United States Department of Agriculture
National Agricultural Statistics Service

CITRUS FREEZE DAMAGE REPORT AND MATURITY TEST RESULTS

Cooperating with the Florida Department of Agriculture & Consumer Services
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A special survey was conducted on January 10-11, 2011 to assess the effect of sub−freezing temperatures that occurred throughout the Florida citrus producing region during the month of December 2010. Using the Federal-State Inspection Service standards, fruit was cut and scored for damage at depths of ¼-inch, ½-inch, and at the center, recording the point of greatest severity of damage.

The tables below show the distribution and severity of fruit damage. For all varieties, the majority of samples observed fell into the "no damage apparent" category.

Florida Citrus — Condition of Fruit on Trees by Fruit Type: January 15, 2011

Fruit type (Number of groves)	No damage apparent	Damage at ¼-inch cut	Damage at ½-inch cut	Damage at center cut	
				Minor	Major
	(percent)	(percent)	(percent)	(percent)	(percent)
ORANGES:					
Early (57)	66.4	11.0	11.4	6.7	4.5
Midseason (35)	54.3	20.0	12.5	6.8	6.4
Late (148)	87.4	6.5	3.8	1.5	0.8
GRAPEFRUIT:					
White (47)	97.9	0.8	-	1.3	-
Colored (43)	96.5	2.6	0.9	-	-

- Represents zero.

Florida Citrus — Condition of Fruit on Trees by Production Area and Fruit Type: January 15, 2011

Production Area	No damage apparent			Damage at ¼-inch cut			Damage at ½-inch cut			Damage at center cut					
										Minor			Major		
	E & M	Late	Gft	E & M	Late	Gft	E & M	Late	Gft	E & M	Late	Gft	E & M	Late	Gft
	(percent)			(percent)			(percent)			(percent)			(percent)		
Indian River	37.5	72.7	97.0	28.6	12.5	1.9	17.9	11.1	0.2	8.0	3.2	0.9	8.0	0.5	-
Northern	25.0	62.5	(NA)	25.0	10.0	(NA)	37.5	10.0	(NA)	-	7.5	(NA)	12.5	10.0	(NA)
Central	68.1	94.8	100.0	12.5	4.0	-	9.0	0.9	-	5.5	0.3	-	4.9	-	-
Western	62.5	91.9	100.0	14.2	3.7	-	10.8	2.6	-	8.8	1.8	-	3.7	-	-
Southern	72.2	89.0	95.8	7.1	7.0	1.4	10.9	2.2	2.8	3.8	0.6	-	6.0	1.2	-
Total	61.8	87.4	97.2	14.4	6.5	1.7	11.8	3.8	0.4	6.7	1.5	0.7	5.3	0.8	-

- Represents zero.
NA Not available.

The next two tables show the distribution and severity of leaf damage. For all varieties, the majority of samples observed fell into the "no leaf damage" category.

Florida Citrus — Leaf Damage by Fruit Type: January 15, 2011

Fruit type (Number of groves)	No leaf damage	Minor leaf damage	Major leaf Damage	Serious leaf damage
	(percent)	(percent)	(percent)	(percent)
ORANGES:				
Early (57)	84.1	11.2	3.0	1.7
Midseason (35)	82.8	14.3	2.9	-
Late (148)	91.2	8.8	-	-
GRAPEFRUIT:				
White (47)	92.0	8.0	-	-
Colored (43)	88.4	9.9	1.7	-

- Represents zero.

