

Crop Production

ISSN: 1936-3737

Released May 12, 2022, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, United States Department of Agriculture (USDA).

Winter Wheat Production Down 8 Percent from 2021 Orange Production Up 2 Percent from April Forecast

Winter wheat production is forecast at 1.17 billion bushels, down 8 percent from 2021. As of May 1, the United States yield is forecast at 47.9 bushels per acre, down 2.3 bushels from last year's average yield of 50.2 bushels per acre. Area expected to be harvested for grain or seed is forecast at 24.5 million acres, down 4 percent from last year.

Hard Red Winter production, at 590 million bushels, is down 21 percent from a year ago. Soft Red Winter, at 354 million bushels, is down 2 percent from 2021. White Winter, at 230 million bushels, is up 38 percent from last year. Of the White Winter production, 15.7 million bushels are Hard White and 214 million bushels are Soft White.

The United States all orange forecast for the 2021-2022 season is 3.88 million tons, up 2 percent from the previous forecast but down 12 percent from the 2020-2021 final utilization. The Florida all orange forecast, at 40.2 million boxes (1.81 million tons), is up 5 percent from the previous forecast but down 24 percent from last season's final utilization. In Florida, early, midseason, and Navel varieties are forecast at 18.2 million boxes (819,000 tons), unchanged from the previous forecast but down 20 percent from last season's final utilization. The Florida Valencia orange forecast, at 22.0 million boxes (990,000 tons), is up 10 percent from the previous forecast but down 27 percent from last season's final utilization. California and Texas orange production forecasts were carried forward from the previous forecast.

This report was approved on May 12, 2022.

Secretary of Agriculture Designate Robert Bonnie Agricultural Statistics Board Chairperson Joseph L. Parsons

Contents

Winter Wheat Area Harvested, Yield, and Production – States and United States: 2021 and Forecasted May 1, 2022	5
Durum Wheat Area Harvested, Yield, and Production – States and United States: 2021 and Forecasted May 1, 2022	6
Wheat Production by Class – United States: 2021 and Forecasted May 1, 2022	6
Hay Stocks on Farms – States and United States: December 1 and May 1, 2020-2022	7
Utilized Production of Citrus Fruits by Crop – States and United States: 2020-2021 and Forecasted May 1, 2022	8
Peach Production by Type – California: 2021 and Forecasted May 1, 2022	9
Almonds Production – State and United States: 2021 and Forecasted May 1, 2022	9
Cotton Area Planted, Harvested, and Yield by Type – States and United States: 2020 and 2021	10
Cotton Production and Bales Ginned by Type – States and United States: 2020 and 2021	11
Cottonseed Production and Farm Disposition – States and United States: 2020 and 2021	12
Cotton Harvest Loss per Acre – Selected States: 2017-2021	12
Cotton Cumulative Boll Counts – Selected States: 2017-2021	13
Crop Area Planted and Harvested, Yield, and Production in Domestic Units – United States: 2021 and 2022	14
Crop Area Planted and Harvested, Yield, and Production in Metric Units – United States: 2021 and 2022	16
Fruits and Nuts Production in Domestic Units – United States: 2021 and 2022	18
Fruits and Nuts Production in Metric Units – United States: 2021 and 2022	19
Percent of Normal Precipitation Map	20
Departure from Normal Temperature Map	20
April Weather Summary	21
April Agricultural Summary	21
Crop Comments	23
Statistical Methodology	25
Reliability of May 1 Crop Production Forecasts	26
Information Contacts	27

This page intentionally left blank.

Winter Wheat Area Harvested, Yield, and Production – States and United States: 2021 and Forecasted May 1, 2022

Ctata	Area har	vested	Yield pe	er acre	Production	
State	2021	2022	2021	2022	2021	2022
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Arkansas	145	160	58.0	55.0	8,410	8,800
California	80	80	82.0	59.0	6,560	4,720
Colorado	1,880	1,600	37.0	31.0	69,560	49,600
Idaho	640	730	71.0	91.0	45,440	66,430
Illinois	610	660	79.0	75.0	48,190	49,500
Indiana	270	240	85.0	76.0	22,950	18,240
Kansas	7,000	6,950	52.0	39.0	364,000	271,050
Kentucky	350	365	87.0	80.0	30,450	29,200
Maryland	160	140	79.0	75.0	12,640	10,500
Michigan	560	425	81.0	79.0	45,360	33,575
Mississippi	70	75	59.0	51.0	4,130	3,825
Missouri	490	620	65.0	67.0	31,850	41,540
Montana	1,730	1,900	31.0	39.0	53,630	74,100
Nebraska	840	900	49.0	41.0	41,160	36,900
North Carolina	345	385	56.0	67.0	19,320	25,795
North Dakota	60	90	33.0	47.0	1,980	4,230
Ohio	515	460	85.0	76.0	43,775	34,960
Oklahoma	2,950	2,400	39.0	25.0	115,050	60,000
Oregon	705	720	45.0	61.0	31,725	43,920
South Dakota	720	720	38.0	45.0	27,360	32,400
Tennessee	330	330	71.0	76.0	23,430	25,080
Texas	2,000	1,300	37.0	32.0	74,000	41,600
Virginia	120	150	67.0	63.0	8,040	9,450
Washington	1,690	1,800	42.0	67.0	70,980	120,600
Wisconsin	245	220	75.0	70.0	18,375	15,400
Other States ¹	959	1,079	61.5	57.6	59,000	62,132
United States	25,464	24,499	50.2	47.9	1,277,365	1,173,547

¹ Other States include Alabama, Delaware, Georgia, New Jersey, New Mexico, New York, Pennsylvania, South Carolina, Utah, and Wyoming. Individual State level estimates will be published in the *Small Grains 2022 Summary* report.

Durum Wheat Area Harvested, Yield, and Production – States and United States: 2021 and Forecasted May 1, 2022

[Area harvested for the United States and remaining States will be published in the *Acreage* report released June 2022. Yield and production will be published in the *Crop Production* report released July 2022. Blank data cells indicate estimation period has not yet begun]

Ctata	Area harvested		Yield per acre		Production	
State	2021	2022	2021	2022	2021	2022
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Arizona California Idaho Montana North Dakota	52 20 7 635 820	59 24	90.0 110.0 77.0 16.0 24.0	108.0 112.0	4,680 2,200 539 10,160 19,680	6,372 2,688
United States	1,534		24.3		37,259	

Wheat Production by Class - United States: 2021 and Forecasted May 1, 2022

[Wheat class estimates are based on the latest available data including both surveys and administrative data. The previous end-of-year season class percentages are used throughout the forecast season for States that do not have survey or administrative data available. Blank data cells indicate estimation period has not yet begun]

Crop	2021	2022
	(1,000 bushels)	(1,000 bushels)
Winter Hard red Soft red Hard white Soft white	749,489 360,689 20,283 146,904	590,037 353,503 15,690 214,317
Spring Hard red Hard white Soft white Durum	297,366 5,662 28,112 37,259	
Total	1,645,764	

