

### **Crop Production**

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#### **Orange Production Up Less Than 1 Percent from March Forecast**

The United States all orange forecast for the 2021-2022 season is 3.79 million tons, up less than 1 percent from the previous forecast but down 14 percent from the revised 2020-2021 utilization. The Florida all orange forecast, at 38.2 million boxes (1.72 million tons), is down 7 percent from the previous forecast and down 28 percent from last season's revised 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 20.0 million boxes (900,000 tons), is down 13 percent from the previous forecast and down 34 percent from last season's revised utilization.

The California all orange forecast is 51.3 million boxes (2.05 million tons), is up 8 percent from previous forecast and up 5 percent from last season's revised final utilization. The California Navel orange forecast is 43.0 million boxes (1.72 million tons), is up 10 percent from the previous forecast and up 4 percent from last season's revised final utilization. The California Valencia orange forecast is 8.30 million boxes (332,000 tons), is down 3 percent from the previous forecast but up 8 percent from last season's revised final utilization. The Texas all orange forecast, at 350,000 boxes (15,000 tons), is down 13 percent from the previous forecast and down 67 percent from last season's final utilization.

This report was approved on April 8, 2022.

Secretary of Agriculture Designate

Seth Meyer

Agricultural Statistics Board

Chairperson

Joseph L. Parsons

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

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

0 1011	Utilized product	tion boxes 1	Utilized production	ction 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	49,000	51,300	1,960	2,052		
Early, mid, and Navel <sup>2</sup>	41,300	43,000	1,652	1,720		
Valencia	7,700	8,300	308	332		
Florida, all	52,950	38,200	2,383	1,719		
Early, mid, and Navel <sup>2</sup>	22,700	18,200	1,022	819		
Valencia	30,250	20,000	1,361	900		
Texas, all	1,050	350	45	15		
Early, mid, and Navel <sup>2</sup>	1,000	250	43	11		
Valencia	50	100	2	4		
United States, all	103,000	89,850	4,388	3,786		
Early, mid, and Navel <sup>2</sup>	65,000	61,450	2,717	2,550		
Valencia	38,000	28,400	1,671	1,236		
Grapefruit						
California	4,200	4,100	168	164		
Florida	4,100	3,600	174	153		
Texas	2,400	2,000	96	80		
United States	10,700	9,700	438	397		
Tangerines and mandarins <sup>3</sup>						
California	28,800	21,000	1,152	840		
Florida	890	800	42	38		
United States	29,690	21,800	1,194	878		
Lemons						
Arizona	750	1,500	30	60		
California	20,100	23,000	804	920		
United States	20,850	24,500	834	980		

<sup>&</sup>lt;sup>1</sup> 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.

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

<sup>&</sup>lt;sup>3</sup> Includes tangelos and tangors.

#### 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.

Cron	Area pl	anted	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 <sup>1</sup>	93,357	89,490	85,388		
Corn for silage	(NA)	00,100	6,481		
Hay, all	(NA)	(NA)	50,736	50,33	
Alfalfa	(NA)	(1.0.1)	15,246	00,00	
All other	(NA)		35,490		
Oats	2,550	2,547	650		
Proso millet	725	2,047	662		
Rice	2,532	2,452	2.488		
Rye	2,133	2,402	294		
Sorghum for grain <sup>1</sup>	7,305	6,205	6,490		
Sorghum for silage	(NA)	0,200	331		
Wheat, all	46,703	47,351	37,163		
Winter	33,648	34,236	25,464		
Durum	1,635	1,915	1,534		
Other spring	11,420	11,200	10,165		
Other spring	11,420	11,200	10,103		
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	11,219.5	12,234.0	9,968.3		
Upland	11,093.0	12,058.0	9,844.5		
American Pima	126.5	176.0	123.8		
Sugarbeets	1,160.0	1,143.4	1,107.6		
Sugarcane	(NA)	, -	935.2		
Tobacco	(NA)	(NA)	218.9	226.3	
Dry beans, peas, and lentils					
Chickpeas	368.5	303.6	351.0		
Dry edible beans	1,394.0	1,313.0	1,335.6		
Dry edible peas	977.0	1,088.0	834.0		
Lentils	708.0	788.0	549.0		
Potatoos and miscollanoous					
Potatoes and miscellaneous Hops	(NA)		60.9		
Maple syrup	(NA)		(NA)		
Mushrooms	(NA)		(NA)		
Peppermint oil	(NA)		44.0		
Potatoes	943.0		935.7		
Speciment oil	(NA)		955.7		

