

# *Kentucky Fruit Facts*

Jun/Jul 2012/ (6&7/2012)

Fruit Facts can be found on the web at: <http://www.ca.uky.edu/fruitfacts/>

John Strang, Extension Fruit Specialist, Editor  
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## **Fruit Crop News**

*By John Strang, U.K. Extension Horticulturist*

Our fruit season is still progressing at an accelerated pace. Fruit continues to ripen two to three weeks earlier than normal. We are harvesting the latest mid-season blueberries and thornless semi-erect blackberries are beginning to be ripen in central Kentucky. June apples are finishing up in June rather than in July. The dry sunny weather and cool nights at least in mid-June have produced outstanding blueberry, raspberry, and blackberry quality. Small fruit sugar levels are exceptional leading to compliments and excellent return sales.

The transition from La Nina to a normal weather pattern is turning out to be a very dry one. It is saving a number of fungicide and insecticide sprays, but is becoming a major concern particularly in western Kentucky.

This spring's freezes have led to some unusual fruit symptoms that have perplexed some growers. Please note the article that follows on frost injury symptoms.

The last month has not been that unusual for disease and insect problems. The U.K. Plant



Disease Diagnostic Lab in Lexington has catalogued samples of cedar apple rust, fire blight and frog eye leaf spot on apples; fire blight on pears; black rot, anthracnose, and an exceptionally early sample of downy mildew on grapes. Strawberry leaf spot has been common and there were single samples of phytophthora and angular leaf spot. Phytophthora root rot was diagnosed on blueberry and anthracnose on black raspberry. Plum curculio damage was common across a number of fruit types and Japanese beetle populations vary across the state.

## **Upcoming Meetings**

**July 22-25 Northern Nut Growers Association Annual Meeting**, University of Kentucky, Lexington, KY and Kentucky State University Research Farm, Frankfort, KY. Contact John Strang 859-257-5685 or email: [jstrang@uky.edu](mailto:jstrang@uky.edu) Meeting registration information can be found in the Apr-May Fruit Facts. The program is below.

**Aug 7 Horticultural Research Farm Field Day**, 4320 Emmert Farm Lane, Lexington KY; 10:00 a.m.- 2:00 p.m.. Contact: Tim Coolong, 859-257-3374; e-mail: [timcoolong@uky.edu](mailto:timcoolong@uky.edu)

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**Sept 22 UK Robinson Center Mountain Ag Field Day**, 130 Robinson Rd., Jackson, KY 41339. Contact Rosalee Bradley 859-257-9511 X 233 or email Rosalee.Bradley@uky.edu

**Oct. 20 Kentucky Nut Growers Association Fall Meeting**, Daviess County Extension Office, 4800A New Hartford Rd., Owensboro, KY. Contact Danny Ganno 270-860-8362; email: danganno@yahoo.com

**Jan. 7-8, 2013 Kentucky Fruit and Vegetable Conference**, Embassy Suites Hotel, Lexington, KY. Contact John Strang phone: 859-257-5685 or email: jstrang@uky.edu

Kentucky Blueberry Growers Association  
1103 West Stockton St.  
Edmonton, KY 42129  
Phone: 270-432-2601  
or 270-432-5836

## Mechanization Innovations for Market Growers

By Dr. John Wilhoit  
*Specialty Crops Mechanization Specialist*  
*U.K. Biosystems and Ag. Engineering Department*

I launched a new web page last fall devoted to “Mechanization Innovations for Market Growers.” Please check it out at the link below. I hope that it can evolve into a useful site for the sharing of all kinds of information and links that can benefit market growers in Kentucky (and beyond) by making their operations more efficient and profitable. Ag Genius Awards for 2012 and 2011 are also posted here. I encourage you to begin thinking about entering your innovative mechanization ideas in our competition at the Kentucky Fruit and Vegetable Conference January 7-8, 2013.

[http://www.bae.uky.edu/ext/Specialty\\_Crops/Innovations.htm](http://www.bae.uky.edu/ext/Specialty_Crops/Innovations.htm)

859-257-3000 ext 208 / Fax: 859-257-5671  
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## New Kentucky Blueberry Growers Association Packing House

The Kentucky Blueberry Growers Association has acquired a packing facility in Edmonton Kentucky and is being operated by Larry and Jean Martin. Construction is proceeding on schedule. The address is:

## Tree Fruit Frost Injury Symptoms

By John Strang, U.K. Extension Horticulturist

This spring’s frosts occurred at a later stage of development than most of Kentucky’s seasoned fruit growers have ever encountered. Consequently I have assembled a series of various forms of injury to better familiarize growers with the symptoms.