Hay Stocks on Farms – States and United States: December 1 and May 1, 2020-2022

State	Decembe	r 1	May 1	
State	2020	2021	2021	2022
	(1,000 tons)	(1,000 tons)	(1,000 tons)	(1,000 tons)
Alabama	1,800	1,550	300	240
Arizona	300	180	20	10
arkansas	1,800	1,700	240	260
California	1,640	1,200	220	280
Colorado	1,700	2,000	230	580
Connecticut	30	38	6	
Delaware	10	10	2	
lorida	520	460	60	- 7:
Georgia	1,210	1,260	290	19
daho	2,500	2,350	410	530
linois	1,000	950	270	260
ndiana	800	900	150	240
owa	2,430	3,120	430	720
Cansas	5,000	5,000	910	67
Centucky	3,825	3,750	950	980
ouisiana	660	640	160	18
Maine	150	105	21	30
Maryland	290	275	57	66
Aassachusetts	60	34	9	
lichigan	900	1,100	190	27
/linnesota	2,240	1,460	400	330
Mississippi	1,050	1,000	170	18
lissouri	6,000	5,700	1,000	1,100
Nontana	4,800	2,900	970	45
lebraska	4,200	4,650	1,000	1,250
levada	400	490	90	5:
New Hampshire	36	42	5	
New Jersey	90	85	10	14
New Mexico	210	240	40	30
New York	1,000	1,700	290	550
North Carolina	1,120	950	190	150
North Dakota	3,700	2,100	950	520
Ohio	1,300	1,400	210	36
Oklahoma	4,100	4,260	1,150	600
Oregon	1,600	920	290	22
Pennsylvania	1,410	1,440	275	340
Rhode Island	1,113	5	1	
South Carolina	400	450	125	80
South Dakota	5,800	3,300	2,200	1,09
ennessee	2,930	3,000	570	53
- exas	6,400	8,200	1,200	1,600
Jtah	1,250	1,000	170	29
/ermont	145	157	35	34
/irginia	2,050	1,800	480	28
Vashington	1,100	1,100	220	180
Vest Virginia	770	790	145	10
Visconsin	1,790	2,105	570	630
Vyoming	1,500	1,150	325	200
Jnited States	84,020	79,016	18,006	16,767

Utilized Production of Citrus Fruits by Crop - States and United States: 2020-2021 and Forecasted May 1, 2022

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

Over and Otata	Utilized produc	tion boxes 1	Utilized production ton equivalent		
Crop and State	2020-2021	2021-2022	2020-2021	2021-2022	
	(1,000 boxes)	(1,000 boxes)	(1,000 tons)	(1,000 tons)	
Oranges California, all ² Early, mid, and Navel ³ Valencia	49,000	51,300	1,960	2,052	
	41,300	43,000	1,652	1,720	
	7,700	8,300	308	332	
Florida, all	52,950	40,200	2,383	1,809	
Early, mid, and Navel ³	22,700	18,200	1,022	819	
Valencia	30,250	22,000	1,361	990	
Texas, all ²	1,050	350	45	15	
Early, mid, and Navel ³	1,000	250	43	11	
Valencia	50	100	2	4	
United States, all	103,000	91,850	4,388	3,876	
Early, mid, and Navel ³	65,000	61,450	2,717	2,550	
Valencia	38,000	30,400	1,671	1,326	
Grapefruit California ² Florida, all Texas ²	4,200	4,100	168	164	
	4,100	3,400	174	145	
	2,400	2,000	96	80	
United States	10,700	9,500	438	389	
Tangerines and mandarins ⁴ California ² Florida	28,800	21,000	1,152	840	
	890	800	42	38	
United States	29,690	21,800	1,194	878	
Lemons ² Arizona California	750	1,500	30	60	
	20,100	23,000	804	920	
United States	20,850	24,500	834	980	

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

Estimates for current year carried forward from an earlier forecast.
 Navel and miscellaneous varieties in California. Early (including Navel) and midseason varieties in Florida and Texas.

⁴ Includes tangelos and tangors.

Peach Production by Type - California: 2021 and Forecasted May 1, 2022

Time	Total production				
Type	2021	2022			
	(tons)	(tons)			
Freestone	279,000	250,000			
Clingstone	226,000	190,000			
Total	505,000	440,000			

Almonds Production - State and United States: 2021 and Forecasted May 1, 2022

Ctata	Total production (shelled basis)				
State	2021	2022			
	(1,000 pounds)	(1,000 pounds)			
California	2,915,000	2,800,000			
United States	2,915,000	2,800,000			

Cotton Area Planted, Harvested, and Yield by Type - States and United States: 2020 and 2021

	, mai vootoa, ai	· · · · · · · · · · · · · · · · · · ·					
Towns and Otata	Area p	lanted	Area ha	rvested	Yield per acre		
Type and State	2020	2021	2020	2021	2020	2021	
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	
Upland							
Alabama	450.0	405.0	446.0	401.0	790	826	
Arizona	125.0	120.0	123.0	119.0	1,179	1,275	
Arkansas	525.0	480.0	520.0	475.0	1,179	1,248	
California	34.0	26.0	33.5	25.5	2,006	1,920	
Florida	98.0	92.0	93.0	90.0	532	640	
Georgia	1.190.0	1,170.0	1,180.0	1.160.0	887	914	
Kansas	195.0	110.0	181.0	102.0	796	880	
Louisiana	170.0	110.0	165.0	104.0	986	1,011	
Mississippi	530.0	445.0	525.0	430.0	1,079	997	
Missouri	295.0	315.0	287.0	310.0	1,144	1,260	
New Mexico	43.0	36.0	26.0	26.0	1,052	1,108	
North Carolina	360.0	375.0	330.0	365.0	759	1,017	
Oklahoma	525.0	495.0	430.0	440.0	710	756	
South Carolina	190.0	210.0	179.0	207.0	802	986	
Tennessee	280.0	275.0	275.0	270.0	1,066	1,036	
Texas	6,800.0	6,350.0	3.150.0	5,550.0	696	666	
Virginia	80.0	75.0	79.0	74.0	772	1,109	
United States	11,890.0	11,089.0	8,022.5	10,148.5	841	813	
American Pima							
Arizona	6.5	9.0	6.5	8.8	1,034	982	
California	147.0	88.0	146.0	87.0	1,562	1,501	
New Mexico	10.5	12.5	10.5	12.0	663	640	
Texas	38.0	17.0	31.0	16.0	666	780	
United States	202.0	126.5	194.0	123.8	1,352	1,287	
All							
Alabama	450.0	405.0	446.0	401.0	790	826	
Arizona	131.5	129.0	129.5	127.8	1,171	1,254	
Arkansas	525.0	480.0	520.0	475.0	1,179	1,248	
California	181.0	114.0	179.5	112.5	1,645	1,596	
Florida	98.0	92.0	93.0	90.0	532	640	
Georgia	1,190.0	1,170.0	1,180.0	1,160.0	887	914	
Kansas	195.0	110.0	181.0	102.0	796	880	
Louisiana	170.0	110.0	165.0	104.0	986	1,011	
Mississippi	530.0	445.0	525.0	430.0	1,079	997	
Missouri	295.0	315.0	287.0	310.0	1,144	1,260	
New Mexico	53.5	48.5	36.5	38.0	940	960	
North Carolina	360.0	375.0	330.0	365.0	759	1,017	
Oklahoma	525.0	495.0	430.0	440.0	710	756	
South Carolina	190.0	210.0	179.0	207.0	802	986	
Tennessee	280.0	275.0	275.0	270.0	1,066	1,036	
Texas	6,838.0	6,367.0	3,181.0	5,566.0	696	666	
Virginia	80.0	75.0	79.0	74.0	772	1,109	
United States	12,092.0	11,215.5	8,216.5	10,272.3	853	819	

Cotton Production and Bales Ginned by Type - States and United States: 2020 and 2021