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

(NA)

14.9

#### 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]

36,751

32,838

2,861

8,549

3,327

115,630.9 3,424

757,987

409,671

4,566

1,775

22,721

477,973

Conn	Yield per acre		Production	
Crop	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	
Corn for silagetons	20.1		130,317	
Hay, alltons	2.37		120,196	
Álfalfatons	3.23		49,245	
All othertons	2.00		70,951	
Oats bushels	61.3		39,836	
Proso millet bushels	23.2		15,376	
Rice <sup>2</sup> 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		1,277,365	
Durum bushels	24.3		37,259	
Other spring bushels	32.6		331,140	
Dilseeds				
Canolapounds	1,302		2,720,550	
Cottonseedtons	(X)		5,377.0	
Flaxseed bushels	1Ò.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 <sup>2</sup> bales	849		17,624.0	
Upland <sup>2</sup> bales	841		17,257.0	
American Pima <sup>2</sup> bales	1,423		367.0	

33.2

35.1

2,183

815

1,701

1,025

1,900

(NA)

(NA)

104

438

119

606

(NA) Not available.

Sugarbeets .....tons

Sugarcane .....tons

Tobacco ......pounds

Lentils <sup>2</sup> .......cwt

Hops .....pounds

Maple syrup ......gallons

Mushrooms .....pounds

Peppermint oil .....pounds

Potatoes ......cwt

Spearmint oil .....pounds

Dry beans, peas, and lentils

Potatoes and miscellaneous

<sup>(</sup>X) Not applicable.

Area planted for all purposes.

<sup>&</sup>lt;sup>2</sup> 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]

Стор	2021	2022		
		2022	2021	2022
II .	(hectares)	(hectares)	(hectares)	(hectares)
Grains and hay				
Barley	1,076,480	1,190,190	788,340	
Corn for grain <sup>1</sup>	37,780,640	36,215,710	34,555,670	
Corn for silage	(NA)	00,210,710	2,622,800	
Hay, all <sup>2</sup>	(NA)	(NA)	20,532,350	20,368,860
Alfalfa	(NA)	(14/4)	6,169,900	20,300,000
All other	(NA)		14,362,450	
	` ,	1 020 750		
Oats	1,031,960	1,030,750	263,050	
Proso millet	293,400	000.000	267,900	
Rice	1,024,680	992,300	1,006,870	
Rye	863,200		118,980	
Sorghum for grain <sup>1</sup>	2,956,260	2,511,100	2,626,440	
Sorghum for silage	(NA)		133,950	
Wheat, all <sup>2</sup>	18,900,240	19,162,480	15,039,490	
Winter	13,617,010	13,854,970	10,305,030	
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	110,000	36,140	
Peanuts	641,510	635,770	625,250	
Rapeseed	5,790	000,110	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 tobacca and aureur arena				
Cotton, tobacco, and sugar crops	4 5 40 430	4.050.000	4 024 070	
Cotton, all <sup>2</sup>	4,540,420	4,950,980	4,034,070	
Upland	4,489,230	4,879,750	3,983,970	
American Pima	51,190	71,230	50,100	
Sugarbeets	469,440	462,720	448,230	
Sugarcane	(NA)		378,470	
Tobacco	(NA)	(NA)	88,600	91,580
Dry beans, peas, and lentils				
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.

