

## ***Illinois Fruit and Vegetable News***

Vol. 11, No. 1, February 8, 2005

*a newsletter for commercial growers of fruit and vegetable crops*



*"We are what we repeatedly do. Excellence, then, is not an act, but a habit." Aristotle*

Address any questions or comments regarding this newsletter to the individual authors listed after each article or to its editor, Rick Weinzierl, 217-333-6651, [weinzier@uiuc.edu](mailto:weinzier@uiuc.edu). The *Illinois Fruit and Vegetable News* is available on the web at: <http://www.ipm.uiuc.edu/ifvn/index.html>. To receive email notification of new postings of this newsletter, call or write Rick Weinzierl at the number or address above.

*This issue's words of wisdom ... which usually means the jokes ... are at the end of newsletter ... check the last page.*

### ***In this issue ...***

**Crop and Regional Reports** (from Elizabeth Wahle ... notes on Aim herbicide for pumpkins)

**Upcoming Programs** (Feb. 17: Stateline (IL-WI) fruit and veg conference; Feb. 21-23: Missouri Fruit and Vegetable Conference; Feb. 24: Kankakee County Vegetable Growers School; Mar. 1-2: Illinois Small Fruit and Strawberry School)

**Notes from Chris Doll** (winter kill in peaches, notes from the files, cider winners)

**Vegetable Production and Pest Management** (Jack-o-lantern cultivars)

**Fruit Production and Pest Management** (cider contest winners)

**Information Sources for Fruit and Vegetable Growers** (an incomplete list of web sites, publications, etc.)

**University of Illinois Extension Specialists in Fruit & Vegetable Production & Pest Management**

### ***Crop and Regional Reports***

**In southern and southwestern Illinois**, winter meetings are coming to a close and preparations for another cropping season are well under way for many growers. The pumpkin workshop held at the beginning of the Illinois Specialty Crops Conference was well attended. One question that came up was whether Aim herbicide (carfentrazone-ethyl) is labeled for use on pumpkins now? Yes, pumpkins have been added to the Aim label under Crop Group 9 (Vegetable, Cucurbit). Application must be made with a hooded sprayer in order to prevent spray deposition to green stems, leaf tissue, flowers or fruit of the pumpkin plant. This limits the use of Aim to fairly early in the season before plants begin to run, assuming no vine training. Crop Groups have been developed for specialty crops in order to streamline the pesticide registration and labeling process. The Aim label is a good example of multiple crops being added to the label without having to list each one individually. It is left up to the applicator to find out which group each crop falls in. As in the case of pumpkin, unless you know that pumpkin is in Crop Group 9, the word pumpkin does not appear on the Aim label. For a full list of crops and their crop grouping, refer to the EPA Website: <http://www.epa.gov/fedrgstr/EPA-PEST/1995/May/Day-17/pr-266.html>.

Weather was a topic of discussion at the Tree Fruit Schools held recently in Mt. Vernon and Hardin. Rainfall in 2005 is making up for the drought experienced last September. In January alone, most of the southern region received over 9 inches of rain. Temperatures for the most part have continued to remain mild, except a below zero periods late in December and

again late in January. The combination of saturated soils and mild temperatures with sudden drops in temperature may be responsible for the amount of peach bud kill being reported. Most peach growers throughout the region are reporting some level of bud kill, anywhere from 20 to 100% on some trees. Oddly enough, one grower reported that his Loring had at least 80% live buds, while his older Redhaven are showing severe bud kill. Variety, age of tree, and location all seem to be factors for the hit or miss bud kill. The upshot is, that as of now, we have a peach crop.

Reminder to growers: With the arrival of soybean rust in the US, fungicide supply may become an issue. Not only are soybeans at risk, but soybean rust has a broad host range and can infect many different species of legumes including: dry beans, green, lima and butter beans, vetch species, lupines, and medic. Because there are leguminous vegetable crops at risk, there will be a high demand for fungicides like Bravo, Quadris, Amistar, Nova, Endura, and Cabrio. Even if you don't produce leguminous crops, there is a good chance you will need these fungicides for other crops you are producing. Since soybean rust moves in a northern direction, it can be expected that southern tier states will have first priority for supply of fungicides for the upcoming growing season. For this reason, I strongly advise growers to secure a quantity of fungicides now to cover the 2005 growing season.