Type and State	Produc 480-pound bale	net weight	Lint s rati		Bales ginned in 480-pound net weight bales ²		
	2020	2021	2020	2021	2020	2021	
	(1,000 bales)	(1,000 bales)	(ratio)	(ratio)	(bales)	(bales)	
Upland							
Alabama	734.0	690.0	(NA)	(NA)	715,850	662,750	
Arizona	302.0	316.0	(NA)	(NA)	303,100	302,400	
Arkansas	1,277.0	1,235.0	(NA)	(NA)	1,348,350	1,322,950	
California	140.0	102.0	(NA)	(NA)	140,400	114,200	
Florida	103.0	120.0	(NA)	(NA)	91,600	100,300	
Georgia	2,180.0	2,210.0	(NA)	(NA)	2,207,950	2,244,100	
Kansas	300.0	187.0	(NA)	(NA)	204,650	130,800	
Louisiana	339.0	219.0	(NA)	(NA)	352,400	219,450	
Mississippi	1,180.0	893.0	(NA)	(NA)	1,147,100	876,300	
Missouri	684.0	814.0	(NA)	(NA)	633,150	750,250	
New Mexico	57.0	60.0	(NA)	(NA)	26,700	19,300	
North Carolina	522.0	773.0	(NA)	(NA)	559,450	819,000	
Oklahoma	636.0	693.0	(NA)	(NA)	515,000	545,450	
South Carolina	299.0	425.0	(NA)	(NA)	260,000	370,500	
Tennessee	611.0	583.0	(NA)	(NA)	602,400	585,400	
Texas	4,570.0	7,700.0	(NA)	(NA)	4,798,550	7,925,250	
Virginia	127.0	171.0	(NA)	(NA)	123,450	169,050	
United States	14,061.0	17,191.0	(NA)	(NA)	14,030,100	17,157,450	
American Pima							
Arizona	14.0	18.0	(NA)	(NA)	13,100	17,850	
California	475.0	272.0	(NA)	(NA)	474,250	271,400	
New Mexico	14.5	16.0	(NA)	(NA)	17,150	15,700	
Texas	43.0	26.0	(NA)	(NA)	40,550	25,200	
United States	546.5	332.0	(NA)	(NA)	545,050	330,150	
All							
Alabama	734.0	690.0	(NA)	(NA)	715,850	662,750	
Arizona	316.0	334.0	(NA)	(NA)	316,200	320,250	
Arkansas	1,277.0	1,235.0	0.432	0.432	1,348,350	1,322,950	
California	615.0	374.0	(NA)	(NA)	614,650	385,600	
Florida	103.0	120.0	(NA)	(NA)	91,600	100,300	
Georgia	2,180.0	2,210.0	0.460	0.464	2,207,950	2,244,100	
Kansas	300.0	187.0	(NA)	(NA)	204,650	130,800	
Louisiana	339.0	219.0	(NA)	(NA)	352,400	219,450	
Mississippi	1,180.0	893.0	0.431	0.437	1,147,100	876,300	
Missouri	684.0	814.0	(NA)	(NA)	633,150	750,250	
New Mexico	71.5	76.0	(NA)	(NA)	43,850	35,000	
North Carolina	522.0	773.0	(NA)	(NA)	559,450	819,000	
Oklahoma	636.0	693.0	(NA)	(NA)	515,000	545,450	
South Carolina	299.0	425.0	(NA)	(NA)	260,000	370,500	
Tennessee	611.0	583.0	(NA)	(NA)	602,400	585,400	
Texas	4,613.0	7,726.0	0.433	0.435	4,839,100	7,950,450	
Virginia	127.0	171.0	(NA)	(NA)	123,450	169,050	
United States	14,607.5	17,523.0	(NA)	(NA)	14,575,150	17,487,600	

⁽NA) Not available.

¹ Production ginned and to be ginned.

² Equivalent 480-pound net weight bales ginned, not adjusted for cross-state movement.

Cottonseed Production and Farm Disposition - States and United States: 2020 and 2021

				Farm dis	Seed for			
State	Produ	uction		es to nills	Other ¹		planting ²	
	2020	2021	2020	2021	2020	2021	2020	2021
	(1,000 tons)	(1,000 tons)	(1,000 tons)	(1,000 tons)	(1,000 tons)	(1,000 tons)	(1,000 tons)	(1,000 tons)
Alabama	205.0	200.0	20.0	23.0	185.0	177.0	2.6	2.5
Arizona	107.0	113.0	-	-	107.0	113.0	0.8	0.8
Arkansas	402.0	390.0	292.0	291.0	110.0	99.0	3.0	3.3
California	214.0	128.0	77.0	31.0	137.0	97.0	1.0	1.1
Florida	28.0	34.0	20.0	25.0	8.0	9.0	0.6	0.6
Georgia	613.0	612.0	253.0	238.0	360.0	374.0	5.7	5.7
Kansas	99.0	57.0	-	-	99.0	57.0	1.0	0.6
Louisiana	109.0	68.0	63.0	41.0	46.0	27.0	0.7	1.2
Mississippi		276.0	195.0	189.0	178.0	87.0	3.1	3.4
Missouri	210.0	245.0	52.0	133.0	158.0	112.0	2.1	2.1
New Mexico	22.0	24.0	-	1.0	22.0	23.0	0.3	0.4
North Carolina	146.0	218.0	-	12.0	146.0	206.0	2.6	2.8
Oklahoma	189.0	205.0	123.0	118.0	66.0	87.0	2.8	2.9
South Carolina	84.0	119.0	-	-	84.0	119.0	1.0	1.4
Tennessee	186.0	183.0	108.0	156.0	78.0	27.0	1.9	2.1
Texas	1,448.0	2,403.0	590.0	1,263.0	858.0	1,140.0	40.8	37.9
Virginia	33.0	48.0	-	-	33.0	48.0	0.5	0.6
United States	4,468.0	5,323.0	1,793.0	2,521.0	2,675.0	2,802.0	70.5	69.4

⁻ Represents zero.

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 these tables are actual field counts from this survey.

Cotton Harvest Loss per Acre - Selected States: 2017-2021

State	2017	2018	2019	2020	2021
	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)
Arkansas	80 127 79 59 65 60	100 342 165 87 174 59	73 269 (NA) 104 (NA) 43	53 236 (NA) 97 (NA) 58	43 158 (NA) 85 (NA) 61
4-State ²	72	123	90	100	76

¹ Includes planting seed, feed, exports, inter-farm sales, shrinkage, losses, and other uses.

² Included in "other" farm disposition. Seed for planting is produced in crop year shown, but used in the following year.

⁽NA) Not available.

Objective yield survey discontinued in 2019.

² 6-State total prior to 2019.

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]

State and month	2017	2018	2019	2020	2021
	(number)	(number)	(number)	(number)	(number)
Arkansas					
September	911	891	900	994	990
October	839	910	896	849	838
November	825	892	925	820	809
December	825	892	900	820	807
Final	825	892	900	820	807
Georgia					
September	593	605	598	606	597
October	608	737	783	747	658
November	680	712	790	761	669
December	684	719	799	784	694
Final	684	713	803	785	694
Louisiana ¹					
September	648	759	(NA)	(NA)	(NA)
October	667	734	(NA)	(NA)	(NA)
November	665	739	(NA)	(NA)	(NA)
December	665	739	(NA)	(NA)	(NA)
Final	665	739	(NA)	(NA)	(NA)
Mississippi					
September	904	871	944	900	957
October	810	895	895	867	807
November	804	846	904	877	848
December	797	846	901	875	849
Final	797	846	901	875	851
North Carolina ¹					
September	637	601	(NA)	(NA)	(NA)
October	705	641	(NA)	(NA)	(NA)
November	769	714	(NA)	(NA)	(NA)
December	769	719	(NA)	(NA)	(NA)
Final	769	719	(NA)	(NA)	(NA)
Texas					
September	592	570	458	576	491
October	602	576	438	581	512
November	603	553	456	595	538
December	615	583	459	608	539
Final	614	582	461	608	539
4-State ²					
September	633	627	551	645	567
October	635	661	562	661	573
November	649	640	579	671	595
December	656	659	580	683	599
Final	656	657	593	693	597

⁽NA) Not available.

