	1,552	1,561	1,650	1,404	September	1,511	1,649	1,504	1,688	1,626
October	1,472	1,456	1,604	1,699	1,480	October	1,472	1,867	1,316	1,720	1,526
November	1,561	1,548	1,596	1,629		November	1,457	1,822	1,331	1,696	
Final	1,561	1,558	1,583	1,629		Final	1,457	1,724	1,353	1,696	
Minnesota						**11-State**					
September	1,359	1,605	1,465	1,607	1,603	September	1,678	1,786	1,561	1,780	1,717
October	1,407	1,616	1,474	1,782	1,545	October	1,692	1,895	1,593	1,882	1,725
November	1,480	1,569	1,458	1,751		November	1,751	1,938	1,582	1,866	
Final	1,480	1,569	1,458	1,751		Final	1,752	1,938	1,586	1,865	

Soybean Objective Yield Percent of Samples Processed in the Lab – United States: 2017-2021

Year	October	November
	Mature [1]	Mature [1]
	(percent)	(percent)
2017	49	93
2018	57	93
2019	25	91
2020	64	94
2021	61	

[1] Includes soybeans with brown pods and are considered mature or almost mature.

Cotton Objective Yield Data

The National Agricultural Statistics Service conducted objective yield surveys in four cotton-producing States during 2021. Randomly selected plots in cotton fields are visited monthly from September through harvest to obtain specific counts and measurements. Data in this table are actual field counts from this survey.

Cotton Cumulative Boll Counts – Selected States: 2017-2021

[Includes small bolls (less than one inch in diameter), large unopened bolls (at least one inch in diameter), open bolls, partially opened bolls, and burrs per 40 feet of row. November, December, and Final exclude small bolls. Blank data cells indicate estimation period has not yet begun]

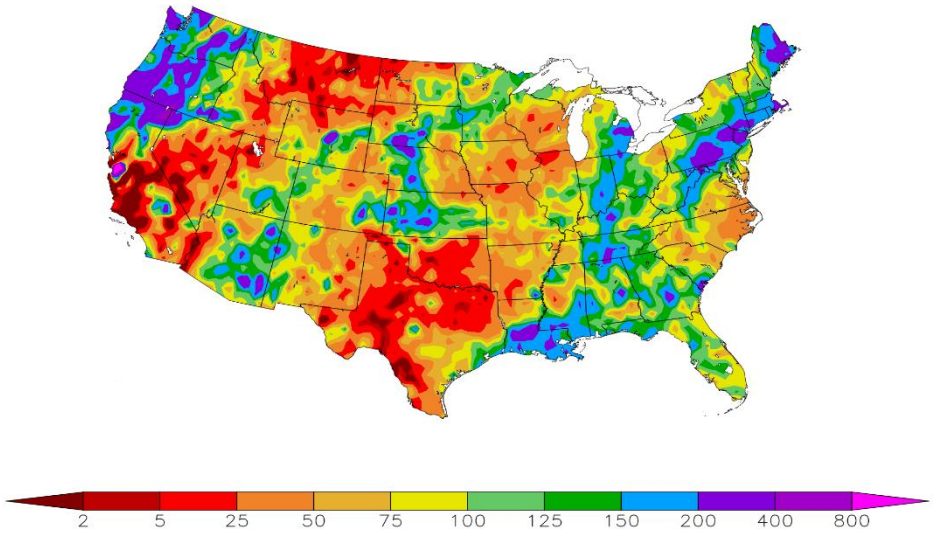
State and month	2017	2018	2019	2020	2021
	(number)	(number)	(number)	(number)	(number)
Arkansas					
September	911	891	900	994	990
October	839	910	896	849	838
November	825	892	925	820	
December	825	892	900	820	
Final	825	892	900	820	
Georgia					
September	593	605	598	606	597
October	608	737	783	747	658
November	680	712	790	761	
December	684	719	799	784	
Final	684	713	803	785	
Louisiana [1]					
September	648	759	(NA)	(NA)	(NA)
October	667	734	(NA)	(NA)	(NA)
November	665	739	(NA)	(NA)	
December	665	739	(NA)	(NA)	
Final	665	739	(NA)	(NA)	
Mississippi					
September	904	871	944	900	957
October	810	895	895	867	807
November	804	846	904	877	
December	797	846	901	875	
Final	797	846	901	875	
North Carolina [1]					
September	637	601	(NA)	(NA)	(NA)
October	705	641	(NA)	(NA)	(NA)
November	769	714	(NA)	(NA)	
December	769	719	(NA)	(NA)	
Final	769	719	(NA)	(NA)	
Texas					
September	592	570	458	576	491
October	602	576	438	581	512
November	603	553	456	595	
December	615	583	459	608	
Final	614	582	461	608	
4-State [2]					
September	633	627	551	645	567
October	635	661	562	661	573
November	649	640	579	671	
December	656	659	580	683	
Final	656	657	593	693	

(NA) Not available.

[1] Objective yield survey discontinued in 2019.

