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Released September 10, 2021, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, United States Department of Agriculture (USDA).

## Special Note

Each September, NASS has the opportunity to revise planted and harvested acreage estimates for cotton, peanuts, and rice. This year NASS also included corn, sorghum, soybeans, and sugarbeets in this review due to the completeness of this season's data for these crops. Revisions 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. Detailed estimates are found on pages 5, 7, 8, 10, 13, 14, and 17.

Hurricane Ida made landfall on August 29 in Louisiana. The resulting rainfall caused flooding in parts of Louisiana and Mississippi. The full impact of this weather event may not be fully reflected in this report.

## **Corn Production Up 2 Percent from August Forecast** **Soybean Production Up 1 Percent** **Cotton Production Up 7 Percent**

**Corn** production for grain is forecast at 15.0 billion bushels, up 2 percent from the previous forecast and up 6 percent from 2020. Based on conditions as of September 1, yields are expected to average 176.3 bushels per harvested acre, up 1.7 bushels from the previous forecast and up 4.3 bushels from last year. Acreage updates were made in several States based on a thorough review of all available data. Total planted area, at 93.3 million acres, is up 1 percent from the previous estimate, and up 3 percent from the previous year. Area harvested for grain is forecast at 85.1 million acres, up 1 percent from the previous forecast and up 3 percent from the previous year.

**Soybean** production for beans is forecast at 4.37 billion bushels, up 1 percent from the previous forecast and up 6 percent from 2020. Based on conditions as of September 1, yields are expected to average 50.6 bushels per harvested acre, up 0.6 bushel from the previous forecast and up 0.4 bushel from 2020. Total planted area, at 87.2 million acres, is down less than 1 percent from the previous estimate but up 5 percent from the previous year. Area harvested for beans in the United States is forecast at 86.4 million acres, down less than 1 percent from the previous forecast but up 5 percent from 2020. Acreage updates were made in several States based on a thorough review of all available data.

**All cotton** production is forecast at 18.5 million 480-pound bales, up 7 percent from the previous forecast and up 27 percent from 2020. Based on conditions as of September 1, yields are expected to average 895 pounds per harvested acre, up 95 pounds from the previous forecast and up 48 pounds from 2020. Upland cotton production is forecast at 18.2 million 480-pound bales, up 8 percent from the previous forecast and up 29 percent from 2020. Pima cotton production is forecast at 335,000 bales, down 10 percent from the previous forecast and down 39 percent from 2020. All cotton planted area totaled 11.2 million acres, down 5 percent from the previous forecast and down 7 percent from 2020. All cotton area harvested is forecast at 9.92 million acres, down 4 percent from the previous forecast but up 20 percent from 2020. Acreage updates were made in several States based on a thorough review of all available data.

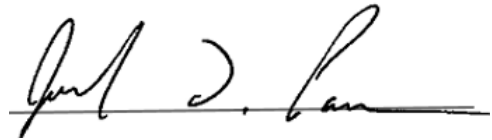
**California Navel orange** production for the 2021-2022 season is forecast at 1.40 million tons (35.0 million boxes), down 14 percent from last season. This initial forecast is based on an objective measurement survey conducted in California's Central Valley from mid-June to the beginning of September. The objective measurement survey indicated that fruit set was down 25 percent from last year but the average fruit size was down 2 percent from last year. Harvest is expected to begin in October.

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This report was approved on September 10, 2021.



Secretary of Agriculture  
Designate  
Seth Meyer



Agricultural Statistics Board  
Chairperson  
Joseph L. Parsons

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## 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 (1,000 acres)	2021 (1,000 acres)	2020 (1,000 acres)	2021 <sup>1</sup> (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 <sup>2</sup> .....	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 .....	1,490	1,550	1,380	1,450
Louisiana .....	500	580	485	565
Maine <sup>2</sup> .....	30	31	(NA)	(NA)
Maryland .....	480	470	430	390
Massachusetts <sup>2</sup> .....	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 <sup>2</sup> .....	13	12	(NA)	(NA)
New Hampshire <sup>2</sup> .....	13	13	(NA)	(NA)
New Jersey .....	87	90	80	80
New Mexico .....	125	115	37	36
New York .....	1,050	1,050	510	500
North Carolina .....	1,000	960	950	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 <sup>2</sup> .....	2	2	(NA)	(NA)
South Carolina .....	400	420	380	390
South Dakota .....	4,950	6,100	4,500	5,650
Tennessee .....	870	1,040	825	970
Texas .....	2,250	2,100	1,810	1,700
Utah .....	90	75	31	22
Vermont <sup>2</sup> .....	85	85	(NA)	(NA)
Virginia .....	560	540	420	390
Washington .....	180	160	80	75
West Virginia .....	51	51	38	38
Wisconsin .....	4,000	3,950	2,970	2,940
Wyoming .....	95	90	54	62
United States .....	90,819	93,304	82,467	85,085

(NA) Not available.

<sup>1</sup> Forecasted.

<sup>2</sup> Area harvested for grain not estimated.

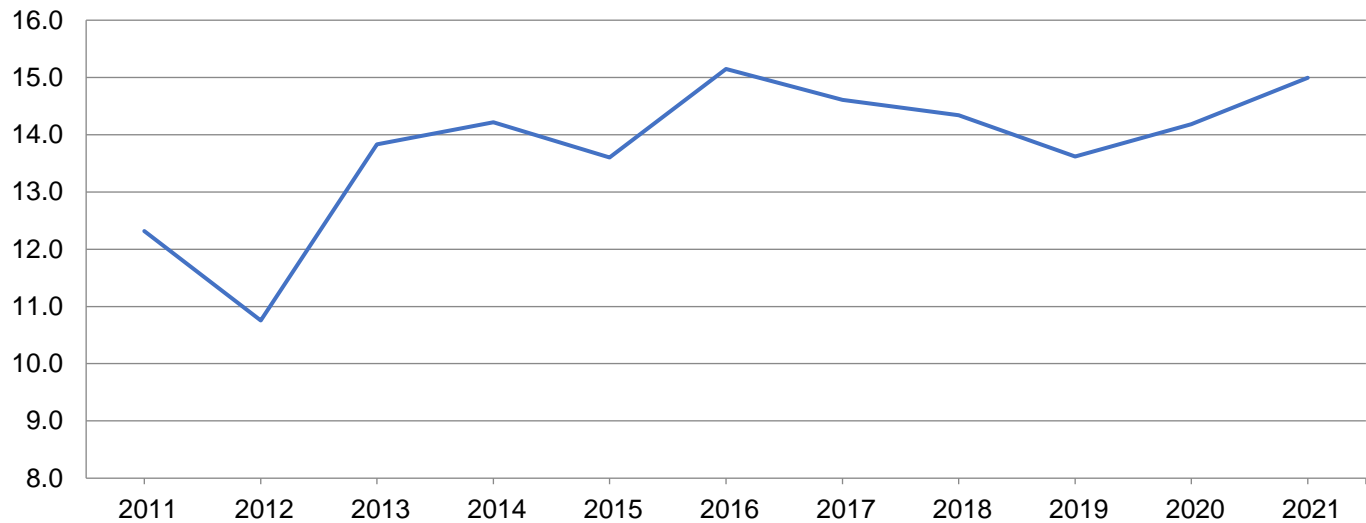
**Corn for Grain Area Harvested, Yield, and Production – States and United States: 2020 and Forecasted September 1, 2021**

State	Area harvested		Yield per acre			Production	
	2020	2021	2020	2021		2020	2021
				August 1	September 1		
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Alabama .....	320	340	158.0	165.0	166.0	50,560	56,440
Arkansas .....	605	830	184.0	178.0	182.0	111,320	151,060
California .....	60	95	187.0	200.0	195.0	11,220	18,525
Colorado .....	1,060	1,110	116.0	130.0	132.0	122,960	146,520
Delaware .....	176	170	160.0	160.0	163.0	28,160	27,710
Georgia .....	390	440	180.0	170.0	172.0	70,200	75,680
Idaho .....	130	105	199.0	208.0	209.0	25,870	21,945
Illinois .....	11,100	10,800	192.0	214.0	214.0	2,131,200	2,311,200
Indiana .....	5,250	5,250	187.0	194.0	197.0	981,750	1,034,250
Iowa .....	12,900	12,450	178.0	193.0	198.0	2,296,200	2,465,100
Kansas .....	5,720	5,300	134.0	138.0	138.0	766,480	731,400
Kentucky .....	1,380	1,450	184.0	183.0	185.0	253,920	268,250
Louisiana .....	485	565	181.0	173.0	179.0	87,785	101,135
Maryland .....	430	390	155.0	164.0	162.0	66,650	63,180
Michigan .....	1,990	1,970	154.0	169.0	174.0	306,460	342,780
Minnesota .....	7,510	7,800	192.0	166.0	174.0	1,441,920	1,357,200
Mississippi .....	490	700	180.0	182.0	187.0	88,200	130,900
Missouri .....	3,280	3,380	171.0	171.0	169.0	560,880	571,220
Nebraska .....	9,890	9,600	181.0	186.0	188.0	1,790,090	1,804,800
New York .....	510	500	157.0	166.0	167.0	80,070	83,500
North Carolina .....	950	910	113.0	141.0	142.0	107,350	129,220
North Dakota .....	1,780	3,820	139.0	106.0	108.0	247,420	412,560
Ohio .....	3,300	3,380	171.0	193.0	190.0	564,300	642,200
Oklahoma .....	320	300	135.0	150.0	150.0	43,200	45,000
Pennsylvania .....	1,000	870	138.0	164.0	167.0	138,000	145,290
South Carolina .....	380	390	132.0	134.0	134.0	50,160	52,260
South Dakota .....	4,500	5,650	162.0	133.0	133.0	729,000	751,450
Tennessee .....	825	970	170.0	173.0	172.0	140,250	166,840
Texas .....	1,810	1,700	128.0	145.0	140.0	231,680	238,000
Virginia .....	420	390	122.0	150.0	149.0	51,240	58,110
Washington .....	80	75	228.0	225.0	215.0	18,240	16,125
Wisconsin .....	2,970	2,940	174.0	167.0	172.0	516,780	505,680
Other States <sup>1</sup> .....	456	445	160.0	161.4	159.3	72,964	70,887
United States .....	82,467	85,085	172.0	174.6	176.3	14,182,479	14,996,417

<sup>1</sup> 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

Billion bushels



## 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 <sup>1</sup>
	(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

<sup>1</sup> Forecasted.

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

State	Area harvested		Yield per acre			Production	
	2020	2021	2020	2021		2020	2021
				August 1	September 1		
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Colorado .....	255	435	20.0	33.0	48.0	5,100	20,880
Kansas .....	2,800	3,350	85.0	80.0	75.0	238,000	251,250
Nebraska .....	150	265	91.0	82.0	84.0	13,650	22,260
Oklahoma .....	230	355	45.0	58.0	58.0	10,350	20,590
South Dakota .....	160	285	71.0	64.0	65.0	11,360	18,525
Texas .....	1,500	1,830	63.0	64.0	66.0	94,500	120,780
United States .....	5,095	6,520	73.2	70.8	69.7	372,960	454,285

## Rice Area Planted and Harvested by Class – States and United States: 2020 and 2021

[Includes updates to planted and harvested area previously published]

Class and State	Area planted		Area harvested	
	2020 (1,000 acres)	2021 (1,000 acres)	2020 (1,000 acres)	2021 <sup>1</sup> (1,000 acres)
<b>Long grain</b>				
Arkansas .....	1,325	1,095	1,315	1,085
California .....	12	7	12	7
Louisiana .....	430	380	425	374
Mississippi .....	165	105	164	101
Missouri .....	220	195	210	190
Texas .....	180	190	176	185
United States .....	2,332	1,972	2,302	1,942
<b>Medium grain</b>				
Arkansas .....	135	120	125	112
California .....	465	365	462	363
Louisiana .....	50	40	49	39
Mississippi .....	1	-	1	-
Missouri .....	8	4	4	4
Texas .....	4	4	3	3
United States .....	663	533	644	521
<b>Short grain<sup>2</sup></b>				
Arkansas .....	1	1	1	1
California .....	40	35	40	35
United States .....	41	36	41	36
<b>All</b>				
Arkansas .....	1,461	1,216	1,441	1,198
California .....	517	407	514	405
Louisiana .....	480	420	474	413
Mississippi .....	166	105	165	101
Missouri .....	228	199	214	194
Texas .....	184	194	179	188
United States .....	3,036	2,541	2,987	2,499

- Represents zero.