¹ Objective yield survey discontinued in 2019.

² 6-State total prior to 2019.

Crop Area Planted and Harvested, Yield, and Production in Domestic Units - United States: 2021 and 2022

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2022 crop year.

Blank data cells indicate estimation period has not yet begun]

	Area p	lanted	Area harvested		
Crop	2021	2022	2021	2022	
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	
Grains and hay					
Barley	2,660	2,941	1,948		
Corn for grain ¹	93,357	89,490	85,388		
Corn for silage	(NA)	·	6,481		
Hay, all	(NA)	(NA)	50,736	50,332	
Alfalfa	(NA)	` '	15,246	,	
All other	(NA)		35,490		
Oats	2,550	2,547	650		
Proso millet	725	2,0	662		
Rice	2,532	2,452	2,488		
Rye	2,133	2,432	294		
,	7,305	6,205	6,490		
Sorghum for gilage	·	0,203	,		
Sorghum for silage	(NA)	47.054	331		
Wheat, all	46,703	47,351	37,163	04.400	
Winter	33,648	34,236	25,464	24,499	
Durum	1,635	1,915	1,534		
Other spring	11,420	11,200	10,165		
Oilseeds					
Canola	2,152.0	2,158.0	2,089.0		
Cottonseed	(X)		(X)		
Flaxseed	325	360	268		
Mustard seed	103.0		89.3		
Peanuts	1,585.2	1,571.0	1,545.0		
Rapeseed	14.3	,	12.5		
Safflower	152.0		135.0		
Soybeans for beans	87,195	90,955	86,332		
Sunflower	1,288.5	1,416.0	1,243.8		
Cotton, tobacco, and sugar crops					
Cotton, all	11,215.5	12,234.0	10,272.3		
Upland	11,089.0	12,058.0	10,148.5		
American Pima	126.5	176.0	123.8		
Sugarbeets	1,160.0	1,143.4	1,107.6		
Sugarcane	(NA)	1,145.4	935.2		
Tobacco	(NA)	(NA)	218.9	226.3	
Dry beans, need and lentile					
Dry beans, peas, and lentils	260 F	202 6	251.0		
Chickpeas	368.5	303.6	351.0		
Dry edible beans	1,394.0	1,313.0	1,335.6		
Dry edible peas Lentils	977.0 708.0	1,088.0 788.0	834.0 549.0		
	. 30.0	1 30.0	2.0.0		
Potatoes and miscellaneous					
Hops	(NA)		60.9		
Maple syrup	(NA)		(NA)		
Mushrooms	(NA)		(NA)		
Peppermint oil	(NA)		44.0		
Potatoes	943.0		935.7		
Spearmint oil	(NA)		14.9		

See footnote(s) at end of table.

--continued

Crop Area Planted and Harvested, Yield, and Production in Domestic Units - United States: 2021 and 2022 (continued)

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2022 crop year. Blank data cells indicate estimation period has not yet begun]

Crop	Yield per a	acre	Production		
Стор	2021	2022	2021	2022	
			(1,000)	(1,000)	
Grains and hay					
Barleybushels	60.4		117,673		
Corn for grain bushels	177.0		15,115,170		
	20.1		, , ,		
Corn for silagetons			130,317		
Hay, alltons	2.37		120,196		
Alfalfatons	3.23		49,245		
All othertons	2.00		70,951		
Oatsbushels	61.3		39,836		
Proso millet bushels	23.2		15,376		
Rice ² cwt	7,709		191,796		
Ryebushels	33.4		9,808		
Sorghum for grainbushels	69.0		447,810		
Sorghum for silagetons	15.4		5,083		
Wheat, allbushels	44.3		1,645,764		
Winter bushels	50.2	47.9	1,277,365	1,173,54	
Durumbushels	24.3	47.3	37,259	1,173,34	
	32.6		,		
Other springbushels	32.0		331,140		
Dilseeds					
Canolapounds	1,302		2,720,550		
Cottonseedtons	(X)		5,323.0		
Flaxseed bushels	10.1		2,708		
Mustard seedpounds	491		43,834		
Peanutspounds	4,135		6,389,300		
Rapeseedpounds	1,809		22,616		
Safflowerpounds	1,001		135,175		
Soybeans for beansbushels	51.4		4,435,232		
Sunflowerpounds	1,530		1,902,985		
Cotton, tobacco, and sugar crops					
Cotton, all ² bales	819		17,523.0		
Upland ² bales	813		17,191.0		
American Pima ² bales	1,287		332.0		
	33.2				
Sugarbeetstons			36,751		
Sugarcanetons	35.1		32,838		
Tobaccopounds	2,183		477,973		
Dry beans, peas, and lentils					
Chickpeas ² cwt	815		2,861		
Dry edible beans ² cwt	1,701		22,721		
Dry edible peas ² cwt	1,025		8,549		
Lentils ² cwt	606		3,327		
Potatoes and miscellaneous					
Hopspounds	1,900		115,630.9		
Vaple syrupgallons	(NA)		3,424		
, , ,	` '		· ·		
Mushroomspounds	(NA)		757,987		
Peppermint oilpounds	104		4,566		
Potatoescwt	438		409,671		
Spearmint oilpounds	119		1,775		

⁽NA) Not available.

(X) Not applicable.

¹ Area planted for all purposes.

² Yield in pounds.

Crop Area Planted and Harvested, Yield, and Production in Metric Units – United States: 2021 and 2022

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2022 crop year. Blank data cells indicate estimation period has not yet begun]

Const	Area pla	nted	Area harvested		
Crop	2021	2022	2021	2022	
	(hectares)	(hectares)	(hectares)	(hectares)	
Grains and hay					
Barley	1,076,480	1,190,190	788,340		
Corn for grain ¹	37,780,640	36,215,710	34,555,670		
Corn for silage	(NA)	, ,	2,622,800		
Hay, all ²	(NA)	(NA)	20,532,350	20,368,860	
Alfalfa	(NA)	(,	6,169,900	,,,,,,,,	
All other	(NA)		14,362,450		
Oats	1,031,960	1,030,750	263,050		
Proso millet	293,400	1,000,700	267,900		
Rice	1,024,680	992,300	1,006,870		
	863,200	992,300	118,980		
Rye		2.514.400	, , , , , , , , , , , , , , , , , , ,		
Sorghum for grain ¹	2,956,260	2,511,100	2,626,440		
Sorghum for silage	(NA)	40 400 400	133,950		
Wheat, all ²	18,900,240	19,162,480	15,039,490		
Winter	13,617,010	13,854,970	10,305,030	9,914,500	
Durum	661,670	774,980	620,790		
Other spring	4,621,560	4,532,530	4,113,670		
Oilseeds					
Canola	870,890	873,320	845,400		
Cottonseed	(X)		(X)		
Flaxseed	131,520	145,690	108,460		
Mustard seed	41,680	ŕ	36,140		
Peanuts	641,510	635,770	625,250		
Rapeseed	5,790	333,113	5,060		
Safflower	61,510		54,630		
Soybeans for beans	35,286,940	36,808,580	34,937,700		
Sunflower	521,440	573,040	503,350		
Cotton, tobacco, and sugar crops					
Cotton, all ²	4,538,800	4,950,980	4,157,100		
Upland	4,487,610	4,879,750	4,107,000		
American Pima	51,190	71,230	50,100		
	469,440	462,720	448,230		
Sugarbeets	,	462,720			
Sugarcane Tobacco	(NA) (NA)	(NA)	378,470 88,600	91,580	
	` ,	,	·	·	
Dry beans, peas, and lentils	440.400	400.000	4 40 050		
Chickpeas	149,130	122,860	142,050		
Dry edible beans	564,140	531,360	540,500		
Dry edible peas	395,380	440,300	337,510		
Lentils	286,520	318,900	222,170		
Potatoes and miscellaneous					
Hops	(NA)		24,630		
Maple syrup	(NA)		(NA)		
Mushrooms	(NA)		(NA)		
Peppermint oil	(NA)		17,810		
Potatoes	381,620		378,670		
Spearmint oil	(NA)		6,030		