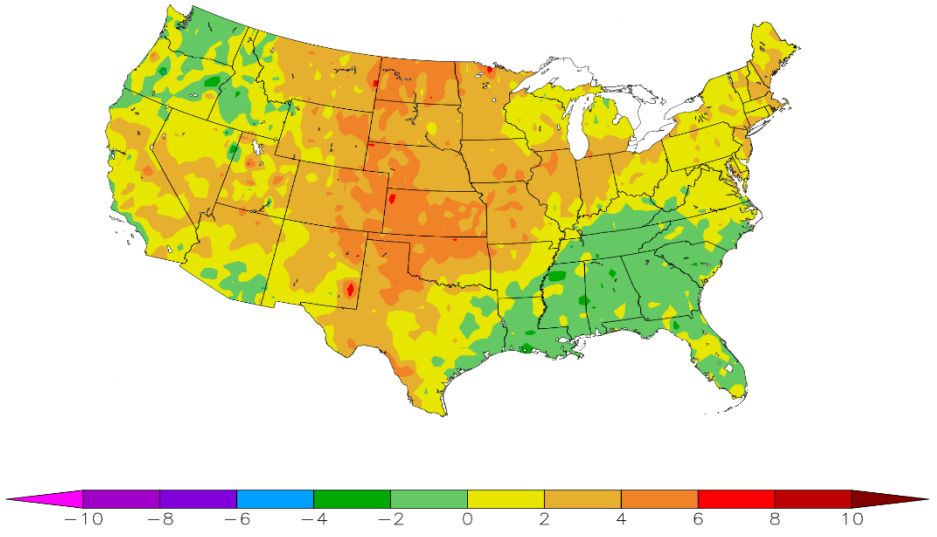
[2] 6-State total prior to 2019.

Percent of Normal Precipitation (%)
9/1/2021 – 9/30/2021



NOAA Regional Climate Centers

Departure from Normal Temperature (F)
9/1/2021 – 9/30/2021



NOAA Regional Climate Centers

September Weather Summary

Short-term drought across portions of the south-central United States during September favored summer crop maturation and harvesting—but resulted in declining rangeland and pasture conditions and raised concerns regarding newly planted winter wheat. Despite the late-month arrival of scattered showers across the central and southern Plains, September rainfall totaled one-half inch or less in numerous locations. By October 3, only 33 percent of the rangeland and pastures in Oklahoma were rated in good to excellent condition, down from 58 percent in late August.

Meanwhile, drought continued to dominate the landscape across the northern Plains and much of the West. On October 3, more than one-half of the rangeland and pastures were rated very poor to poor in all eleven states along and northwest of a line from California to Minnesota, led by Montana and Washington (91 percent very poor to poor apiece). Monthly rainfall totaled less than one-tenth of an inch in several Montana locations, including Havre and Glasgow. Some Northwestern producers opted to plant winter wheat into dusty soils; others opted to wait for rain. In Oregon, only 19 percent of the intended winter wheat acreage had been planted by October 3, compared to the 5-year average of 38 percent. On the same date, topsoil moisture was rated at least 40 percent very short to short in all states from the Pacific Coast to the Great Plains, except Arizona.

The Atlantic tropical basin remained active in September, as the season-to-date number of named storms climbed to twenty with the formation of Tropical Storm Victor (over the open Atlantic Ocean) on September 29. The month began with the remnants of Hurricane Ida delivering devastatingly heavy rainfall and spawning more than a dozen tornadoes in the middle Atlantic States. A week later, on September 8, minimal Tropical Storm Mindy moved ashore at St. Vincent Island, Florida, produced a few heavy showers and gusty winds, but had little impact. Category 1 Hurricane Nicholas made landfall on September 14 on the Matagorda Peninsula in Texas, with sustained winds near 75 mph. Nicholas produced some heavy rain but quickly weakened and drifted northeastward, decaying over Louisiana on September 17. However, for several days after dissipation, residual tropical moisture became entangled with a cold front, leading to additional heavy rain across the eastern one-third of the country.

In the West, an area of persistent dryness—stretching from much of California to the northern Rockies—was sandwiched between beneficial showers in the Pacific Northwest and parts of the Southwest. Northwestern showers, which reached California's northern tier, aided wildfire containment efforts. Still, mop-up operations continued for four of northern California's largest wildfires on record: the 963,309-acre Dixie Fire (second largest behind last year's 1.03 million-acre August Complex); the 223,168-acre Monument Fire; the 221,775-acre Caldor Fire; and the 198,882-acre River Complex. On September 9-10, lightning in the southern Sierra Nevada sparked several new fires, including the 97,514-acre Windy Fire and the 85,952-acre KNP Complex, sharply reducing air quality in California's San Joaquin Valley and environs.

Elsewhere, Midwestern crops matured quickly amid ongoing warmth, despite occasionally heavy showers in the eastern and northwestern Corn Belt. By October 3, most (88 percent) of the Nation's corn was fully mature, while 86 percent of the soybeans were dropping leaves. On the same date, harvest had progressed to 29 percent complete for corn and 34 percent for soybeans. In every Midwestern State, corn and soybean harvests were at or ahead of the 5-year average pace for October 3.

During the 5-week period ending October 5, drought coverage in the contiguous United States remained nearly unchanged at 46 to 48 percent, according to the *Drought Monitor*. However, September improvement across parts of the North was offset by developing drought in the south-central United States. National drought coverage has been significantly elevated for more than a year—and was last below 40 percent in late-September 2020. Since the beginning of the 21st century, the only other periods when drought coverage continuously exceeded 40 percent for more than a year were March 12, 2002 – June 3, 2003, and June 19, 2012 – October 1, 2013.

September Agricultural Summary

September was warmer than normal for most of the Nation. Large parts of the Great Plains recorded temperatures 4°F or more above normal for the month. In contrast, most of the Gulf Coast, Lower Mississippi Valley, and Southeast were moderately cooler than normal, as were parts of the Northwest. Much of the eastern third of the Nation received higher than normal amounts of precipitation for the month. Due to Hurricanes Ida and Nicholas, parts of the Gulf Coast,

Mid-Atlantic, and Northeast recorded 10 inches or more of rain for the month. While the Nation's midsection was mostly drier than normal, locations in Kansas, Nebraska, and South Dakota recorded twice the normal amount of precipitation. In the West, locations in Arizona and large parts of the Pacific Northwest also recorded twice the normal amounts of precipitation for the month.