Elizabeth Wahle (618-692-9434; [wahle@uiuc.edu](mailto:wahle@uiuc.edu))

## ***Upcoming Programs***

***Illinois/Wisconsin (Stateline) Fruit and Vegetable Conference on Thursday February 17, 2005*** ... at Lake Lawn Resort in Delavan, Wisconsin. Contact Maurice Ogutu ( (708-352-0109; [ogutu@uiuc.edu](mailto:ogutu@uiuc.edu)).

***Missouri Small Fruit and Vegetable Conference on February 21-23, 2005*** ... at Springfield, Missouri. Contact Pamela Mayer (417-926-4105; [pam621t@smsu.edu](mailto:pam621t@smsu.edu)); check the program at:

<http://mtngrv.smsu.edu/2005%20Missouri%20Small%20Fruit%20and%20Vegetable%20Conference.pdf>

***Kankakee County Vegetable Grower School on Thursday February 24, 2005*** ... at the Kankakee County Extension Office Bourbonnais, IL. Contact Maurice Ogutu ( (708-352-0109; [ogutu@uiuc.edu](mailto:ogutu@uiuc.edu)).

***Illinois Small Fruit and Strawberry Schools, March 1 - 2, 2005*** ... at the Holiday Inn, Mt. Vernon, Illinois. Registration will include the 2005 Midwest Commercial Small Fruit and Grape Spray Guide, the Midwest Small Fruit Pest Management Handbook, and the school Proceedings. (Contact Bronwyn Aly (618-695-2444; [baly@uiuc.edu](mailto:baly@uiuc.edu)) or Elizabeth Wahle (618-692-9434; [wahle@uiuc.edu](mailto:wahle@uiuc.edu)).

## ***Notes from Chris Doll***

Another winter is upon us and as usual, it is a topic of conversation (or writing). January came close to setting the all time record for precipitation with 9.3 inches for the month on the Back-40. It was mostly from rain, as SW Illinois missed the snow storms in late December and mid-January. The saturated soils have stopped all field work except in the orchards with a good sod cover. Temperatures have been livable, but a minimum of 4 degrees on December 24 and 0 degrees on January 17 killed more peach buds than one would expect. Sample peach shoots from Calhoun County showed nearly 100 percent kill on Red Haven, Cresthaven and Redstar, and 50-70 percent live buds on Carolina Belle, Contender and Laurol. Most orchards report some kill and some variation between varieties. This follows a wet, mild fall which had only a 33-degree frost prior to a November freeze of 25 degrees on the 25th. Spring will let us know how the strawberries fared through this.

It has been a good winter for cleaning out some files and attending meetings. While cleaning files, I found a 1962 USDA Plant Introduction list of apples from which I got my start of Tohoku 7, which was named Fuji in 1965. The early description was this: "*Ralls x Delicious. Resembles Delicious in color and Rall's in shape. Firm in texture but very juicy. Quality excellent. Expected to replace the Ralls in Japan.*"

In a 1997 article in "The Good Fruit Grower," variety guru Jim Ballard of Yakima wrote "*in 1965, I thought Tohoku #7 was too ugly to be important. It proves you should not make snap decisions.*" I may be like Jim in making snap decisions, as I prefer the regular Fuji over some of the new early coloring/maturing strains. Time will tell. Several of these were available to see and taste at the Michigan Expo in December, thanks to Bill Shane. Members of the Midwest Apple Improvement Association met in Ohio and were privileged to sample a variety of seedling apples from the MAIA and PRI programs and

some of Doug Shefflebine's Wisconsin selections.

Cider tasting was one of the highlights for me at the Michigan Expo--both the hard and sweet cider. I enjoyed Mike Beck's entries in both categories and Hill Brothers sweet. Both orchards entered the Illinois contest at which I was a judge. It turned out that they were winners in Illinois too, as other judges concurred that the Illinois producers have some competition. Gahl Orchard at South Beloit took top honors in the Illinois group for sweet cider, and Lee Elliot topped the Illinois hard cider makers. Elizabeth Wahle will be giving all the placings. There was a wide variation in the hard cider group, from a product about like apple wine to the barrel fermented hard cider that I grew up with. The sweet cider winners are usually those that taste close to fresh juice with lots of apple flavor to go along with color, appearance, aroma, sugar, and acid.

In the September, 2004, issue of Produce Business, an article discussed the 5 Ps of marketing, which were product, price, place, promotion and people, and then they added a sixth with pride. In the January 2005 issue of California Agriculture, it was reported that "measures on the November 2004 ballot to ban the growing of genetically engineered crops failed in three of four California counties", but went on to say that three counties now have voted in the ban. Also, the city of Arcata has voted to adopt an anti-GMO ordinance. I keep thinking how great it would be to have a GMO fireblight resistant apple and pear tree, or a glyphosate-resistant strawberry plant to go with the farmers beans and corn.