See footnote(s) at end of table. --continued

Crop Area Planted and Harvested, Yield, and Production in Metric Units - United States: 2021 and 2022 (continued)

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2022 crop year. Blank data cells indicate estimation period has not yet begun]

Cron	Yield per	hectare	Production		
Сгор	2021	2022	2021	2022	
	(metric tons)	(metric tons)	(metric tons)	(metric tons)	
Grains and hay					
Barley	3.25		2,562,030		
Corn for grain	11.11		383,943,000		
Corn for silage	45.07		118,221,590		
Hay, all ²	5.31		109,039,980		
Alfalfa	7.24		44,674,310		
All other	4.48		64,365,660		
Oats	2.20		578,220		
Proso millet	1.30		348,720		
Rice	8.64		8,699,720		
Rye	2.09		249,130		
Sorghum for grain	4.33		11,374,900		
Sorghum for silage	34.42		4,611,220		
Wheat, all ²	2.98		44,790,360		
Winter	3.37	3.22	34,764,180	31,938,720	
Durum	1.63		1,014,020	, ,	
Other spring	2.19		9,012,150		
Cutor opining	2.10		0,012,100		
Oilseeds					
Canola	1.46		1,234,020		
Cottonseed	(X)		4,828,940		
Flaxseed	0.63		68,790		
Mustard seed	0.55		19,880		
Peanuts	4.64		2,898,140		
Rapeseed	2.03		10,260		
Safflower	1.12		61,310		
Soybeans for beans	3.45		120,707,230		
Sunflower	1.71		863,180		
			·		
Cotton, tobacco, and sugar crops					
Cotton, all ²	0.92		3,815,180		
Upland	0.91		3,742,900		
American Pima	1.44		72,280		
Sugarbeets	74.38		33,339,950		
Sugarcane	78.71		29,790,130		
Tobacco	2.45		216,800		
Dry beens need and lentile					
Dry beans, peas, and lentils	0.04		400 770		
Chickpeas	0.91		129,770		
Dry edible beans	1.91		1,030,610		
Dry edible peas	1.15		387,780		
Lentils	0.68		150,910		
Potatoes and miscellaneous					
Hops	2.13		52,450		
Maple syrup	(NA)		17,120		
1 , 1	` '				
Mushrooms	(NA)		343,820		
Peppermint oil	0.12		2,070		
Potatoes	49.07		18,582,370		
Spearmint oil	0.13		810		

⁽NA) Not available.

(X) Not applicable.

¹ Area planted for all purposes.

² Total may not add due to rounding.

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

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2022 crop year, except citrus which is for the 2021-2022 season. Blank data cells indicate estimation period has not yet begun]

0	Production			
Сгор	2021	2022		
Citrus ¹				
Grapefruit1,000 tons	438	389		
Lemons1,000 tons	834	980		
Oranges1,000 tons	4,388	3,876		
Tangerines and mandarins	1,194	878		
Noncitrus				
Apples, commercialmillion pounds	9,848.5			
Apricots tons	41,740			
Avocadostons	150,740			
Blueberries, Cultivated1,000 pounds	669,100			
Blueberries, Wild (Maine)1,000 pounds	105,000			
Cherries, Sweettons	378,300			
Cherries, Tartmillion pounds	172.1			
Coffee (Hawaii)1,000 pounds	28,440			
Cranberriesbarrel	7,074,000			
Datestons	59,450			
Grapes tons	6,050,000			
Kiwifruit (California)tons	40,100			
Nectarines (California)tons	116,500			
Olives (California)tons	101,000			
Papayas (Hawaii)1,000 pounds	13,400			
Peachestons	688,770			
Pearstons	701,500			
Plums (California)tons	83,500			
Prunes (California)tons	222,000			
Raspberries	178,900			
Strawberries	26,700.0			
Nuts and miscellaneous				
Almonds, shelled (California)1,000 pounds	2,915,000	2,800,000		
Hazelnuts, in-shell (Oregon)tons	77,500			
Macadamias (Hawaii)1,000 pounds	51,000			
Pecans, in-shell	255,300			
Pistachios (California)1,000 pounds	1,155,000			
Walnuts, in-shell (California)tons	725,000			

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

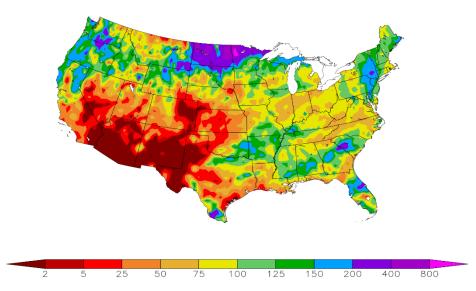
Fruits and Nuts Production in Metric Units - United States: 2021 and 2022

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2022 crop year, except citrus which is for the 2021-2022 season. Blank data cells indicate estimation period has not yet begun]

Cron	Production			
Crop	2021	2022		
	(metric tons)	(metric tons)		
Citrus ¹ Grapefruit Lemons Oranges Tangerines and mandarins	397,350 756,590 3,980,730 1,083,180	352,890 889,040 3,516,250 796,510		
Noncitrus Apples, commercial Apricots Avocados Blueberries, Cultivated Blueberries, Wild (Maine) Cherries, Sweet Cherries, Tart Coffee (Hawaii) Cranberries	4,467,200 37,870 136,750 303,500 47,630 343,190 78,060 12,900 320,870			
Dates Grapes Kiwifruit (California) Nectarines (California) Olives (California) Papayas (Hawaii) Peaches Pears Plums (California) Prunes (California) Raspberries Strawberries	53,930 5,488,470 36,380 105,690 91,630 6,080 624,840 636,390 75,750 201,400 81,150 1,211,090			
Nuts and miscellaneous Almonds, shelled (California) Hazelnuts, in-shell (Oregon) Macadamias (Hawaii) Pecans, in-shell Pistachios (California) Walnuts, in-shell (California)	1,322,220 70,310 23,130 115,800 523,900 657,710	1,270,060		

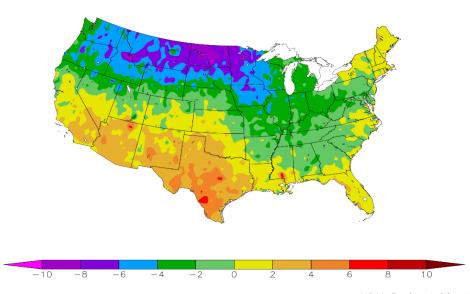
¹ Production years are 2020-2021 and 2021-2022.

