

Crop Production

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Orange Production Down 1 Percent from January Forecast

The United States all orange forecast for the 2023-2024 season is 2.76 million tons, down 1 percent from the previous forecast but up 11 percent from the 2022-2023 final utilization. The Florida all orange forecast, at 19.8 million boxes (891,000 tons), is down 3 percent from the previous forecast but up 25 percent from last season's final utilization. In Florida, early, midseason, and Navel varieties are forecast at 6.80 million boxes (306,000 tons), down 9 percent from the previous forecast but up 11 percent from last season's final utilization. The Florida Valencia orange forecast, at 13.0 million boxes (585,000 tons), is unchanged from the previous forecast but up 35 percent from last season's final utilization.

This report was approved on February 8, 2024.

Secretary of Agriculture Designate Alexis M. Taylor Lameting

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Utilized Production of Citrus Fruits by Crop – States and United States: 2022-2023 and Forecasted February 1, 2024

[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	on ton equivalent
Crop and State	2022-2023	2023-2024	2022-2023	2023-2024
	(1,000 boxes)	(1,000 boxes)	(1,000 tons)	(1,000 tons)
Oranges California, all ² Early, mid, and Navel ³ Valencia	43,200	45,800	1,728	1,832
	36,500	38,000	1,460	1,520
	6,700	7,800	268	312
Florida, all	15,800	19,800	711	891
Early, mid, and Navel ³	6,150	6,800	277	306
Valencia	9,650	13,000	434	585
Texas, all ²	1,130	950	48	41
Early, mid, and Navel ³	570	600	24	26
Valencia	560	350	24	15
United States, all	60,130	66,550	2,487	2,764
Early, mid, and Navel ³	43,220	45,400	1,761	1,852
Valencia	16,910	21,150	726	912
Grapefruit California ² Florida, all Texas ²	4,000	3,800	160	152
	1,810	2,400	77	102
	2,250	2,350	90	94
United States	8,060	8,550	327	348
Tangerines and mandarins ⁴ California ² Florida	23,700	22,000	948	880
	480	550	23	26
United States	24,180	22,550	971	906
Lemons ² Arizona	1,400	900	56	36
	26,500	20,000	1,060	800
United States	27,900	20,900	1,116	836

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

² Estimates for current year carried forward from an earlier forecast.

³ Navel and miscellaneous varieties in California. Early (including Navel) and midseason varieties in Florida and Texas.

⁴ Includes tangelos and tangors.

Sugarcane Area Harvested, Yield, and Production by Use – States and United States: 2022 and 2023

Use and State	Area hai	vested	Yield pe	er acre 1	Produ	uction 1
Ose and State	2022	2023	2022	2023	2022	2023
	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(1,000 tons)	(1,000 tons)
For sugar Florida Louisiana ² Texas ²	386.0 474.0 30.9	391.0 484.0 16.2	44.5 32.1 22.6	44.5 28.5 22.7	17,177 15,215 698	17,400 13,794 368
United States	890.9	891.2	37.1	35.4	33,090	31,562
For seed Florida Louisiana ² Texas ²	15.9 23.1 0.3	16.6 24.6 2.6	47.4 35.5 24.6	49.8 32.4 24.7	754 820 7	827 797 64
United States	39.3	43.8	40.2	38.5	1,581	1,688
For sugar and seed Florida Louisiana ² Texas ²	401.9 497.1 31.2	407.6 508.6 18.8	44.6 32.3 22.6	44.7 28.7 23.0	17,931 16,035 705	18,227 14,591 432
United States	930.2	935.0	37.3	35.6	34,671	33,250

¹ Net tons.
² Estimates are carried forward from an earlier estimate.

Crop Area Planted and Harvested, Yield, and Production in Domestic Units – United States: 2023 and 2024

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2024 crop year. Blank data cells indicate estimation period has not yet begun]

