

Worried about finding impatiens downy mildew (IDM) in your greenhouse?

IDM Prevention – when IDM has not been seen on your premises or in the nearby landscape and your supplier has not experienced a disease outbreak

1. Consider growing alternative crops to *Impatiens walleriana* (garden impatiens)
2. Provide good ventilation in the greenhouse
3. Use proper plant spacing
4. Water early in the day, so plants will dry before nighttime
5. Avoid wetting foliage while watering
6. Provide adequate drainage
7. Grow *Impatiens walleriana* from seed
8. Inspect incoming shipments for symptoms, do not allow suspicious plants into the greenhouse
9. Segregate shipments from different sources
10. Train staff to recognize impatiens downy mildew symptoms and scout for symptoms regularly. Look for yellowing plants, downward curling leaves and white fuzzy growth on the undersurface of leaves. Early symptoms may be confused with nutritional problems in plants.
11. Regularly remove plant debris such as dead foliage and flowers
12. Clean and sanitize greenhouse surfaces between crops
13. Remove any volunteer impatiens plants that grow under benches or in other areas of the greenhouse
14. Consider using a preventative fungicide spray program (an example is below, other spray rotations may also be effective)
15. If symptoms are observed bag and destroy all suspicious plant material immediately.

Example Preventative Spray Program for Impatiens Downy Mildew

1. First and last application:

SubdueMAXX (1.0 oz/100gal) + Adorn (2.0 oz/100 gal) drench

Treat soon after plants are received unless supplier has treated them just before shipment

2. Two weeks later:

Apply a strobilurin (Compass O or Disarm or Fenstop or Heritage or Insignia or Pageant) spray, using a high label rate + mancozeb (e.g. Protect DF at 1-2 lb/100 gal) as a tank mix

3. Two weeks later:

Segway (2.1 fl oz/100 gal) spray

4. Two weeks later:

Stature SC (6.12 fl oz/100 gal) spray

5. Repeat 2, 3, 4 at 14 day intervals as needed

6. Last application, shortly before shipment:

SubdueMaxx + Adorn drench as in 1

Need More Information on Impatiens Downy Mildew?

Visit www.maine.gov/dacf/php/horticulture/idm.shtml

You found impatiens downy mildew (IDM) in your greenhouse? What now?

IDM Management – when IDM has been found on impatiens on your premises, nearby or your supplier has had a disease outbreak

1. Bag and destroy all symptomatic plants immediately – seal bags before moving from greenhouse, do not compost
2. Bag and destroy all impatiens plants within 3 foot buffer zone of symptomatic plants – seal bags before moving from greenhouse, do not compost
3. Use a greenhouse disinfectant (such as Green Shield, bleach or Zerotel) to clean the area
4. Consider beginning an enhanced fungicide spray program (an example is below, other spray rotations may also be effective)
5. Scout regularly looking for yellowing leaves, downward curling leaves and white fuzzy growth on the undersurface of leaves rogue any additional plants with symptoms. Also rogue a 3 foot buffer and disinfect the area, as in 1, 2 and 3 above.

Example Management Spray Program for Impatiens Downy Mildew

1. First and last application:

SubdueMaxx (1.0oz/100 gal) drench

Treat soon after plants received unless propagator has treated just before shipment

2. One week later:

A strobilurin (Compass O or Disarm or Fenstop or Heritage or Insignia or Pageant) spray, using high label rate + mancozeb (e.g. Protect DF at 1-2 lb/100 gal) as a tank mix

3. One week later:

Segway (3.5 fl oz/100 gal) spray

4. One week later:

Stature SC (12.25 fl oz/100 gal) spray

5. Repeat 2, 3, 4 at 7 day intervals as needed

6. Last application, shortly before shipment:

SubdueMaxx + Adorn drench as in 1

Need More Information on Impatiens Downy Mildew?

Visit www.maine.gov/dacf/php/horticulture/idm.shtml

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The example spray programs were developed by M. Hausbeck (Michigan State University, hausbec1@msu.edu), and M. Daughtrey (Cornell University, mld9@cornell.edu) based on experimental data of M. Hausbeck (cucurbit and coleus downy mildew); M. Daughtrey (coleus and impatiens downy mildew); and C. Warfeld, Ball Horticultural Company (impatiens downy mildew). Follow all label instructions and note warnings; local restrictions may apply. Product names are given for information purposes only and are not an endorsement, nor is any criticism implied of products not mentioned. 3/29/12