<sup>1</sup> Forecasted.

<sup>2</sup> Includes sweet rice.



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

State	Area harvested		Yield per acre			Production <sup>1</sup>	
	2020	2021	2020	2021		2020	2021
				August 1	September 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	8,700	8,800	44,810	35,640
Louisiana .....	474	413	6,820	6,800	6,850	32,306	28,291
Mississippi .....	165	101	7,420	7,350	7,400	12,241	7,474
Missouri .....	214	194	7,250	7,700	8,000	15,522	15,520
Texas .....	179	188	8,150	7,000	7,300	14,597	13,724
United States .....	2,987	2,499	7,619	7,544	7,623	227,583	190,499

<sup>1</sup> Includes sweet rice production.

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

Year	Long grain	Medium grain	Short grain <sup>1</sup>	All
	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
2020 .....	170,853	53,920	2,810	227,583
2021 <sup>2</sup> .....	144,218	43,730	2,551	190,499

<sup>1</sup> Sweet rice production included with short grain.

<sup>2</sup> 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 (1,000 acres)	2021 (1,000 acres)	2020 (1,000 acres)	2021 <sup>1</sup> (1,000 acres)
Alabama .....	280	310	275	305
Arkansas .....	2,820	3,050	2,780	3,010
Delaware .....	150	155	148	153
Georgia .....	100	140	95	130
Illinois .....	10,300	10,600	10,250	10,550
Indiana .....	5,700	5,700	5,680	5,690
Iowa .....	9,400	10,100	9,320	10,020
Kansas .....	4,750	4,850	4,700	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 .....	7,400	7,700	7,330	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 .....	4,900	4,850	4,870	4,830
Oklahoma .....	560	575	540	550
Pennsylvania .....	640	580	630	570
South Carolina .....	310	390	300	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 .....	2,000	2,100	1,970	2,070
United States .....	83,084	87,235	82,318	86,436

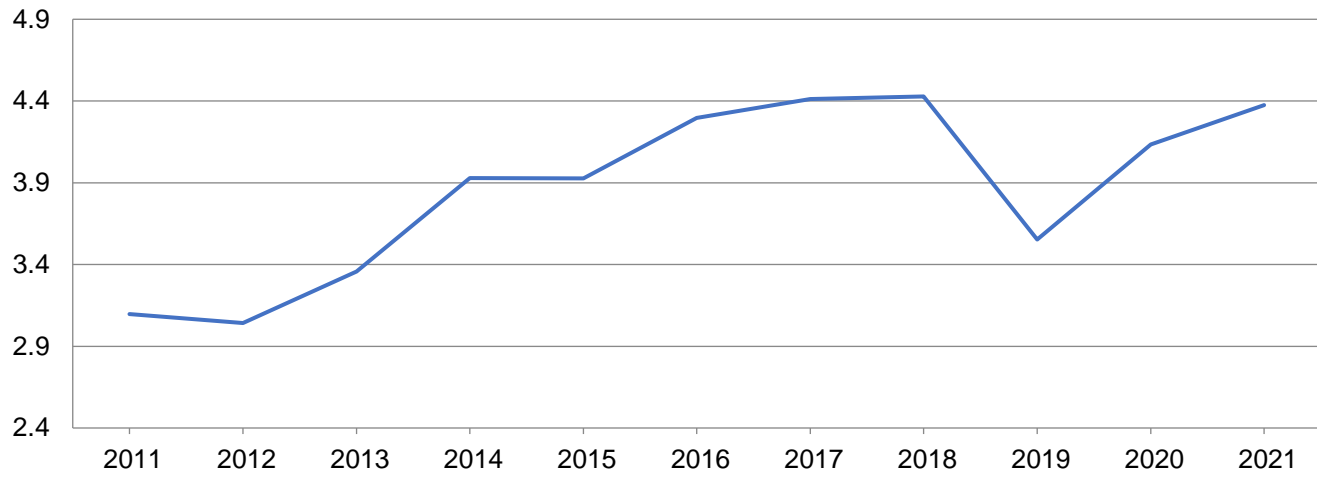
<sup>1</sup> Forecasted.

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

State	Area harvested		Yield per acre			Production	
	2020	2021	2020	2021		2020	2021
				August 1	September 1		
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Alabama .....	275	305	41.0	43.0	44.0	11,275	13,420
Arkansas .....	2,780	3,010	50.0	49.0	50.0	139,000	150,500
Delaware .....	148	153	49.0	49.0	49.0	7,252	7,497
Georgia .....	95	130	41.0	42.0	42.0	3,895	5,460
Illinois .....	10,250	10,550	59.0	64.0	64.0	604,750	675,200
Indiana .....	5,680	5,690	58.0	60.0	60.0	329,440	341,400
Iowa .....	9,320	10,020	53.0	58.0	59.0	493,960	591,180
Kansas .....	4,700	4,800	40.5	41.0	40.0	190,350	192,000
Kentucky .....	1,840	1,790	55.0	54.0	55.0	101,200	98,450
Louisiana .....	1,020	1,050	53.0	52.0	55.0	54,060	57,750
Maryland .....	465	480	47.0	51.0	51.0	21,855	24,480
Michigan .....	2,190	2,140	47.0	48.0	50.0	102,930	107,000
Minnesota .....	7,330	7,630	49.0	43.0	47.0	359,170	358,610
Mississippi .....	2,060	2,190	54.0	54.0	56.0	111,240	122,640
Missouri .....	5,810	5,650	50.0	50.0	51.0	290,500	288,150
Nebraska .....	5,160	5,550	57.0	60.0	59.0	294,120	327,450
New Jersey .....	93	98	46.0	42.0	40.0	4,278	3,920
New York .....	312	320	51.0	54.0	53.0	15,912	16,960
North Carolina .....	1,570	1,630	37.0	39.0	39.0	58,090	63,570
North Dakota .....	5,700	7,250	33.5	24.0	25.0	190,950	181,250
Ohio .....	4,870	4,830	54.0	58.0	58.0	262,980	280,140
Oklahoma .....	540	550	30.0	28.0	30.0	16,200	16,500
Pennsylvania .....	630	570	46.0	53.0	52.0	28,980	29,640
South Carolina .....	300	370	35.0	33.0	33.0	10,500	12,210
South Dakota .....	4,920	5,450	45.5	39.0	38.0	223,860	207,100
Tennessee .....	1,620	1,470	50.0	49.0	48.0	81,000	70,560
Texas .....	110	100	34.0	40.0	35.0	3,740	3,500
Virginia .....	560	590	42.0	43.0	44.0	23,520	25,960
Wisconsin .....	1,970	2,070	51.0	49.0	49.0	100,470	101,430
United States .....	82,318	86,436	50.2	50.0	50.6	4,135,477	4,373,927

# Soybean Production – United States

Billion bushels



## Peanut 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 <sup>1</sup>
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Alabama .....	185.0	185.0	182.0	182.0
Arkansas .....	39.0	36.0	38.0	35.0
Florida .....	175.0	170.0	165.0	160.0
Georgia .....	810.0	760.0	800.0	750.0
Mississippi .....	23.0	18.0	22.0	17.0
New Mexico .....	6.2	11.0	4.8	11.0
North Carolina .....	108.0	115.0	106.0	113.0
Oklahoma .....	15.0	16.0	14.0	15.0
South Carolina .....	85.0	69.0	82.0	66.0
Texas .....	190.0	170.0	175.0	155.0
Virginia .....	28.0	30.0	27.0	29.0
United States .....	1,664.2	1,580.0	1,615.8	1,533.0

<sup>1</sup> Forecasted.

## Peanut Area Harvested, Yield, and Production – States and United States: 2020 and Forecasted September 1, 2021

State	Area harvested		Yield per acre			Production	
	2020	2021	2020	2021		2020	2021
				August 1	September 1		
	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)
Alabama .....	182.0	182.0	3,500	4,000	4,000	637,000	728,000
Arkansas .....	38.0	35.0	4,800	5,000	5,000	182,400	175,000
Florida .....	165.0	160.0	3,400	3,900	3,900	561,000	624,000
Georgia .....	800.0	750.0	4,100	4,400	4,400	3,280,000	3,300,000
Mississippi .....	22.0	17.0	4,400	4,100	4,100	96,800	69,700
New Mexico .....	4.8	11.0	3,000	3,100	3,100	14,400	34,100
North Carolina .....	106.0	113.0	4,000	4,000	3,900	424,000	440,700
Oklahoma .....	14.0	15.0	4,200	4,200	4,000	58,800	60,000
South Carolina .....	82.0	66.0	3,400	4,000	4,000	278,800	264,000
Texas .....	175.0	155.0	2,800	3,550	3,350	490,000	519,250
Virginia .....	27.0	29.0	4,100	4,400	4,600	110,700	133,400
United States .....	1,615.8	1,533.0	3,796	4,183	4,141	6,133,900	6,348,150

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

[Includes updates to planted and harvested area previously published]

State	Area planted		Area harvested	
	2020 (1,000 acres)	2021 (1,000 acres)	2020 (1,000 acres)	2021 <sup>1</sup> (1,000 acres)
<b>Upland</b>				
Alabama .....	450.0	405.0	446.0	400.0
Arizona .....	125.0	120.0	123.0	119.0
Arkansas .....	525.0	475.0	520.0	470.0
California .....	34.0	25.0	33.5	24.5
Florida .....	98.0	91.0	93.0	89.0
Georgia .....	1,190.0	1,170.0	1,180.0	1,160.0
Kansas .....	195.0	110.0	184.0	101.0
Louisiana .....	170.0	110.0	165.0	105.0
Mississippi .....	530.0	445.0	525.0	430.0
Missouri .....	295.0	315.0	287.0	310.0
New Mexico .....	43.0	36.0	26.0	28.0
North Carolina .....	360.0	370.0	330.0	350.0
Oklahoma .....	525.0	485.0	435.0	415.0
South Carolina .....	190.0	210.0	179.0	205.0
Tennessee .....	280.0	275.0	275.0	270.0
Texas .....	6,800.0	6,350.0	3,200.0	5,250.0
Virginia .....	80.0	74.0	79.0	73.0
United States .....	11,890.0	11,066.0	8,080.5	9,799.5
<b>American Pima</b>				
Arizona .....	6.5	9.0	6.5	9.0
California .....	147.0	86.0	146.0	85.0
New Mexico .....	10.5	12.5	10.5	12.2
Texas .....	38.0	17.0	31.0	16.0
United States .....	202.0	124.5	194.0	122.2
<b>All</b>				
Alabama .....	450.0	405.0	446.0	400.0
Arizona .....	131.5	129.0	129.5	128.0
Arkansas .....	525.0	475.0	520.0	470.0
California .....	181.0	111.0	179.5	109.5
Florida .....	98.0	91.0	93.0	89.0
Georgia .....	1,190.0	1,170.0	1,180.0	1,160.0
Kansas .....	195.0	110.0	184.0	101.0
Louisiana .....	170.0	110.0	165.0	105.0
Mississippi .....	530.0	445.0	525.0	430.0
Missouri .....	295.0	315.0	287.0	310.0
New Mexico .....	53.5	48.5	36.5	40.2
North Carolina .....	360.0	370.0	330.0	350.0
Oklahoma .....	525.0	485.0	435.0	415.0
South Carolina .....	190.0	210.0	179.0	205.0
Tennessee .....	280.0	275.0	275.0	270.0
Texas .....	6,838.0	6,367.0	3,231.0	5,266.0
Virginia .....	80.0	74.0	79.0	73.0
United States .....	12,092.0	11,190.5	8,274.5	9,921.7

<sup>1</sup> Forecasted.