By September 5, ninety-five percent of the corn acreage was at or beyond the dough stage, 2 percentage points behind last year but 1 percentage point ahead of the 5-year average. By September 5, seventy-four percent of this year's corn acreage was denting, 3 percentage points behind last year but 5 percentage points ahead of the 5-year average. Denting progress advanced 10 percentage points or more in 16 of the 18 estimating States during the week. Twenty-one percent of the Nation's corn acreage was mature by September 5, two percentage points behind last year but 2 percentage points ahead of the 5-year average. By September 19, ninety-three percent of this year's corn acreage was denting, 1 percentage point behind last year but 4 percentage points ahead of the 5-year average. Fifty-seven percent of the Nation's corn acreage was mature by September 19, one percentage point ahead of last year and 10 percentage points ahead of the 5-year average. Corn maturing advanced 10 percentage points or more in 16 of the 18 estimating States. Ten percent of the 2021 corn acreage was harvested by September 19, two percentage points ahead of last year and 1 percentage point ahead of the 5-year average harvest pace. Eighty-eight percent of the Nation's corn acreage was mature by October 3, three percentage points ahead of last year and 11 percentage points ahead of the 5-year average. Twenty-nine percent of the 2021 corn acreage was harvested by October 3, five percentage points ahead of last year and 7 percentage points ahead of the 5-year average harvest pace. On October 3, fifty-nine percent of the Nation's corn acreage was rated in good to excellent condition, 3 percentage points below the same time last year.

Nationally, 96 percent of the Nation's soybean acreage had begun setting pods by September 5, two percentage points behind last year but equal to the 5-year average. Leaf drop was 18 percent complete Nationally by September 5, equal to last year but 3 percentage points ahead of the 5-year average. Leaf drop was 58 percent complete Nationally by September 19, two percentage points ahead of last year and 10 percentage points ahead of the 5-year average. Leaf drop advanced 10 percentage points or more in 17 of the 18 estimating States during the week. Soybean harvest across the Nation was 6 percent complete by September 19, one percentage point ahead of last year but equal to the 5-year average. Leaf drop was 86 percent complete Nationally by October 3, three percentage points ahead of last year and 6 percentage points ahead of the 5-year average. Soybean harvest across the Nation was 34 percent complete by October 3, one percentage point behind last year but 8 percentage points ahead of the 5-year average. Harvest progress advanced 20 percentage points or more for the week in Illinois, Iowa, Minnesota, North Dakota, South Dakota, and Wisconsin. On October 3, fifty-eight percent of the Nation's soybean acreage was rated in good to excellent condition, 6 percentage points below the same time last year.

Nationwide, producers had sown 5 percent of the intended 2022 winter wheat acreage by September 5, equal to last year but 2 percentage points ahead of the 5-year average. Nationwide, producers had sown 21 percent of the intended 2022 winter wheat acreage by September 19, two percentage points ahead of last year and 3 percentage points ahead of the 5-year average. Planting progress was most advanced in Washington at 58 percent planted, 10 percentage points ahead of last year and 11 percentage points ahead of the 5-year average. Nationwide, 3 percent of the winter wheat acreage had emerged by September 19, equal to last year but 1 percentage point ahead of the 5-year average. Nationwide, producers had sown 47 percent of the intended 2022 winter wheat acreage by October 3, three percentage points behind last year but 1 percentage point ahead of the 5-year average. Planting progress advanced by 20 percentage points or more during the week in Colorado, Nebraska, and Ohio. Nationwide, 19 percent of the winter wheat acreage had emerged by October 3, three percentage points behind last year but 1 percentage point ahead of the 5-year average.

By September 5, ninety-four percent of the Nation's cotton acreage had begun setting bolls, 2 percentage points behind last year and 3 percentage points behind the 5-year average. By September 5, twenty-nine percent of the Nation's cotton had open bolls, 7 percentage points behind last year and 5 percentage points behind the 5-year average. By September 19, forty-eight percent of the Nation's cotton had open bolls, 8 percentage points behind last year and 5 percentage points behind the 5-year average. By September 19, nine percent of the Nation's cotton acreage was harvested, 1 percentage point behind last year and 2 percentage points behind the 5-year average. By October 3, seventy percent of the Nation's cotton had open bolls, 11 percentage points behind last year and 5 percentage points behind the 5-year average. Advances of 10 percentage points or more from the previous week occurred in 10 of the 15 estimating States. By October 3, thirteen percent of the Nation's cotton acreage was harvested, 3 percentage points behind last year and 6 percentage points

behind the 5-year average. On October 3, sixty-two percent of the 2021 cotton acreage was rated in good to excellent condition, 22 percentage points above the same time last year.

Seventy-three percent of the Nation's sorghum acreage was at or beyond the coloring stage by September 5, one percentage point ahead of last year and 4 percentage points ahead of the 5-year average. By September 5, thirty-two percent of the Nation's sorghum acreage was mature, 4 percentage points ahead of last year and 1 percentage point ahead of the 5-year average. Nineteen percent of the 2021 sorghum acreage had been harvested by September 5, two percentage points behind last year and 3 percentage points behind the 5-year average. Ninety-two percent of the Nation's sorghum acreage was at or beyond the coloring stage by September 19, one percentage point ahead of last year and 4 percentage points ahead of the 5-year average. By September 19, fifty-one percent of the Nation's sorghum acreage was mature, 2 percentage points ahead of last year and 5 percentage points ahead of the 5-year average. Twenty-five percent of the 2021 sorghum acreage had been harvested by September 19, one percentage point behind last year and 3 percentage points behind the 5-year average. By October 3, seventy-nine percent of the Nation's sorghum acreage was mature, 4 percentage points ahead of last year and 12 percentage points ahead of the 5-year average. Thirty-eight percent of the 2021 sorghum acreage had been harvested by October 3, one percentage point ahead of last year and 2 percentage points ahead of the 5-year average. Eighty-four percent of Texas' sorghum acreage was harvested by October 3, four percentage points behind last year but 5 percentage points ahead of the 5-year average. Fifty-six percent of the Nation's sorghum acreage was rated in good to excellent condition on October 3, five percentage points above the same time last year.