Spring is only six weeks away, so the pruning, fertilizing, weed control, sprayer preparation and continuing education should keep everyone busy.

In Memoriam. Bob Chatten of Quincy, a fruit grower and active Horticulture Society member early in his life, and a product salesman in later life, died in October 2004. He will be missed by his wife Betty and their children, and his many friends who enjoyed his friendship and hospitality.

*Chris Doll*

## ***Vegetable Production and Pest Management***

### ***Jack-O-Lantern Pumpkin Cultivars for Illinois***

Pumpkin growers often concern themselves this time of the year (mid-winter) with pumpkin cultivar selection for the upcoming growing season, and often-times, cultivars of the most widely used (and most popular) cultivars are no longer available in the early spring as seed supplies become exhausted. So, pumpkin cultivar seed selection and purchase needs to be done on a timely basis before early spring.

There are numerous pumpkin cultivars from which to choose, and growers often ask what pumpkin cultivars work best in Illinois? Included below are several things that I think a grower needs to consider before purchasing pumpkin seed. First, consult the Midwest Vegetable Production guide or local extension personnel for cultivars that have done well in your region over a period of time. Pumpkin seed costs can be overwhelming to the pocketbook, ranging from \$15 per pound to over \$100 per pound, and seed costs need to be taken into consideration. However, the extra seed cost is often well worth the money, as the available disease resistance in the most expensive hybrid cultivars frequently relates to less fungicide applications. The increased seed costs of those cultivars having fungal disease resistance (i.e., powdery mildew) can often be cheaper in the long run by preventing extra fungicide sprays. Most agree that several cultivars should be grown in an operation and not just one, so I recommend that at least 4 to 5 different pumpkin cultivars be grown; don't put all your eggs in one basket as the saying goes. Finally, know your market and what size your market requires (e.g., very small, small, medium, large, extra-large) as this relates to the cultivar package that you will purchase.

Pumpkin cultivar field evaluations are a key to determining what cultivars do best in a particular region. During 2004, ten cultivars of jack-o-lantern pumpkins were evaluated for yield and fungal disease resistance at the Southern Illinois University Belleville Research Center in Belleville, IL. This test evaluated primarily those cultivars classified as medium to large types. 'Howden', an old cultivar often referred to as the market standard, was included as the control. Minimal fungicide use included applications Bravo Weather Stik (Chlorothalonil), Kocide (Copper Hydroxide), and Topsin (Thiophanate-methyl). Pumpkins were harvested two times (11 September and 30 September). Fungal disease severity ratings of plots were conducted twice (17 August and 11 September), with ratings ranging from 0 to 9, with 0 = no foliage symptoms, 1 to 3 = few foliar symptoms, 4 to 6 = moderate amount of foliar symptoms, and 7 to 9 = severe foliar symptoms. Downy mildew and powdery mildew were the primary fungal diseases detected.

Results indicated that certain cultivars performed much better than others with respect to yielding ability and disease resistance (Table 1). Cultivars with less disease severity tended to produce higher tonnage per acre, as pumpkin weights per

acre were negatively correlated with the second fungal disease severity rating. Pumpkin numbers produced per acre were not influenced by fungal disease severity.

Cultivars that produced the greatest weights per acre included ‘Appalachian’, ‘Sorcerer’, ‘Howdy Doody’, and ‘Magic Lantern’. Again, these cultivars were also the most resistant to the fungal diseases present, with ‘Magic Lantern’ showing the greatest level of resistance. Several pumpkin cultivars were highly susceptible to the fungal diseases present including ‘Autumn Gold’, ‘Gold Strike’, ‘Early Autumn’, and ‘Howden’, and this related to a lower tonnage produced per acre.

Alan Walters (Southern Illinois University; [awalters@siu.edu](mailto:awalters@siu.edu))

**Table 1. Jack-O-Lantern pumpkin yields [numbers and weights (lbs.) per acre] and resistance to various fungal diseases<sup>1</sup>.**

Cultivar	Yield <sup>2</sup>			Fungal Disease Severity <sup>3</sup>	
	Number / Acre	Pounds / Acre	Average Weight	Rating 1	Rating 2
Appalachian	2,420	41,650	17.2	0.7	3.8
Sorcerer	3,146	40,501	12.9	1.3	3.7
Howdy Doody	2,565	37,011	14.4	0.7	4.0
Magic Lantern	2,468	33,241	13.6	0.0	2.7
Phantom	2,081	32,002	15.6	2.0	5.3
Autumn Gold	4,066	29,364	7.2	3.0	7.7
Gold Strike	1,597	24,331	15.8	2.7	6.8
Aspen	1,646	22,675	13.8	1.3	4.5
Early Autumn	2,420	21,044	12.8	1.7	6.7
Howden	1,162	17,492	15.1	2.7	7.8

<sup>1</sup> Data are means of four replications.