Florida Citrus — Leaf Damage by Production Area and Fruit Type: January 15, 2011

Production Area	No leaf damage			Minor leaf damage			Major leaf Damage			Serious leaf damage		
	E & M	Late	Gft	E & M	Late	Gft	E & M	Late	Gft	E & M	Late	Gft
	(percent)			(percent)			(percent)			(percent)		
Indian River	98.2	97.2	91.3	1.8	2.8	8.3	-	-	0.4	-	-	-
Northern	100.0	80.0	(NA)	-	20.0	(NA)	-	-	(NA)	-	-	(NA)
Central	88.9	91.5	93.7	11.1	8.5	6.3	-	-	-	-	-	-
Western	73.7	86.8	100.0	16.2	13.2	-	7.4	-	-	2.7	-	-
Southern	85.9	92.1	77.8	14.1	7.9	16.7	-	-	5.5	-	-	-
Total	83.6	91.2	90.3	12.4	8.8	8.9	2.9	-	0.8	1.1	-	-

- Represents Zero
NA Not Available

Maturity

Samples collected January 10-11, 2011 were tested January 12-13, 2011 at the USDA, NASS, Florida Field Office laboratory. Test results show a decrease in acid percent from the January 1, 2011 survey for all fruit types. Solids to acid ratios are higher for all fruit types. Solids per box is higher for early and late oranges but lower for midseason oranges. No FCOJ projections are made from these results. The next FCOJ projection will be included in the February 9, 2011 forecast available at 8:30 a.m.

Citrus Unadjusted Maturity Tests — Florida: 2009-2010 and 2010-2011

[Averages of regular bloom fruit from sample groves. Juice and solids per box are unadjusted and not comparable to juice processing plant test results. All samples were run through an FMC 091 machine using mechanical pressure only. This machine utilizes a .040 short strainer and standard 5/8 inch orifice tube. The beam settings are also identical to past tests and no restrictors are used]

Fruit type (number of groves) test date	Acid		Solids (Brix)		Ratio		Unfinished juice per box		Solids per box	
	2009-2010	2010-2011	2009-2010	2010-2011	2009-2010	2010-2011	2009-2010	2010-2011	2009-2010	2010-2011
	(percent)	(percent)	(percent)	(percent)			(pounds)	(pounds)	(pounds)	(pounds)
Early (81-57)										
Sep 1	1.56	1.70	9.28	9.17	6.06	5.45	42.18	41.53	3.91	3.81
Oct 1	1.16	1.28	9.32	9.56	8.18	7.54	46.44	46.36	4.33	4.43
Nov 1	0.87	0.97	10.36	10.45	12.14	10.97	49.42	50.79	5.11	5.30
Dec 1	0.74	0.83	11.13	11.21	15.41	13.77	50.77	49.97	5.65	5.60
Jan 1	0.73	0.82	11.78	11.66	16.40	14.28	50.35	48.51	5.93	5.65
Jan 15	(NA)	0.77	(NA)	12.07	(NA)	15.93	(NA)	48.04	(NA)	5.80
Midseason (42-35)										
Sep 1	1.74	2.05	9.24	9.42	5.39	4.70	42.20	40.08	3.90	3.77
Oct 1	1.33	1.58	9.25	9.46	7.10	6.07	47.51	44.25	4.40	4.19
Nov 1	1.00	1.15	10.28	10.37	10.51	9.24	51.37	48.43	5.28	5.02
Dec 1	0.85	0.95	11.10	11.33	13.31	12.26	51.56	49.85	5.72	5.65
Jan 1	0.78	0.93	11.88	11.84	15.38	12.86	51.58	49.07	6.13	5.81
Jan 15	(NA)	0.85	(NA)	12.15	(NA)	14.57	(NA)	46.51	(NA)	5.66
Late (150-148)										
Sep 1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Oct 1	2.41	2.56	8.86	8.95	3.73	3.52	43.46	43.83	3.85	3.92
Nov 1	1.86	2.01	9.32	9.67	5.07	4.86	48.08	48.85	4.48	4.72
Dec 1	1.52	1.62	10.22	10.42	6.83	6.51	50.91	51.47	5.20	5.36
Jan 1	1.30	1.49	10.89	11.05	8.50	7.47	53.03	50.97	5.77	5.63
Jan 15	(NA)	1.42	(NA)	11.37	(NA)	8.13	(NA)	51.34	(NA)	5.84

NA Not available.