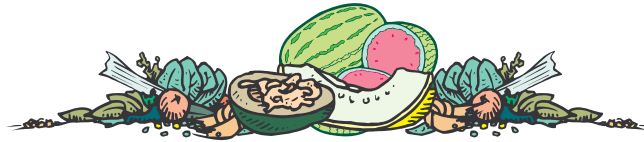


VEGETABLE CROPS HOTLINE

A newsletter for commercial vegetable growers prepared by the
Purdue University Cooperative Extension Service

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TIME IS RUNNING OUT - (Chris Gunter) - Time is running out on your *Vegetable Crops Hotline* subscription. The *Vegetable Crops Hotline* newsletter provides timely information about disease, insect and weed pest management and comes to you 13 times during the growing season.

If you are an Indiana Vegetable Growers Association (IVGA) member or would like to become a member, please use the renewal form located in this issue of the *Hotline* to renew your membership. In addition to a free *Hotline* subscription, IVGA members receive a free copy of the latest *Midwest Vegetable Production Guide for Commercial Growers* <www.entm.purdue.edu/entomology/ext/targets/ID/index.htm> and can be included in the *IVGA Directory of Wholesale Vegetable Producers*.



INDIANA VEGETABLE PRICE WEB SITE PROPOSAL - (Liz Maynard) - At the IVGA board meeting last week we had a lively discussion about how growers can get timely information on Indiana wholesale vegetable prices. Vernon Stuckwish proposed having an interactive Web site to which IVGA members could anonymously submit prices they are receiving (or paying). The site would compile the information on a regular basis (weekly?) and it would be available to all IVGA members. Sound interesting? Do you have ideas about how the system should work, or what you'd like it to be able to do? Vernon is developing a proposal and would love to hear from you! E-mail him your thoughts at: vstuck@compuage.com, include in the subject line IVGA. There will also be a roundtable discussion about this idea on Tuesday evening, January 27, at the Indiana Horticultural Congress. Plan to attend!



JANUARY VEGETABLE MEETINGS - (Liz Maynard) - Vegetable programs are scheduled for January 8 in Schererville and January 26 - 28 in Indianapolis.

The **Illiana Vegetable School**, January 8 at Teibel's Restaurant in Schererville, starts with a morning of pest management topics. Pesticide applicator recertification credits are being applied for, and will most likely be granted.

First on the program is Rick Weinzierl, Univ. of Illinois, to talk about soybean aphids and what they mean for vegetables. Next, Rick Foster from Purdue will provide an update on insect management: new materials and new approaches. Emerging vegetable diseases will be reviewed by M. Babadoost from Univ. of Illinois. Steve Weller, Purdue, will present results from research on Sandea use in vegetables and carryover of Callisto on vegetables. After the pest management session, we'll travel in our minds to the other side of the world as Jim Neibauer, Vegetable Consultant and retired MSU Extension District Agent, tells about his experiences with vegetable producers in Azerbaijan and other Central Asian countries.

Following a luncheon prepared by Teibel's Restaurant, Eric Biddinger from Purdue Extension, Porter Co., promises an inspirational discussion about marketing vegetables. Other afternoon presentations will provide tips on risk management on the farm: providing a safe workplace and planning for the unexpected. The last sessions in the program take us back to the vegetable fields: Chris Gunter, from Purdue, will share the latest research on tomato fruit color disorders and review variety trial results for watermelons and muskmelons. Reports on pumpkin varieties and strip-till pumpkin research will be reported by Liz Maynard, Purdue, and Maurice Ogutu, Univ. of Illinois.

The day will end with a discussion of sweet corn variety results by Bill Shoemaker, Univ. of Illinois and Liz Maynard. Representatives of seed companies and others serving the vegetable industry will have displays in a small trade show. A complete program will be available from the Purdue Fruit and Vegetable Connection <www.hort.purdue.edu/fruitveg>; follow the link to Events. A registration fee of \$20.00 will be

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2004 INDIANA VEGETABLE GROWERS' ASSOCIATION SUBSCRIPTION FORM

The Indiana Vegetable Growers Association (IVGA) is dedicated to the improvement of commercial vegetable production and marketing in Indiana. The organization sponsors an educational program at the Horticultural Congress held annually in Indianapolis. **Members of the Association receive a copy of the Midwest Vegetable Production Guide for Commercial Growers (ID-56), a subscription to the Vegetable Crops Hotline and a subscription to the American Vegetable Grower Magazine.** Members are eligible to subscribe to the American Vegetable Grower magazine at a substantial discount and receive a discount on registration fees for the Horticultural Congress.

