

February 1998 (2-98)

Prepared by John Strang, Extension Horticulturist; Dana Hadad, Extension Associate; John Hartman, Extension Plant Pathologist; Rick Maurer, Assistant Extension Director for Rural and Econ. Development Programs; John Strang, Editor, Marilyn Hooks and Elizabeth Griffin, Secretaries

Meetings

Feb. 17 - Botanical Herbs & Specialty Vegetables, Day tour of local horticultural businesses, Louisville, KY, 10:00-4:00p.m. and **The Future of Growing Botanicals for the Medicinal Plant Industry** 6:30-9:30p.m. Registration \$5.00. Contact Roy Ballard 812/948-5470.

Feb. 19 - Ohio Berry Summit, Bloomfield Auditorium Ohio Department of Agriculture Building, Reynoldsburg, OH. Registration \$10.00 which includes lunch and handouts. Contact Mike Pullins 614/249-2424 or Tom Wall 800/297-2072.

Feb 24 - Apple Pruning Demonstration, Metcalf Orchard, Harlan County, 1:00 p.m. EST. Contact Rob Miller 606/573-4464.

Feb 24 - Apple Grafting Demonstration, Pineville, KY. Contact D. J. Skully 606/337-2376.

Feb. 25 - Apple Pruning Demonstration, Pineville, KY. 9:00 a.m. EST. Contact D. J. Skully 606/337-2376.

Feb. 26-28 - North American Farmer's Direct Marketing Conference and North American Strawberry Growers Annual Meeting, Victoria Conference Centre Empress Hotel, Victoria, British Columbia, Canada. Contact 250/656-0941.

Feb. 26-Mar. 1 - Fred Wische's Lawn & Garden Expo. Commonwealth Convention Center, Louisville, KY. Contact Expositions 502/458-7353.

Feb. 27 - Northern Piedmont N.C. Specialty Crops School. Ramada Inn, Exit #204 off of I-85, Oxford, NC, approximately 30 miles north of Durham. Registration \$25.00. Contact Granville County Center 919/603-1350.

Feb. 28 - Kentucky Vineyard Society Grape Pruning and Training Demonstration. Research and Education Center, Princeton, KY. 10:00 a.m. CST. Contact Ricky Yeagan 502/365-2787 or Jerry Brown 505/365-7541 Ext. 204.

Mar. 3 - Home Lawn and Garden Tri-County meeting, Fruit in the Landscape. Owingsville, KY. Contact Gary Hamilton 606/674-6121.

Mar. 7 - Kentucky Vineyard Society Grape Pruning and Training Demonstration. Tom Collins Vineyard, Lexington, KY. 10:00 a.m. EST Contact Butch Meyer 502/543-2666 or John Strang 606/257-5685.

Mar. 9 - Opportunities in Mushroom Production, New Albany, IN. Registration \$5.00. Contact Roy Ballard 812/948-5470.

Mar. 9-10 - Management First for Apple IPM. Rough River Dam

State Resort Park. See article and registration form in the January Fruit Facts. Contact Jerry Brown 502/365-7541 Ext. 204 or John Strang 606/257-5685.

Mar. 10 - Home Fruit Production, Barren county. Contact Gary Tilghman 502/651-3818.

Mar. 11-12 - Tri-State Vegetable School. University Center, Indiana University, Southeast, New Albany, IN. See program below.

Mar. 17 - Extension Expo., Home Fruit Production, Jackson, KY. Contact Lowell Hamilton 606/666-8812.

May 20 - Commercial Apple IPM Meeting, Schlei's Orchard, Hopkinsville, KY.

Jun. 14 - Kentucky Herb Festival, Lakeview Park, Frankfort, KY. Contact Sue Clifford 606/234-1452.

July 16-19 - International Herb Association Annual Conference, "Herb Smart Day" open to the public, July 19. Contact International Herb Association 847/949-4372, www.herb-pros.com.

Migrant Farm Labor Employment Guidelines

The Kentucky farm Labor Information Task Force, has published a brochure of Migrant Farm Labor Employment Guidelines. County Extension agents should have this brochure soon and it is also available on the web at www.uky.edu/Agriculture/AgPrograms/Migrant/ The web version also contains internal links to agencies and forms which are referenced in the publication. (Maurer)

Tri-State Vegetable School

Purdue University, the University of Kentucky and The Ohio State University are cooperating in hosting the Tri-State Vegetable School March 11-12. The school will focus on melons, pumpkins and pepper production.

