

In This Issue

1. Downy Mildew found in OH cucumbers
2. @ the VegNet web site

Downy Mildew Found in Ohio Cucumbers, July 6, 2011

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Downy mildew was confirmed on cucumber samples from Wayne and Ashland counties in Ohio on July 6. This follows closely on the July 5 report of downy mildew in cucumbers Chatham-Kent, Ontario, where initial symptoms were observed as early as June 30 (see <http://cdm.ipmpipe.org>). The spread of downy mildew in Ohio is dependent on the weather – bright sunny days are detrimental to spore survival and transport, while overcast days promote spore survival and rainfall results in spore deposition.

Suggested downy mildew management programs for cucumbers:

Fungicide application:

Protection before disease appears: Apply one of the following fungicides on a 7–10 day schedule, tank mixed with Bravo, Manzate or Dithane: Presidio, Ranman, Previcur Flex, Tanos, Curzate or Gavel (Gavel already contains mancozeb). Alternate products. The application interval can be lengthened under dry conditions. Use the shorter interval under cool, moist conditions.

Management after disease appears: Apply one of the following fungicides on a 5–7 day schedule, tank mixed with Bravo or Dithane: Presidio, Ranman, Previcur Flex, or Tanos. Alternate products. The application interval can be lengthened under dry conditions. Use the shorter interval under cool, moist conditions. See product labels for fungicide rates.

Most recent research has shown that fungicides can be ranked as follows for efficacy against downy mildew: Presidio = Ranman > Previcur Flex > Curzate > Gavel > Mancozeb = Bravo.

Note that the fungicides recommended above have different preharvest intervals (PHI). Keep this in mind when fungicides are applied after harvesting begins.

Product	PHI (days)
Bravo Weather Stik	0
Ranman	0
Previcur Flex	2
Tanos	3
Dithane or Manzate*	5
Gavel*	5
Presidio	2
Curzate	3

*labeled for cucumbers, melons, summer squash, watermelon (NOT pumpkin)

Samples may be sent for confirmation of downy mildew to the OSU Vegetable Pathology Lab c/o Sally Miller or Fulya Baysal-Gurel, Department of Plant Pathology, The Ohio State University, OARDC, 1680 Madison Ave., Wooster, OH 44691, ph. 330-263-3838, or to the C. Wayne Ellett Plant and Pest Diagnostic Clinic, OSU, The Ohio State University, 8995 E. Main Street, Bldg. 23, Reynoldsburg, OH 43068-3399, ph. 614-292-5006 (c/o Nancy Taylor).

@ the VegNet web site

The VegNet web site has not been updated for the past several weeks and this includes posting of recent newsletters because it is in the process of being migrated to a new more secure server in the college. Also, new, more secure file transfer protocols need to be put in place. You can still access the web page but some items may not function. We will keep you informed of progress.



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