<sup>2</sup> Yields are the sum of 2 harvests (11 September and 30 September). No./acre is the number of pumpkins produced per acre, Wt./Acre is the lbs. of pumpkins produced per acre, and Avg Wt. is the average weight (lbs.) of each pumpkin. Cultivars are ranked according to those with the greatest weights/acre.

<sup>3</sup> Fungal disease severity was rated 17 August and 11 September from 0 to 9, with 0 = no foliage symptoms, 1 to 3 = few foliar symptoms, 4 to 6 = moderate amount of foliar symptoms, and 7 to 9 = severe foliar symptoms.

## ***Fruit Production and Pest Management***

### ***Cider Contest Winners***

In addition to all the other sessions at the Specialty Growers Crop Conference, the 16<sup>th</sup> Annual Cider Contests and the 3<sup>rd</sup> Annual Hard Cider Contest took place. Thanks to all our judges for their time and taste buds: Lisa Groesh, IDoA; Wes Jarrell, UI NRES; Ben Wright, Cerexagri; Ken Wagner, Stokes Seed; Jim Shannon, Southern FS; Chris Doll, Edwardsville; Dagmar Taylor, Carbondale; Jeff Wheeler, SIU; Alan Walter, SIU; and Brad Taylor, SIU. And, congratulations to all our winners—keep up the good work!

#### **First place - Hard Cider**

Uncle John's Cider Mill  
Mike Beck

St. Johns, MI

Honorable mention (second place) - Hard Cider  
Apple Hill Orchard  
Lee Elliott  
Winchester, IL

Honorable Mention (third place) - Hard Cider  
Joe Ringhausen Orchards  
Joe Ringhausen  
Fieldon, IL

**#1 National - Cider**

Hill Bros. Orchards  
Jim Hill  
Grand Rapids, MI

**#2 National, #1 State - Cider**

Gahl's Apple Orchard  
Harvey Gahl  
S. Beloit IL 61080

**#3 National, #2 State - Cider**

Tanners Orchard, Ltd  
Craig Tanner  
Speer, IL

**#3 State - Cider**

Edward's Apple Orchard  
Ken and Barb Hall  
Poplar Grove, IL

**1st Runner-up Midwest - Cider**

Almar Orchard  
Jim Koan  
Flushing, MI 48433

**2nd Runner-up Midwest - Cider**

Boggio's Orchard  
Keith and Denise Boggio & family  
Granville, IL

**3rd Runner-up Midwest - Cider**

Curran's Orchard  
Pat Curran  
Rockford, IL

***Resources for fruit and vegetable growers***

We always include our best incomplete list of suppliers, books, and web resources in the first issue of this newsletter each year, so here's this year's listing ...