Nationally, 28 percent of the rice acreage was harvested by September 5, three percentage points ahead of last year but 3 percentage points behind the 5-year average. Nationally, 51 percent of the rice acreage was harvested by September 19, six percentage points ahead of last year but 5 percentage points behind the 5-year average. On September 19, seventy-six percent of the Nation's rice acreage was rated in good to excellent condition, 2 percentage points above the same time last year. Nationally, 73 percent of the rice acreage was harvested by October 3, four percentage points ahead of last year but 3 percentage points behind the 5-year average.

Ninety-seven percent of the Nation's oat acreage had been harvested by September 5, two percentage points ahead of last year and 3 percentage points ahead of the 5-year average. Harvesting of oats was complete or nearing completion in all 9 estimating States.

By September 5, barley producers had harvested 92 percent of the Nation's barley crop, 9 percentage points ahead of last year and 5 percentage points ahead of the 5-year average. Harvest progress was ahead of the 5-year average in all 5 estimating States. By September 12, barley producers had harvested 97 percent of the Nation's barley crop, 3 percentage points ahead of last year and 4 percentage points ahead of the 5-year average. Harvesting of barley was complete or nearing completion in all 5 estimating States.

By September 5, ninety-five percent of the Nation's spring wheat had been harvested, 15 percentage points ahead of the previous year and 12 percentage points ahead of the 5-year average. Harvest progress was ahead of the 5-year average in all 6 estimating States.

Four percent of the Nation's peanut acreage was harvested as of September 19, two percentage points behind last year and 4 percentage points behind the 5-year average. Nineteen percent of the Nation's peanut acreage was harvested as of October 3, three percentage points ahead of last year but 8 percentage points behind the 5-year average. On October 3, seventy-one percent of the Nation's peanut acreage was rated in good to excellent condition, 10 percentage points above the same time last year.

By September 19, sugarbeet producers had harvested 12 percent of the Nation's crop, 2 percentage points behind last year but equal to the 5-year average. By October 3, sugarbeet producers had harvested 20 percent of the Nation's crop, 22 percentage points behind last year and 8 percentage points behind the 5-year average.

By October 3, six percent of this year's sunflower crop was harvested, 4 percentage points behind last year but 2 percentage points ahead of the 5-year average.

Crop Comments

Corn: After a thorough review of all available data, acreage estimates are unchanged from last month. Total planted area, at 93.3 million acres, is unchanged from the previous estimate but up 3 percent from the previous year. Acreage harvested for grain, forecast at 85.1 million acres, is unchanged from the previous forecast but up 3 percent from last year.

The October 1 corn objective yield data indicate the second highest number of ears on record for the combined objective yield States, (Illinois, Indiana, Iowa, Kansas, Minnesota, Missouri, Nebraska, Ohio, South Dakota, and Wisconsin).

At 15.0 billion bushels, 2021 corn production for grain is forecast to be the second highest production on record for the United States. The forecasted yield, at 176.5 bushels per acre, is up 3 percent from last year's final estimate of 171.4 bushels per acre. If realized, this would be the second highest yield on record for the United States. Record high yields are forecast in California, Idaho, Illinois, Indiana, Kentucky, Michigan, New York, North Carolina, Ohio, Oklahoma, Pennsylvania, and South Carolina.

By September 5, ninety-five percent of the corn acreage was at or beyond the dough stage, 2 percentage points behind last year but 1 percentage point ahead of the 5-year average. By September 5, seventy-four percent of this year's corn acreage was denting, 3 percentage points behind last year but 5 percentage points ahead of the 5-year average. Twenty-one percent of the Nation's corn was mature by September 5, two percentage points behind last year but 2 percentage points ahead of the 5-year average.

By September 12, eighty-seven percent of this year's corn acreage was denting, 1 percentage point behind last year but 6 percentage points ahead of the 5-year average. Thirty-seven percent of the Nation's corn was mature by September 12, two percentage points behind last year but 6 percentage points ahead of the 5-year average. Four percent of the 2021 corn acreage was harvested by week's end, one percentage point behind both last year and the 5-year average harvest pace.

By September 19, ninety-three percent of this year's corn acreage was denting, 1 percentage point behind last year but 4 percentage points ahead of the 5-year average. Fifty-seven percent of the corn acreage was mature by September 19, one percentage point ahead of last year and 10 percentage points ahead of the 5-year average. Ten percent of the 2021 corn acreage was harvested by week's end, 2 percentage points ahead of last year and 1 percentage point ahead of the 5-year average harvest pace.

By September 26, ninety-seven percent of this year's corn acreage was denting, 1 percentage point behind last year but 3 percentage points ahead of the 5-year average. Seventy-four percent of the Nation's corn was mature by September 26, one percentage point ahead of last year and 10 percentage points ahead of the 5-year average. Eighteen percent of the 2021 corn acreage was harvested by week's end, 4 percentage points ahead of last year and 3 percentage points ahead of the 5-year average harvest pace.

Eighty-eight percent of the Nation's corn acreage was mature by October 3, three percentage points ahead of last year and 11 percentage points ahead of the 5-year average. Twenty-nine percent of the 2021 corn acreage was harvested by week's end, 5 percentage points ahead of last year and 7 percentage points ahead of the 5-year average harvest pace. On October 3, fifty-nine percent of the Nation's corn was rated in good to excellent condition, 3 percentage points below the same time last year.