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

Type and State	Area harvested		Yield per acre			Production <sup>1</sup>	
	2020	2021	2020	2021		2020	2021
				August 1	September 1		
	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(pounds)	(1,000 bales) <sup>2</sup>	(1,000 bales) <sup>2</sup>
<b>Upland</b>							
Alabama .....	446.0	400.0	790	924	924	734.0	770.0
Arizona .....	123.0	119.0	1,179	1,238	1,250	302.0	310.0
Arkansas .....	520.0	470.0	1,179	1,161	1,174	1,277.0	1,150.0
California .....	33.5	24.5	2,006	1,884	1,900	140.0	97.0
Florida .....	93.0	89.0	532	764	809	103.0	150.0
Georgia .....	1,180.0	1,160.0	887	928	910	2,180.0	2,200.0
Kansas .....	184.0	101.0	783	1,168	1,069	300.0	225.0
Louisiana .....	165.0	105.0	986	1,002	1,097	339.0	240.0
Mississippi .....	525.0	430.0	1,079	1,142	1,150	1,180.0	1,030.0
Missouri .....	287.0	310.0	1,144	1,228	1,316	684.0	850.0
New Mexico .....	26.0	28.0	1,052	960	977	57.0	57.0
North Carolina .....	330.0	350.0	759	795	809	522.0	590.0
Oklahoma .....	435.0	415.0	702	743	856	636.0	740.0
South Carolina .....	179.0	205.0	802	911	948	299.0	405.0
Tennessee .....	275.0	270.0	1,066	1,031	1,049	611.0	590.0
Texas .....	3,200.0	5,250.0	686	620	786	4,570.0	8,600.0
Virginia .....	79.0	73.0	772	1,068	1,118	127.0	170.0
United States .....	8,080.5	9,799.5	835	794	890	14,061.0	18,174.0
<b>American Pima</b>							
Arizona .....	6.5	9.0	1,034	840	853	14.0	16.0
California .....	146.0	85.0	1,562	1,430	1,519	475.0	269.0
New Mexico .....	10.5	12.2	663	960	787	14.5	20.0
Texas .....	31.0	16.0	666	914	900	43.0	30.0
United States .....	194.0	122.2	1,352	1,281	1,316	546.5	335.0
<b>All</b>							
Alabama .....	446.0	400.0	790	924	924	734.0	770.0
Arizona .....	129.5	128.0	1,171	1,214	1,223	316.0	326.0
Arkansas .....	520.0	470.0	1,179	1,161	1,174	1,277.0	1,150.0
California .....	179.5	109.5	1,645	1,560	1,604	615.0	366.0
Florida .....	93.0	89.0	532	764	809	103.0	150.0
Georgia .....	1,180.0	1,160.0	887	928	910	2,180.0	2,200.0
Kansas .....	184.0	101.0	783	1,168	1,069	300.0	225.0
Louisiana .....	165.0	105.0	986	1,002	1,097	339.0	240.0
Mississippi .....	525.0	430.0	1,079	1,142	1,150	1,180.0	1,030.0
Missouri .....	287.0	310.0	1,144	1,228	1,316	684.0	850.0
New Mexico .....	36.5	40.2	940	960	919	71.5	77.0
North Carolina .....	330.0	350.0	759	795	809	522.0	590.0
Oklahoma .....	435.0	415.0	702	743	856	636.0	740.0
South Carolina .....	179.0	205.0	802	911	948	299.0	405.0
Tennessee .....	275.0	270.0	1,066	1,031	1,049	611.0	590.0
Texas .....	3,231.0	5,266.0	685	621	787	4,613.0	8,630.0
Virginia .....	79.0	73.0	772	1,068	1,118	127.0	170.0
United States .....	8,274.5	9,921.7	847	800	895	14,607.5	18,509.0

<sup>1</sup> Production ginned and to be ginned.

<sup>2</sup> 480-pound net weight bale.

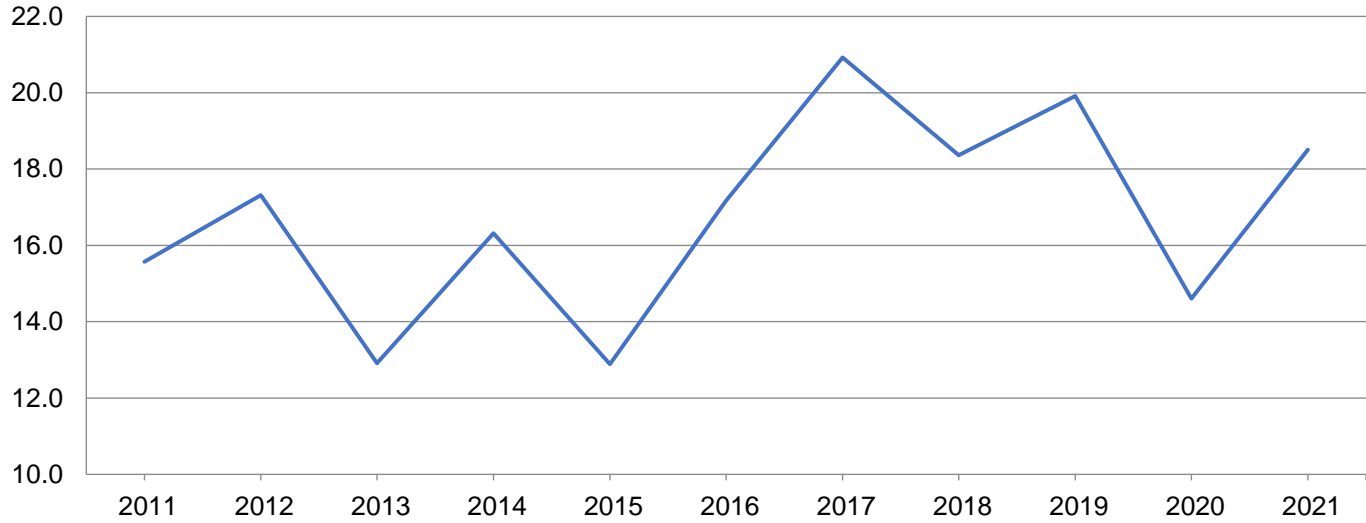
## Cottonseed Production – United States: 2020 and Forecasted September 1, 2021

State	Production	
	2020 (1,000 tons)	2021 <sup>1</sup> (1,000 tons)
United States .....	4,509.0	5,645.0

<sup>1</sup> Based on a 3-year average lint-seed ratio.

## Cotton Production - United States

Million bales





## 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 <sup>1</sup>
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
California .....	24.0	24.0	23.9	23.9
Colorado .....	24.2	24.4	23.7	23.7
Idaho .....	172.0	172.0	169.0	170.0
Michigan .....	157.0	154.0	154.0	152.0
Minnesota .....	432.0	429.0	427.0	427.0
Montana .....	43.6	44.0	38.0	42.0
Nebraska .....	46.2	44.0	45.7	43.6
North Dakota .....	221.0	226.0	219.0	224.0
Oregon .....	9.4	10.3	9.4	10.3
Washington .....	1.8	1.9	1.8	1.9
Wyoming .....	31.0	31.0	30.8	30.5
United States .....	1,162.2	1,160.6	1,142.3	1,148.9

<sup>1</sup> Forecasted.

## Sugarbeet for Sugar Area Harvested, Yield, and Production – States and United States: 2020 and Forecasted September 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
				August 1	September 1		
	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)	(1,000 tons)	(1,000 tons)
California <sup>1</sup> .....	23.9	23.9	45.5	45.5	45.5	1,087	1,087
Colorado .....	23.7	23.7	31.3	31.8	32.8	742	777
Idaho .....	169.0	170.0	40.5	40.4	41.1	6,845	6,987
Michigan .....	154.0	152.0	28.3	29.3	31.6	4,358	4,803
Minnesota .....	427.0	427.0	26.1	26.5	26.6	11,145	11,358
Montana .....	38.0	42.0	31.3	30.9	31.6	1,189	1,327
Nebraska .....	45.7	43.6	31.0	29.8	29.7	1,417	1,295
North Dakota .....	219.0	224.0	24.9	25.1	25.0	5,453	5,600
Oregon .....	9.4	10.3	40.9	44.0	40.3	384	415
Washington .....	1.8	1.9	47.8	48.1	47.8	86	91
Wyoming .....	30.8	30.5	29.6	28.2	28.6	912	872
United States .....	1,142.3	1,148.9	29.4	29.7	30.1	33,618	34,612

<sup>1</sup> 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 September 1, 2021**

State	Area harvested		Yield per acre <sup>1</sup>			Production <sup>1</sup>	
	2020	2021	2020	2021		2020	2021
				August 1	September 1		
	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)	(1,000 tons)	(1,000 tons)
Florida .....	423.3	405.0	44.4	42.7	42.7	18,795	17,294
Louisiana .....	488.4	490.0	33.1	32.3	33.2	16,167	16,268
Texas .....	35.9	36.0	31.7	32.0	32.5	1,138	1,170
United States .....	947.6	931.0	38.1	36.8	37.3	36,100	34,732

<sup>1</sup> Net tons.

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

State	Area harvested		Yield per acre			Production	
	2020	2021	2020	2021		2020	2021
				August 1	September 1		
	(acres)	(acres)	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)
Georgia .....	7,900	8,000	2,440	2,300	2,000	19,276	16,000
Kentucky .....	51,400	52,400	2,086	2,210	2,280	107,235	119,460
North Carolina .....	102,310	120,290	1,800	1,999	1,999	184,127	240,493
Pennsylvania .....	5,500	5,500	2,444	2,487	2,581	13,440	14,195
South Carolina .....	6,000	8,000	1,400	2,000	2,000	8,400	16,000
Tennessee .....	12,300	13,400	2,389	2,398	2,375	29,380	31,830
Virginia .....	12,650	15,610	2,178	1,993	1,993	27,555	31,112
United States .....	198,060	223,200	1,966	2,096	2,102	389,413	469,090

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

Class, type, and State	Area harvested		Yield per acre			Production	
	2020	2021	2020	2021		2020	2021
				August 1	September 1		
	(acres)	(acres)	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)
<b>Class 1, Flue-cured (11-14)</b>							
Georgia .....	7,900	8,000	2,440	2,300	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	8,000	1,400	2,000	2,000	8,400	16,000
Virginia .....	12,000	15,000	2,200	2,000	2,000	26,400	30,000
United States .....	127,900	151,000	1,858	2,016	2,000	237,676	302,000
<b>Class 2, Fire-cured (21-23)</b>							
Kentucky .....	8,300	8,700	2,500	3,000	3,300	20,750	28,710
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	2,984	3,157	37,755	47,510
<b>Class 3A, Light air-cured</b>							
Type 31, Burley							
Kentucky .....	37,000	37,000	1,950	2,000	2,000	72,150	74,000
North Carolina .....	310	290	1,700	1,700	1,700	527	493
Pennsylvania .....	2,800	2,800	2,500	2,600	2,700	7,000	7,560
Tennessee .....	2,800	3,000	1,550	1,500	1,500	4,340	4,500
Virginia .....	400	360	1,700	1,700	1,700	680	612
United States .....	43,310	43,450	1,956	2,000	2,006	84,697	87,165
Type 32, Southern Maryland Belt							
Pennsylvania .....	400	400	2,300	2,200	2,500	920	1,000
United States .....	400	400	2,300	2,200	2,500	920	1,000
<b>Total light air-cured (31-32) .....</b>	<b>43,710</b>	<b>43,850</b>	<b>1,959</b>	<b>2,001</b>	<b>2,011</b>	<b>85,617</b>	<b>88,165</b>
<b>Class 3B, Dark air-cured (35-37)</b>							
Kentucky .....	6,100	6,700	2,350	2,300	2,500	14,335	16,750
Tennessee .....	3,700	4,300	2,300	2,100	2,100	8,510	9,030
United States .....	9,800	11,000	2,331	2,222	2,344	22,845	25,780
<b>Class 4, Cigar filler</b>							
Type 41, Pennsylvania Seedleaf							
Pennsylvania .....	2,300	2,300	2,400	2,400	2,450	5,520	5,635
United States .....	2,300	2,300	2,400	2,400	2,450	5,520	5,635
<b>All tobacco</b>							
United States .....	198,060	223,200	1,966	2,096	2,102	389,413	469,090

## Lentil 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 <sup>1</sup>
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Idaho .....	29.0	21.0	28.0	20.0
Montana .....	370.0	530.0	360.0	490.0
North Dakota .....	83.0	120.0	81.0	118.0
Washington .....	46.0	40.0	45.0	39.0
United States .....	528.0	711.0	514.0	667.0

<sup>1</sup> Forecasted.