## *A Variety of Web Resources*

### *Field and Orchard Equipment and Supplies:*

- Bird-X Inc: [www.bird-x.com](http://www.bird-x.com)
- Brewt Power systems: [www.brewtpowersystems.com](http://www.brewtpowersystems.com)
- Bubco Distributing: [www.bubco.com](http://www.bubco.com)
- Davis and Davis Distributors: [www.airofan.com](http://www.airofan.com)
- Fanno Saw Works: [www.fannosaw.com](http://www.fannosaw.com)
- Farm Wholesale Products: [www.farmwholesale.com](http://www.farmwholesale.com)
- Green Hoe Company: [www.greenhoecompany.com](http://www.greenhoecompany.com)
- Hummert International: <http://www.hummert.com/publications.html>
- Irrrometer: [www.irrometer.com](http://www.irrometer.com)
- Korvan Industries: [www.korvan.com](http://www.korvan.com)
- Lendell Manufacturing Inc: [www.lendell.com](http://www.lendell.com)
- Midwest technologies: [www.teejet.com](http://www.teejet.com)
- Nelson Irrigation: [www.nelsonirrigation.com](http://www.nelsonirrigation.com)
- Omnitrac: [www.omnitrac.com](http://www.omnitrac.com)
- Peach Ridge Orchard Supply Inc: [www.peachridge.com](http://www.peachridge.com)
- Tallman Ladders Inc: [www.tallmanladders.com](http://www.tallmanladders.com)
- Stokes ladders Inc: [www.stokesladders.com](http://www.stokesladders.com)
- Value Garden Supply: [www.valuegardens.com](http://www.valuegardens.com)
- Weed Badger: [www.weedbadger.com](http://www.weedbadger.com)
- Whatcom Manufacturing Corp: [www.whatcommfg.com](http://www.whatcommfg.com)
- Clip-It Systems: [www.clipitsystems.com](http://www.clipitsystems.com)
- Durand-Wayland Inc: [www.durand-wayland.com](http://www.durand-wayland.com)
- Gear More Inc: [www.gearmore.com](http://www.gearmore.com)
- Haygrove Tunnels: [www.haygrove.com](http://www.haygrove.com)
- IPM Technologies Inc: [www.ipmtech.com](http://www.ipmtech.com)
- Michigan Orchard Supply: [www.michiganorchard.com](http://www.michiganorchard.com)
- Monterey Ag. Resources: [www.montereychemical.com](http://www.montereychemical.com)
- Orchard Valley Supply: [www.orchardvalleysupply.com](http://www.orchardvalleysupply.com)
- Plastitech Inc: [www.plastitech.com](http://www.plastitech.com)
- Rainbird: [www.rainbird.com](http://www.rainbird.com)
- Reed-Joseph International: [www.reedjoseph.com](http://www.reedjoseph.com)
- Rich-Grow Nursery Products: [www.rich-grow.com](http://www.rich-grow.com)
- Southern FS: <http://home.southernfs.com/>
- Spraying Systems: [www.teejet.com](http://www.teejet.com)
- Trickle-EEZ: [www.trickl-eez.com](http://www.trickl-eez.com)
- Wildlife Control Technology: [www.wildlife-control.com](http://www.wildlife-control.com)

### *Nurseries:*

- Adams County Nursery: [www.acnursery.com](http://www.acnursery.com)
- Burchell Nurseries Inc: [www.burchellnursery.com](http://www.burchellnursery.com)
- C & O Nursery: [www.c-onursery.com](http://www.c-onursery.com)
- Dave Wilson Nursery: [www.davewilson.com](http://www.davewilson.com)
- Fall Creek Farm & Nursery: [www.fallcreeknursery.com](http://www.fallcreeknursery.com)
- Fowler Nurseries: <http://www.fowlernurseries.com/index.html>
- Hilltop Nurseries LLC: email at [hilltop@cybersol.com](mailto:hilltop@cybersol.com)
- Nourse Farms Inc: [www.noursefarms.com](http://www.noursefarms.com)
- Van Well Nursery: [www.vanwell.net](http://www.vanwell.net)
- Brandt's Fruit Trees: [www.ewbrandt.com](http://www.ewbrandt.com)
- Columbia Basin Nursery LLC: [www.cbnullc.com](http://www.cbnullc.com)
- Willow Drive Nursery Inc: [www.willowdrive.com](http://www.willowdrive.com)
- Concord Nurseries: [www.concordnurseries.com](http://www.concordnurseries.com)
- Cover Nurseries Inc: [www.covernurseries.com](http://www.covernurseries.com)
- Double A. Vineyards: [www.doubleavineyards.com](http://www.doubleavineyards.com)

- Duarte Nursery: [www.duartenursery.com](http://www.duartenursery.com)
- Lawyer Nursery: [www.lawyernursery.com](http://www.lawyernursery.com)
- Sierra Gold Nurseries: [www.sierragoldtrees.com](http://www.sierragoldtrees.com)
- Stark Brothers Nurseries and Orchards: [www.starkbros.com](http://www.starkbros.com)
- Summit Sales: [www.summittreesales.com](http://www.summittreesales.com)
- TRECO: [www.treco.nu](http://www.treco.nu)
- Wafler Nursery: [www.waflernursery.com](http://www.waflernursery.com)