Sorghum: After a thorough review of all available data acreage estimates are unchanged from last month. Production is forecast at 471 million bushels, up 26 percent from last year. Planted area, at 7.34 million acres, is unchanged from the previous estimate but up 25 percent from last year. Area harvested for grain is forecast at 6.52 million acres, unchanged from the previous forecast but up 28 percent from 2020. Based on October 1 conditions, yield is forecast at 72.3 bushels per acre, 0.9 bushel below the 2020 yield of 73.2 bushels per acre. If realized, the forecasted yield in Oklahoma will be a record high.

As of October 3, seventy-nine percent of the sorghum acreage was mature, 4 percentage points ahead of last year and 12 percentage points ahead the 5-year average. At that time, 38 percent of the acreage had been harvested, 1 percentage

point ahead of last year and 2 percentage points ahead of the 5-year average. On October 3, fifty-six percent of the acreage was rated in good to excellent condition, 5 percentage points above the same time last year.

Rice: Production is forecast at 191 million cwt, up slightly from the previous forecast but down 16 percent from 2020. Area for harvest is expected to total 2.50 million acres, unchanged from the previous forecast but down 16 percent from 2020. Based on conditions as of October 1, the average United States yield is forecast at 7,625 pounds per acre, up 2 pounds per acre from the previous forecast, and up 6 pounds per acre from 2020. As of October 3, seventy-three percent of the rice acreage was harvested, 4 percentage points above last year but 3 percentage points behind the 5-year average. Record high yields are forecasted for California and Missouri.

Soybeans: After a thorough review of all available data acreage estimates are unchanged from last month. Total planted area, at 87.2 million acres, is unchanged from the previous estimate, but up 5 percent from the previous year. Area harvested for beans, forecast at 86.4 million acres, is unchanged from the previous forecast but up 5 percent from the previous year.

At 4.45 billion bushels, 2021 soybean production is forecast to be the highest production on record for the United States. The forecasted yield, at 51.5 bushels per acre, is up 0.9 bushel from the previous forecast and up 0.5 bushel from last year's final estimate of 51.0 bushels per acre. If realized, this would be the second highest yield on record for the United States. Record high yields are forecast in Georgia, Illinois, Indiana, Iowa, Kentucky, Maryland, Mississippi, Nebraska, New York, Ohio, Pennsylvania, and Virginia.

The October objective yield data for the combined 11 major soybean-producing States (Arkansas, Illinois, Indiana, Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, Ohio, and South Dakota) indicate a lower pod count compared with the previous year. Compared with final counts for 2020, pod counts are down in 8 of the 11 published States. North Dakota showed the greatest decrease, down 428 pods per 18 square feet from the previous year.

As of October 3, eighty-six percent of the United States soybean acreage was at or beyond the leaf dropping stage, 3 percentage points ahead of last year and 6 percentage points ahead of the 5-year average. Soybean harvest was 34 percent complete as of October 3, one percentage point behind last year but 8 percentage points ahead of the 5-year average. At that time, harvest progress was at or ahead of the respective State 5-year average pace in 13 of the 18 States estimated in the *Crop Progress* report. As of October 3, fifty-eight percent of the Nation's soybean acreage was rated in good to excellent condition, 6 percentage points behind the same time last year.

Sunflower: The first production forecast for 2021 is 1.90 billion pounds, down 36 percent from the revised 2020 production of 2.98 billion pounds and is the lowest since 1989. Area planted, at 1.28 million acres, is down 7 percent from the June estimate and down 26 percent from last year. Sunflower growers expect to harvest 1.22 million acres, down 7 percent from the June forecast and down 27 percent from 2020. Acreage updates were made in several States based on a thorough review of all available data. The October yield forecast, at 1,554 pounds per acre, is 236 pounds lower than last year's yield and will be the lowest for the Nation since 2014, if realized.

As of October 1, higher yields are expected in 5 of the 8 published States compared with last year, with decreases only expected in Nebraska, North Dakota, and South Dakota. The forecasted production in South Dakota, the leading sunflower-producing State this year, is 793 million pounds, a decrease of 32 percent from 2020. Compared with last year, the average yield forecast in South Dakota is down 328 pounds per acre from 2020. In North Dakota, the average yield is forecast at 1,600 pounds per acre, down 272 pounds per acre from last year. In Nebraska, the average yield is forecast at 688 pounds per acre, down 441 pounds per acre from 2020 and will represent the lowest yield since 2002, if realized. In contrast, the average yield in California, at 1,489 pounds per acre, will be a record high, if realized.

By the beginning of October, harvest was underway in 3 of the 4 estimating States published in the weekly *Crop Progress and Condition* report, with harvest not yet started in Colorado. As of October 4, six percent of the Nation's sunflower acreage was harvested, 2 percentage points ahead of the 5-year average pace.

Peanuts: Production is forecast at 6.29 billion pounds, down 1 percent from the previous forecast but up 2 percent from the revised 2020 total of 6.16 billion pounds. Area harvested is expected to total 1.53 million acres, unchanged from the

previous forecast but down 5 percent from the revised 2020 total. Based on conditions as of October 1, the average yield for the United States is forecast at 4,105 pounds per acre down 36 pounds per acre from the previous forecast, but up 292 pounds per acre from the revised 2020 yield. A record high yield is forecasted in South Carolina.

Seventy-one percent of the United States peanut acreage was rated in good to excellent condition on October 3 compared to sixty-one percent at the same time last year.

Canola: The first production forecast for 2021 is 2.35 billion pounds, down 32 percent from the 2020 revised production of 3.45 billion pounds. If realized, this will be the lowest production for the United States since 2013. Area planted for the Nation, at a record high 2.15 million acres, is up 7 percent from the June estimate and up 18 percent from last year's area. Canola farmers expect to harvest a record high 2.10 million acres, up 8 percent from June and up 18 percent from 2020. Acreage updates were made in several States based on a thorough review of all available data. The October yield forecast, at 1,119 pounds per acre, is 812 pounds below last year's yield and will represent the lowest average yield on record for the Nation, if realized. Compared with last year, yields are forecast to be down more than 700 pounds per acre in 4 of the 6 major canola-producing States. In contrast, the yield forecast in Oklahoma will be the highest on record since the published data series began in that State, if realized.