## Lentil Area Harvested, Yield, and Production – States and United States: 2020 and Forecasted September 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 cwt)	(1,000 cwt)
Idaho .....	28.0	20.0	1,300	920	364	184
Montana .....	360.0	490.0	1,480	680	5,328	3,332
North Dakota .....	81.0	118.0	1,400	1,030	1,134	1,215
Washington .....	45.0	39.0	1,300	920	585	359
United States ....	514.0	667.0	1,442	763	7,411	5,090

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

[Includes updates to planted and harvested area previously published. Includes wrinkled seed peas and Austrian Winter peas]

State	Area planted		Area harvested	
	2020	2021	2020	2021 <sup>1</sup>
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Idaho .....	35.0	31.0	34.0	30.0
Montana .....	490.0	560.0	475.0	520.0
Nebraska .....	36.0	29.0	33.0	27.0
North Dakota .....	330.0	255.0	325.0	250.0
South Dakota .....	29.0	26.0	28.0	24.0
Washington .....	79.0	69.0	78.0	68.0
United States .....	999.0	970.0	973.0	919.0

<sup>1</sup> Forecasted.

## Dry Edible Pea Area Harvested, Yield, and Production – States and United States: 2020 and Forecasted September 1, 2021

[Includes wrinkled seed peas and Austrian winter peas]

State	Area harvested		Yield per acre		Production	
	2020	2021	2020	2021	2020	2021
	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)
Idaho .....	34.0	30.0	2,500	1,760	850	528
Montana .....	475.0	520.0	2,070	990	9,833	5,148
Nebraska .....	33.0	27.0	1,400	1,620	462	437
North Dakota .....	325.0	250.0	2,400	1,930	7,800	4,825
South Dakota .....	28.0	24.0	1,600	1,650	448	396
Washington .....	78.0	68.0	3,000	1,200	2,340	816
United States .....	973.0	919.0	2,234	1,322	21,733	12,150

## Chickpea Area Planted and Harvested – States and United States: 2020 and 2021

[Includes updates to planted and harvested area previously published]

Size and State	Area planted		Area harvested	
	2020 (1,000 acres)	2021 (1,000 acres)	2020 (1,000 acres)	2021 <sup>1</sup> (1,000 acres)
<b>Small chickpeas<sup>2</sup></b>				
California .....	(D)	(D)	(D)	(D)
Idaho .....	6.6	10.0	6.6	9.9
Montana .....	21.7	30.0	21.4	26.8
North Dakota .....	(D)	(D)	(D)	(D)
Washington .....	14.9	16.0	14.9	15.9
Other States <sup>3</sup> .....	5.2	4.8	5.0	4.6
United States .....	48.4	60.8	47.9	57.2
<b>Large chickpeas<sup>4</sup></b>				
California .....	(D)	(D)	(D)	(D)
Idaho .....	54.5	76.0	54.2	75.5
Montana .....	94.6	142.0	88.9	138.0
North Dakota .....	(D)	(D)	(D)	(D)
Washington .....	56.8	83.0	56.8	82.8
Other States <sup>3</sup> .....	15.5	14.5	15.1	14.1
United States .....	221.4	315.5	215.0	310.4
<b>All chickpeas</b>				
California .....	8.3	3.1	8.1	3.0
Idaho .....	61.1	86.0	60.8	85.4
Montana .....	116.3	172.0	110.3	164.8
North Dakota .....	12.4	16.2	12.0	15.7
Washington .....	71.7	99.0	71.7	98.7
United States .....	269.8	376.3	262.9	367.6

(D) Withheld to avoid disclosing data for individual operations.

<sup>1</sup> Forecasted.

<sup>2</sup> Chickpeas 20/64 inches or smaller.

<sup>3</sup> Includes data withheld above.

<sup>4</sup> Chickpeas larger than 20/64 inches.

**Chickpea Area Harvested, Yield, and Production – States and United States: 2020 and Forecasted September 1, 2021**

Size and State	Area harvested		Yield per acre		Production	
	2020 (1,000 acres)	2021 (1,000 acres)	2020 (pounds)	2021 (pounds)	2020 (1,000 cwt)	2021 (1,000 cwt)
<b>Small chickpeas <sup>1</sup></b>						
California .....	(D)	(D)	(D)	(D)	(D)	(D)
Idaho .....	6.6	9.9	1,870	800	123	79
Montana .....	21.4	26.8	1,430	700	306	188
North Dakota .....	(D)	(D)	(D)	(D)	(D)	(D)
Washington .....	14.9	15.9	1,880	600	280	95
Other States <sup>2</sup> .....	5.0	4.6	2,120	1,152	106	53
United States .....	47.9	57.2	1,701	726	815	415
<b>Large chickpeas <sup>3</sup></b>						
California .....	(D)	(D)	(D)	(D)	(D)	(D)
Idaho .....	54.2	75.5	1,470	800	797	604
Montana .....	88.9	138.0	1,480	900	1,316	1,242
North Dakota .....	(D)	(D)	(D)	(D)	(D)	(D)
Washington .....	56.8	82.8	1,750	700	994	580
Other States <sup>2</sup> .....	15.1	14.1	2,325	1,362	351	192
United States .....	215.0	310.4	1,608	843	3,458	2,618
<b>All chickpeas</b>						
California .....	8.1	3.0	2,700	2,770	219	83
Idaho .....	60.8	85.4	1,510	800	920	683
Montana .....	110.3	164.8	1,470	870	1,622	1,430
North Dakota .....	12.0	15.7	1,980	1,030	238	162
Washington .....	71.7	98.7	1,780	680	1,274	675
United States .....	262.9	367.6	1,625	825	4,273	3,033

(D) Withheld to avoid disclosing data for individual operations.

<sup>1</sup> Chickpeas 20/64 inches or smaller.

<sup>2</sup> Includes data withheld above.

<sup>3</sup> Chickpeas larger than 20/64 inches.

## Utilized Production of Nuts by Crop – States and United States: 2020 and Forecasted September 1, 2021

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

Crop and State	Utilized Production	
	2020 (tons)	2021 (tons)
<b>Hazelnuts in-shell basis</b> <sup>1</sup> .....		
Oregon .....	63,000	
United States .....	63,000	
<b>Walnuts in-shell basis</b>		
California .....	785,000	670,000
United States .....	785,000	670,000

<sup>1</sup> Hazelnuts production will not be forecasted this season. Estimates will be published in *Noncitrus Fruits and Nuts 2021 Summary*.

## Utilized Production of Oranges by Type – States and United States: 2020-2021 and Forecasted September 1, 2021

[The crop year begins with the bloom of the first year shown and ends with the completion of harvest the following year. Blank data cells indicate estimation period has not yet begun]

State and type	Utilized production boxes <sup>1</sup>		Utilized production ton equivalent	
	2020-2021 (1,000 boxes)	2021-2022 (1,000 boxes)	2020-2021 (1,000 tons)	2021-2022 (1,000 tons)
California, all .....	50,100		2,004	
Early, mid, and Navel <sup>2</sup> .....	40,600	35,000	1,624	1,400
Valencia .....	9,500		380	
Florida, all .....	52,800		2,377	
Early, mid, and Navel <sup>2</sup> .....	22,700		1,022	
Valencia .....	30,100		1,355	
Texas .....	1,050		45	
Early, mid, and Navel <sup>2</sup> .....	1,000		43	
Valencia .....	50		2	
United States, all .....	103,950		4,426	
Early, mid, and Navel <sup>2</sup> .....	64,300		2,689	
Valencia .....	39,650		1,737	

<sup>1</sup> Net pounds per box: California-80, Florida-90, Texas-85.

<sup>2</sup> Navel and miscellaneous varieties in California. Early (including Navel) and midseason varieties in Florida and Texas.



## 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)
<b>Grains and hay</b>				
Barley .....	2,621	2,603	2,133	2,044
Corn for grain <sup>1</sup> .....	90,819	93,304	82,467	85,085
Corn for silage .....	(NA)		6,719	
Hay, all .....	(NA)	(NA)	52,238	51,537
Alfalfa .....	(NA)	(NA)	16,230	16,123
All other .....	(NA)	(NA)	36,008	35,414
Oats .....	2,984	2,352	1,004	722
Proso millet .....	609	600	484	
Rice .....	3,036	2,541	2,987	2,499
Rye .....	1,955	2,125	330	364
Sorghum for grain <sup>1</sup> .....	5,880	7,340	5,095	6,520
Sorghum for silage .....	(NA)		239	
Wheat, all .....	44,349	46,743	36,746	38,102
Winter .....	30,415	33,683	23,024	25,443
Durum .....	1,684	1,480	1,662	1,444
Other spring .....	12,250	11,580	12,060	11,215
<b>Oilseeds</b>				
Canola .....	1,825.0	2,003.0	1,789.0	1,956.0
Cottonseed .....	(X)	(X)	(X)	(X)
Flaxseed .....	305	390	296	366
Mustard seed .....	97.0	88.0	91.4	84.0
Peanuts .....	1,664.2	1,580.0	1,615.8	1,533.0
Rapeseed .....	11.2	15.5	10.1	14.5
Safflower .....	136.0	135.0	126.7	127.5
Soybeans for beans .....	83,084	87,235	82,318	86,436
Sunflower .....	1,718.7	1,376.0	1,665.7	1,312.0
<b>Cotton, tobacco, and sugar crops</b>				
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	1,160.6	1,142.3	1,148.9
Sugarcane .....	(NA)	(NA)	947.6	931.0
Tobacco .....	(NA)	(NA)	198.1	223.2
<b>Dry beans, peas, and lentils</b>				
Chickpeas .....	269.8	376.3	262.9	367.6
Dry edible beans .....	1,740.0	1,455.0	1,676.5	1,391.0
Dry edible peas .....	999.0	970.0	973.0	919.0
Lentils .....	528.0	711.0	514.0	667.0
<b>Potatoes and miscellaneous</b>				
Hops .....	(NA)	(NA)	58.6	60.8
Maple syrup .....	(NA)	(NA)	(NA)	(NA)
Mushrooms .....	(NA)	(NA)	(NA)	(NA)
Peppermint oil .....	(NA)		50.1	
Potatoes .....	921.0	943.0	914.1	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 (1,000)	2021 (1,000)
<b>Grains and hay</b>				
Barley .....bushels	77.5	51.6	165,324	105,557
Corn for grain .....bushels	172.0	176.3	14,182,479	14,996,417
Corn for silage ..... tons	20.5		137,729	
Hay, all ..... tons	2.43	2.30	126,812	118,740
Alfalfa ..... tons	3.27	2.97	53,067	47,813
All other ..... tons	2.05	2.00	73,745	70,927
Oats .....bushels	65.1	57.4	65,355	41,431
Proso millet .....bushels	19.0		9,210	
Rice <sup>2</sup> .....cwt	7,619	7,623	227,583	190,499
Rye .....bushels	34.9		11,532	
Sorghum for grain .....bushels	73.2	69.7	372,960	454,285
Sorghum for silage ..... tons	13.1		3,125	
Wheat, all .....bushels	49.7	44.5	1,825,820	1,696,805
Winter .....bushels	50.9	51.8	1,171,022	1,318,735
Durum .....bushels	41.4	24.0	68,808	34,660
Other spring .....bushels	48.6	30.6	585,990	343,410
<b>Oilseeds</b>				
Canola ..... pounds	1,931		3,454,950	
Cottonseed ..... tons	(X)	(X)	4,509.0	5,645.0
Flaxseed .....bushels	19.3		5,706	
Mustard seed ..... pounds	895		81,770	
Peanuts ..... pounds	3,796	4,141	6,133,900	6,348,150
Rapeseed ..... pounds	1,971		19,910	
Safflower ..... pounds	1,167		147,800	
Soybeans for beans .....bushels	50.2	50.6	4,135,477	4,373,927
Sunflower ..... pounds	1,790		2,982,410	
<b>Cotton, tobacco, and sugar crops</b>				
Cotton, all <sup>2</sup> .....bales	847	895	14,607.5	18,509.0
Upland <sup>2</sup> .....bales	835	890	14,061.0	18,174.0
American Pima <sup>2</sup> .....bales	1,352	1,316	546.5	335.0
Sugarbeets ..... tons	29.4	30.1	33,618	34,612
Sugarcane ..... tons	38.1	37.3	36,100	34,732
Tobacco ..... pounds	1,966	2,102	389,413	469,090
<b>Dry beans, peas, and lentils</b>				
Chickpeas <sup>2</sup> .....cwt	1,625	825	4,273	3,033
Dry edible beans <sup>2</sup> .....cwt	1,966	1,675	32,963	23,302
Dry edible peas <sup>2</sup> .....cwt	2,234	1,322	21,733	12,150
Lentils <sup>2</sup> .....cwt	1,442	763	7,411	5,090
<b>Potatoes and miscellaneous</b>				
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	453		414,248	
Spearmint oil ..... pounds	121		2,134	

(NA) Not available.