***Packing/Storage Equipment/Supplies:***

- A & B Packing Equipment Inc: [www.a-bpack.net](http://www.a-bpack.net)
- American Wholesale Company: [www.awrco.com](http://www.awrco.com)
- Barr Inc: [www.barrinc.com](http://www.barrinc.com)
- Plastic Bins: [www.b maxx.com](http://www.b maxx.com)
- Automata Inc: [www.automata-inc.com](http://www.automata-inc.com)
- Decade Products: [www.decadeproducts.com](http://www.decadeproducts.com)
- Fresh Care Technologies: [www.freshcaretech.com](http://www.freshcaretech.com)
- Herb Barber and Sons: [www.herb-barber-sons.com](http://www.herb-barber-sons.com)
- Kooljet Refrigeration System: [www.kooljet.com](http://www.kooljet.com)
- Monte Packaging: [www.montepkg.com](http://www.montepkg.com)
- Packaging Corporation of America: [www.packagingcorp.com](http://www.packagingcorp.com)
- Pliant Corporation: [www.pliantcorp.com](http://www.pliantcorp.com)
- Putnam Plastics: [www.putnamfarm.com](http://www.putnamfarm.com)
- Rockford Package Supply: [www.rockfordPACK.com](http://www.rockfordPACK.com)

***Midwest suppliers of pheromone traps, lures, etc.:***

- Great Lakes IPM (lures, traps, mating disruption products): 989-268-5693; <http://www.greatlakesipm.com/>
- Gempler's (lures, traps, mating disruption products): 800-382-8473; <http://www.gemplers.com/>

***Marketing and Promotion:***

- Open air farmers markets in Illinois: <http://www.ams.usda.gov/farmersmarkets/states/illinois.htm>
- Wholesale (Terminal) Market Vegetable Prices: <http://www.ams.usda.gov/fv/mnncs/termveg.htm>

***University Newsletters and Related Publications:***

*University of Kentucky:*

- Kentucky Fruit Facts Newsletter: <http://www.ca.uky.edu/fruitfacts/index.htm>
- NewHarvest – Newsletter for vegetable growers in Kentucky:  
<http://www.uky.edu/Ag/Horticulture/commercialB.html>

*Clemson University (South Carolina)*

- Dr. Des Layne's Peach Website: <http://www.clemson.edu/hort/Peach/index.php?p=72>

*Michigan State University:*

- Crop Advisory Team (CAT) Alert newsletters (Fruits and Vegetables included):  
<http://www.ipm.msu.edu/aboutcat.htm>

*University of Minnesota:*

- Minnesota Fruit and Vegetable IPM Newsletter: <http://www.vegedge.umn.edu/MNFruit&VegNews/mnindex.htm>
- Veg Edge: <http://www.vegedge.umn.edu/>

*Purdue University:*

- Vegetable Crops Hotline:

<http://www.entm.purdue.edu/entomology/vegisite/commercial/hotline2003.html>

- Facts for Fancy Fruits: <http://www.hort.purdue.edu/fff/>
- Fruit and Vegetable Connection: <http://www.hort.purdue.edu/fruitveg/>

*The Ohio State University:*

- Ohio VegNet News: <http://www.ag.ohio-state.edu/%7Evegnet/news/newslis.htm>
- Fruit ICM News: <http://ipm.osu.edu/fruit/>
- Midwest Small Fruit and Grape Net: <http://www.ag.ohio-state.edu/~sfgnet/>

*Cornell University (New York):*

- Fruit Resources: <http://www.hort.cornell.edu/extension/commercial/fruit/index.html>
- "Scaffolds" newsletter: <http://www.nysaes.cornell.edu/ent/scaffolds/>
- Diagnosing berry problems: <http://www.hort.cornell.edu> (then select "Commercial Fruit," then select "Berries")
- Commercial Vegetable Resources: <http://www.hort.cornell.edu/extension/commercial/vegetables/pubs/index.html>
- Vegetable diseases: <http://vegetablemndonline.ppath.cornell.edu>

*Rutgers (New Jersey):*

- Plant Pest Advisories: <http://www.rce.rutgers.edu/pubs/plantandpestadvisory/>

*Washington State University:*

- Tree Fruit Information: <http://www.tfrec.wsu.edu/index.php>
- Ground squirrel management video: <http://cru84.cahe.wsu.edu/cgi-bin/pubs/VT0028.html>
- Attracting birds of prey: <http://cru84.cahe.wsu.edu/cgi-bin/pubs/EB1602.html>

*West Virginia University, Kearneysville Tree Fruit Research and Extension Center:*

- Tree Fruit Research and Education Center: <http://www.caf.wvu.edu/kearneysville/wvufarm1.html>