The yield in North Dakota, the largest canola-producing State, is forecast at a record low 1,100 pounds per acre, down 860 pounds from last year's yield. Severe drought conditions across the State this year have hampered yield expectations. Planted area in North Dakota is estimated at 1.75 million acres, up 16 percent from last year. Planting of this year's canola crop in North Dakota generally progressed ahead of last year's pace but lagged behind the 5-year average pace. Blooming of the canola crop began in mid to late June. As of June 27, thirty-four percent of the canola acreage was blooming, 12 percentage points ahead of last year's pace but 3 percentage points behind the 5-year average pace. Maturation of the crop remained ahead of last year's pace but generally near the 5-year average pace through July and into August. Harvest began in mid-August and progressed to 96 percent complete by October 3, one percentage point ahead of last year and 5 percentage points ahead of the 5-year average.

Cotton: Upland harvested area for the Nation is expected to total 9.80 million acres, unchanged from the previous forecast but up 21 percent from last year. Expected Pima harvested area, at 122,200 acres, is unchanged from the previous forecast but down 37 percent from last year.

As of October 3, sixty-two percent of the cotton acreage was rated in good to excellent condition, compared with 40 percent at the same time last year. As of October 3, seventy percent of the cotton acreage had open bolls, 11 percentage points behind last year and 5 percentage points behind the 5-year average. Thirteen percent of the cotton acreage had been harvested by October 3, three percentage points behind last year and 6 percentage points behind the 5-year average.

Ginnings totaled 740,550 running bales prior to October 1, compared with 915,450 running bales ginned prior to the same date last year.

Alfalfa and alfalfa mixtures: Production of alfalfa and alfalfa mixture dry hay for 2021 is forecast at 48.2 million tons, up 1 percent from the August forecast, but down 9 percent from 2020. Based on October 1 conditions, yields are expected to average 2.99 tons per acre, up 0.02 ton from the August forecast, but down 0.28 ton from last year. Harvested area is forecast at 16.1 million acres, unchanged from the *Acreage* report, but down 1 percent from 2020. Record high yields are forecast in Arizona and Colorado, while record low yields are forecast in Montana.

Other hay: Production of other hay is forecast at 72.3 million tons, up 2 percent from the August forecast, but down 2 percent from 2020. Based on October 1 conditions, the United States yield is expected to average 2.04 tons per acre, up 0.04 ton from the August forecast, but down 0.01 ton from last year. Harvested area is forecast at 35.4 million acres, unchanged from the *Acreage* report, but down 2 percent from 2020. Record high yields are expected in Alabama.

Dry beans: Production of dry edible beans is forecast at 22.6 million cwt, down 3 percent from the August forecast and down 31 percent from 2020. Area planted is estimated at 1.40 million acres, down 4 percent from the August forecast and down 20 percent from 2020. Area harvested is forecast at 1.34 million acres, down 4 percent from the August forecast and

down 20 percent from 2020. The yield is forecast at 1,686 pounds per acre, an increase of 11 pounds from the August forecast, but a decrease of 280 pounds from last season.

Tobacco: The 2021 United States all tobacco production is forecast at 464 million pounds, down 1 percent from last month but up 19 percent from 2020. Area harvested, at 221,200 acres, is down 1 percent from previous forecast but up 12 percent from last year. Yield for the 2021 crop year is forecast at 2,097 pounds per acre, down 5 pounds from last month but 131 pounds above last year.

Sugarbeets: Production of sugarbeets for the 2021 crop year is forecast at 35.7 million tons, up 3 percent from last month, and up 6 percent from last year. Area planted, at 1.16 million acres, is up slightly from the previous estimate but down slightly from last year. Producers expect to harvest 1.15 million acres, up slightly from the previous estimate and up 1 percent from last year. Yield is forecast at 31.0 tons per acre, up 0.9 ton from last month and up 1.6 tons from last year.

In Minnesota and North Dakota, the crop has progressed nicely due to precipitation received the past few months. Root development has been exceptional and leaf canopy has been healthy. In Minnesota seventy-four percent of the crop was rated in good to excellent condition as of the week ending October 3, while sixty-seven percent of the crop was rated good to excellent in North Dakota.

Sugarcane: Production of sugarcane for sugar and seed is forecast at 34.3 million tons, down 1 percent from last month and down 5 percent from 2020. Producers intend to harvest 932,000 acres for sugar and seed during the 2021 crop year, up slightly from last month, but down 2 percent from 2020. Yields for sugar and seed are expected to average 36.8 tons per acre, down 0.5 ton from last month and down 1.3 tons from 2020.

Grapefruit: The United States 2021-2022 grapefruit crop is forecast at 442,000 tons, up 4 percent from last season's final utilization. The Texas forecast, at 3.10 million boxes (124,000 tons), is up 29 percent from the 2020-2021 season. The Florida forecast, at 3.80 million boxes (162,000 tons), is down 7 percent from the last season. The California forecast, at 3.90 million boxes (156,000 tons), is unchanged from the last season.

Lemons: The 2021-2022 United States lemon crop is forecast at 892,000 tons, up 1 percent from last season's final utilization. The California forecast, at 21.0 million boxes (840,000 tons), is down 1 percent from the 2020-2021 season. The Arizona forecast, at 1.30 million boxes (52,000 tons), is up 63 percent from last year.