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#### 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]

Crop	Yield per hectare		Production		
Стор	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		
lay, all <sup>2</sup>	5.31		109,039,980		
Alfalfa	7.24		44,674,310		
	4.48		′ ′ ′		
All other			64,365,660		
Dats	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		
Vheat, all <sup>2</sup>	2.98		44,790,360		
Winter	3.37		34.764.180		
Durum	1.63		1,014,020		
	2.19		9,012,150		
Other spring	2.19		9,012,150		
Dilseeds					
Canola	1.46		1,234,020		
Cottonseed	(X)		4,877,930		
laxseed	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		
Setten telegrap and surror arens					
Cotton, tobacco, and sugar crops	0.05		2 027 470		
Cotton, all <sup>2</sup>	0.95		3,837,170		
Upland	0.94		3,757,270		
American Pima	1.59		79,900		
Sugarbeets	74.38		33,339,950		
Sugarcane	78.71		29,790,130		
obacco	2.45		216,800		
Dry beans, peas, and lentils					
Chickpeas	0.91		129,770		
Dry edible beans	1.91		1,030,610		
Dry edible peas	1.15		387,780		
entils	0.68		150,910		
Detete a and microllen acus					
Potatoes and miscellaneous	0.45		50.450		
lops	2.13		52,450		
Maple syrup	(NA)		17,120		
Mushrooms	(NA)		343,820		
Peppermint oil	0.12		2,070		
Potatoes	49.07		18,582,370		
Spearmint oil	0.13		810		

<sup>(</sup>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: 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			
Сгор	2021	2022		
Citrus <sup>1</sup>				
Grapefruit1,000 tons	438	397		
Lemons	834	980		
Oranges	4,388	3,786		
Tangerines and mandarins	1,194	878		
Noncitrus				
Apples, commercialmillion pounds	10,525.0			
Apricots tons	55,500			
Avocadostons				
Blueberries, Cultivated				
Blueberries, Wild (Maine)				
Cherries, Sweettons	369,000			
Cherries, Tartmillion pounds	142.0			
Coffee (Hawaii)	27,120			
Cranberries	7,900,000			
Datestons				
Grapestons	6,470,000			
Kiwifruit (California)tons				
Nectarines (California)tons				
Olives (California)tons				
Papayas (Hawaii)				
Peachestons	696,500			
Pearstons	670,000			
Plums (California)tons	•			
Prunes (California)tons				
Raspberries, all				
Strawberries				
Nuts and miscellaneous				
Almonds, shelled (California)	2,800,000			
Hazelnuts, in-shell (Oregon)tons				
Macadamias (Hawaii)				
Pecans, in-shell	258,000			
Pistachios (California)	,			
Walnuts, in-shell (California)tons	670,000			

<sup>&</sup>lt;sup>1</sup> Production years are 2020-2021 and 2021-2022.

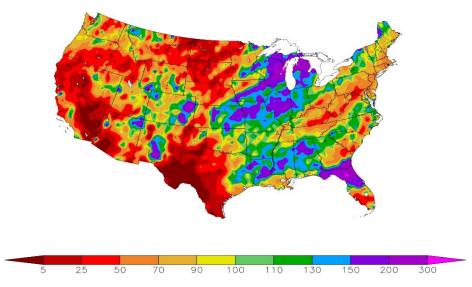
#### Fruits and Nuts Production in Metric Units - United States: 2021 and 2022

[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]

Crop	Production			
Crop	2021	2022		
	(metric tons)	(metric tons)		
Citrus <sup>1</sup> Grapefruit Lemons Oranges Tangerines and mandarins	397,350 756,590 3,980,730 1,083,180	360,150 889,040 3,434,600 796,510		
Noncitrus Apples, commercial Apricots Avocados Blueberries, Cultivated Blueberries, Wild (Maine)	4,774,060 50,350			
Cherries, Sweet Cherries, Tart Coffee (Hawaii) Cranberries	334,750 64,410 12,300 358,340			
Dates	5,869,490			
Olives (California) Papayas (Hawaii) Peaches Pears Plums (California) Prunes (California) Raspberries, all Strawberries	631,850 607,810			
Nuts and miscellaneous Almonds, shelled (California) Hazelnuts, in-shell (Oregon) Macadamias (Hawaii)	1,270,060			
Pecans, in-shell Pistachios (California)	117,030			
Walnuts, in-shell (California)	607,810			