Crop	Area p	lanted	Area harvested		
Сюр	2023 2024		2023 202		
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	
Grains and hay					
Barley	3,101		2,555		
Corn for grain ¹	94,641		86,513		
Corn for silage	(NA)		6,471		
Hay, all	(NA)		52,821		
•	(NA)		15,634		
Alfalfa	` '		,		
All other	(NA)		37,187		
Oats	2,555		831		
Proso millet	619		572		
Rice	2,894		2,854		
Rye	2,293		322		
Sorghum for grain ¹	7,195		6,115		
Sorghum for silage	(NA)		384		
Wheat, all	49,575		37,272		
Winter	36,699	34,425	24.683		
Durum	1,676	01,120	1,604		
Other spring	11,200		10,985		
Cutor spring	11,200		10,505		
Dilseeds					
Canola	2,344.5		2,319.2		
Cottonseed	(X)		(X)		
Flaxseed	178		160		
Mustard seed	245.0		238.1		
Peanuts	1,645.0		1,574.0		
Rapeseed	13.2		10.1		
Safflower	129.5		126.0		
Soybeans for beans	83,600		82,356		
Sunflower	1,315.0		1,267.5		
Cotton, tobacco, and sugar crops					
Cotton, all	10,230.0		7.064.6		
			,		
Upland	10,083.0		6,924.8		
American Pima	147.0		139.8		
Sugarbeets	1,137.4		1,127.3		
Sugarcane	(NA)		935.0		
Tobacco	(NA)		187.6		
Ory beans, peas, and lentils					
Chickpeas	372.4		359.2		
Ory edible beans	1,180.0		1,156.9		
Ory edible peas	966.0		941.0		
entils	546.0		523.0		
Potatoes and miscellaneous					
	/KIA\		54.3		
Hops	(NA)				
Maple syrup	(NA)		(NA)		
Mushrooms	(NA)		(NA)		
Peppermint oil	(NA)		31.3		
Potatoes	965.0		960.2		
Spearmint oil	(NA)		12.2		

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

Crop Area Planted and Harvested, Yield, and Production in Domestic Units – United States: 2023 and 2024 (continued)

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2024 crop year. Blank data cells indicate estimation period has not yet begun]

Cron	Yield per a	acre	Product	Production	
Crop	2023	2024	2023	2024	
			(1,000)	(1,000)	
Grains and hay					
Barley bushels	72.4		185,036		
Corn for grain bushels	177.3		15,341,595		
Corn for silagetons	20.1		129.994		
Hay, alltons	2.25		118,769		
Alfalfatons	3.19		49,916		
	1.85				
All othertons			68,853		
Datsbushels	68.6		57,045		
Proso millet bushels	34.2		19,572		
Rice ² cwt	7,649		218,291		
Ryebushels	32.2		10,375		
Sorghum for grainbushels	52.0		317,745		
Sorghum for silagetons	13.0		4,981		
Vheat, allbushels	48.6		1,811,977		
Winter bushels	50.6		1,247,748		
Durum	37.0		59,329		
Other springbushels	46.0		504,900		
2.1.5. 5p. 11g	40.0		004,000		
Dilseeds	4 ====		4.455.400		
Canolapounds	1,793		4,157,420		
Cottonseedtons	(X)		3,788.0		
Flaxseed bushels	18.5		2,961		
Mustard seedpounds	627		149,305		
Peanutspounds	3,742		5,890,020		
Rapeseedpounds	2,003		20,230		
Safflowerpounds	1,036		130,570		
Soybeans for beansbushels	50.6		4,164,677		
Sunflowerpounds	1,786		2,263,520		
Cotton, tobacco, and sugar crops					
Cotton, all ² bales	845		12.434.0		
Upland ² bales	841		12,127.0		
American Pima ² bales	1,054		307.0		
	31.2				
Sugarbeetstons	-		35,226		
Sugarcanetons	35.6		33,250		
obaccopounds	2,305		432,452		
Ory beans, peas, and lentils					
Chickpeas ² cwt	1,315		4,722		
Ory edible beans ² cwt	2,067		23,910		
Dry edible peas ² cwt	1,922		18,086		
entils ² cwt	1,098		5,742		
Potatoes and miscellaneous					
Hopspounds	1,915		104,042.5		
	(NA)		4,179		
Maple syrupgallons	` '		1		
Mushroomspounds	(NA)		666,647		
Peppermint oilpounds	90		2,811		
Potatoescwt	459		440,750		
Spearmint oilpounds	126		1,541		

(NA) Not available.