### ***Miscellaneous Vegetable Production Sites***

- Integrated pest management: <http://www.ipm.ucdavis.edu>
- Small Farm Center: <http://www.sfc.ucdavis.edu>
- Vegetable crops information: <http://vric.ucdavis.edu>
- Fruit and vegetable postharvest information: <http://postharvest.ucdavis.edu>
- Sustainable agriculture: <http://www.sarep.ucdavis.edu>
- Purdue's new crop information: <http://www.hort.purdue.edu/newcrop>
- Missouri Alternatives Center: <http://agebb.missouri.edu/mac/index.htm>
- American Society for Plasticulture: <http://www.plasticulture.org>
- Tomato fruit disorders: <http://aggie-horticulture.tamu.edu/imagemap/mgmaps/tomfruit/tomfruit.html>
- The Rhubarb Compendium: <http://www.rhubarbinfo.com/index.html>

### ***Organic Standards, Sustainable Agriculture***

- The USDA National Organic Program: <http://www.ams.usda.gov/nop>
- Crop budgets for organic production: <http://aesop.rutgers.edu/~farmmgmt/ne-budgets/organic.html>
- <http://www.attra.org/>; <http://www.attra.org/>

### ***Additional Web Sites and News Groups for Fruit Growers***

**The applecrop news group** ... you subscribe, then questions and answers from the group come directly to your email address. You can be an active participant or just a reader. To subscribe, send an email message to

[apple-crop@virtualorchard.net](mailto:apple-crop@virtualorchard.net)

In the subject line of your email message header, type the word "subscribe" (without the quotation marks), then send the blank message. You should receive confirmation that you have subscribed, and email messages will come to you as they are posted to the group.

**The Virtual Orchard** ... information on tree fruit production and insect, disease, and weed management, along with links to several newsletters ...at <http://virtualorchard.net/default.html>

### ***The “Popular Press” for Fruits and Vegetables***

- Vegetable Grower News: <http://www.vegetablegrowersnews.com/>
- Fruit Grower News: <http://www.fruitgrowersnews.com/>
- Spudman (Magazine for Potato Growers): <http://www.spudman.com/>
- Good Fruit Grower: <http://www.goodfruit.com/briefs.php>
- List of books in Good Fruit Grower web site:  
[https://www.goodfruit.com:8888/cgi-bin/secure/goodfruit/web\\_store.cgi](https://www.goodfruit.com:8888/cgi-bin/secure/goodfruit/web_store.cgi)
- The Packer (News on produce industry): <http://www.thepacker.com>
- Meister news:
  - Vegetable Grower: <http://www.meistermedia.com/vegetables/index.htm>
  - Fruit Grower: [http://www.meistermedia.com/fruit\\_citrus/index.htm](http://www.meistermedia.com/fruit_citrus/index.htm)
  - Other publications: <http://www.meistermedia.com/>

### ***Books on the Web ...***

- A Growers Guide To Apple Insects and Diseases In The Southeast: <http://ipm.ncsu.edu/apple/contents.html>
- Midwest Small Fruit Pest Management Handbook ... <http://www.ag.ohio-state.edu/~ohioline/b861/index.html>
- 2005 Midwest Commercial Small Fruit and Grape Spray Guide ...  
<http://www.hort.purdue.edu/hort/ext/sfg/>
- 2005 Midwest Commercial Tree Fruit Spray Guide ... <http://www.extension.iastate.edu/Publications/PM1282.pdf>

### ***Printed Materials Available for Purchase***

#### **From the University of Illinois ...**

Order the following Illinois and Midwest publications from Information Technology and Communication Services, University of Illinois, 1917 S. Wright Street, Champaign, IL 61820. For orders of \$5.00 - \$19.99, add a shipping charge of \$3.00; for orders of \$20.00 - \$99.99, add a shipping charge of \$6.00. Make checks payable to the University of Illinois. For more information or to order by phone, call 1-800-345-6087. (The commercial horticulture portion of the publications catalog is on-line at: <https://webstore.aces.uiuc.edu/shopsite/browsecommhort.html>).

**2005 Illinois Commercial Tree Fruit Spray Guide** -- updated insecticide, fungicide, and herbicide listings for commercial orchardists. Sold Out ... contact Iowa State University at Continuing Education and Communication Services, 102 Scheman, Iowa State University, Ames, IA 50011-1112. Telephone (515) 294-6222.

**Midwest Tree Fruit Pest Management Handbook** -- practical background information on insects, diseases, weeds, scouting practices, pesticides, and more. Covers apples, peaches, cherries, and pears. Available for \$8.50 plus shipping.

**2004 Illinois Commercial Small Fruit and Grape Spray Guide** -- updated insecticide, fungicide, and herbicide listings for commercial plantings. Available for \$8.50 plus shipping.