Figure 1. Freeze injury to the calyx area on ‘Lodi’ fruit



Figure 2. Cross section of ‘Lodi’ fruit showing internal freeze injury and browning



Figure 3. Flattened 'Smoothie Golden Delicious' caused by lack of seeds due to frost injury

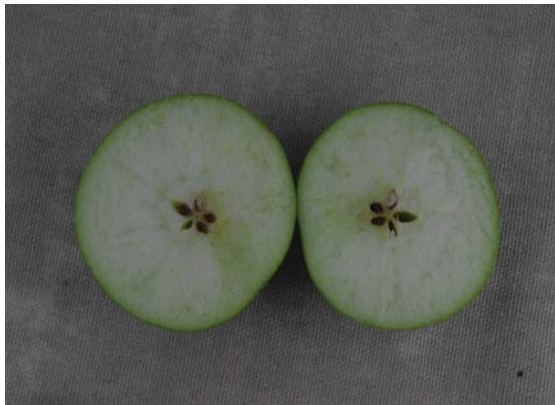


Figure 4. A 'Smoothie' apple from Figure 3 showing only one viable seed. Seeds are necessary to mobilize nutrients and carbohydrates into the fruit for proper growth and development.



Figure 5. Frost rings and russetting on 'GoldRush' caused by ice lens formation beneath the fruit epidermis and resultant russeted healing.



Figure 6. Pumpkin apples caused by severe freeze damage.



Figure 7. Peach with freeze cracks



Figure 8. A Peach that failed to size because the ovary was killed by freezing.

# Northern Nut Growers Association Annual Meeting

## University of Kentucky, Lexington and Kentucky State University, Frankfort

By Dr. John Strang, Dr. Shawn Wright, and Dr. Kirk Pomper

### Program

#### Sunday, July 22, 2012

- 10:00 a.m. - NNGA Board Meeting, Weldon Suite, E. S. Good Barn
- 1:00 – 5:30 Registration, Lobby, E.S. Good Barn
- 1:00 p.m. Auction storage room open, Culton Suite, E.S. Good Barn
- 3:00 - 4:00 Tour of The Arboretum, State Botanical Garden of Kentucky & Nut Planting  
– Arboretum Docents and Dr. John Strang
- 6:00 Welcome & Happy Hour with cash bar, Gorham Hall, E.S. Good Barn
- 7:00 Welcome Dinner, Gorham Hall, E.S. Good Barn
- 8:00-10:00 Show and Tell, Gorham Hall, E.S. Good Barn – Fred Blankenship

#### Monday, July 23, 2012

- 7:00 a.m. Breakfast at Commons Market
- 7:00 - Noon Registration continues in the E.S. Good Barn
- 8:00 Program, Seay Auditorium, ASCN, Moderator John Strang
- 8:00 Welcome and Introduction Bob Houtz & Danny Ganno
- 8:15 Introduction to the Bluegrass Area Horst Schach
- 9:00 NNGA Annual Business Meeting Dennis Fulbright
- 10:00 Group Photo, courtyard by Seay Auditorium Steve Patton, Tom Molnar & Tucker Hill
- 10:00 Refreshment Break
- 10:45 Visit exhibits in A-7 below Seay Auditorium Larry Daulton
- 10:45 Black Walnut Market Insights Brian Hammons
- 11:15 Preventing Further Spread of Asian Gall Wasp into New Chestnut Orchards Michele Warmund
- 11:45 Break for lunch
- 12:00 Lunch at Commons Market
- 1:00 p.m. Program, Seay Auditorium, ASCN, Moderator Nicole Ward
- 1:00 p.m. Chestnut Cultivar Genotyping Jeanne Romero-Severson
- 1:30 New Sources of Eastern Filbert Blight
- 2:00 Resistance in Hazelnut Thomas Molnar
- 2:00 Eastern Filbert Blight Resistant Hazelnuts for the Eastern U.S. Kirk Pomper
- 2:30 Refreshment Break
- 3:00 Processing and Marketing Out-of-Shell Hickory Nuts Kurt Belser
- 3:30 Natural Enemy Accumulation of the Asian Chestnut Gall Wasp Lynne Rieske-Kinney
- 4:00 Pawpaw Production and New Cultivars Kirk Pomper
- 4:30 Pawpaw and Persimmon Processing Sheri Crabtree
- 5:00 Dinner at Commons Market
- 6:00 Open doors for Auction, E. S. Good Barn
- 6:30 Auction Begins - Doug Hines, Clifford England and David Leeper