⁽X) 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: 2023 and 2024

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2024 crop year. Blank data cells indicate estimation period has not yet begun]

Cron	Area planted		Area harve	ested
Сгор	2023	2024	2023	2024
	(hectares)	(hectares)	(hectares)	(hectares)
Grains and hay				
Barley	1,254,940		1,033,980	
Corn for grain ¹	38,300,270		35,010,950	
Corn for silage	(NA)		2,618,750	
Hay, all ²	(NA)		21,376,130	
Alfalfa	(NA)		6,326,920	
All other	(NA)		15,049,210	
Dats	1,033,980		336,300	
Proso millet	250,500		231,480	
	1,171,170			
Rice			1,154,990	
Rye	927,950		130,310	
Sorghum for grain 1	2,911,740		2,474,680	
Sorghum for silage	(NA)		155,400	
Vheat, all ²	20,062,510		15,083,610	
Winter	14,851,720	13,931,450	9,988,960	
Durum	678,260		649,120	
Other spring	4,532,530		4,445,520	
Dilseeds				
Canola	948,800		938,560	
Cottonseed	(X)		(X)	
laxseed	72,030		64,750	
Mustard seed	99.150		96,360	
Peanuts	665,720		636,980	
Rapeseed	5,340		4,090	
Safflower	52,410		50,990	
	33,832,080		33,328,650	
Soybeans for beans	532,170		512,940	
Cotton, tobacco, and sugar crops				
Cotton, all ²	4,139,980		2,858,970	
· ·	' '		, ,	
Upland	4,080,490		2,802,400	
American Pima	59,490		56,580	
Sugarbeets	460,290		456,210	
Sugarcane	(NA)		378,390	
obacco	(NA)		75,930	
Ory beans, peas, and lentils				
Chickpeas	150,710		145,360	
Ory edible beans	477,530		468,190	
Ory edible peas	390,930		380,810	
entils	220,960		211,650	
Potatoes and miscellaneous				
Hops	(NA)		21,980	
Maple syrup	(NA)		(NA)	
Mushrooms	(NA)		(NA)	
	` ,		` ,	
Peppermint oil	(NA)		12,670	
Potatoes	390,530		388,580	
Spearmint oil	(NA)		4,940	

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

Crop Area Planted and Harvested, Yield, and Production in Metric Units - United States: 2023 and 2024 (continued)

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2024 crop year. Blank data cells indicate estimation period has not yet begun]

Crop	Yield per	hectare	Production		
	2023	2024	2023	2024	
	(metric tons)	(metric tons)	(metric tons)	(metric tons)	
Grains and hay					
Barley	3.90		4,028,680		
Corn for grain	11.13		389,694,460		
Corn for silage	45.03		117.928.570		
Hay, all ²	5.04		107,745,420		
Alfalfa	7.16		45,283,030		
	4.15		' '		
All other			62,462,390		
Oats	2.46		828,010		
Proso millet	1.92		443,890		
Rice	8.57		9,901,510		
Rye	2.02		263,540		
Sorghum for grain	3.26		8,071,090		
Sorghum for silage	29.08		4,518,690		
Vheat, all ²	3.27		49,313,930		
Winter	3.40		33,958,140		
Durum	2.49		1,614,670		
Other spring	3.09		13,741,130		
Callet spring	0.00		10,7 11,100		
Dilseeds					
Canola	2.01		1,885,770		
Cottonseed	(X)		3,436,420		
laxseed	1.16		75,210		
Mustard seed	0.70		67,720		
Peanuts	4.19		2,671,670		
Rapeseed	2.25		9,180		
Safflower	1.16		59,230		
Soybeans for beans	3.40		113,343,930		
Sunflower	2.00		1,026,720		
Setton tobacco and auren evens					
Cotton, tobacco, and sugar crops	0.05		2 707 100		
Cotton, all ²	0.95		2,707,180		
Upland	0.94		2,640,340		
American Pima	1.18		66,840		
Sugarbeets	70.05		31,956,490		
Sugarcane	79.72		30,163,890		
Tobacco	2.58		196,160		
Ory beans, peas, and lentils					
Chickpeas	1.47		214,190		
Dry edible beans	2.32		1,084,540		
Dry edible peas	2.15		820,370		
entils	1.23		260,450		
OTIGIO	1.23		200,430		
Potatoes and miscellaneous					
Hops	2.15		47,190		
Naple syrup	(NA)		20,900		
Mushrooms	(NA)		302,390		
Peppermint oil	0.10		1,280		
Potatoes	51.45		19,992,090		
Spearmint oil	0.14		700		

(NA) Not available.