Tangerines and mandarins: The United States tangerine and mandarin crop is forecast at 883,000 tons, down 24 percent from the last season's final utilization. The California tangerine and mandarin forecast, at 21.0 million boxes (840,000 tons), is down 25 percent from the previous year. The Florida tangerine and mandarin forecast, at 900,000 boxes (43,000 tons), is up 1 percent from last year.

Pecans: Production is forecast at 258 million pounds (utilized, in-shell basis), down 16 percent from 2020. Improved varieties are expected to produce 248 million pounds or 96 percent of the total. The native and seedling varieties are expected to produce 10.3 million pounds, making up the remaining 4 percent of production.

Statistical Methodology

Field crop survey procedures: Objective yield and farm operator surveys were conducted between September 24 and October 5 to gather information on expected yield as of October 1. The objective yield surveys for corn, cotton, and soybeans were conducted in the major producing States that usually account for about 75 percent of the United States production. Randomly selected plots were revisited to make current counts. The counts made within each sample plot depend on the crop and the maturity of that crop. In all cases, plant counts are recorded along with other measurements that provide information to forecast the number of ears, bolls, or pods and their weight. The counts are used with similar data from previous years to develop a projected biological yield. The average harvesting loss is subtracted to obtain a net yield. The plots are visited starting in September and are revisited each month until crop maturity when the fruit is harvested and weighed. After the farm operator has harvested the sample field, another plot is sampled to obtain current year harvesting loss. Starting in 2019, NASS eliminated the August objective yield survey for cotton (except Texas), corn, and soybeans.

The farm operator survey was conducted primarily by telephone with some use of mail, internet, and personal interviewers. Approximately 8,900 producers were interviewed during the survey period and asked questions about probable yield. These growers will continue to be surveyed throughout the growing season to provide indications of average yields.

Orange survey procedures: In Florida, during August and September, the number of bearing trees and the number of fruit per tree is determined. In August and subsequent months, fruit size measurement and fruit droppage surveys are conducted, which combined with the previous components are used to develop the current forecast of production. California and Texas conduct grower surveys on a quarterly basis in October, January, April, and July. California also conducts objective measurement surveys in September for Navel oranges and in March for Valencia oranges.

Field crop estimating procedures: National and State level objective yield and grower reported data were reviewed for reasonableness and consistency with historical estimates. The survey data were also reviewed considering weather patterns and crop progress compared to previous months and previous years. Each Regional Field Office submits their analysis of the current situation to the Agricultural Statistics Board (ASB). The ASB uses the survey data and the State analyses to prepare the published October 1 forecasts.

Orange estimating procedures: State level objective measurement estimates for Florida oranges were reviewed for errors, reasonableness, and consistency with historical estimates. Reports from growers in California and Texas were also used for setting estimates. These three States submit their analyses of the current situation to the Agricultural Statistics Board (ASB). The ASB uses the survey data and the State analyses to prepare the published October 1 forecast.

Revision policy: The October 1 production forecast will not be revised; instead, a new forecast will be made each month throughout the growing season. End-of-season estimates are made after harvest. At the end of the marketing season, a balance sheet is calculated using carryover stocks, production, exports, millings, feeding, and ending stocks. Revisions are then made if the balance sheet relationships or other administrative data warrant changes. Estimates of planted acres for spring planted crops are subject to revision in the August *Crop Production* report if conditions altered the planting intentions since the mid-year survey. Planted acres may also be revised for cotton, peanuts, and rice in the September *Crop Production* report each year; spring wheat, Durum wheat, barley, and oats only in the *Small Grains Annual* report at the end of September; and all other spring planted crops in the October *Crop Production* report. Revisions to planted acres will only be made when special survey data, administrative data, such as Farm Service Agency program "sign up" data, or remote sensing data are available. Harvested acres may be revised any time a production forecast is made if there is strong evidence that the intended harvested area has changed since the last forecast. End-of-season orange estimates will be published in September *Citrus Fruits Summary*. The orange production estimates are based on all data available at the end of the marketing season, including information from marketing orders, shipments, and processor records. Allowances are made for recorded local utilization and home use.

Reliability: To assist users in evaluating the reliability of the October 1 production forecast, the "Root Mean Square Error," a statistical measure based on past performance, is computed. The deviation between the October 1 production forecast and the final estimate is expressed as a percentage of the final estimate. The average of the squared percentage

deviations for the latest 20-year period is computed. The square root of the average becomes statistically the "Root Mean Square Error." Probability statements can be made concerning expected differences in the current forecast relative to the final end-of-season estimate, assuming that factors affecting this year's forecast are not different from those influencing recent years. For example, the "Root Mean Square Error" for the October 1 corn for grain production forecast is 1.9 percent. This means that chances are 2 out of 3 that the current production forecast will not be above or below the final estimate by more than 1.9 percent. Chances are 9 out of 10 (90 percent confidence level) that the difference will not exceed 3.3 percent.

Also, shown in the following table is a 20-year record for selected crops of the differences between the October 1 forecast and the final estimate. Using corn again as an example, changes between the October 1 forecast and the final estimate during the last 20 years have averaged 194 million bushels, ranging from 3 million bushels to 610 million bushels. The October 1 forecast has been below the final estimate 9 times and above 10 times. This does not imply that the October 1 corn forecast this year is likely to understate or overstate final production.