Tuesday, July 24, 2012

7:00 a.m.	Breakfast at Commons Market	
8:45 a.m. -	CAP Activities, (Bus Tour Kentucky Horse Park, Midway lunch and shopping, Kentucky	
- 5:00 p.m.	History Center, Rebecca Ruth Candies and the Frankfort area	
	- Sharon Bale and Sheri Crabtree, tour leaders	
	Program, Seay Auditorium, ASCN, Moderator	Doug Archbold
8:30 a.m.	The Brown Marmorated Threat	Ric Bessin
9:00	Asian Chestnut Gall Wasp on all the Species	
	and Hybrids of Chestnut	Sandra Anagnostakis
9:30	Chestnuts and Appalachian Agroforestry	Frank Salzano
10:00	Refreshment Break	
10:30	Walnut Blight & Phytophthora	Nicole Ward
11:00	Genetic Diversity of Hazelnut Accessions	
	found Resistant to Eastern Filbert Blight	Megan Muehlbauer
11:30	Introducing A Tendency for Variation	Mr. Burbank
12:00	Lunch at Commons Market	
	Program, Seay Auditorium, ASCN, Moderator	Shawn Wright
1:00 p.m.	To be announced	
1:30	Internal Kernel Breakdown (IKB) in Chestnut	
	and its Cause	Dennis Fulbright
2:00	U. S. & Ukraine Persimmon Update	Jerry Lehman
2:30	Refreshment Break	
3:00	A Plant Vigor Seed Study on Pawpaws	Peter Haarmann
3:30	Wrap -up	
6:00	Happy Hour, Hillary J. Boone Center	
6:45	Buffet Banquet, Hillary J. Boone Center, MC	Dennis Fulbright
8:00	Entertainment: Water From Another Time	Steve Isaacs
9:30	Conclusion	

Wednesday, July 25, 2012

7:00 a.m. Breakfast at Commons Market & Dorm check out

**NNGA Field Trip**

8:00 a.m.	Bus leaves for NNGA Tour from parking lot adjacent to Ingels Hall	
8:30	UK Horticulture Research Farm Tour	
9:30	Bus leaves	
10:30	Kentucky State University Research and Demonstration Farm Tour	
	Tour the USDA-National Clonal Germplasm Repository for Pawpaw, organic greenhouse	
	and primocane blackberry planting	
10:30	CAP activity - Visit Lovers Leap Vineyard in morning - Patsy Wilson host	
12:00-1:00	Lunch at KSU Center for Sustainability of Farm and Families	
1:00 p.m.	Grafting Demonstrations - Doug Hines	
	- Change purse graft and Fred Blankenship - 1, 2, 3, 4 flap grafts	
2:30	Leave to tour Buffalo Trace Distillery	
4:00	Leave to return to UK	
5:00	Arrive back at Ingles Hall	

**\*\* Participants are encouraged to mail in their registrations as soon as possible to help us make bus and meal arrangements. Registration information may be found in the April-May Fruit Facts and on the NNGA web site at <http://www.nutgrowing.org/meetinfo.htm>**

## Produce Marketing & Planting Intentions Survey

By Kevin Heidemann and Tim Woods,  
U.K. Agricultural Economics

The Produce Marketing & Planting Intentions survey is a study of the marketing practices and planting intentions of Kentucky fruit and vegetable growers. This survey has been conducted since 2002 collecting information on produce markets. The Produce Marketing & Planting Intentions survey has specifically brought different market channel trends to light.

The following table illustrates results from the Produce Marketing and Planting intentions Survey. This table represents the percentages of survey respondents who indicated that they sold products through various market channels in 2002, 2007, and 2012. However, the 2012 Produce Marketing & Planting Intentions survey data only represents preliminary results because it is an ongoing project and data is still being collected.

The Direct Markets category represents the percentage of respondents who market produce to farmers markets and/or on-farm markets. The majority of all produce growers continue to use direct market channels to reach consumers. This includes both on-farm retail markets and/or community farm markets.

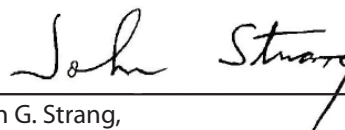
The Farm-to-School category is a new market channel that has developed rapidly over the past few

years, and it was not included in the survey until 2012. The Auction category has also increased considerably since 2002. There was only one produce auction operating in 2002, when this survey began, and there are already a total of six produce auctions in operation as of 2012 and two additional auctions may soon be established. Both the Farm-to-School and the Auction market channels are expected to experience rapid and continuous growth. To view the 2010 Produce Marketing & Planting Intentions survey results, and soon the 2012 results, see the Crop Diversification & Biofuel Research & Education website. Look for the link on the right side of the screen: <http://www.uky.edu/Ag/NewCrops/>.

### Percent selling at least 10% of produce through various market channels

	2002	2007	2012*
Direct Markets	74%	90%	79%
Farmer's Markets	45%	60%	44%
On-Farm Markets	49%	49%	39%
Cooperatives	17%	3%	2%
Non-coop Wholesale	17%	23%	18%
Direct to Grocery	21%	23%	18%
Direct to Restaurant	5%	14%	9%
Auction	9%	21%	18%
CSA	2%	5%	3%
Farm-to-School	--	--	2%

\*Based on preliminary results from the 2012 survey



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