⁽X) 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: 2023 and 2024

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2023 crop year, except citrus which is for the 2023-2024 season. Blank data cells indicate estimation period has not yet begun]

Cron	Production			
Сгор	2023	2024		
Citrus ¹				
Grapefruit1,000 tons	327	348		
Lemons	1,116	836		
Oranges	2,487	2,764		
Tangerines and mandarins	971	906		
Noncitrus				
Apples, commercialmillion pounds	9,910.0			
Apricots tons	32,400			
Avocadostons				
Blueberries, Cultivated1,000 pounds				
Blueberries, Wild (Maine)1,000 pounds				
Cherries, Sweettons	371,000			
Cherries, Tartmillion pounds	203.0			
Coffee (Hawaii)1,000 pounds				
Cranberriesbarrel	7,620,000			
Datestons				
Grapestons	6,285,000			
Kiwifruit (California)tons				
Nectarines (California)tons				
Olives (California)tons				
Papayas (Hawaii)1,000 pounds				
Peachestons	543,000			
Pearstons	645,000			
Plums (California)tons				
Prunes (California)tons				
Raspberries, all1,000 pounds				
Strawberries				
Nuts and miscellaneous				
Almonds, shelled (California)	2,600,000			
Hazelnuts, in-shell (Oregon)tons				
Macadamias (Hawaii)				
Pecans, in-shell	271,450			
Pistachios (California)				
Walnuts, in-shell (California)tons	760,000			

¹ Production years are 2022-2023 and 2023-2024.

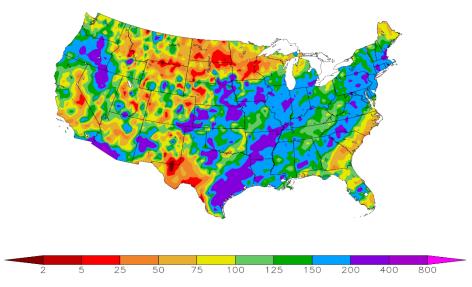
Fruits and Nuts Production in Metric Units - United States: 2023 and 2024

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2023 crop year, except citrus which is for the 2023-2024 season. Blank data cells indicate estimation period has not yet begun]

	, , , , , , , , , , , , , , , , , , , ,				
0	Production				
Crop	2023	2024			
	(metric tons)	(metric tons)			
Citrus ¹ Grapefruit Lemons Oranges Tangerines and mandarins	296,650 1,012,420 2,256,170 880,880	315,700 758,410 2,507,460 821,910			
Noncitrus Apples, commercial Apricots Avocados Blueberries, Cultivated Blueberries, Wild (Maine)	4,495,100 29,390				
Cherries, Sweet Cherries, Tart Coffee (Hawaii)	336,570 92,080				
Cranberries	345,640				
Dates Grapes Kiwifruit (California) Nectarines (California)	5,701,660				
Olives (California) Papayas (Hawaii) Peaches Pears Plums (California) Prunes (California) Raspberries, all Strawberries	492,600 585,130				
Nuts and miscellaneous Almonds, shelled (California) Hazelnuts, in-shell (Oregon) Macadamias (Hawaii)	1,179,340				
Pecans, in-shell Pistachios (California) Walnuts, in-shell (California)	123,130 689,460				

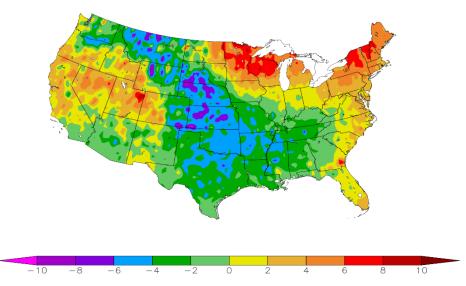
¹ Production years are 2022-2023 and 2023-2024.

Percent of Normal Precipitation (%) 1/1/2024 - 1/31/2024



NOAA Regional Climate Centers

Departure from Normal Temperature (F) 1/1/2024 - 1/31/2024



NOAA Regional Climate Centers

January Weather Summary

Following the Nation's warmest December on record, January began with a continuation of mild weather. However, for approximately 10 days, peaking around mid-January, frigid, windy, and occasionally snowy weather caused widespread travel disruptions and significantly increased livestock stress, just as lambing and calving were getting underway. Some of the greatest impacts stretched from the central Plains into the Midwest, where back-to-back winter storms resulted in blizzard conditions. Ironically, the snow was highly beneficial for winter wheat, especially in drought-affected areas of the central Plains. Between November 26 and January 28, winter wheat in Kansas rated in good to excellent condition surged from 32 to 54 percent, while wheat rated very poor to poor had a corresponding drop from 32 to 15 percent. During the same 2-month period, similar jumps in good-to-excellent ratings were noted in Nebraska (from 49 to 69 percent) and Oklahoma (from 53 to 63 percent), due to snow, improved soil moisture, or a combination of both.