Industry/Corporate memberships are available for those involved in supplying seeds, plants, supplies and equipment to the vegetable industry.

BENEFITS OF MEMBERSHIP

- Midwest Vegetable Production Guide for Commercial Growers (1 copy, available January 2004)
- Vegetable Crops Hotline subscription (1 year, January thru December)
- Inclusion in IVGA Directory of Wholesale Vegetable Producers (optional)
- American Vegetable Grower Magazine subscription (1 year)
- Discount on registration at Indiana Horticultural Congress

MIDWEST VEGETABLE PRODUCTION GUIDE FOR COMMERCIAL GROWERS (ID-56)

This publication combines the expertise of researchers and extension specialist from Purdue University, the University of Illinois, the University of Missouri, Iowa State University and the University of Minnesota. It contains information on cultural practices, fertilizer rates, and chemical and non-chemical management strategies for weeds, insects, and diseases. (\$10.00 value)

VEGETABLE CROPS HOTLINE

This newsletter from Purdue University provides the commercial vegetable grower with timely information about soil pH, fertility, varieties, insect, weed, and diseases problems (including control recommendations) throughout the entire growing season. Information about upcoming meetings, twilight tours, and the annual state convention, as well as short articles describing applied research conducted by Purdue specialists are included. (\$15.00 value)

IVGA DIRECTORY OF WHOLESALE VEGETABLE PRODUCERS

IVGA members selling to wholesale accounts may choose to be included in this directory. The directory identifies crops produced by each grower and provides contact information. The directory is available to the public online at <www.in.gov/oca/other/vegetable.html>.

2004 IVGA Membership Form

(Memberships run January 1 - December 31)

Please check one: _____ Regular member (\$35/year) **OR** _____ Industry/Corporate member (\$75/year)

Name: _____ Business name: _____

Address: _____ City, State, Zip: _____

Phone: _____ Fax: _____

Email address: _____ URL: _____

Check here if you want your FREE subscription to the American Vegetable Grower magazine.

Make check payable to: INDIANA VEGETABLE GROWERS' ASSOCIATION

MAIL CHECK TO:

Southwest Purdue Agricultural Program
Attention: Indiana Vegetable Growers' Association
4369 North Purdue Road
Vincennes, IN 47591

FUNGICIDE RESISTANCE MANAGEMENT - (Dan Egel) - Pick up any fungicide label these days and often you will see the phrase “alternate with a fungicide with a different mode of action.” What does this phrase mean and how does one know which fungicide has what mode of action?

The fungi which systemic fungicides (compounds that move within the plant) are designed to control may, with time, develop resistance to the fungicide. This may happen when a systemic fungicide is used repeatedly over time and the fungus mutates to a new form that is unaffected by the fungicide. To avoid such problems, a coalition of chemical companies was formed (Fungicide Resistance Action Committee-FRAC). FRAC has sorted fungicides into groups according to their modes of action and risk of developing resistance.

If you are using a systemic fungicide and the label says “Do not use this product more than once before alternating with a fungicide with a different mode of action” use this table to find the right compound to use next. In such a case, do not use a fungicide with the same FRAC code. For example, Amistar, Cabrio, Flint, Tanos, Headline, and Pristine all have a FRAC code of 11; therefore, do not use any of these compounds in alternation with Quadris.

This list is not exhaustive, but does contain many of the fungicides used in Indiana.