Tri-State Vegetable School Program Schedule

Wednesday, March 11

MELONS

8:00 Registration

8:30 Welcome - Rick Foster, Purdue

Class Topics

How to Select a Variety - Jim Simon, Purdue

Transplant Production - Dan Egel, Purdue

Plastic Mulch/Weed Management - Liz Maynard, Purdue

Cooling Facilities - Abner Horrall, Grower/Shipper, Knox Co. Indiana

Marketing - Industry Representative

Irrigation and Water Management - Tom Wall, Ohio State

Disease Management - Rick Latin, Purdue

Insect Management - Rick Foster/Jerry Brust, Purdue

Thursday, March 12

AM - PUMPKINS

7:30 Registration
8:00 Welcome - Roy Ballard, Purdue

Class Topics

Choosing Pumpkin Varieties - Bob Precheur, Ohio State
How to Grow Pumpkins - Brad Bergefurd, Ohio State
Weed Management - Leslie Weston, University of Kentucky
Insect Management - Celeste Welty, Ohio State; Jerry Brust, Purdue
October Marketing - Joe Huber Jr., Starlight IN
Disease Management - Rick Latin, Purdue

PM - PEPPERS

1:00 Welcome - Roy Ballard, Purdue

Class Topics

Selecting Pepper Varieties - Brent Rowell, University of Kentucky
How to Grow Peppers - John Strang, University of Kentucky
Insect Management - Ric Bessin, University of Kentucky
Weed Management - Leslie Weston, University of Kentucky
Disease Management - William Nesmith, University of Kentucky

Registration Fees

Melons	\$40.00
Pumpkins	\$20.00
Peppers	\$20.00
Late Fee (<i>after Feb. 27</i>)	\$10.00

For Information on Registration, Contact:

Roy Ballard
Floyd County Cooperative Extension
B-03 City County Bldg.
311 W. 1st Street
New Albany, In 47150-3588
Phone: 812-948-5470
Fax: 812-945-1168
E-Mail: roy_ballard@ces.purdue.edu

Make check payable to:

Purdue CES Education Fund - Floyd County
Mail to:
Roy Ballard,
Floyd County Cooperative Extension
B-03 City County Bldg.
311 W. 1st Street
New Albany, In 47150-3588

Observations from Blairsville Georgia

In the fall of 1997 Tommy Yankey, Annette Meyer, David

Koester and Jerry Brown attended the Southeastern U.S. fruit training and tour. The training was held at the University of Georgia Mountain Experiment Station in Blairsville, Georgia. Fruit specialists throughout the Southeast were given 30 minutes to update ongoing research and discuss future projects. In the evening, specialists met to collaborate on the writing of the regional fruit spray guide. The agents gained an appreciation for the time and effort required to assemble a regional publication involving as many as 7 states and 30 specialists.

On the second day local fruit orchards were toured. A common theme at all orchards visited was the emphasis placed on marketing family entertainment. These growers are willing to try any marketing idea. After initiation of a marketing concept it is thoroughly measured and evaluated.

The day we visited the orchards an average of 12 cultivars of orchard grown apples were available to customers. We were all impressed by the diversity, quality and uniformly large size of the fruit being produced.

All growers were quick to adapt to new technology such as cider pasteurization and thorough sanitation of their facilities. It was proven to us that pasteurization does not necessarily mean a loss or change in cider flavor.

The orchardists are pro-active in farm experiments with new rootstocks, cultivars and production systems. We viewed high density Pink Lady trees producing large fruit in the second leaf.

These growers were not waiting to be told which production methods were best suited to their orchards. They were taking an active role in discovering this for themselves on a small scale and then making changes when warranted.

As one grower proudly stated, theirs was a fifth generation family orchard yet they didn't have a tree on the farm over 15 years old. The average tree age was much less.

Viewing the Georgia Mountain Experiment Station reminded us of the value of educating through demonstration. The University of Kentucky is also doing this with high density plantings in Princeton and rootstock evaluation at Lexington and Quicksand. Our experiment stations have open houses when producers can come and view the research being conducted.

Abound - A New Fungicide for Grapes

Derived from a new class of chemical compounds extracted from the wood decaying toadstool *Strobilurus tenacellus*, Abound fungicide, manufactured by Zeneca Ag Products is listed in our grape spray guide for 1998. The fungicide is formulated as a flowable fungicide containing 22.9% of the active ingredient azoxystrobin. Abound is a broad spectrum, preventive fungicide with systemic and curative properties. It can be alternated or tank mixed with other registered fungicides and should be used in a way that minimizes development of fungicide resistance to the chemical.

An integrated pest management (IPM) program for grapes is

essential for success with this or any grape fungicide. The IPM program should include practices known to reduce disease development such as a) selection of varieties with disease tolerance or resistance, b) canopy management through pruning and thinning, c) proper timing and placement of irrigation, d) removal of plant debris where inoculum overwinters, and e) use of fungicides only when required.