**Midwest Small Fruit Pest Management Handbook** -- practical background information on insects, diseases, weeds, scouting practices, pesticides, and more. Covers strawberries, brambles, blueberries, and grapes. New edition available at the University of Illinois soon. Until then, contact Ohio State University at (614) 292-1607 ... ask for publication 861 ... & \$9.75 plus handling.

**2004 Midwest Vegetable Production Guide for Commercial Growers** -- varieties, fertilization, and insect, weed, and plant disease control recommendations. Available for \$14.50 plus shipping.

**2004 Agricultural Pest Management Handbook** -- with up-to-date chapters on vegetable insect, disease, and weed control (as well as information on pesticides and pest management in agronomic crops). Available for \$27.00 plus shipping.

**Common Weed Seedlings of the North Central Region** -- for identification of weeds at the seedling stage, when it's still

possible to do something about them. Available for \$3.50 plus shipping.

The **2004 Midwest Vegetable Variety Trial Report** is available for \$10.00. To order a copy, contact Chuck Voigt at 217-333-1969, or email Chuck at [c-voigt@uiuc.edu](mailto:c-voigt@uiuc.edu).

John Masiunas recently compiled the **2004 Illinois Fruit and Vegetable Crops Research Report** covering research completed through the fall of 2004, and limited numbers of copies are available. This is a somewhat informal compilation of research on Illinois fruit and vegetable crops. Topics include pest management, herbicide and insecticide evaluations, and cultivar trials. While supplies last, copies are available free of charge at winter meetings and from Rick Weinzierl, Department of Crop Sciences, 1102 South Goodwin Avenue, Urbana, IL 61801; [weinzier@uiuc.edu](mailto:weinzier@uiuc.edu) or 217-333-6651.

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**Meister Publishing Company** publishes the monthly magazines **American Fruit Grower** and **American Vegetable Grower**. Meister also publishes and distributes **Vegetable Insect Management (with Special Emphasis on the Midwest)**, a 200+-page book with lots of scouting recommendations and identification aids. The paperback edition now sells for \$40.00 (a bargain). Contact Meister by mail or phone at : 37733 Euclid Avenue, Willoughby, Ohio 44094; phone 1-800-572-7740

The **Fruit Growers News** (now simply **Fruit Growers News**) is a monthly newspaper for the fruit industry; the **Vegetable Growers News** (similar in format) is a monthly newspaper for the vegetable industry. For subscription information, contact the editor of these publications at (616) 887-9008 or 75 Applewood Drive, Suite A, Sparta, Michigan 49345.

### **Plant Disease Compendia**

The American Phytopathological Society (APS) publishes a series of compendia of plant diseases. These are useful, practical guidebooks that can aid in identification, control and prevention of diseases in crops. Most range in length for 70 to 110 pages, and all have many excellent color photographs of disease symptoms, as well as descriptions of the symptoms, life cycles of the pathogen, causes of disease and useful control methods. Of particular interest to vegetable and fruit growers are the compendia on (in no particular order):

Bean diseases	Apple and pear diseases	Lettuce
Beet diseases and insects	Blueberry and cranberry diseases	Potato
Cucurbit diseases	Grape diseases	Sweet potato
Onion and garlic diseases	Raspberry and blackberry diseases and insects	
Pea diseases and pests	Stone fruit diseases	
Sweet potato diseases	Strawberry diseases	
Tomato diseases	Pepper diseases	

Several other compendia cover field crops and ornamental plants; growers in Illinois may also be interested in the compendia on chrysanthemum diseases and foliar diseases of ornamental plants. For more information or to order, check the APS web site at: <http://www.apsnet.org> or contact the APS by phone or email at: APS PRESS Headquarters, 3340 Pilot Knob Road, St. Paul, MN 55121-2097 U.S.A., Tel: 1-800-328-7560, email: [aps@scisoc.org](mailto:aps@scisoc.org)

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## ***This issue's words of wisdom ...***

Random thoughts ...

- My husband and I divorced over religious differences. He thought he was God and I didn't.
- I don't suffer from insanity; I enjoy every minute of it.
- Don't take life too seriously; No one gets out alive.
- I'm not a complete idiot - some parts are missing.
- Out of my mind. Back in five minutes.
- The gene pool could use a little chlorine.
- Ever stop to think, and forget to start again?
- Wrinkled was not one of the things I wanted to be when I grew up.
- A hangover is the wrath of grapes.
- They call it PMS because Mad Cow Disease was already taken.
- He who dies with the most toys is nonetheless dead.
- Ham and eggs is a day's work for a chicken and a lifetime commitment for a pig.

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