In fact, there were marked improvements in topsoil moisture during January across the Plains, South, and lower Midwest. Between December 31, 2023, and late January, states reporting 20- to 50-point decreases in topsoil moisture rated very short to short included Louisiana (from 64 to 15 percent), Mississippi (from 52 to 8 percent), Tennessee (from 44 to 2 percent), Indiana (from 40 to 8 percent), Kansas (from 47 to 20 percent), Nebraska (from 52 to 26 percent), Illinois (from 28 to 4 percent), and Colorado (from 45 to 23 percent). Despite lingering, long-term drought in parts of the South and Midwest, surplus topsoil moisture developed in some areas, due to rain and melting snow. By late January, topsoil moisture was rated one-third to two-thirds surplus in a few states, including Ohio (62 percent), Tennessee (60 percent), North Carolina (43 percent), Illinois (39 percent), Louisiana (39 percent), and Mississippi (34 percent).

Despite wetter conditions in many areas, some drought concerns persisted. According to the *Drought Monitor*, drought covered 23.52 percent of the Lower 48 States on January 30, down from 32.98 percent just 4 weeks earlier. The most substantial improvement occurred from the central and southern Plains into the East, with January precipitation also reducing drought coverage and intensity in parts of the Southwest and Pacific Northwest. Conversely, worsening drought was noted during January across northern sections of the Rockies and High Plains. Among states reporting winter statistics, New Mexico led in late January with topsoil moisture rated 80 percent very short to short, followed by Montana at 68 percent. Drought-affected rangeland and pastures, some of which may not recover until warmer weather arrives in the spring, were still rated more than one-half very poor to poor near the end of January in New Mexico (64 percent), Texas (58 percent), and Montana (54 percent).

There was some January improvement in the Western snowpack situation, although there were still large gaps in adequate coverage. Notably, the average water equivalency of the Sierra Nevada snowpack increased about 6 inches during January, according to the California Department of Water Resources. However, that left the Sierra Nevada with an average water equivalency of just 8.5 inches by month's end, approximately one-half of the end-of-January average. Another notable area with sub-par snowpack at the end of January stretched from the northern Cascades to the northern Rockies.

The mid-month Arctic blast produced sub-zero temperatures as far south as Texas' northern panhandle and the Tennessee Valley and resulted in readings below -30°F on the northern High Plains. The greatest concern for winter wheat health was focused across Montana, where only a patchy or shallow snow cover existed when the coldest air arrived on January 13-14. Farther south, freezes struck Deep South Texas on January 16-17, with some potential impacts on citrus and other temperature-sensitive crops. Southern Louisiana experienced hard freezes (28°F or below) from January 15-17, although impacts were limited by the fact that the sugarcane harvest was complete. Meanwhile, Florida's key winter agricultural areas escaped the cold wave. On the strength of the mid-January cold snap, monthly temperatures averaged at least 2 to 6°F below normal across the Nation's mid-section, including much of the Plains, mid-South, and western and central Gulf Coast States, as well as the northern tier of the western United States. In contrast, readings averaged 2 to 6°F above normal from the Great Lakes region into the Northeast.

January Agricultural Summary

January was warmer than normal for most of the southern Atlantic Coast, Mid-Atlantic, Upper Midwest, and Northeast, as well as large parts of the West. Locations in Minnesota, Wisconsin, Utah, and Vermont recorded temperatures 8°F or more above normal. In contrast, most of the Great Plains and Mississippi Valley, as well as large parts of the

Pacific Northwest, Northern Rockies, and Southwest, recorded cooler than normal temperatures. Parts of Kansas, Montana, Nebraska, and Wyoming recorded temperatures 8°F or more below normal for January. Much of the Nation recorded higher than average amounts of precipitation in January. Parts of the Mid-Atlantic, Midwest, Northeast, Central and Southern Plains, South, and West recorded at least twice the normal amount of precipitation. Parts of the Pacific Northwest and South received at least 12 inches of precipitation during the month. In contrast, much of the Upper Midwest and Northern Plains, as well as parts of the Rockies and Southwest, remained drier than normal for the month.

Crop Comments

Grapefruit: The United States 2023-2024 grapefruit crop is forecast at 348,000 tons, unchanged from the previous forecast but up 6 percent from last season's final utilization. The Florida forecast, at 2.40 million boxes (102,000 tons), is unchanged from previous forecast but up 33 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 906,000 tons, unchanged from the previous forecast but down 7 percent from the last season's final utilization. The Florida tangerine and mandarin forecast, at 550,00 boxes (26,000 tons), is unchanged from the last forecast but is up 15 percent from last year. The California tangerine and mandarin forecast was carried forward from the previous forecast.