(X) Not applicable.

<sup>1</sup> Area planted for all purposes.

<sup>2</sup> 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)
<b>Grains and hay</b>				
Barley .....	1,060,690	1,053,410	863,200	827,190
Corn for grain <sup>1</sup> .....	36,753,540	37,759,200	33,373,570	34,433,050
Corn for silage .....	(NA)		2,719,110	
Hay, all <sup>2</sup> .....	(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 .....	1,207,590	951,830	406,310	292,190
Proso millet .....	246,460	242,810	195,870	
Rice .....	1,228,640	1,028,320	1,208,810	1,011,320
Rye .....	791,170	859,970	133,550	147,310
Sorghum for grain <sup>1</sup> .....	2,379,580	2,970,420	2,061,900	2,638,580
Sorghum for silage .....	(NA)		96,720	
Wheat, all <sup>2</sup> .....	17,947,600	18,916,420	14,870,740	15,419,500
Winter .....	12,308,650	13,631,170	9,317,580	10,296,530
Durum .....	681,500	598,940	672,590	584,370
Other spring .....	4,957,450	4,686,310	4,880,560	4,538,600
<b>Oilseeds</b>				
Canola .....	738,560	810,590	723,990	791,570
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 .....	673,490	639,410	653,900	620,390
Rapeseed .....	4,530	6,270	4,090	5,870
Safflower .....	55,040	54,630	51,270	51,600
Soybeans for beans .....	33,623,260	35,303,130	33,313,270	34,979,780
Sunflower .....	695,540	556,850	674,090	530,950
<b>Cotton, tobacco, and sugar crops</b>				
Cotton, all <sup>2</sup> .....	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	469,680	462,280	464,950
Sugarcane .....	(NA)	(NA)	383,480	376,770
Tobacco .....	(NA)	(NA)	80,150	90,330
<b>Dry beans, peas, and lentils</b>				
Chickpeas .....	109,190	152,280	106,390	148,760
Dry edible beans .....	704,160	588,820	678,460	562,920
Dry edible peas .....	404,290	392,550	393,760	371,910
Lentils .....	213,680	287,730	208,010	269,930
<b>Potatoes and miscellaneous</b>				
Hops .....	(NA)	(NA)	23,730	24,580
Maple syrup .....	(NA)	(NA)	(NA)	(NA)
Mushrooms .....	(NA)	(NA)	(NA)	(NA)
Peppermint oil .....	(NA)		20,270	
Potatoes .....	372,720	381,620	369,930	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)
<b>Grains and hay</b>				
Barley .....	4.17	2.78	3,599,510	2,298,230
Corn for grain .....	10.79	11.06	360,251,560	380,926,540
Corn for silage .....	45.95		124,945,650	
Hay, all <sup>2</sup> .....	5.44	5.16	115,041,910	107,719,120
Alfalfa .....	7.33	6.65	48,141,570	43,375,220
All other .....	4.59	4.49	66,900,340	64,343,890
Oats .....	2.33	2.06	948,630	601,370
Proso millet .....	1.07		208,880	
Rice .....	8.54	8.54	10,322,990	8,640,890
Rye .....	2.19		292,930	
Sorghum for grain .....	4.59	4.37	9,473,620	11,539,370
Sorghum for silage .....	29.31		2,834,950	
Wheat, all <sup>2</sup> .....	3.34	2.99	49,690,680	46,179,460
Winter .....	3.42	3.49	31,870,000	35,890,090
Durum .....	2.78	1.61	1,872,650	943,290
Other spring .....	3.27	2.06	15,948,030	9,346,090
<b>Oilseeds</b>				
Canola .....	2.16		1,567,140	
Cottonseed .....	(X)	(X)	4,090,500	5,121,060
Flaxseed .....	1.21		144,940	
Mustard seed .....	1.00		37,090	
Peanuts .....	4.25	4.64	2,782,290	2,879,470
Rapeseed .....	2.21		9,030	
Safflower .....	1.31		67,040	
Soybeans for beans .....	3.38	3.40	112,549,240	119,038,790
Sunflower .....	2.01		1,352,800	
<b>Cotton, tobacco, and sugar crops</b>				
Cotton, all <sup>2</sup> .....	0.95	1.00	3,180,410	4,029,860
Upland .....	0.94	1.00	3,061,420	3,956,920
American Pima .....	1.52	1.47	118,990	72,940
Sugarbeets .....	65.97	67.53	30,497,740	31,399,480
Sugarcane .....	85.40	83.63	32,749,370	31,508,340
Tobacco .....	2.20	2.36	176,630	212,780
<b>Dry beans, peas, and lentils</b>				
Chickpeas .....	1.82	0.92	193,820	137,570
Dry edible beans .....	2.20	1.88	1,495,180	1,056,960
Dry edible peas .....	2.50	1.48	985,790	551,110
Lentils .....	1.62	0.86	336,160	230,880
<b>Potatoes and miscellaneous</b>				
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 .....	50.79		18,789,970	
Spearmint oil .....	0.14		970	

(NA) Not available.

(X) Not applicable.

<sup>1</sup> Area planted for all purposes.

<sup>2</sup> Total may not add due to rounding.

## Fruits and Nuts 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, except citrus which is for the 2020-2021 season. Blank data cells indicate estimation period has not yet begun]

Crop	Production	
	2020	2021
<b>Citrus<sup>1</sup></b>		
Grapefruit ..... 1,000 tons	570	426
Lemons ..... 1,000 tons	1,084	884
Oranges ..... 1,000 tons	5,254	4,426
Tangerines and mandarins ..... 1,000 tons	944	1,166
<b>Noncitrus</b>		
Apples, commercial ..... million pounds	10,253.0	10,525.0
Apricots ..... tons	33,400	55,500
Avocados ..... tons	206,610	
Blueberries, Cultivated ..... 1,000 pounds	648,200	
Blueberries, Wild (Maine) ..... 1,000 pounds	47,400	
Cherries, Sweet ..... tons	325,100	369,000
Cherries, Tart ..... million pounds	139.5	142.0
Coffee (Hawaii) ..... 1,000 pounds	23,870	
Cranberries ..... barrel	7,830,000	7,900,000
Dates ..... tons	62,600	
Grapes ..... tons	5,940,000	6,470,000
Kiwifruit (California) ..... tons	40,000	
Nectarines (California) ..... tons	122,500	
Olives (California) ..... tons	67,700	
Papayas (Hawaii) ..... 1,000 pounds	8,280	
Peaches ..... tons	617,760	696,500
Pears ..... tons	672,000	670,000
Plums (California) ..... tons	105,000	
Prunes (California) ..... tons	165,880	
Raspberries ..... 1,000 pounds	222,000	
Strawberries ..... 1,000 cwt	23,280.0	
<b>Nuts and miscellaneous</b>		
Almonds, shelled (California) ..... 1,000 pounds	3,115,000	2,800,000
Hazelnuts, in-shell (Oregon) ..... tons	63,000	
Macadamias (Hawaii) ..... 1,000 pounds	39,500	
Pecans, in-shell ..... 1,000 pounds	305,360	
Pistachios (California) ..... 1,000 pounds	1,045,000	
Walnuts, in-shell (California) ..... tons	785,000	670,000

<sup>1</sup> Production years are 2019-2020 and 2020-2021.

## Fruits and Nuts 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, except citrus which is for the 2020-2021 season. Blank data cells indicate estimation period has not yet begun]

Crop	Production	
	2020 (metric tons)	2021 (metric tons)
<b>Citrus<sup>1</sup></b>		
Grapefruit .....	517,100	386,460
Lemons .....	983,390	801,950
Oranges .....	4,766,350	4,015,200
Tangerines and mandarins .....	856,380	1,057,780
<b>Noncitrus</b>		
Apples, commercial .....	4,650,680	4,774,060
Apricots .....	30,300	50,350
Avocados .....	187,430	
Blueberries, Cultivated .....	294,020	
Blueberries, Wild (Maine) .....	21,500	
Cherries, Sweet .....	294,930	334,750
Cherries, Tart .....	63,280	64,410
Coffee (Hawaii) .....	10,830	
Cranberries .....	355,160	358,340
Dates .....	56,790	
Grapes .....	5,388,680	5,869,490
Kiwifruit (California) .....	36,290	
Nectarines (California) .....	111,130	
Olives (California) .....	61,420	
Papayas (Hawaii) .....	3,760	
Peaches .....	560,420	631,850
Pears .....	609,630	607,810
Plums (California) .....	95,250	
Prunes (California) .....	150,480	
Raspberries .....	100,700	
Strawberries .....	1,055,960	
<b>Nuts and miscellaneous</b>		
Almonds, shelled (California) .....	1,412,940	1,270,060
Hazelnuts, in-shell (Oregon) .....	57,150	
Macadamias (Hawaii) .....	17,920	
Pecans, in-shell .....	138,510	
Pistachios (California) .....	474,000	
Walnuts, in-shell (California) .....	712,140	607,810

<sup>1</sup> Production years are 2019-2020 and 2020-2021.