Reliability of October 1 Crop Production Forecasts

[Based on data for the past twenty years]

Crop	Root mean square error	90 percent confidence interval	Difference between forecast and final estimate				
			Production			Years	
			Average	Smallest	Largest	Below final	Above final
	(percent)	(percent)	(millions)	(millions)	(millions)	(number)	(number)
Corn for grain ..... bushels	1.9	3.3	194	3	610	9	10
Hay							
Alfalfa ..... tons	5.1	8.8	2	(Z)	7	3	16
Other ..... tons	4.3	7.4	3	(Z)	6	3	16
Oranges [1] ..... tons	7.4	12.8	410	2	1,676	3	16
Peanut [1] ..... pounds	7.0	12.1	297	16	729	11	8
Rice ..... cwt	1.9	3.3	3	(Z)	12	11	8
Sorghum for grain ..... bushels	5.2	9.0	14	2	31	9	10
Soybeans for beans ..... bushels	2.6	4.5	62	1	261	13	6
Sugarbeets for sugar ..... tons	5.7	9.8	1	(Z)	5	7	12
Sugarcane ..... tons	6.0	10.4	2	(Z)	4	10	9
Upland cotton [1] ..... bales	6.8	11.7	936	76	2,439	8	11

(Z) Less than half of the unit shown.
[1] Quantity is in thousands of units.

USDA, National Agricultural Statistics Service Information Contacts

Listed below are the commodity statisticians in the Crops Branch of the National Agricultural Statistics Service to contact for additional information. E-mail inquiries may be sent to nass@usda.gov

Lance Honig, Chief, Crops Branch ..... (202) 720-2127

Chris Hawthorn, Head, Field Crops Section ..... (202) 720-2127
- Irwin Anolik – Crop Weather ..... (202) 720-7621
- Joshua Bates – Oats, Soybeans ..... (202) 690-3234
- David Colwell – Current Agricultural Industrial Reports ..... (202) 720-8800
- Michelle Harder – Barley, County Estimates, Hay ..... (202) 690-8533
- James Johanson – Rye, Wheat ..... (202) 720-8068
- Greg Lemmons – Corn, Flaxseed, Proso Millet ..... (202) 720-9526
- Becky Sommer – Cotton, Cotton Ginnings, Sorghum ..... (202) 720-5944
- Travis Thorson – Sunflower, Other Oilseeds ..... (202) 720-7369
- Lihan Wei – Peanuts, Rice ..... (202) 720-7688

Fleming Gibson, Head, Fruits, Vegetables and Special Crops Section ..... (202) 720-2127
- Heidi Lanouette – Apples, Blueberries, Cranberries, Cucumbers, Pistachios, Potatoes, Pumpkins, Raspberries, Squash, Strawberries, Sugarbeets, Sugarcane, Sweet Potatoes ..... (202) 720-4285
- Robert Little – Apricots, Dry Beans, Lettuce, Macadamia, Maple Syrup, Nectarines, Pears, Snap Beans, Spinach, Tomatoes ..... (202) 720-3250
- Fleming Gibson – Almonds, Asparagus, Carrots, Coffee, Onions, Plums, Prunes, Sweet Corn ..... (202) 720-2127
- Krishna Rizal – Artichokes, Cauliflower, Celery, Grapefruit, Garlic, Hazelnuts, Kiwifruit, Lemons, Mandarins and tangerines, Mint, Mushrooms, Olives, Oranges, Tobacco ..... (202) 720-5412
- Antonio Torres – Cantaloupes, Dry Edible Peas, Green Peas, Honeydews, Lentils, Papayas, Peaches, Sweet Cherries, Tart Cherries, Walnuts, Watermelons ..... (202) 720-2157
- Chris Wallace – Avocados, Bell Peppers, Broccoli, Cabbage, Chickpeas, Chile Peppers, Dates, Floriculture, Grapes, Hops, Pecans ..... (202) 720-4215

Access to NASS Reports

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

- All reports are available electronically, at no cost, on the NASS web site: www.nass.usda.gov

- Both national and state specific reports are available via a free e-mail subscription. To set-up this free subscription, visit www.nass.usda.gov and click on "National" or "State" in upper right corner above "search" box to create an account and select the reports you would like to receive.

- Cornell's Mann Library has launched a new website housing NASS's and other agency's archived reports. The new website, https://usda.library.cornell.edu. All email subscriptions containing reports will be sent from the new website, https://usda.library.cornell.edu. To continue receiving the reports via e-mail, you will have to go to the new website, create a new account and re-subscribe to the reports. If you need instructions to set up an account or subscribe, they are located at: https://usda.library.cornell.edu/help. You should whitelist notifications@usda-esmis.library.cornell.edu in your email client to avoid the emails going into spam/junk folders.

For more information on NASS surveys and reports, call the NASS Agricultural Statistics Hotline at (800) 727-9540, 7:30 a.m. to 4:00 p.m. ET, or e-mail: nass@usda.gov.

USDA Fall Data Users' Meeting

Virtual Meeting

October 13 & 14, 2021
12:00 – 3:00 pm ET

USDA's National Agricultural Statistics Service (NASS) will hold a virtual meeting for users of U.S. domestic and international agriculture data. Along with NASS, the 2021 Fall Data Users' Meeting will headline the Agricultural Marketing Service, Economic Research Service, Farm Service Agency, Foreign Agricultural Service, World Agricultural Outlook Board – and the Census Bureau's Foreign Trade Division. Representatives will provide agency updates, answer questions, and listen to concerns from data users.

Abbreviated Agenda

Day 1 – October 13
Agency Updates– *All agencies*
AMS Transportation & Marketing Program - *Agricultural Marketing Service*
NASS Milk Production Program - *National Agricultural Statistics Service*
Showcasing ERS Data and New Initiatives - *Economic Research Service*
Foreign Production, Trade, and Import/Export Data - *World Agricultural Outlook Board, Foreign Agricultural Service, and U.S. Census Bureau*

Day 2 – October 14
Open Forum – *All agencies*
Climate Information for Informed Decision Making - *World Agricultural Outlook Board*
AMS Market News - *Agricultural Marketing Service*
NASS Modernization - *National Agricultural Statistics Service*
GADAS Demo – *Foreign Agricultural Service*

For registration details or additional information about the Data Users' Meeting, see the meeting page on the NASS website (https://www.nass.usda.gov/Education_and_Outreach/Meeting/index.php).