Percent of Normal Precipitation (%) 4/1/2022 - 4/30/2022



NOAA Regional Climate Centers

Departure from Normal Temperature (F) 4/1/2022 - 4/30/2022



NOAA Regional Climate Centers

April Weather Summary

A resurgent La Niña helped to fuel an active storm track, resulting in cool, wet conditions across much of the Nation's northern tier. April temperatures generally averaged at least 4°F below normal from eastern Washington into the upper Great Lakes region and were more than 8°F below normal in parts of North Dakota. The heaviest precipitation, relative to normal, fell across the northern Plains, where multiple rounds of heavy rain and wind-driven snow eased or eradicated drought. In fact, moderate to major flooding developed late in the month in the Red River Valley, north of Fargo, North Dakota.

Meanwhile, severe thunderstorms frequently accompanied several strong cold fronts crossing the Plains, Midwest, and South, with most of the month's more than 200 tornadoes—based on preliminary reports—occurring on April 4-6, 11-13, 22-23, and 29-30. Dozens of tornadoes were spotted on April 5 from Mississippi to South Carolina, followed by an impressive, early-season Midwestern tornado outbreak on April 12 from eastern Nebraska to southeastern Minnesota. The South endured another significant tornado outbreak on April 12-13, while severe weather across the Plains peaked on April 22 and 29.

Despite late-month thunderstorms across the Nation's mid-section, drought continued to intensity across the southern half of the High Plains, amid sharp temperature fluctuations, periodic high winds, and occasional blowing dust. Nearly half (43 percent of the Nation's winter wheat was rated in very poor to poor condition on May 1, the greatest amount in those two categories at this time of year since April-May 1996. In addition, more than half (56 percent) of the U.S. rangeland and pastures were rated in very poor to poor condition on May 1, very close to the record-high value of the last quarter-century—59 percent very poor to poor for several weeks in late-summer 2012.

In fact, much of the Nation's southwestern quadrant, stretching from California to the High Plains, remained mired in significant drought, with potentially serious implications for water supplies, rangeland and pastures, and rain-fed crops. By May 3, more than half of the Lower 48 States had been in drought since late-November 2021, a span of 24 weeks. Additionally, more than 40 percent of the country experienced drought each week from September 29, 2020, to May 3, 2022, an 84-week streak that has broken the *United States Drought Monitor*-era record (previously, 68 weeks from June 19, 2012 – October 1, 2013).

Despite the worsening Southwestern situation, which included several large, destructive, wildfires, national drought coverage decreased 4 percentage points, from 58 to 54 percent, during the 5-week period ending May 3. Most of the reduction in drought coverage occurred in the North and parts of the South, including the southeastern Plains and the Mississippi Delta. Farther west, early-season wildfires in Arizona and New Mexico burned hundreds of thousands of acres of vegetation and destroyed hundreds of homes. In northeastern New Mexico, near Las Vegas, the Calf Canyon Fire—sparked on April 19—joined with an escaped prescribed burn (the Hermits Peak Fire)—to scorch more than 165,000 acres and destroy more than 250 structures.

Elsewhere, cool, damp Midwestern conditions limited April fieldwork, leading to a sluggish planting pace for corn and soybeans. By May 1, topsoil moisture ranged from 24 to 40 percent surplus in all Midwestern States except Iowa, Nebraska, and South Dakota. On the same date, only 14 percent of the Nation's intended corn acreage had been planted, well behind the 5-year average pace of 33 percent. This represented the slowest planting pace since 2013, when only 8 percent of the corn had been planted by May 1.

April Agricultural Summary

April was cooler than normal for most of the northern half of the Nation. Much of the Pacific Northwest, Northern Plains, and Northern Rockies recorded temperatures 4°F or more below normal. In contrast, temperatures were warmer than normal for much of the southern half of the Nation. Parts of the Gulf Coast and much of the Southern Plains and Southwest recorded temperatures 2°F or more above normal for the month. While much of the West remained dry, at least twice the normal amount of precipitation was recorded in large parts of the Northern Plains, as well as locations in the Pacific Northwest, Rockies, and South Texas. In the East, locations in Florida, Georgia, New York, and South Carolina recorded at least twice the normal amount of precipitation.

By April 3, producers had planted 2 percent of the Nation's corn crop, equal to both last year and the 5-year average. By April 17, producers had planted 4 percent of the Nation's corn crop, 3 percentage points behind last year and 2 percentage points behind the 5-year average. By May 1, producers had planted 14 percent of the Nation's corn crop, 28 percentage points behind last year and 19 percentage points behind the 5-year average. At that time, planting progress was furthest advanced in North Carolina and Texas with 80 percent and 74 percent planted, respectively. Three percent of the Nation's corn acreage had emerged by May 1, four percentage points behind the previous year and 3 percentage points behind the 5-year average.

One percent of the Nation's soybean acreage was planted by April 17, two percentage points behind last year and 1 percentage point behind the 5-year average. Eight percent of the Nation's soybean acreage was planted by May 1, fourteen percentage points behind last year and 5 percentage points behind the 5-year average. By May 1, planting progress was furthest advanced in Louisiana and Mississippi with 59 percent and 48 percent planted, respectively.

By April 3, four percent of the Nation's winter wheat crop was headed, equal to last year but 1 percentage point ahead of the 5-year average. By April 17, seven percent of the Nation's winter wheat crop was headed, two percentage points behind last year and 5 percentage points behind the 5-year average. By May 1, twenty-three percent of the Nation's winter wheat crop was headed, 3 percentage points behind last year and 6 percentage points behind the 5-year average. On May 1, twenty-seven percent of the 2022 winter wheat crop was reported in good to excellent condition, 21 percentage points below the same time last year. In Kansas, the largest winter wheat-producing State, 25 percent of the winter wheat acreage was rated in good to excellent condition.

Nationwide, 4 percent of the cotton crop was planted by April 3, two percentage points behind both the previous year and the 5-year average. By April 17, ten percent of the cotton crop was planted, 1 percentage point behind the previous year but 1 percentage point ahead of the 5-year average. By May 1, sixteen percent of the cotton crop was planted, 1 percentage point ahead of both the previous year and the 5-year average. At that time, planting progress was furthest advanced in California and Arizona with 95 percent and 71 percent planted, respectively.

Thirteen percent of the Nation's sorghum acreage was planted by April 3, one percentage point behind both the previous year and the 5-year average. Seventeen percent of the Nation's sorghum acreage was planted by April 17, two percentage points ahead of the previous year but 2 percentage points behind the 5-year average. Twenty percent of the Nation's sorghum acreage was planted by May 1, equal to the previous year but 3 percentage points behind the 5-year average. Texas had planted 66 percent of its sorghum acreage by May 1, equal to the previous year but 5 percentage points behind the 5-year average.

By April 3, producers had seeded 12 percent of the 2022 rice acreage, 1 percentage point behind the previous year and 4 percentage points behind the 5-year average. By April 3, six percent of the Nation's rice acreage had emerged, 1 percentage point behind both last year and the 5-year average. By April 17, producers had seeded 22 percent of the 2022 rice acreage, 10 percentage points behind the previous year and 14 percentage points behind the 5-year average. By April 17, thirteen percent of the Nation's rice acreage had emerged, 3 percentage points behind last year and 5 percentage points behind the 5-year average. By May 1, producers had seeded 45 percent of the 2022 rice acreage, 17 percentage points behind the previous year and 11 percentage points behind the 5-year average. At that time, planting progress was furthest advanced in Louisiana and Texas with 87 percent and 82 percent planted, respectively. By May 1, twenty-four percent of the Nation's rice acreage had emerged, 12 percentage points behind last year and 14 percentage points behind the 5-year average.