## 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	State and month	2017	2018	2019	2020	2021
	(number)	(number)	(number)	(number)	(number)		(number)	(number)	(number)	(number)	(number)
<b>Illinois</b>						<b>Nebraska</b>					
September .....	30,800	32,000	31,100	30,600	31,550	All corn					
October .....	30,900	32,000	30,950	30,400		September .....	25,950	27,100	25,850	27,450	26,750
November .....	30,950	32,000	30,900	30,400		October .....	25,800	26,750	25,850	27,450	
Final .....	30,950	32,000	30,900	30,400		November .....	25,700	26,750	25,700	27,400	
						Final .....	25,700	26,750	25,700	27,400	
<b>Indiana</b>						<b>Irrigated</b>					
September .....	29,550	30,450	29,300	29,850	29,700	September .....	29,050	30,300	28,300	29,950	29,350
October .....	29,350	30,400	29,050	29,800		October .....	29,000	29,900	28,350	30,100	
November .....	29,200	30,400	29,000	29,850		November .....	28,750	29,900	28,300	30,100	
Final .....	29,200	30,400	28,950	29,850		Final .....	28,750	29,900	28,300	30,100	
<b>Iowa</b>						<b>Non-irrigated</b>					
September .....	31,300	31,350	30,850	31,050	31,850	September .....	22,500	23,350	23,300	24,950	24,050
October .....	31,150	31,150	30,800	31,000		October .....	22,200	23,100	23,250	24,750	
November .....	31,150	31,100	30,750	31,050		November .....	22,250	23,150	23,000	24,700	
Final .....	31,150	31,100	30,750	31,050		Final .....	22,250	23,150	23,000	24,700	
<b>Kansas</b>						<b>Ohio</b>					
September .....	22,050	22,600	21,350	21,700	22,050	September .....	29,250	30,550	30,050	29,800	30,400
October .....	22,100	22,450	21,200	21,650		October .....	29,150	30,400	30,100	29,900	
November .....	22,300	22,450	21,200	21,650		November .....	29,100	30,400	30,000	29,900	
Final .....	22,300	22,450	21,200	21,650		Final .....	29,100	30,400	30,000	29,850	
<b>Minnesota</b>						<b>South Dakota</b>					
September .....	30,750	30,950	30,700	31,750	30,750	September .....	26,250	27,000	26,400	25,450	26,150
October .....	30,550	30,900	30,650	31,800		October .....	26,200	26,750	26,100	25,400	
November .....	30,600	30,900	30,550	31,800		November .....	26,200	27,000	26,000	25,550	
Final .....	30,600	30,900	30,650	31,800		Final .....	26,200	27,000	25,900	25,550	
<b>Missouri</b>						<b>Wisconsin</b>					
September .....	27,850	28,500	28,200	28,200	27,250	September .....	29,450	31,000	30,250	30,300	29,900
October .....	27,850	28,400	27,500	28,150		October .....	29,100	30,600	30,150	30,400	
November .....	27,950	28,400	27,600	28,200		November .....	29,150	30,650	29,750	30,300	
Final .....	27,950	28,400	27,600	28,200		Final .....	29,100	30,650	29,850	30,300	
						<b>10 State</b>					
						September .....	28,800	29,500	28,650	29,000	29,100
						October .....	28,700	29,350	28,500	28,950	
						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	State and month	2017	2018	2019	2020	2021
	(number)	(number)	(number)	(number)	(number)		(number)	(number)	(number)	(number)	(number)
<b>Illinois</b>						<b>Nebraska</b>					
September .....	30,200	31,550	30,300	29,900	31,100	All corn					
October .....	30,300	31,500	30,300	29,800		September ...	25,800	27,100	25,850	26,800	26,650
November .....	30,250	31,500	30,150	29,800		October .....	26,050	26,750	25,950	26,850	
Final .....	30,250	31,500	30,150	29,800		November ....	25,950	26,800	25,700	26,750	
						Final .....	25,950	26,800	25,700	26,750	
<b>Indiana</b>						<b>Irrigated</b>					
September .....	28,900	30,000	28,900	29,600	29,700	September ...	28,650	29,950	28,200	28,900	29,000
October .....	29,100	29,800	28,700	29,600		October .....	28,950	29,350	28,150	28,850	
November .....	28,850	29,750	28,650	29,600		November ....	28,750	29,300	28,000	28,800	
Final .....	28,850	29,750	28,600	29,600		Final .....	28,750	29,300	28,000	28,800	
<b>Iowa</b>						<b>Non-irrigated</b>					
September .....	30,600	31,150	30,250	30,600	31,750	September ...	22,600	23,850	23,500	24,650	24,250
October .....	30,600	30,900	30,200	30,450		October .....	22,800	23,650	23,700	24,800	
November .....	30,600	30,800	30,100	30,550		November ....	22,900	23,850	23,400	24,700	
Final .....	30,600	30,800	30,100	30,550		Final .....	22,900	23,850	23,400	24,700	
<b>Kansas</b>						<b>Ohio</b>					
September .....	22,800	22,350	21,550	22,050	22,250	September .....	29,500	30,750	29,850	29,350	30,650
October .....	22,600	21,650	22,250	21,250		October .....	29,250	30,300	29,750	29,700	
November .....	22,650	21,700	22,200	21,250		November .....	29,150	30,300	29,550	29,700	
Final .....	22,650	21,700	22,200	21,250		Final .....	29,150	30,300	29,550	29,650	
<b>Minnesota</b>						<b>South Dakota</b>					
September .....	30,750	30,850	30,050	31,750	30,800	September .....	26,250	28,100	26,450	25,550	26,250
October .....	30,850	30,850	29,800	31,850		October .....	26,150	27,750	25,300	25,550	
November .....	30,850	30,800	29,650	31,850		November .....	26,200	27,950	25,000	25,700	
Final .....	30,600	30,800	29,700	31,850		Final .....	25,850	28,050	24,900	25,700	
<b>Missouri</b>						<b>Wisconsin</b>					
September .....	27,750	27,400	26,950	27,650	26,900	September .....	28,950	30,700	29,850	30,050	30,100
October .....	27,800	27,300	26,950	27,600		October .....	28,800	30,450	30,250	30,400	
November .....	27,850	27,300	27,100	27,650		November .....	28,600	30,450	29,850	30,350	
Final .....	27,850	27,300	27,100	27,650		Final .....	28,550	30,450	29,950	30,350	
						<b>10-State</b>					
						September .....	28,550	29,350	28,200	28,650	29,050
						October .....	28,550	29,100	28,200	28,600	
						November .....	28,500	29,100	28,050	28,600	
						Final .....	28,450	29,100	28,050	28,600	



## 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 this table 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)
<b>Arkansas</b>						<b>Missouri</b>					
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		October .....	2,172	1,899	1,754	2,093	
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	
<b>Illinois</b>						<b>Nebraska</b>					
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		October .....	1,795	2,071	1,777	2,002	
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	
<b>Indiana</b>						<b>North Dakota</b>					
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		October .....	1,430	1,485	1,246	1,439	
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	
<b>Iowa</b>						<b>Ohio</b>					
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		October .....	1,714	2,180	1,760	1,972	
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	
<b>Kansas</b>						<b>South Dakota</b>					
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		October .....	1,472	1,867	1,316	1,720	
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	
<b>Minnesota</b>						<b>11-State</b>					
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		October .....	1,692	1,895	1,593	1,882	
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	

## 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]

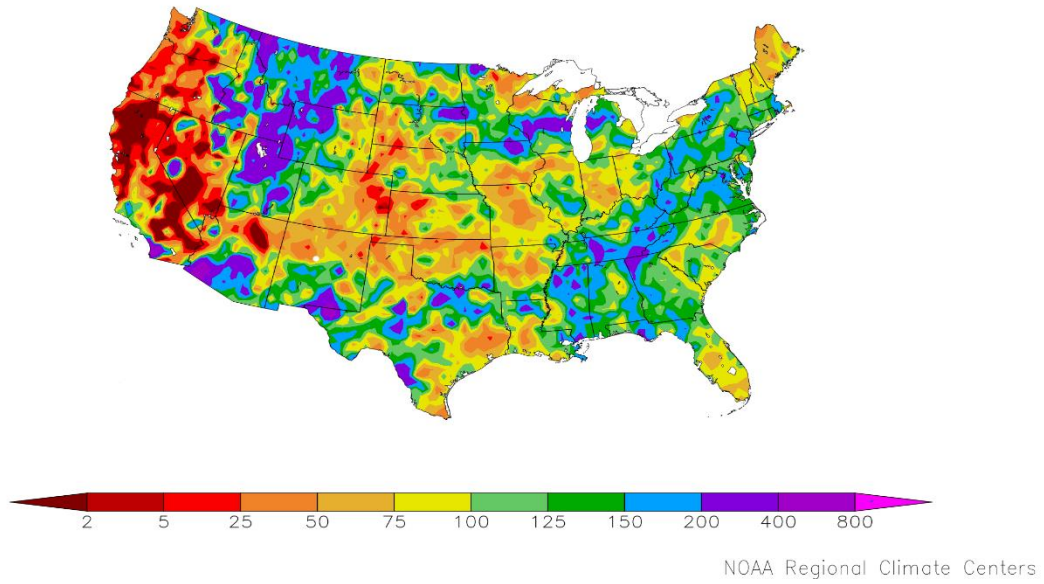
State and month	2017	2018	2019	2020	2021
	(number)	(number)	(number)	(number)	(number)
<b>Arkansas</b>					
September .....	911	891	900	994	990
October .....	839	910	896	849	
November .....	825	892	925	820	
December .....	825	892	900	820	
Final .....	825	892	900	820	
<b>Georgia</b>					
September .....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

(NA) Not available.

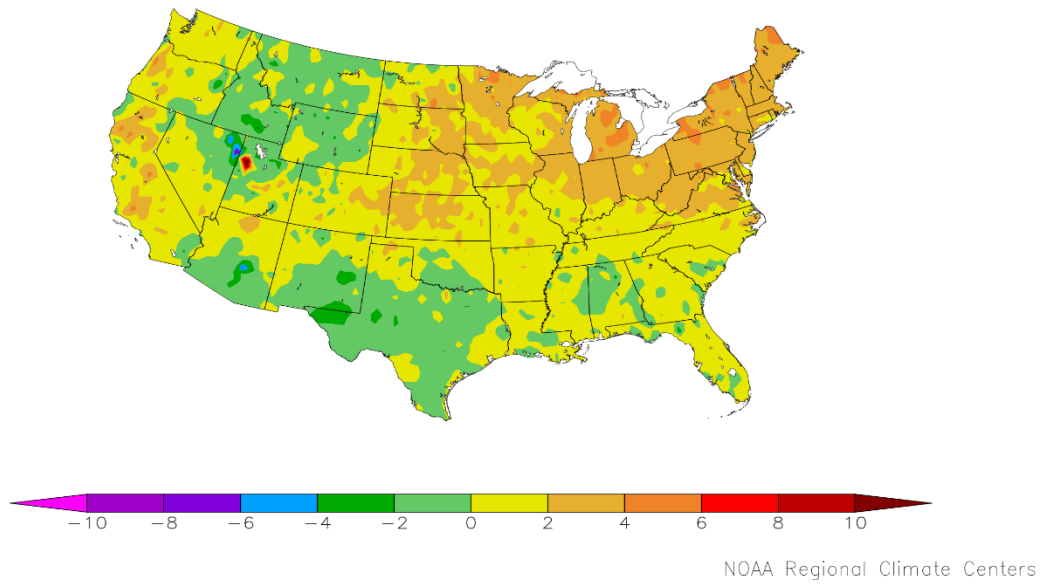
<sup>1</sup> Objective yield survey discontinued in 2019.

<sup>2</sup> 6-State total prior to 2019.

Percent of Normal Precipitation (%)  
8/1/2021 – 8/31/2021



Departure from Normal Temperature (F)  
8/1/2021 – 8/31/2021



## August Weather Summary

Much of the country experienced relatively wet weather during August, with significantly above-normal rainfall noted in much of the eastern United States, as well as portions of the northern Plains and upper Midwest. However, rain across the northern Plains arrived too late for drought-stricken small grains, which were largely harvested when precipitation began to boost topsoil moisture and slowly revive rangeland and pastures. By August 29, eighty-eight percent of the Nation's spring wheat and 85 percent of the barley had been harvested, compared to respective 5-year averages of 71 and 78 percent.

Tropical systems greatly contributed to Eastern wetness, with Hurricane Ida and Tropical Storms Fred and Henri making landfall during August. Following more than a month without an Atlantic tropical cyclone, Fred was named while passing south of Puerto Rico on August 10. Six days later, after surviving treks across Hispaniola and Cuba, Tropical Storm Fred made landfall near Cape San Blas, Florida, with sustained winds near 65 mph. Later, Henri took a circuitous route into the Northeast after developing near Bermuda on August 16. After briefly becoming a hurricane, Henri weakened before making landfall on August 22, with sustained winds of 60 mph, near Westerly, Rhode Island. Meanwhile, unrelated to tropical activity, catastrophic flooding unfolded on August 21 in parts of middle Tennessee.

On August 29, Hurricane Ida became the strongest storm on record—tied with Laura in 2020 and the Last Island hurricane of 1856—to strike the Louisiana coastline. In fact, with sustained winds estimated at 150 mph, category 4 Ida's landfall at Port Fourchon, Louisiana, represented the sixth-strongest hurricane, based on sustained winds, to strike a Gulf or Atlantic Coast State, behind the Labor Day hurricane of 1935; Hurricane Camille (1969); Hurricane Andrew (1992); the Okeechobee hurricane of 1928; and Hurricane Michael (2018). Hurricane Ida's impacts, which included flooding rains, damaging winds, power outages, and a coastal storm surge, were still being assessed as the month ended. Ida moved through the eastern side of Louisiana's sugarcane production area, shortly before harvest was due to begin. In addition, Ida battered some row crops, including maturing rice and open-boll cotton, in the southern Mississippi Delta.

Significant August rainfall bypassed a few areas, including the Far West and portions of the central and southern Plains. Western drought, combined with periods of hot, windy weather, led to further escalation of wildfire activity, particularly in northern California. By early September, three of California's active wildfires—the Dixie (820,000 acres), Caldor (200,000 acres), and Monument Fires (172,000 acres)—were among the twenty largest blazes in state history. Those fires and dozens of others broadly reduced Northwestern air quality for much of the month. Meanwhile on the central and southern Plains, late-season heat and a turn toward drier conditions reduced topsoil moisture and locally increased stress on immature summer crops.

Elsewhere, late-summer showers associated with the Southwestern monsoon circulation continued to provide drought relief in the Four Corners States, while warm weather and ample rainfall helped to push Midwestern summer crops toward maturity. By August 29, more than half (59 percent) of the Nation's corn had dented, versus the 5-year average of 55 percent. On the same date, 9 percent of the corn was fully mature, while 9 percent of the soybeans were dropping leaves. August average temperatures were mostly close to normal values, although a ribbon of anomalous warmth stretched from the central Plains into the Northeast.

During the 4-week period ending August 31, drought coverage in the contiguous United States remained nearly unchanged at 46 to 47 percent, according to the United States Drought Monitor. However, August improvement in the Southwest and upper Midwest was offset by worsening drought in the Northwest and pockets of developing drought on the central Plains. Despite drought being mostly restricted to the northwestern half of the country, overall coverage has been elevated for months, and was last below 40 percent in late-September 2020.

