



# Newsletter Extension

## Fruit ICM News

Volume 4, No. 1  
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### Calendar

**January 24-26: Indiana Horticultural Congress**, Adam's Mark Hotel, Indianapolis, IN. Contact Jim Simon at (716) 494-1328 for more information.

**January 28-30: Power Show Ohio**, Ohio State Fairgrounds, Columbus, Ohio.

**February 7-9: Pre-Conference Tours for the Ohio Fruit & Vegetable Growers Congress** in conjunction with the North American Farmer's Direct Marketing Conference and Ohio Roadside Marketing Conference, Cincinnati, OH. Tour begins at 7 a.m. at the Regal Cincinnati Hotel. For information contact Mike Pullins at (614) 249-2424.

**February 10-12: 2000 Ohio Fruit & Vegetable Growers Congress & North American Farmers' Direct Marketing Conference** in conjunction with Ohio Roadside Marketing Conference, Cincinnati Convention Center, Cincinnati, OH. Convenient lodging at Regal Cincinnati Hotel (513) 352-2100. In addition to our Ohio State specialists, we will have experts from University of Kentucky, Purdue University, and the state of Washington.

**March 16: Paul Wright, Attorney at Law**, will be in Northeast Ohio to explain business organizational forms (partnership, corporation, limited liability corporation, etc.) This subject applies to horticultural, farm, and non-farm businesses. Location will be announced. Please contact Jim Polson at (330) 263-3831 for information.

### **Sharka: Plum Pox Virus Update January 11, 2000**

*Source: J.W. Travis, John Halbrecht, Fred Gildow, Ruth Welliver, Dept. of Plant Pathology, Penn State*

*University, Bureau of Plant Industry, Pennsylvania Department of Agriculture as reported in Fruit Times Newsletter, Vol. 19, No. 1, Jan. 11, 2000*

The following contains a summary of the current status of Plum Pox Virus in Pennsylvania. You can keep up with the latest information on Plum Pox Virus on the web at <http://sharka.cas.psu.edu>.

### **Initial Identification of Plum Pox Virus in Pennsylvania:**

A grower in Adams County first recognized the unusual symptoms of Plum Pox Virus (PPV) on Encore peach. After a series of inquiries, a representative from the PDA visited the site on September 23, 1999, and collected samples for laboratory analysis. By September 28, 1999 preliminary laboratory results indicated that the Plum Pox Virus was potentially the cause of the disease, so samples were sent to the USDA for further testing. On October 12, 1999 the USDA had positively identified Plum Pox Virus as the cause of the problem and identified it as Strain-D. Strain-D was found in both peach and plum samples.

### **Survey to Identify Infected Orchards:**

A delimiting survey of all stone fruits within a 1-mile radius of the initial Encore peach orchard was begun on October 12, 1999 to determine the extent of the disease distribution. Personnel from PDA, USDA and PSU were involved in the survey. Because fresh leaves are required to test for PPV, there was extreme urgency in sampling due to the potential for rapid loss of leaves. The time available to test for PPV-infected orchards in the fall of 1999 was very limited. The collectors walked diagonally across each orchard, collecting leaves from the mid-section of shoots. At the PDA laboratory, 8 leaves from each sample were examined visually for symptoms and tested using laboratory techniques for the virus. The laboratory test being used to detect the virus is very sensitive. The virus can be detected even if there is only one infected leaf in a sample of 100 leaves. On October 20, 1999, the survey was expanded to include a 2-mile radius from initial positive block. Additional surveys were also conducted in and around Adams County nurseries, in orchards adjacent to the nurseries, and at some additional Encore peach orchards. Weeds and wild stone fruit species, which are suspected of harboring the virus, were also tested. A windstorm occurred on November 4, blowing the leaves off the trees and terminating the survey.