Nationally, oat producers had seeded 25 percent of this year's acreage by April 3, two percentage points ahead of the previous year but 1 percentage point behind the 5-year average. Twenty-three percent of the Nation's oat acreage was emerged by April 3, five percentage points ahead of the previous year but equal to the 5-year average. Nationally, oat producers had seeded 34 percent of this year's acreage by April 17, fourteen percentage points behind the previous year and 5 percentage points behind the 5-year average. Twenty-four percent of the Nation's oat acreage was emerged by April 17, six percentage points behind the previous year and 4 percentage points behind the 5-year average. Nationally, oat producers had seeded 45 percent of this year's acreage by May 1, twenty-five percentage points behind the previous year and 13 percentage points behind the 5-year average. Thirty-one percent of the Nation's oat acreage was emerged by May 1, fifteen percentage points behind the previous year and 9 percentage points behind the 5-year average.

Five percent of the Nation's barley crop was planted by April 3, equal to last year but 2 percentage points ahead of the 5-year average. Seventeen percent of the Nation's barley crop was planted by April 17, seven percentage points behind last year but 2 percentage points ahead of the 5-year Thirty-six percent of the Nation's barley crop was planted by May 1, fourteen percentage points behind last year and 1 percentage point behind the 5-year average. At that time, planting progress was furthest advanced in Washington and Idaho with 65 percent and 57 percent planted, respectively. Ten percent of the Nation's barley crop had emerged by May 1, six percentage points behind the previous year and 2 percentage points behind the 5-year average.

By April 3, three percent of the spring wheat crop was seeded, equal to last year but 1 percentage point ahead of the 5-year average By April 17, eight percent of the spring wheat crop was seeded, 10 percentage points behind last year and 1 percentage points behind the 5-year average. By May 1, nineteen percent of the spring wheat crop was seeded, 27 percentage points behind last year and 9 percentage points behind the 5-year average. At that time, planting progress was furthest advanced in Washington with 75 percent planted, 10 percentage points behind last year but 1 percentage point ahead of the 5-year average. By May 1, five percent of the Nation's spring wheat crop had emerged, 8 percentage points behind the previous year and 2 percentage points behind the 5-year average.

Nationally, peanut producers had planted 2 percent of the 2022 peanut acreage by April 17, equal to both the previous year and the 5-year average. Nationally, peanut producers had planted 10 percent of the 2022 peanut acreage by May 1, equal to the previous year but 3 percentage points behind the 5-year average. Producers in Florida had planted 27 percent of the 2022 intended acreage by May 1, equal to the previous year but 2 percentage points ahead of the 5-year average.

By April 3, two percent of the sugarbeet crop was planted, 2 percentage points behind last year but equal to the 5-year average. By April 17, seven percent of the sugarbeet crop was planted, 17 percentage points behind last year and 9 percentage points behind the 5-year average. By May 1, eighteen percent of the sugarbeet crop was planted, 58 percentage points behind last year and 29 percentage points behind the 5-year average. Idaho had planted 88 percent of its sugarbeet acreage by May 1, four percentage points behind last year but equal to the 5-year average.

Crop Comments

Winter wheat: Production is forecast at 1.17 billion bushels, down 8 percent from 2021. As of May 1, the United States yield is forecast at 47.9 bushels per acre, down 2.3 bushels from last year's average yield of 50.2 bushels per acre. Area expected to be harvested for grain is forecast at 24.5 million acres, down 4 percent from last year. If realized, the 2022 United States winter wheat abandonment of 28.4 percent will be the highest since 2002. Dry conditions in Colorado, Kansas, Oklahoma, and Texas are factoring into the increased abandonment.

As of May 1, twenty-seven percent of the winter wheat acreage in the 18 major producing States was rated in good to excellent condition, 21 percentage points lower than at the same time last year. Nationally, 23 percent of the winter wheat crop was headed by May 1, six percentage points behind the 5-year average pace.

As of May 1, the winter wheat crop in Kansas, Oklahoma, and Texas was rated in good to excellent condition at 25 percent, 17 percent, and 8 percent, respectively. Early spring drought conditions have caused condition ratings to decline compared with last year in these States.

As of May 1, the winter wheat crop in Idaho, Oregon, and Washington was rated in good to excellent condition at 52 percent, 57 percent, and 54 percent, respectively. In contrast to the Southern Plains States, the Pacific Northwest States are expecting improved yields over last year.

Durum wheat: Production of Durum wheat in Arizona and California is forecast at a collective 9.06 million bushels, up 32 percent from last year.

Hay stocks on farms: All hay stored on United States farms as of May 1, 2022, totaled 16.8 million tons, down 7 percent from May 1, 2021. Disappearance from December 1, 2021 – May 1, 2022, totaled 62.2 million tons, down 6 percent from the same period a year earlier.

Record low May 1 hay stock levels were estimated in Arizona, New Hampshire, and Rhode Island.

Grapefruit: The United States 2021-2022 grapefruit crop is forecast at 389,000 tons, down 2 percent from the previous forecast and down 11 percent from last season's final utilization. The Florida forecast, at 3.40 million boxes (145,000 tons), is down 6 percent from previous forecast and down 17 percent from the last season. California and Texas grapefruit production forecasts were carried forward from the previous forecast.

Tangerines and mandarins: The United States tangerine and mandarin crop is forecast at 878,000 tons, unchanged from the previous forecast but down 26 percent from the last season's final utilization. The Florida tangerine and mandarin forecast, at 800,000 boxes (38,000 tons) is unchanged from the previous forecast but down 10 percent from last season. The California tangerine and mandarin forecast was carried forward from the previous forecast.

Peaches: The California 2022 peach crop production is forecast at 440,000 tons, down 13 percent from 2021. The California Freestone crop is forecasted at 250,000 tons, down 10 percent from last season. The California Freestone crop experienced a freeze in February. Harvest of early variety peaches has begun. The California Clingstone crop is forecast at 190,000 tons, down 16 percent from the previous season. Full bloom occurred on March 6, approximately the same time as last year. In April, frost damage was reported. Across growing regions, chilling hours remained the same or increased from the previous year.

Almonds: The 2022 California almond production (shelled basis) is forecast at 2.80 billion pounds, down 4 percent from the previous year.

Similar to last year's weather pattern, the 2022 almond crop experienced a mostly dry winter throughout the State, with snowpack and water levels well below normal. The almond flowers began blooming during the warm weather in early February, and was favorable for pollination, with warmer temperatures bringing on a shorter bloom period. A freeze in late February in the Northern part of the State, impacted the early crop and left acres unharvested, without an adequate nut set. Yields varied across regions, due to the many different varieties. Excellent weather in April helped crop development, and some rain provided a short relief to areas battling drought conditions.

2021 Cotton Final: All cotton production is estimated at 17.5 million 480-pound bales, 20 percent higher than the 2020 crop. The United States yield for all cotton is estimated at 819 pounds per acre, down 34 pounds from the previous year.

Upland cotton production is estimated at 17.2 million 480-pound bales, up 22 percent from the 2020 crop. The United States yield for upland cotton is estimated at 813 pounds per acre, down 28 pounds from 2020.

American Pima production is estimated at 332,000 bales (480-pounds), down 39 percent from 2020. The United States yield is estimated at 1,287 pounds per acre, down 65 pounds from the previous season.