Abound is useful for management of four different fungal pathogens of grape causing the following diseases: black rot (*Guignardia bidwellii*), downy mildew (*Plasmopara viticola*), Phomopsis cane and leaf spot (*Phomopsis viticola*), and powdery mildew (*Uncinula necator*). Abound has been tested experimentally in Tennessee and shown to provide downy mildew control equal to that of captan.

The first application of Abound can be made at bud break, and the last one 14 days prior to harvest, but during the season, no more than two sequential applications of the fungicide should be made and no more than six total applications can be made per season. For more details on timing and use of grape fungicides, consult the "Kentucky Commercial Small Fruit and Grape Spray Guide" (ID-94), available at your County Extension Office.

A note of caution: Abound fungicide is very phytotoxic to certain varieties of apples. Do not use the same spray equipment for grapes and apples if Abound is used on grapes. Although the Abound label lists peaches as a legal site for application, we have chosen to omit Abound from our tree fruit spray guides because in Kentucky, it is likely that the same spray equipment would be used for both apples and peaches. (Hartman)

Apple Scab Resistant Cultivars - Susceptibility to Other Diseases - Disease ratings of apple scab resistant cultivars that can be grown in Kentucky are found in the following table:

Apple Cultivars	Apple scab suscept. ratings	Cedar apple rust suscept. ratings	Cedar quince rust suscept. ratings	Fire blight suscept. ratings	Powdery mildew suscept. ratings
Britegold	VR	HS	HS	MR	R
Dayton	VR	R	?	?	R
Enterprise	VR	VR	?	?	R
Freedom	VR	S	?	MR	R
Gold Rush	VR	HS	?	?	S
Jonafree	VR	HS	S	S	R
Liberty	VR	VR	S	MR	S
Macfree	VR	VR	HS	MR	S
Moira	VR	R	HS	S	S
Murray	VR	R	HS	MR	?
Nova Easygro	VR	VR	?	MR	S
Novamac	VR	VR	HS	?	?

Prima	VR	HS	HS	MR	R
Priscilla	VR	VR	HS	MR	R
Pristine	VR	S	?	?	S
Redfree	VR	VR	R	S	S
Richilieu	VR	HS	S	?	?
Sir Prize	VR	HS	HS	MR	R
Trent	VR	R	HS	MR	R
Williams Pride	VR	S	?	?	R

 VR = very resistant. No control needed.

MR = moderately resistant. Control only needed with fire blight susceptible rootstocks or under high disease pressure

R = resistant. Control only needed under high disease pressure.
 S = susceptible. Control usually needed where disease is prevalent.

HS = highly susceptible. Control always needed where disease is prevalent. These cultivars should receive first priority when control is called for.

This information, adapted for "Fruit Facts," was obtained from the internet site maintained by the Kearneysville Tree Fruit Research and Education Center of West Virginia University (<http://www.caf.wvu.edu/kearneysville/tables/totscabsus.html>). (Hartman)

Orchard Chemical Suppliers

The following list has been compiled in response to Kentucky grower and County Agricultural Extension Agent requests for outlets from which to purchase many of the pesticides listed in fruit extension publications. In some areas of the state it is very difficult to find pesticides recommended for fruit crops. No supplier endorsement is implied here and a concerted effort was made to locate all of the major fruit chemical suppliers in the state. In addition several suppliers in surrounding states are also listed.

One grower concern was, would the supplier sell and deliver less than case quantities? This is noted in the table. Another question suppliers were asked was who they would sell to.

Full Service - deliver less than

<u>Orchard chemical suppliers</u>	<u>case quantities</u>	<u>Sales made to:</u>
Agri-Chem, Inc. 1301 US Hwy. 62 West Princeton, KY 42445 502/365-7232	No	growers
Akridge Farm Supply 724 Fairview Ave. Eddyville KY 502/388-2910	Subject to Availability	retail outlets growers

Akridge Farm Supply
P.O. Box 175
Fredonia, KY. 42411
502/545-3332

Bluegrass Feed Can not ship retail,
P.O. Box 1095 wholesale possible
Louisa, KY 41230 (Call first)
606/638-3333

Cayce Lime & Fertilizer In local growers
179 Simpson Street area
Fulton, KY 42041
502/838-6261
(fruit chemicals not stocked/will
order in)

CORY/TERRA Yes wholesale
13000 Middletown Industrial Blvd. retail outlets
Suite K growers
Louisville, KY 40223
502/245-5934 800/424-2679