### **Results of Initial Delimiting Survey:**

There were 104 orchard blocks sampled and tested in the Latimore & Huntington townships in Adams County, 57 orchard blocks were tested in other parts of Adams County, and 33 orchards in other counties. Of the 218 orchard block samples, 200 were negative for Plum Pox Virus. The 18 Plum Pox Virus infected orchard blocks were all located in the Latimore & Huntington Township area. Of these 18 orchard blocks, only 2 showed visual symptoms. In all cases, the weeds and wild stone fruit plants sampled were negative for the virus.

PDA placed quarantine on the two Adams County townships on November 6, 1999, which prohibited the movement of budwood or trees from the area. There is no restriction on the sale of fruit from the area, since there is no evidence that the virus is spread from the fruit. There are approximately 1000 acres of stone fruit in the infected area of the two Adams County townships.

### **Year 2000 Survey:**

All stone fruit orchards in Pennsylvania will be sampled and tested by the PDA for PPV at least once.

All the orchards in Adams County and the counties surrounding Adams County will be sampled twice. In addition, door-to-door surveys will be conducted to identify backyard stone fruit trees that may require testing.

### **Eradicating Infected Stone Fruit Orchards in 2000:**

All 18 stone fruit orchard blocks that tested positive for PPV last fall will be removed. If additional PPV-infected orchards are identified they will be removed if there are greater than 5% of the trees infected with the virus. If fewer than 5% of the trees are infected, a Risk Assessment Team assembled by the USDA will evaluate the situation and make a recommendation on tree removal.

### **Commercial Orchard and Fruit Tree Nursery Indemnity Program:**

The Drought, Orchard and Nursery Indemnity and Flood Relief Act took effect on December 13, 1999. The Act establishes the Program, describes the circumstances under which grants are to be awarded, and appropriates \$2,000,000 to fund these grants. The Program is intended to provide some financial relief to owners of commercial orchards and owners of commercial tree fruit nurseries who incur costs related to controlling PPV.

A person who wishes to apply for a grant under the Program may download an application form from the PDA website: The PDA will also provide grant application forms upon request telephoned to the PDA, Bureau of Plant Industry, at (717)-772-5203, or upon written request to the following address: Pennsylvania Department of Agriculture, ATTN: Bureau of Plant Industry, 2301 North Cameron Street, Harrisburg, PA 17110-9408.

The Federal Indemnity Program has not yet been established as of January 11, 2000. There are reports that it may be established this week. Fruit growers with infected stone fruit blocks should not consider removing those blocks until a Federal Indemnity Program is in place.

### **Nurseries in Adams County:**

No nurseries located in Adams County are in the quarantine area. All nurseries and stone fruit orchards next to the nurseries tested negative for the PPV when tested by the PDA in 1999. Stone fruit trees budded with wood from the quarantine area are quarantined and will not be sold by the nurseries. Records indicate that nurseries located in Adams County have sold no stone fruit trees using budwood from the quarantine area in the last 5 years.

Other PPV sites: (Thanks to Bruce Easley, OSU IPM Research Associate)

#### Image Gallery:

[http://www.caf.wvu.edu/Kearneysville/disease\\_descriptions/PPV/PPVGallery.html](http://www.caf.wvu.edu/Kearneysville/disease_descriptions/PPV/PPVGallery.html)

#### Map of Quarantine Area in Pennsylvania:

<http://ceris.purdue.edu/napis/pests/ppox/mgif/ppq.gif>

#### General Information with Numerous Links:

[http://www.state.pa.us/PA\\_Exec/Agriculture/plum\\_pox/pda\\_press\\_release.html](http://www.state.pa.us/PA_Exec/Agriculture/plum_pox/pda_press_release.html)

## Label Changes for Guthion Solupak

Source: [http://uscrop.bayer.com/veg/label\\_veg.html](http://uscrop.bayer.com/veg/label_veg.html) (select Section 3, M-3391 9/29/99 from PDF files)

The Restricted Entry Intervals (REI) are specific for crop and the type of activity planned for orchard or vineyard:

<b><u>CROP</u></b>	<b><u>ACTIVITY</u></b>	<b><u>REI</u></b>
Tree Crops	Hand thinning	14 days
	Hand harvesting	14 days
	Propping	48 hours
	Mowing	48 hours
	Irrigating	48 hours
	Scouting	48 hours
	Other activities	48 hours
Grapes	Girdling	21 days
	Cane throwing	21 days
	Leaf pulling	21 days
	Cane cutting	21 days
	Bunch thinning	21 days
	Hand harvesting	21 days
	Other activities	48 hours
All Other Crops (except citrus)	Mowing	48 hours
	Irrigating	48 hours
	Scouting	48 hours
	All other activities	4 days

The Preharvest Intervals (PHI) are specific to crop and application rate:

<b><u>CROP</u></b>	<b><u>PHI</u></b>
Apple, Pear	14 days
Apple >2 lb at last application	21 days
Cherry	15 days
Peach, Nectarine	21 days
Plum, Prune	15 days
Raspberry	14 days
Blueberry	7 days
Grapes	21 days
Strawberry	5 days

## Preliminary Monthly Climatological Data for Selected Ohio Locations December 1999

Weather Station	Monthly	Normal Monthly	Year-to-Date	Normal

<b>Location</b>	<b>Precip.</b>	<b>Precip.</b>	<b>Precip.</b>	<b>Year-to-Date Precip.</b>
Akron-Canton	1.87	2.95	35.84	36.82
Cincinnati	3.60	3.15	32.47	41.33
Cleveland	2.70	3.09	31.97	36.63
Columbus	2.68	2.86	27.57	38.09
Dayton	2.56	2.93	29.86	36.64
Elyria	2.61	3.06	30.98	35.95
Fremont	2.39	2.72	28.62	34.69
Mansfield	2.70	3.07	34.06	39.66
Norwalk	2.56	2.77	34.59	35.64
Toledo	1.82	2.93	28.99	32.97
Wooster	1.47	2.62	28.01	36.19
Youngstown	2.37	2.93	41.96	37.32

<b>Weather Station</b>	<b>Avg.</b>	<b>Normal</b>	<b>Avg.</b>	<b>Normal</b>	<b>Dec.</b>	<b>Normal</b>	<b>1999</b>	<b>Normal</b>
<b>Location</b>	<b>High</b>	<b>High</b>	<b>Low</b>	<b>Low</b>	<b>Mean</b>	<b>Dec.</b>	<b>Mean</b>	<b>Yearly</b>
					<b>Temp.</b>	<b>Mean</b>	<b>Temp.</b>	<b>Mean</b>
Akron-Canton	39.6	37.7	25.5	23.6	32.5	30.7	51.1	49.8
Cincinnati	43.7	41.5	25.9	25.3	34.8	33.4	54.8	53.3
Cleveland	40.3	37.4	27.2	24.5	33.8	30.9	51.7	49.6
Columbus	41.9	39.2	27.3	24.6	34.6	31.9	54.9	51.5
Dayton	41.1	39.1	25.5	24.0	33.3	31.5	53.5	51.8
Elyria	41.1	39.0	25.5	24.3	33.3	31.7	50.7	50.3
Fremont	39.8	36.7	23.9	21.8	31.8	29.2	49.4	49.5
Mansfield	38.8	36.8	24.1	22.7	31.4	29.8	50.4	49.6
Norwalk	40.3	37.0	25.7	21.8	33.0	29.4	50.9	49.0
Toledo	38.7	35.2	23.5	20.5	31.1	27.8	51.4	48.6
Wooster	40.9	37.5	25.5	22.5	33.2	30.0	51.8	49.6
Youngstown	38.7	36.0	25.2	22.9	32.0	29.5	50.0	48.4

Temperatures in degrees F, Precipitation in inches

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Information presented above and where trade names are used, they are supplied with the understanding that no discrimination is intended and no endorsement by Ohio State University Extension is implied. Although every attempt is made to produce information that is complete, timely, and accurate, the pesticide user bears responsibility of consulting the pesticide label and adhering to those directions.

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