Cottonseed: Cottonseed production in 2021 totaled 5.32 million tons, up 19 percent from the previous year. Sales to oil mills accounted for 47 percent of the disposition. The remaining 53 percent will be used for seed, feed, exports, and various other uses.

Statistical Methodology

Wheat survey procedures: Objective yield and farm operator surveys were conducted between April 29 and May 9 to gather information on expected yield as of May 1. The objective yield survey was conducted in three States (Kansas, Oklahoma, and Texas) where wheat is normally mature enough to make meaningful counts. Farm operators were interviewed to update previously reported acreage data and seek permission to randomly locate two sample plots in selected winter wheat fields. The counts made within each sample plot depended upon the crop's maturity. Counts such as number of stalks, heads in late boot, and number of emerged heads were made to predict the number of heads that would be harvested. 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 revisited each month until crop maturity when the heads are clipped, threshed, and weighed. After the farm operator has harvested the sample field, another plot is sampled to obtain current year harvesting loss.

The farm operator survey included a sample of approximately 9,300 producers representing all major production areas. The survey was conducted primarily by telephone with some use of mail, and internet. These producers were selected from an earlier acreage survey and were asked about the probable winter wheat acres for harvest and yield on their operation. These growers will continue to be surveyed throughout the growing season to provide indications of average yields.

Orange survey procedures: The orange objective yield survey for the May 1 forecast was conducted in Florida. In August and September of last year, the number of bearing trees and the number of fruit per tree was determined. In August and subsequent months, fruit size measurement and fruit droppage surveys are conducted, which are combined with the previous components to develop the current forecast of production. California and Texas conduct grower surveys on a quarterly basis in October, January, April, and July. California also conducts objective measurement surveys in September for Navel oranges and in March for Valencia oranges.

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

Orange estimating procedures: State level objective yield indications for Florida oranges were reviewed for errors, reasonableness, and consistency with historical estimates. The Florida Field Office submits its analysis of the current situation to the Agricultural Statistics Board (ASB). The ASB uses the Florida survey data and their analysis to prepare the published May 1 forecast. The May 1 orange production forecasts for California and Texas are carried forward from April.

Revision Policy: The May 1 production forecast will not be revised; instead, a new forecast will be made each month throughout the growing season. End-of-season wheat estimates are made after harvest. At the end of the wheat 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. End-of-season orange estimates will be published in the *Citrus Fruits Summary* released in September. The orange production estimates are based on all data available at the end of the marketing season, including information from marketing orders, shipments, and processor records. Allowances are made for recorded local utilization and home use.

Reliability: To assist users in evaluating the reliability of the May 1 production forecast, the "Root Mean Square Error," a statistical measure based on past performance, is computed. The deviation between the May 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 May 1 winter wheat production forecast is 6.4 percent. This means that chances are two out of three that the current production forecast will not be above or below the final estimate

by more than 6.4 percent. Chances are 9 out of 10 (90 percent confidence level) that the difference will not exceed 11.1 percent.

Also, shown in the following table is a 20-year record for selected crops of the differences between the May 1 forecast and the final estimate. Using winter wheat again as an example, changes between the May 1 forecast and final estimate during the last 20 years have averaged 73 million bushels, ranging from 6 million to 245 million bushels. The May 1 forecast has been below the final estimate 8 times and above 12 times. This does not imply that the May 1 winter wheat forecast this year is likely to understate or overstate final production.

Reliability of May 1 Crop Production Forecasts

[Based on data for the past twenty years]

	_	90 percent	Difference between forecast and final estimate				
Crop	Root mean square error	confidence	Production			Years	
	Square ciro	interval	Average	Smallest	Largest	Below final	Above final
	(percent)	(percent)	(millions)	(millions)	(millions)	(number)	(number)
Oranges ¹ tons Wheat	2.4	4.1	131	18	441	11	9
Winter wheatbushels	6.4	11.1	73	6	245	8	12

¹ Quantity is in thousands of units.

USDA, National Agricultural Statistics Service Information Contacts

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

Lance Honig, Chief, Crops Branch	(202) 720-2127
Chris Hawthorn, Head, Field Crops Section	(202) 720-2127
Irwin Anolik – Crop Weather	
Joshua Bates – Hemp, 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	-
Lihan Wei – Peanuts, Rice	(202) 720-7688
Fleming Gibson, Head, Fruits, Vegetables and Special Crops Section	(202) 720-2127
Plums, Prunes, Sweet Corn, Tobacco	(202) 720-4288
Robert Little - Apricots, Dry Beans, Lettuce, Macadamia, Maple Syrup,	
Nectarines, Pears, Snap Beans, Spinach, Tomatoes	(202) 720-3250
Krishna Rizal – Artichokes, Cauliflower, Celery, Garlic, Grapefruit, Kiwifruit,	
Lemons, Mandarins and tangerines, Mint, Mushrooms, Olives,	
Oranges, Pistachios	(202) 720-5412
Chris Singh – Apples, Blueberries, Cucumbers, Hazelnuts, Potatoes, Pumpkins,	
Raspberries, Squash, Strawberries, Sugarbeets, Sugarcane, Sweet Potatoes	(202) 720-4285
Antonio Torres – Cantaloupes, Dry Edible Peas, Green Peas, Honeydews, Lentils,	
Papayas, Peaches, Sweet Cherries, Tart Cherries, Walnuts, Watermelons	(202) 720-2157
Chris Wallace – Avocados, Bell Peppers, Broccoli, Cabbage, Chickpeas,	
Chile Peppers, Dates, Floriculture, Grapes, Hops, Pecans	(202) 720-4215

Access to NASS Reports

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

- All reports are available electronically, at no cost, on the NASS web site: www.nass.usda.gov.
- ➤ Both national and state specific reports are available via a free e-mail subscription. To set-up this free subscription, visit www.nass.usda.gov and click on "National" or "State" in upper right corner above "search" box to create an account and select the reports you would like to receive.
- Cornell's Mann Library has launched a new website housing NASS's and other agency's archived reports. The new website, https://usda.library.cornell.edu. All email subscriptions containing reports will be sent from the new website, https://usda.library.cornell.edu. To continue receiving the reports via e-mail, you will have to go to the new website, create a new account and re-subscribe to the reports. If you need instructions to set up an account or subscribe, they are located at: https://usda.library.cornell.edu/help.. You should whitelist notifications@usda-esmis.library.cornell.edu in your email client to avoid the emails going into spam/junk folders.

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

The U.S. Department of Agriculture (USDA) prohibits discrimination against its customers, employees, and applicants for employment on the basis of race, color, national origin, age, disability, sex, gender identity, religion, reprisal, and where applicable, political beliefs, marital status, familial or parental status, sexual orientation, or all or part of an individual's income is derived from any public assistance program, or protected genetic information in employment or in any program or activity conducted or funded by the Department. (Not all prohibited bases will apply to all programs and/or employment activities.)

If you wish to file a Civil Rights program complaint of discrimination, complete the <u>USDA Program Discrimination</u> <u>Complaint Form</u> (PDF), found online at <u>www.ascr.usda.gov/filing-program-discrimination-complaint-usda-customer</u>, or at any USDA office, or call (866) 632-9992 to request the form. You may also write a letter containing all of the information requested in the form. Send your completed complaint form or letter to us by mail at U.S. Department of Agriculture, Director, Office of Adjudication, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, by fax (202) 690-7442 or email at <u>program.intake@usda.gov</u>.