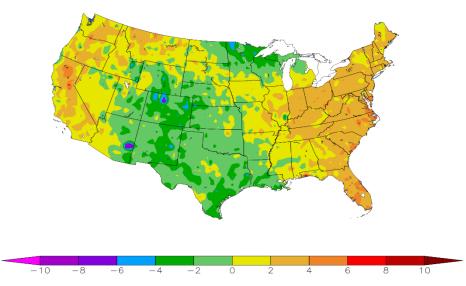
<sup>&</sup>lt;sup>1</sup> Production years are 2020-2021 and 2021-2022.

Percent of Normal Precipitation (%) 3/1/2022 - 3/31/2022



NOAA Regional Climate Centers

Departure from Normal Temperature (F) 3/1/2022 - 3/31/2022



NOAA Regional Climate Centers

#### **March Weather Summary**

Drier-than-normal March weather in many areas of the West capped an extremely disappointing winter wet season, leaving key agricultural regions facing significant impacts—including low reservoir levels, reductions in water allocations, depleted soil moisture, and poor rangeland and pasture conditions—from a third consecutive year of drought. Notably, the water equivalency of the Sierra Nevada snowpack—hovering near 16 inches (just under two-thirds of the March 1 average) as the month began—shriveled to around 11 inches (about 40 percent of the end-of-season average) by March 31. An early-season Western heat wave, which peaked during the week of March 20-26, contributed to the loss of high-elevation snowpack due to melting and evaporation.

Meanwhile, significant drought impacts extended across portions of the Nation's mid-section, where similar conditions to those observed in the West led to stress on rangeland, pastures, and winter grains. By April 3, topsoil moisture on the Plains rated very short to short ranged from 46 percent in North Dakota to 96 percent in Montana. On the same date, Texas led the southern Plains with topsoil moisture rated 80 percent very short to short. Winter wheat conditions also reflected the Plains' drought, with 81 percent of Texas' crop rated in very poor to poor condition by April 3. At least one-quarter of the wheat was rated very poor to poor on that date in several other states, including Oklahoma (44 percent), Colorado (39 percent), Montana (37 percent), and Kansas (30 percent). Nationally, 36 percent of the winter wheat was rated very poor to poor on April 3—the highest amount in the first condition report of the season since April 7, 1996, when 40 percent was rated very poor to poor.

Numerous large wildfires flared during March across the central and southern Plains, driven by howling winds and fed by ample freeze- and drought-cured vegetation. Among the largest wildfires was the Eastland Complex (multiple fires, beginning on March 17, combined for management purposes), which collectively scorched 54,513 acres of vegetation and destroyed more than 150 structures, many of them homes in the community of Carbon, Texas. Later in the month, 30,000- to 50,000-acre blazes included the Washita River Fire near Durham, Oklahoma; the Borrega Fire west of Kingsville, Texas; the Canadian River Bottom Fire southwest of Canadian, Texas; and the Crittenburg Complex at Fort Hood, Texas.

During March, national drought coverage ranged from 58 to 61 percent. Drought coverage was last greater more than 9 years ago, in January 2013. The long-running drought has resulted in coverage exceeding 40 percent for a *Drought Monitor*-era record 80 consecutive weeks (September 29, 2020, to April 5, 2022). In addition, drought coverage has surpassed 50 percent for 20 weeks in a row, starting November 23, 2021, second only to a 42-week streak set from June 26, 2012, to April 9, 2013. Near the end of March, drought covered 89 percent of the 11-state Western region, while extreme to exceptional drought (D3 to D4) was affecting nearly 30 percent of that area.

In contrast, wetter-than-normal conditions were common during March from the Mississippi Valley eastward, with a few exceptions. By April 3, Midwestern topsoil moisture ranged from one-third to more than one-half surplus in Michigan (53 percent surplus), Indiana (42 percent), Illinois (42 percent), and Ohio (37 percent). Pockets of wetness extended into the South, resulting in mostly minor fieldwork and planting delays.