Sugarcane: Production of sugarcane for sugar and seed is forecast at 33.3 million tons, up 1 percent from the previous forecast but down 4 percent from last season. Producers intend to harvest 935,000 acres for sugar and seed during the 2023 crop year, up slightly from last month and up 1 percent from 2022. Yields for sugar and seed are expected to average 35.6 tons per acre, up 0.2 ton from last month but down 1.7 tons from last season.

Statistical Methodology

Survey procedures: The orange objective yield survey for the February 1 forecast was conducted in Florida. In August and September 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 combined with the previous components are used to develop the current forecast of production. California and Texas conduct grower survey on a quarterly basis in October, January, April, and July. California conducts an objective measurement survey 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. 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 February 1 forecast.

Revision policy: The February 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 August. 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 February 1 production forecasts, the "Root Mean Square Error," a statistical measure based on past performance, is computed. The deviation between the February 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 February 1 orange production forecast is 6.0 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 6.0 percent. Chances are 9 out of 10 (90 percent confidence level) that the difference will not exceed 10.4 percent.

Also, shown in the following table is a 20-year record for selected crops of the differences between the February 1 forecast and the final estimate. Using oranges again as an example, changes between the February 1 forecast and the final estimates during the past 20 years have averaged 306,000 tons, ranging from 43,000 tons to 843,000 tons. The February 1 forecast for oranges has been below the final estimate 6 times and above 14 times. This does not imply that the February 1 orange forecast this year is likely to understate or overstate final production.

Reliability of February 1 Crop Production Forecasts

[Based on data for the past twenty years]

Crop	D 1	90 percent	Difference between forecast and final estimate				
	Root mean square error	confidence	Production		Years		
	square error	interval	Average	Smallest	Largest	Below final	Above final
	(percent)	(percent)	(millions)	(millions)	(millions)	(number)	(number)
Oranges ¹ tons Sugarcanetons	6.0 3.0	10.4 5.1	306 1	43 (Z)	843 3	6 4	14 16

⁽Z) Less than half of the unit shown.

1 Quantity is in thousands of units.

USDA, National Agricultural Statistics Service Information Contacts

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

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Joshua Bates – Hemp, Oats, Soybeans	
Natasha Bruton – Barley, Cotton System Consumption and Stocks, Grain Crushings	
David Colwell – Fats and Oils, Flour Milling Products	
Michelle Harder – County Estimates, Hay	
James Johanson – Rye, Wheat	
Greg Lemmons – Corn, Flaxseed, Proso Millet	
Becky Sommer – Cotton, Cotton Ginnings, Sorghum	(202) 720-5944
Travis Thorson – Sunflower, Other Oilseeds	(202) 720-7369
Travis Thorson – Peanuts, Rice	(202) 720-2127
Fleming Gibson, Head, Fruits, Vegetables and Special Crops Section	(202) 720-2127
Deonne Holiday – Almonds, Carrots, Coffee, Cranberries, Garlic, Onions,	(202) =20 4200
Plums, Prunes, Tobacco	(202) 720-4288
Bret Holliman – Apricots, Chickpeas, Nectarines, Peaches, Snap Beans,	(202) 720 7225
Sweet Corn, Tomatoes	(202) 720-7235
Robert Little – Blueberries, Cabbage, Dry Beans, Lettuce, Macadamia,	(202) 720 2250
Maple Syrup, Pears, Raspberries, Spinach	(202) 720-3250
Krishna Rizal – Artichokes, Asparagus, Celery, Grapefruit, Kiwifruit, Lemons, Mandarins and tangerines, Mint, Mushrooms, Olives, Oranges, Pistachios	(202) 720-5412
Chris Singh – Apples, Cucumbers, Hazelnuts, Potatoes, Pumpkins,	
Squash, Strawberries, Sugarbeets, Sugarcane, Sweet Potatoes	(202) 720-4285
Antonio Torres – Cantaloupes, Dry Edible Peas, Grapes, Green Peas,	(***) =** * :
Honeydews, Lentils, Sweet Cherries, Tart Cherries, Walnuts, Watermelons	(202) 720-2157
Chris Wallace – Avocados, Bell Peppers, Broccoli, Cauliflower,	(202) 720 4215
Chile Peppers, Dates, Floriculture, Hops, Papayas, Pecans	(202) /20-4213

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