Vegetable Crop Update

A newsletter for commercial potato and vegetable growers prepared by the University of Wisconsin-Madison vegetable research and extension specialists

No. 2 – April 2, 2012

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Calendar of Events

April 11 – UW-Hancock Ag Research Station, Variety Trial Demonstration, 8AM-4:30PM

May 17 – UW-Hancock Storage Research Updates, 10AM-3:30PM

July 24 – UW-Hancock Ag Research Station, Field Day

Potato Crop Update from the Wisconsin Seed Potato Certification Program – Amy Charkowski, Administrative Director of Certification Program, Department of Plant Pathology, UW-Madison, Tel. No. 608-262-9711, email: amyc@plantpath.wisc.edu

Submitted by Amy Charkowski. Most new potato varieties acquire viruses and other pathogens during breeding, so the first step in large scale production of a new variety is curing the variety of all diseases it has acquired over the many years it has been grown on breeding farms. Curing viruses from potatoes and then confirming that they are virus-free often takes up to one year. It may then take another year or two before enough minitubers can be grown to start field production. If seed farmers would like to see new varieties in production in 2013 or 2014 on the State Farm, they should make their requests now so that plants can be located and put into production.

Jed Colquhoun, Associate Professor of Weed Science, UW-Madison, Department of Horticulture, 333 Horticulture, Phone: 608-890-0980, E-mail: colquhoun@wisc.edu.

Wisconsin Dual Magnum Special Local Needs registration request in public comment period: The Wisconsin Department of Agriculture, Trade and Consumer Protection (DATCP) is currently seeking public comments for a proposed Special Local Needs (24c) registration for Dual Magnum herbicide on several vegetable crops. The department had previously approved a similar request that expired on December 31, 2011.

The requested registration would be for Wisconsin only and would expire on December 31, 2012. Several vegetable crops are included in the request, such as carrot, garden beet, dry bulb onion and transplanted cabbage. Please keep in mind that this request is in review by DATCP and these uses are not currently legal.

The DATCP will accept public comments until 4:30PM on April 4, 2012. For more information about the public comment period, please see the DATCP News Release web site: http://datcp.wi.gov/news/.

Vegetable Disease Update – Amanda J. Gevens, Vegetable Plant Pathologist, UW-Madison, Dept. of Plant Pathology, 608-890-3072 (office), Email: gevens@wisc.edu.

Vegetable Pathology Webpage: http://www.plantpath.wisc.edu/wivegdis/

Potato seed treatments: The benefits of seed-applied fungicides on potato include limiting surface-borne, seed-borne, and soil-borne diseases. Seed-applied fungicides can control the spread of disease from seed piece to seed piece during cutting, curing, and pre-plant handling, limit disease development from seed piece to seedling, and limit disease development from soil to seed or seedling.

Seed-applied fungicides, however, are ONE component of a complete disease management program. Other components include planting certified potato seed, proper handling and sanitation of storage/cutting/curing facilities prior to planting, and good disease management in the production field.

Registered fungicides for potato seed in Wisconsin (based on labels on April 1, 2012)

Fungicide	Active ingredient	Seed treatment	In-furrow treatment	Diseases listed on label
Blocker	PCNB	No	Yes	black scurf, stem canker
Curzate 60DF	cymoxanil	Yes	No	late blight
Dithane F45, M45, DF	mancozeb	Yes	No	late blight, rhizoctonia, silver scurf, fusarium, common scab
Dynasty	axoystrobin	Yes	No	rhizoctonia, silver scurf, black dot
Evolve Potato Seed Piece Trt	thiophanate methyl, mancozeb, cymoxanil	Yes	No	late blight, fusarium, rhizoctonia
Fungi-Phite	potassium phosphite	Yes	No	late blight, silver scurf
Headline SC	pyraclostrobin	No	Yes	rhizoctonia
Koverall	mancozeb	Yes	No	fusarium, silver scurf, rhizoctonia, common scab, late blight
Mancozeb 6% Firbark	mancozeb	Yes	No	late blight, rhizoctonia, fusarium
Manzate Pro-Stick	mancozeb	Yes	No	fusarium, common scab
Maxim 4FS/Maxim Potato Seed Trt	fludioxonil	Yes	No	rhizoctonia, fusarium, silver scurf, common scab
Maxim PSP	fludioxonil	Yes	No	rhizoctonia, fusarium, silver scurf

Maxim MZ	fludioxonil+mancozeb	Yes	No	rhizoctonia, fusarium, silver scurf
Metastar 2E AG	metalaxyl	No	Yes	pythium, pink rot
Moncoat MZ	flutolanil+mancozeb	Yes	No	late blight, rhizoctonia, fusarium, silver scurf
Moncut 70DF	flutolanil	No	Yes	black scurf, rhizoctonia
Omega 500F	fluazinam	No	Yes	powdery scab
Oxidate	hydrogen dioxide	Yes	No	fusarium
Penncozeb 80WP/75DF/4FL	mancozeb	Yes	No	late blight, rhizoctonia, fusarium, common scab
Phostrol	phosphorous acid	No	Yes	pythium, pink rot
Polyram 80DF	metiram	Yes	No	late blight
Presidio	fluopicolide	No	Yes	late blight, pink rot
Quadris	azoxystrobin	No	Yes	black dot, black scurf, silver scurf
Quadris Ridomil Gold	azoxystrobin, mefenoxam	No	Yes	co-pack for rhizoctonia, pythium, black dot, pink rot, leak
Ridomil Gold SL	mefenoxam	No	Yes	pink rot, pythium
Ranman	cyazofamid	No	Yes	pink rot
Serenade Soil	*Bacillus subtilis* strain QST713	No	Yes	pythium, rhizoctonia, fusarium, phytophthora
Tops MZ	mancozeb, thiophanate methyl	Yes	No	fusarium, rhizoctonia, silver scurf, late blight
Tops MZ Gaucho	mancozeb, thiophanate methyl, imidacloprid (insecticide)	Yes	No	fusarium, rhizoctonia, silver scurf, late blight
Ultra Flourish	mefenoxam	No	Yes	pythium, pink rot

Typically, seed treatments are applied right after cutting with a powder/dust or liquid formulation. Be careful to avoid clumping or thick coating of treatment as you can limit oxygen to seed piece and promote poor suberization or soft rot. Good suberization is a critical component in managing disease.

For further information on any fungicides that may be mentioned in this newsletter or that you are interested in for 2012, please see the updated 2012 Commercial Vegetable Production in Wisconsin Guide A3422. An online pdf can be found at the link below or a hard copy can be ordered through the UWEX Learning Store.
http://learningstore.uwex.edu/assets/pdfs/A3422.PDF