## August Agricultural Summary

August was warmer than average for much of the Nation. Large areas of the Great Lakes, Mid-Atlantic, Northeast, Pacific Northwest, and the Plains recorded temperatures 2°F or more above normal for the month. In contrast, large parts of the Rockies, Southwest, and Texas were cooler than normal. While most of California, Nevada, and the Pacific Northwest remained drier than normal, twice the average amounts of precipitation or more were recorded in large

areas of the Rockies. Parts of the Great Lakes, Mid-Atlantic, Midwest, South, and Southwest also recorded higher than normal amounts of precipitation for the month.

By August 1, ninety-one percent of the Nation's corn acreage had reached the silking stage, equal to last year but 5 percentage points ahead of the 5-year average. By August 1, thirty-eight percent of the corn acreage was at or beyond the dough stage, 1 percentage point ahead of last year and 5 percentage points ahead of the 5-year average. By August 15, seventy-three percent of the corn acreage was at or beyond the dough stage, 1 percentage point behind last year but 5 percentage points ahead of the 5-year average. Advances of 10 percentage points or more were made in 16 of the 18 estimating States. By August 15, twenty-two percent of this year's corn acreage was denting, 1 percentage point ahead of last year but equal to the 5-year average. By August 29, ninety-one percent of the corn acreage was at or beyond the dough stage, 2 percentage points behind last year but 2 percentage points ahead of the 5-year average. By August 29, fifty-nine 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. Indiana, Minnesota, Nebraska, North Dakota, and Wisconsin had advances of 20 percentage points or more from the previous week. Nine percent of the Nation's corn acreage was mature by August 29, two percentage points behind last year and 1 percentage point behind the 5-year average. On August 29, sixty percent of the Nation's corn acreage was rated in good to excellent condition, 2 percentage points below the same time last year.

By August 1, eighty-six percent of the Nation's soybean acreage had reached the blooming stage, 2 percentage points ahead of last year and 4 percentage points ahead of the 5-year average. By August 1, fifty-eight percent of the Nation's soybean acreage had begun setting pods, 1 percentage point ahead of last year and 6 percentage points ahead of the 5-year average. By August 15, ninety-four percent of the Nation's soybean acreage had reached the blooming stage, 1 percentage point behind last year but equal to the 5-year average. By August 15, eighty-one percent of the Nation's soybean acreage had begun setting pods, 2 percentage points behind last year but 2 percentage points ahead of the 5-year average. By August 29, ninety-three percent of the Nation's soybean acreage had begun setting pods, 2 percentage points behind last year but 1 percentage point ahead of the 5-year average. Leaf drop was 9 percent complete Nationally by August 29, two percentage points ahead of both last year and the 5-year average. On August 29, fifty-six percent of the Nation's soybean acreage was rated in good to excellent condition, 10 percentage points below the same time last year.

Ninety-five percent of the 2021 winter wheat acreage had been harvested by August 8, six percentage points ahead of last year and 4 percentage points ahead of the 5-year average. Winter wheat harvest progress continued with advances of 10 percentage points or more from the previous week reported in Idaho, Montana, and Washington.

Eighty-two percent of the Nation's cotton acreage had reached the squaring stage by August 1, eight percentage points behind both last year and the 5-year average. By August 1, fifty 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. Ninety-three percent of the Nation's cotton acreage had reached the squaring stage by August 15, six percentage points behind both last year and the 5-year average. By August 15, seventy-five percent of the Nation's cotton acreage had begun setting bolls, 4 percentage points behind last year and 7 percentage points behind the 5-year average. By August 15, ten percent of the Nation's cotton had open bolls, 4 percentage points behind last year and 5 percentage points behind the 5-year average. By August 29, eighty-six percent of the Nation's cotton acreage had begun setting bolls, 6 percentage points behind last year and 8 percentage points behind the 5-year average. By August 29, twenty-one percent of the Nation's cotton had open bolls, 7 percentage points behind last year and 5 percentage points behind the 5-year average. On August 29, seventy percent of the 2021 cotton acreage was rated in good to excellent condition, 26 percentage points above the same time last year.

By August 1, fifty-seven percent of the Nation's sorghum acreage had reached the headed stage, 4 percentage points ahead of last year and 3 percentage points ahead of the 5-year average. Twenty-two percent of the Nation's sorghum acreage was at or beyond the coloring stage by August 1, one percentage point behind last year and 3 percentage points behind the 5-year average. By August 15, eighty-two percent of the Nation's sorghum acreage had reached the headed stage, 1 percentage point ahead of last year and 3 percentage points ahead of the 5-year average. Thirty-one percent of the Nation's sorghum acreage was at or beyond the coloring stage by August 15, two percentage points behind last year and 5 percentage points behind the 5-year average. By August 29, ninety-five percent of the Nation's sorghum acreage had reached the headed stage, equal to last year but 2 percentage points ahead of the 5-year average. Fifty-nine percent of the Nation's sorghum acreage was at or beyond the coloring stage by August 29, three percentage points ahead of both last

year and the 5-year average. By August 29, twenty-three percent of the Nation's sorghum acreage was mature, 1 percentage point behind last year and 5 percentage points behind the 5-year average. Seventy-five percent of Texas' sorghum acreage was mature by August 29, two percentage points ahead of both last year and the 5-year average. Eighteen percent of the 2021 sorghum acreage had been harvested by August 29, three percentage points behind last year and 2 percentage points behind the 5-year average. Fifty-eight percent of the Nation's sorghum acreage was rated in good to excellent condition on August 29, eight percentage points above the same time last year.

By August 1, fifty-nine percent of the Nation's rice acreage had reached the headed stage, 2 percentage points ahead of the previous year but 6 percentage points behind the 5-year average. By August 15, eighty-six percent of the Nation's rice acreage had reached the headed stage, 2 percentage points ahead of the previous year but 3 percentage points behind the 5-year average. Nationally, 12 percent of the rice acreage was harvested by August 15, one percentage point behind last year but equal to the 5-year average. By August 29, ninety-seven percent of the Nation's rice acreage had reached the headed stage, 1 percentage point ahead of the previous year but 1 percentage point behind the 5-year average. Nationally, 19 percent of the rice acreage was harvested by August 29, one percentage point behind last year and 3 percentage points behind the 5-year average. On August 29, seventy-seven percent of the Nation's rice acreage was rated in good to excellent condition, 1 percentage point above the same time last year.

Forty-eight percent of the Nation's oat acreage had been harvested by August 1, one percentage point ahead of last year and 6 percentage points ahead of the 5-year average. On August 1, thirty-six percent of the Nation's oat acreage was rated in good to excellent condition, 26 percentage points below the same time last year. Seventy-five percent of the Nation's oat acreage had been harvested by August 15, two percentage points ahead of last year and 5 percentage points ahead of the 5-year average. Ninety-two percent of the Nation's oat acreage had been harvested by August 29, two percentage points ahead of last year and 3 percentage points ahead of the 5-year average. Oat harvest progress continued with advances of 10 percentage points or more reported in North Dakota and Wisconsin.

By August 1, barley producers had harvested 13 percent of the Nation's barley crop, 9 percentage points ahead of last year and 5 percentage points ahead of the 5-year average. By August 15, barley producers had harvested 54 percent of the Nation's barley crop, 23 percentage points ahead of last year and 10 percentage points ahead of the 5-year average. On August 15, twenty-three percent of the Nation's barley acreage was rated in good to excellent condition, 54 percentage points below the same time last year. By August 29, barley producers had harvested 85 percent of the Nation's barley crop, 14 percentage points ahead of last year and 7 percentage points ahead of the 5-year average. Harvest progress was ahead of the 5-year average in all 5 estimating States.

By August 1, seventeen percent of the Nation's spring wheat had been harvested, 13 percentage points ahead of the previous year and 9 percentage points ahead of the 5-year average. By August 15, fifty-eight percent of the Nation's spring wheat had been harvested, 30 percentage points ahead of the previous year and 22 percentage points ahead of the 5-year average. On August 15, eleven percent of the Nation's spring wheat was rated in good to excellent condition, 59 percentage points below the same time last year. By August 29, eighty-eight percent of the Nation's spring wheat had been harvested, 22 percentage points ahead of the previous year and 17 percentage points ahead of the 5-year average. Harvest progress was ahead of the 5-year average in all 6 estimating States.

By August 1, eighty-eight percent of the Nation's peanut crop had reached the pegging stage, 1 percentage point behind both the previous year and the 5-year average. By August 15, ninety-five percent of the Nation's peanut crop had reached the pegging stage, 1 percentage point behind both the previous year and the 5-year average. On August 29, seventy-six percent of the Nation's peanut acreage was rated in good to excellent condition, unchanged from the same time last year.

## Crop Comments

**Corn:** Acreage updates were made in several States based on a thorough review of all available data. Total planted area, at 93.3 million acres, is up 1 percent from the previous estimate and up 3 percent from the previous year. Acreage harvested for grain is forecast at 85.1 million acres, up 1 percent from the previous forecast and up 3 percent from last year.

The September 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, 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 176.3 bushels per acre, is up 3 percent from last year's final estimate of 172.0 bushels per acre. If realized, this would be the third highest yield on record for the United States. Record high yields are forecast in California, Illinois, Indiana, Kentucky, Michigan, New York, North Carolina, Ohio, Oklahoma, and Pennsylvania.

By August 1, ninety-one percent of the Nation's corn acreage had reached the silking stage, equal to last year but 5 percentage points ahead of the 5-year average. By August 1, thirty-eight percent of the corn was at or beyond the dough stage, 1 percentage point ahead of last year and 5 percentage points ahead of average.

By August 15, seventy-three percent of the corn acreage was at or beyond the dough stage, 1 percentage point behind last year but 5 percentage points ahead of the 5-year average. By August 15, twenty-two percent of this year's corn acreage was denting, 1 percentage point ahead of last year but equal to the average.

By August 29, ninety-one percent of the corn was at or beyond the dough stage, 2 percentage points behind last year but 2 percentage points ahead of the 5-year average. By August 29, fifty-nine 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. Nine percent of the Nation's corn was mature by August 29, two percentage points behind last year and 1 percentage point behind the 5-year average. On August 29, sixty percent of the corn was rated in good to excellent condition, 2 percentage points below the same time last year.

**Sorghum:** Production is forecast at 454 million bushels, up 22 percent from last year. Acreage updates were made in several States following a thorough review of all available data. Planted area, at 7.34 million acres, is up 13 percent from the previous estimate and up 25 percent from last year. Area harvested for grain is forecast at 6.52 million acres, up 13 percent from the previous forecast and up 28 percent from 2020. Based on September 1 conditions, yield is forecast at 69.7 bushels per acre, 3.5 bushels below the 2020 yield of 73.2 bushels per acre.

As of August 29, ninety-five percent of the sorghum acreage was headed, even with last year but 2 percentage points ahead of the 5-year average. Fifty-nine percent of the acreage was coloring at that time, 3 percentage points ahead of last year and the 5-year average. Eighteen percent of the acreage had been harvested at that time, 3 percentage points behind last year and 2 percentage points behind the 5-year average. On August 29, fifty-eight percent of the acreage was rated in good to excellent condition, compared with 50 percent at the same time last year.

**Rice:** Production is forecast at 190 million cwt, down 3 percent from the previous forecast and down 16 percent from 2020. Based on a thorough review of all available data, planted area is now estimated at 2.54 million acres, down 5 percent from the previous estimate and down 16 percent from the previous year. Area for harvest is expected to total 2.50 million acres, down 4 percent from the previous forecast and down 16 percent from 2020. Based on conditions as of September 1, the average United States yield is forecast at 7,623 pounds per acre, up 79 pounds per acre from the previous forecast and up 4 pounds per acre from 2020. A record high yield is forecast in Missouri.

As of August 29, ninety-seven percent of the rice acreage was headed, 1 percentage point above last year but 1 percentage point behind the 5-year average. Seventy-seven percent of the rice acreage was reported in good to excellent condition on August 29, compared with 76 percent at the same time last year.

**Soybeans:** Acreage updates were made in several States based on a thorough review of all available data. Total planted area, at 87.2 million acres, is down less than 1 percent from the previous estimate but up 5 percent from the previous year. Acreage harvested for grain is forecast at 86.4 million acres, down less than 1 percent from the previous forecast but up 5 percent from last year.