Elsewhere, several episodes of severe weather accompanied occasional showers and thunderstorms, primarily from the central and southern Plains into the Southeast. Impressive, early-season tornado outbreaks struck various regions on March 5-6, 21-23, and 29-31, resulting in a preliminary nationwide monthly count of approximately 250 tornadoes—a potential monthly record. One of the worst outbreaks started on March 5, when a rash of tornadoes in Iowa—unusual that far north so early in the year—resulted in seven fatalities in Madison and Lucas Counties.

March warmth was most prevalent in the East and West, with cooler conditions more common across the Nation's mid-section. However, persistently cold weather was limited to the upper Great Lakes region, where monthly temperatures generally averaged 2 to 4°F below normal. In contrast, similar positive temperature departures (2 to 4°F above normal) were observed in the East and Far West.

#### **March Agricultural Summary**

March was warmer than average for most of the eastern half of the Nation. Locations in the Mid-Atlantic and Southeast recorded temperatures 4°F or more above normal. In contrast, large parts of the Great Lakes and Lower Mississippi Valley were cooler than normal. Most of the Central and Southern Plains also recorded below normal temperatures for the month. In the Nation's West, most of California, the Pacific Northwest, and Northern Rockies were warmer than normal. Parts of Northern California recorded temperatures 4°F or more above normal. In contrast, much of the Central and Southern Rockies, as well as the Southwest, were cooler than normal. Locations in Arizona and Colorado recorded temperatures 6°F or more below normal. During March, large parts of the Great Lakes, Midwest, and Southeast received at least twice the normal amount of precipitation. Parts of the Florida Panhandle received at least 12 inches of rain for the month. While most of the West remained dryer than normal, locations in Colorado and New Mexico recorded at least twice the normal amount of precipitation.

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. On April 3, thirty percent of the 2022 winter wheat crop was reported in good to excellent condition, 23 percentage points below last year. In Kansas, the largest winter wheat-producing State, 32 percent of the winter wheat crop was rated in good to excellent condition.

#### **Crop Comments**

**Grapefruit:** The United States 2021-2022 grapefruit crop is forecast at 397,000 tons, up 7 percent from the previous forecast but down 9 percent from last season's revised final utilization. The Florida forecast, at 3.60 million boxes (153,000 tons), is down 8 percent from previous forecast and down 12 percent from the last season.

**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 revised final utilization. The California tangerine and mandarin forecast at 21.0 million boxes (840,000 tons) is unchanged from the previous forecast but down 27 percent from last season revised total.

**Lemons:** The 2021-2022 United States lemon crop is forecast at 980,000 tons, up slightly from previous forecast and up 18 percent last season's revised final utilization. The California forecast, at 23.0 million boxes (920,000 tons), is unchanged from the previous forecast but up 14 percent from the revised 2020-2021 season.

#### **Statistical Methodology**

**Survey procedures:** The orange objective yield survey for the April 1 forecast was conducted in Florida. In August and September of last year, the number of bearing trees and number of fruit per tree is 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.

Estimating procedures: State level objective yield estimates 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 analyses to prepare the published April 1 forecast. Reports from growers in California and Texas were also used for setting estimates. These three States submit their analyses of the current situation to the Agricultural Statistics Board (ASB). The ASB uses the survey data and the State analyses to prepare the published April 1 forecast.

**Revision policy:** The April 1 production forecasts will not be revised. A new forecast will be made each month throughout the growing season. End-of-season estimates will be published in the *Citrus Fruits Summary* released in September. The 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 April 1 production forecasts, the "Root Mean Square Error," a statistical measure based on past performance, is computed. The deviation between the April 1 production forecast and the final estimate is expressed as a percentage of the final estimate. The average of 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 April 1 orange production forecast is 3.0 percent. This means that chances are 2 out of 3 that the current orange production forecast will not be above or below the final estimates by more than 3.0 percent. Chances are 9 out of 10 (90 percent confidence level) that the difference will not exceed 5.2 percent.