CORY TERRA Yes wholesale
6739 Guion Rd. retail outlets
Indianapolis, IN 46268 growers
800/672-4273

Grower Service Corporation Not normally wholesale
574 Horton Court To grower only
Lexington, KY. 40511 if a retail
606/254-3811 outlet not in
area

Helena Yes wholesale
P.O. Box 366 retail outlets
Springfield, KY growers
606/336-3947 800/633-1881

Miles Farm Supply No growers
2760 Keller Rd.
Owensboro, KY 42301
502/926-2420

UAP-Richter/John Phillips Will deliver growers
1061 Henderson - Ford if possible, retail,
 Mooresville, Indiana, 46158 (ship UPS) wholesale
phone and fax 317/831-2559
voice pager 888/474-6470 toll free

Ryan's Agri & Pest Supplies Yes wholesale

1130 West High Street Lexington, KY 40508 606/233-0057		retail outlets producer
Robinson Milling Co. P.O. Box 357 Somerset, KY 42502 606/678-4106, or 4107	Possibly	retail
Salem Fruit Growers Coop. Assoc. 12093 Lisbon Rd. P.O. Box 3 Greenford, OH 44422 800/423-3609	Will ship	growers retail
Security Seed & Chemical Co., Inc. 1095 Majaun Road Lexington, Ky 606/255-7636	No	wholesale retail outlets producer
Security Seed & Chemical Co., Inc. 1916 Dawson Springs Road Hopkinsville, KY 42240 502/885-3650	In local area	wholesale retail outlets growers
Security Seed & Chemical Co., Inc. 1920 Dawson Road Russellville, KY 42276 502/726-4133 (fruit chemicals not stocked/will order in)	No	wholesale retail outlets producers
Security Seed & Chemical Co., Inc. 1902 Guthrie Avenue St. Bethlehem Clarksville, TN 37177/615/552-0107	In local area	retail outlets farmers
Southern States Cooperatives A considerable number of these are spread across the state and are the source of some pesticides for fruit crops.		growers
TERRA 200 Jamestown Rd Cobden, IL 62920 618/893-4852	Yes	wholesale retail outlets growers
Tri State Delta Chemical United Horticultural Supply 574 Horton Court	Will ship UPS	wholesale to grower only, if a retail

Lexington, KY 40511 606/254-3811		outlet is not in area
Warner Fertilizer and Chemical Box 188 East Bernstadt, KY 40729 606/843-6163	Yes	growers retail sales
Warner Fertilizer and Chemical P.O. Box 796 Somerset, KY 42502 606/679-8484	Yes	growers retail sales
Warner Fertilizer and Chemical Rte 5, P.O. Box 5074 Albany, KY 42602 606/387-6415	Yes	growers retail sales
Warner Fertilizer and Chemical P.O. Box 30 Russell Springs, KY 42642 502/866-5319	Yes	growers retail sales
Warner Fertilizer and Chemical P.O. Box 274 Columbia, KY 42728 502/384-5042	Yes	growers retail sales
Warner Fertilizer and Chemical P.O. Box 108 Nancy, KY 42544 606/636-6241	Yes	growers retail sales
Warner Fertilizer and Chemical P.O. Box 1100 Liberty, KY 42539 606/787-2215	Yes	growers retail sales
Warner Fertilizer and Chemical P.O. Box 39 Smith Groves, KY 42171 502-563-6070	Yes	growers retail sales
Warner Fertilizer and Chemical P.O. Box 215 Thomkinsville, KY 42167 502/487-5161	Yes	growers retail sales
Warner Fertilizer and Chemical	Yes	growers

P.O. Box 87 Campbellsville, KY 42718 502/465-6387		retail sales
Warner Fertilizer and Chemical P.O. Box 117 Monticello, KY 42633 606/348-8447	Yes	growers retail sales
Valley Fertilizer P.O. Box 180 Edmonton, KY 42129 502/432-2727	Yes	growers retail sales
Waterfield Agricultural Svcs. 315 W. Martin Luther King Dr. Union City, TN 38281 800/238-7244	In local area	wholesale retail outlets producers

*Many of these chemical suppliers will ship pesticides if they are not restricted use materials. (Hadad and Strang)

Receiving Fruit Facts Electronically on the Internet

To get the Fruit Facts newsletter sent to you electronically automatically and approximately two weeks earlier than it would normally be received via mail, you can subscribe to the UK College of Agriculture's Almanac Server.

To subscribe, send an e-mail message to "almanac@ca.uky.edu". Be sure that your from: address is correct. The body of the message must contain the line, "subscribe fruitfacts" with a blank line after it, nothing more.

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