At 4.37 billion bushels, 2021 soybean production is forecast to be the third highest production on record for the United States. The forecasted yield, at 50.6 bushels per acre, is up less than 1 percent from last year's final estimate of

50.2 bushels per acre. If realized, this would be the second highest yield on record for the United States. Record high yields are forecast in Illinois, Indiana, Kentucky, Maryland, Mississippi, Missouri, New York, Ohio, Pennsylvania, and Virginia.

The September 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 9 of the 11 published States. North Dakota showed the greatest decrease, down 387 pods per 18 square feet from the previous year.

As of August 1, fifty-eight percent of the soybean acreage was setting pods, 1 percentage point ahead of last year and 6 percentage points ahead of the 5-year average. Eighty-one percent of the acreage was setting pods on August 15, two percentage points behind last year but two percentage points ahead of the 5-year average. By August 29, ninety-three percent of the soybean acreage was setting pods, two percentage points behind last year but one percentage point ahead of the 5-year average.

As of August 29, fifty-six percent of soybean acreage was rated in good to excellent condition, compared with 66 percent at the same time last year. During the month of August, 12 of the 18 estimating States published in the weekly *Crop Progress and Condition* report showed a decrease in the percent of acreage rated in the good to excellent categories.

**Peanuts:** Production is forecast at 6.35 billion pounds, down 4 percent from the previous forecast but up 3 percent from 2020. Acreage updates were made in several States based on a thorough review of all available data. Planted area, at 1.58 million acres is down 3 percent from the previous estimate and down 5 percent from the 2020 planted area. Area harvested is expected to total 1.53 million acres, down 3 percent from the previous forecast and down 5 percent from 2020. Based on conditions as of September 1, the average yield for the United States is forecast at 4,141 pounds per acre, down 42 pounds per acre from the previous forecast but up 345 pounds per acre from 2020. Record high yields are forecasted in Alabama and South Carolina.

Seventy-six percent of the United States peanut acreage was rated in good to excellent condition on August 29, unchanged from the same time last year.

**Cotton:** Acreage updates were made in several States based on a thorough review of all available data. Area planted to Upland cotton is estimated at 11.1 million acres, down 4 percent from the previous estimate and down 7 percent from 2020. Upland harvested area for the Nation is expected to total 9.80 million acres, down 4 percent from the previous forecast but up 21 percent from last year. Pima cotton planted area is estimated at 124,500 acres, down 12 percent from the previous forecast and down 37 percent from 2020. Expected Pima harvested area at 122,200 acres is down 12 percent from the previous estimate and down 37 percent from last year. If realized, Upland planted and harvested area for California and Louisiana will be the lowest on record.

As of August 29, eighty-six percent of the cotton acreage was setting bolls, 6 percentage points behind last year and 8 percentage points behind the 5-year average. Twenty-one percent of the cotton acreage was opening bolls, 7 percentage points behind last year and 5 percentage points behind the 5-year average. As of August 29, seventy percent of the cotton acreage was rated in good to excellent condition, compared with 44 percent at the same time last year.

In Texas, cotton bolls opening reached 22 percent, down 10 percentage points from the previous year and down 4 percentage points from the 5-year average. Some areas in the Southern Low Plains reported continued stress due to prolonged heat and insufficient moisture. In Georgia, crops remained in relatively good condition as Tropical Storm Ida brought heavy rains and substantial winds to parts of the state. Cotton bolls continued to open as producers treated their fields for insects.

Ginnings totaled 199,750 running bales prior to September 1, compared with 287,750 running bales ginned prior to the same date last year.

**Tobacco:** The 2021 United States all tobacco production is forecast at 469 million pounds, down slightly from last month but up 20 percent from 2020. Area harvested, at 223,200 acres, is down slightly from previous forecast but up 13 percent



from last year. Yield for the 2021 crop year is forecast at 2,102 pounds per acre, up 6 pounds from last month and 136 pounds above last year.

**Lentils:** Production of lentils in 2021 is forecast at 5.10 million cwt, down 31 percent from a year ago. Planted area, at 711,000 acres, is up 22 percent from the previous forecast and up 35 percent from last year. Harvested area, at 667,000 acres, is up 22 percent from the previous forecast and up 30 percent from 2020. The average yield is expected to be 763 pounds per acre, down 679 pounds from last year.

In Montana, the largest producing State, 95 percent of the acreage was harvested by the week ending August 29, well ahead of last season's 87 percent for the comparable week ending period. In North Dakota, 74 percent of the acreage was harvested by ending August 29, well ahead of last year's comparable week ending period of 47 percent.

**Chickpeas:** Production of all chickpeas is forecast at 3.03 million cwt, down 29 percent from 2020. Area planted for all chickpeas for the 2021 crop year is estimated at 376,300 acres, up 10 percent from the previous forecast and up 39 percent from the previous year. Area harvested for all chickpeas is forecast at 367,600 acres, up 10 percent from the previous forecast and 40 percent above 2020. Small chickpea area planted is estimated at 60,800 acres, down 9 percent from previous forecast but up 26 percent from 2020. Area harvested for small chickpeas is forecast at 57,200 acres, down 13 percent from previous forecast but a 19 percent increase from 2020. Area planted for large chickpeas in 2021 is estimated at 315,500 acres, up 15 percent from previous forecast and a 43 percent increase from the previous year. Large chickpea area harvested is forecast at 310,400 acres, up 15 percent from previous forecast and a 44 percent increase from 2020. The average United States yield is expected to be 825 pounds per acre, down 800 pounds from 2020.

**Dry edible peas:** Production of dry edible peas in 2021 is forecast at 12.2 million cwt, down 44 percent from last year. Area planted is estimated at 970,000 acres, up 4 percent from previous forecast but down 3 percent from 2020. Area harvested is forecast at 919,000 acres, up 4 percent from the previous forecast but down 6 percent from 2020. The average United States yield is expected to be 1,322 pounds per acre, down 912 pounds from 2020.

In Montana, harvest was 98 percent complete as of the week ending August 29, well ahead of the comparable week from the previous season of 90 percent. In North Dakota, harvest was 89 percent complete as of the week ending August 29, well ahead of the comparable week from the previous season of 79 percent.

**Sugarbeets:** Production of sugarbeets for the 2021 crop year is forecast at 34.6 million tons, up 3 percent from last month, and up 3 percent from last year. Based on a thorough review of all available data, planted area is now estimated at 1.16 million acres, down slightly from the previous estimate and down slightly from last year. Producers intend to harvest 1.15 million acres, up 1 percent from the previous estimate and up 1 percent from last year. Yield is forecast at 30.1 tons per acre, up 0.4 ton from last month and up 0.7 ton from last year.

In Minnesota and North Dakota, many growing areas received timely rains at the end of August making for better harvest conditions. Cercospora leaf spot foliar disease pressure has remained low due to timely fungicide applications and dry conditions during the growing season. In Michigan, producers experienced favorable weather and early harvest began on August 14.

**Sugarcane:** Production of sugarcane for sugar and seed in 2021 is forecast at 34.7 million tons, up 1 percent from last month but down 4 percent from 2020. Producers intend to harvest 931,000 acres for sugar and seed during the 2021 crop year, down slightly from last month and down 2 percent from 2020. Yields for sugar and seed are expected to average 37.3 tons per acre, up 0.5 ton from last month, but down 0.8 ton from 2020.

In Louisiana, the State with the largest number of harvested acres, damage from Hurricane Ida is expected to have minimal impact on this year's production.

**Walnuts:** The 2021 California walnut production is forecast at 670,000 tons, down 15 percent from last year's 785,000 tons. The forecast is based on the walnut objective measurement survey conducted July 25 through August 26, 2021.

Survey data indicated an average nut set of 992 per tree, down 17 percent from previous year's average of 1,197. Percent of sound kernels in-shell was 99.5 percent Statewide. In-shell weight per nut was 22.2 grams, while the average in-shell suture measurement was 32.4 millimeters. The in-shell cross-width measurement was 33.4 millimeters and the average length in-shell was 37.9 millimeters.

The complete report is available at:

[https://www.nass.usda.gov/Statistics\\_by\\_State/California/Publications/Specialty\\_and\\_Other\\_Releases/Walnut/Objective-Measurement/202108walnutom.pdf](https://www.nass.usda.gov/Statistics_by_State/California/Publications/Specialty_and_Other_Releases/Walnut/Objective-Measurement/202108walnutom.pdf)

## Statistical Methodology

**Survey procedures:** Objective yield and farm operator surveys were conducted between August 25 and September 7 to gather information on expected yield as of September 1. The objective yield surveys for corn, cotton, and soybeans were conducted in the major producing States that usually account for 75 percent of the United States production. Farm operators selected for the objective yield survey were interviewed to update previously reported acreage data and seek permission to randomly locate two sample plots in selected fields for the objective yield survey (corn, cotton and, soybeans). The counts made within each sample plot depend on the crop and the maturity of that crop. In all cases, the number of plants is 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 interviews. Approximately 8,000 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.

**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 with 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 September 1 forecasts.

**Revision policy:** The September 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 either 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.

**Reliability:** To assist users in evaluating the reliability of the September 1 production forecast, the “Root Mean Square Error,” a statistical measure based on past performance, is computed. The deviation between the September 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 September 1 corn for grain production forecast is 3.2 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 3.2 percent. Chances are 9 out of 10 (90 percent confidence level) that the difference will not exceed 5.5 percent.

Also, shown in the following table is a 20-year record for selected crops of the differences between the September 1 forecast and the final estimate. Using corn again as an example, changes between the September 1 forecast and the final estimate during the last 20 years have averaged 293 million bushels, ranging from 13 million bushels to 845 million bushels. The September 1 forecast has been below the final estimate 10 times and above 10 times. This does not imply that the September 1 corn forecast this year is likely to understate or overstate final production.

## Reliability of September 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	3.2	5.5	293	13	845	10	10
Peanuts ..... pounds	8.5	14.7	362	16	836	11	9
Rice ..... cwt	2.8	4.8	5	1	13	13	7
Sorghum for grain ..... bushels	5.7	9.9	15	1	50	7	13
Soybeans for beans ..... bushels	5.2	9.0	130	8	408	13	7
Sugarbeets ..... tons	5.8	10.0	1	(Z)	5	9	11
Sugarcane ..... tons	6.5	11.2	2	(Z)	4	10	10
Upland cotton <sup>1</sup> ..... bales	7.5	13.0	1,082	2	2,444	9	11

(Z) Less than half of the unit shown.

<sup>1</sup> 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](mailto:nass@usda.gov)

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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

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- 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](mailto: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](mailto:nass@usda.gov).

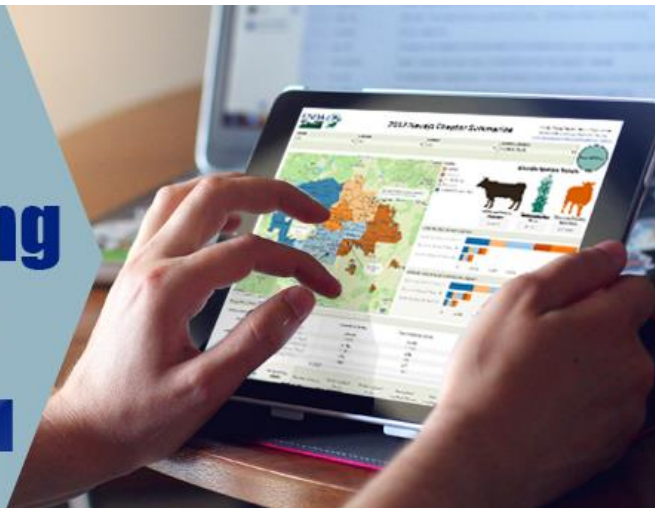
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# 2021 USDA Fall Virtual Data Users' Meeting

Oct. 13 & 14, 2021

**FREE AND OPEN TO THE PUBLIC**



## USDA Fall Data Users' Meeting

### Virtual Meeting

October 13 & 14, 2021

12:00 – 3:00 p.m. ET

USDA's National Agricultural Statistics Service will hold a virtual meeting for users of U.S. domestic and international agriculture data. NASS is organizing the 2021 Fall Data Users' Meeting in cooperation with five other USDA agencies – Agricultural Marketing Service, Economic Research Service, Farm Service Agency, Foreign Agricultural Service, and World Agricultural Outlook Board – and the Census Bureau's Foreign Trade Division. Agency representatives will answer questions and welcome comments and input from data users. Registration details will be coming soon.