Also, shown in the following table is a 20-year record for selected crops of the differences between the April 1 forecast and the final estimate. Using oranges again as an example, changes between the April 1 orange forecast and the final estimates during the past 20-years have averaged 148,000 tons, ranging from 0 ton to 502,000 tons. The April 1 forecast for oranges has been below the final estimate 8 times, above 11 times and equal 1 time. The difference does not imply that the April 1 forecasts this year are likely to understate or overstate final production.

#### **Reliability of April 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 interval	Production			Years	
			Average	Smallest	Largest	Below final	Above final
	(percent)	(percent)	(millions)	(millions)	(millions)	(number)	(number)
Oranges <sup>1</sup> tons	3.0	5.2	148	0	502	8	11

<sup>&</sup>lt;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

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	
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
Eleming Cibean Head Emits Vagetables and Special Crops Section	(202) 720 2127
Fleming Gibson, Head, Fruits, Vegetables and Special Crops Section	(202) /20-212/
Fleming Gibson – Blueberries, Cranberries, Cucumbers, Pistachios, Potatoes, Pumpkins,	(202) 720 2127
Raspberries, Squash, Strawberries, Sugarbeets, Sugarcane, Sweet Potatoes	(202) /20-212/
Deonne Holiday – Almonds, Apples, Asparagus, Carrots, Coffee, Onions,	(202) 720 4200
Plums, Prunes, Sweet Corn, Tobacco	(202) /20-4288
Robert Little – Apricots, Dry Beans, Lettuce, Macadamia, Maple Syrup,	(202) 720 2250
Nectarines, Pears, Snap Beans, Spinach, Tomatoes	(202) 720-3250
Krishna Rizal – Artichokes, Cauliflower, Celery, Garlic, Grapefruit, Hazelnuts,	(202) 720 5412
Kiwifruit, Lemons, Mandarins and tangerines, Mint, Mushrooms, Olives, Oranges	(202) /20-5412
Antonio Torres – Cantaloupes, Dry Edible Peas, Green Peas, Honeydews, Lentils,	(202) 720 2157
Papayas, Peaches, Sweet Cherries, Tart Cherries, Walnuts, Watermelons	(202) /20-215/
Chris Wallace – Avocados, Bell Peppers, Broccoli, Cabbage, Chickpeas,	(202) 720 4215
Chile Peppers, Dates, Floriculture, Grapes, Hops, Pecans	(202) /20-4215

#### **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 <a href="www.nass.usda.gov">www.nass.usda.gov</a> 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, <a href="https://usda.library.cornell.edu">https://usda.library.cornell.edu</a>. All email subscriptions containing reports will be sent from the new website, <a href="https://usda.library.cornell.edu">https://usda.library.cornell.edu</a>. 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: <a href="https://usda.library.cornell.edu/help">https://usda.library.cornell.edu/help</a>. You should whitelist <a href="motifications@usda-esmis.library.cornell.edu">notifications@usda-esmis.library.cornell.edu</a> 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: <a href="mass@usda.gov">nass@usda.gov</a>.

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# USDA Spring Data Users' Meeting Join Us Online or in Chicago April 19, 2022

University of Chicago – Gleacher Center 450 North Cityfront Plaza Drive Chicago, IL 60611

USDA's National Agricultural Statistics Service (NASS) will hold an open forum for users of U.S. domestic and international agriculture data. NASS is organizing the 2022 Spring 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 provide updates on recent and pending changes in statistical and information programs important to agriculture, answer questions, and welcome comments and input from data users.

For additional information about the Data Users' Meeting, see the meeting page on the NASS website (<a href="https://www.nass.usda.gov/Education\_and\_Outreach/Meeting/index.php">https://www.nass.usda.gov/Education\_and\_Outreach/Meeting/index.php</a>).

The Data Users' Meeting precedes the Industry Outlook Conference at the same location on Wednesday, April 20, 2022. The outlook meeting brings together analysts from various commodity sectors to discuss developments and trends. For registration details or additional information about the Industry Outlook Conference, see the conference page on the LMIC website (<a href="http://lmic.info/page/meetings">http://lmic.info/page/meetings</a>).