Fungicide type	Common name	Trade names	Risk of resistance	FRAC code
Protectant It is not necessary to alternate these compounds for resistance management.	chlorothalonil	Agronil, Bravo, Echo, Equus, Terranil	None-low	M
	copper	Champ, Kocide, Cuprofix	None-low	M
	mancozeb/maneb	Dithane, Manzate, Penncozeb/Maneb, Manex	None-low	M
	sulfur	Microthiol	None-low	M
Systemic Read label to determine resistance management strategy. Compounds with same FRAC code have the same mode of action and should be alternated for resistance management.	azoxystrobin	Amistar, Quadris	High	11
	pyraclostrobin	Cabrio, Headline	High	11
	trifloxystrobin	Flint	High	11
	famoxadone	Tanos	High	11
	myclobutanil	Nova	Medium	3
	triflumizole	Procure	Medium	3
	mefenoxam	Ridomil	High	4
	dimethomorph	Acrobat	Low-medium	15
	thiophanate-methyl	Topsin M	High	1
	fosetyl-Al	Aliette	Low	33
	phosphorus acid	Agri-Fos	Low	33
	ipridione	Rovral	Medium-high	2
boscalid	Endura	Medium	7	
Antibiotic	streptomycin	AgriMyacin 17, AS-50	High	25
Host plant defense induction	acibenzolar-S-methyl	Actigard	None-low	15
	harpin	Messenger	None-low	NA

NA = not available

collected at the door and includes the cost of lunch. PARP credit will be an additional \$10.00. For more information about the program or trade show, call (219) 785-5673.

The **Indiana Horticultural Congress and Trade Show** runs Monday - Wednesday, January 26th - 28th at the Adams Mark Hotel in Indianapolis. On Monday there will be a full-day session titled "Is there a Greenhouse in Your Future?" This session will cover business start-up issues, marketing, greenhouse structures, greenhouse management, and major crop groups. The goal is to address the questions and the information needs of people exploring the possibility or are early in the development of a greenhouse operation.

On Tuesday several concurrent sessions will provide a wealth of topics to choose from. The Raw Products session will focus on processing tomato production. The combined New Crops/Organic session will feature well-known author and farmer Eliot Coleman presenting information about ways to extend the growing season. Tuesday's Fresh Market vegetable program will include variety updates for sweet corn, watermelons and muskmelons, and a report on effects of colored plastic mulch. We look forward to getting a better understanding of what causes the type of weather we had this year, and whether we should expect more of it, when climatologist Dr. Grant speaks early Tuesday afternoon. Updates on insect, disease and weed management are scheduled for later that day. Pesticide applicator recertification credits will likely be

approved for attending these updates and a short evening session. Direct Farm Marketing sessions will also be offered on Tuesday and Wednesday. Pumpkin production topics are scheduled for Wednesday morning and afternoon. Varieties, pest (including ground squirrels, deer, etc.) and disease management, no-till production and marketing are all on the program.

The Congress also includes sessions on apple, grape, and organic production. Look for the complete Congress program on the web at <www.hort.purdue.edu/hort/ext/hortcongress/default.html> in early December, and in your mailbox shortly thereafter. For more information dial 888-EXT-INFO and ask for Danielle Linback for information about registration, or Chris Gunter or Liz Maynard for questions about the program.

Additional meetings are scheduled for later in the winter. In mid February the Starlight Vegetable Program will be held at the Joe Huber Farm in Starlight. More information on this meeting will be published in upcoming issues of the Hotline. The Ohio River Valley Farm Market Conference will be held on February 17-18 in Erlanger, KY. For more information on these programs, contact Roy Ballard at (812) 948-5470.

The 2003 Midwest Women in Agriculture Conference will be held March 9-10 in Plymouth. For more information contact Kelly Easterday at (574) 372-2340. Watch for more information about these and other programs in the next newsletter.

It is the policy of the Purdue University Cooperative Extension Service, David C. Petritz, Director, that all persons shall have equal opportunity and access to the programs and facilities without regard to race, color, sex, religion, national origin, age, marital status, parental status, sexual orientation, or disability. Purdue University is an Affirmative Action employer. 1-888-EXT-INFO <<http://www.ces.purdue.edu/extmedia>> Disclaimer: Reference to products in this publication is not intended to be an endorsement to the exclusion of others which may have similar uses. Any person using products listed in this publication assumes full responsibility for their use in accordance with current directions of the manufacturer.

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