**Quick Guide to Anthracnose Control in the Pacific Northwest**

Oregon State University

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**Cultural Practices:**

* Apply soluble nitrogen at 0.10 - 0.25 lbs. per 1,000 sq. ft. every 2 weeks along with potassium at a 2:1 ratio of nitrogen to potassium.
* Keep mowing heights as high as possible to achieve your desired putting green speeds. Use rolling, Primo Maxx, and verticutting to attain your desired speeds.
* Apply consistent amounts (neither too wet nor too dry) of irrigation. Make monthly applications of wetting agents beginning in April or May before your greens dry out. More frequent applications during the summer may reduce disease significantly. Avoid wet and dry cycles, if possible.
* Apply a light sand Topdressing every two weeks.
* Mow less: research at Oregon State University has shown that Mowing Monday, Wednesday, Friday, and Saturday along with daily rolling achieves the same putting speeds as mowing and rolling every day.
* Core in the spring and fall. If desired, use smaller tines (1/2”) in the spring with closer spacing to create more holes for roots to grow.
* Use growth regulators. Begin Proxy (5.0 fl. oz. per 1,000 sq. ft.) and Primo Maxx (0.125 fl. oz. per 1,000 sq. ft.) applications in early to mid-March in Oregon. Make 3 applications on a 4 week interval. Continue applying Primo only every 2 weeks until the end of summer except when applying a DMI fungicide.
* Keep your sulfur/sulfate levels below 1.5 lbs. per year.

For more detailed information, see http://turf.rutgers.edu/research/GCM-BMP-Anthracnose.pdf

**Quick Guide to Anthracnose Control in the Pacific Northwest (Cont.)**

**Fungicide Rotation Programs: (Don’t be late with first application!)**

1. Goal is to Limit the Number of Fungicide Application
   1. No resistance issues

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| Date | Chemicals | Notes |
| 3rd week of June | Banner, Mirage, Torque, Briskway, or Trinity1. (Avoid Bayleton & Tourney) mixed with Daconil | Bayleton is weak. Tourney injures *Poa annua.* |
| 2nd week of July | Heritage or Insignia mixed with Daconil | Compass is not effective |
| 1st week of August | Cleary’s 3336, Fungo, Systec, Topsin etc. mixed with Daconil | This application will take you into September |

* 1. With Strobilurin and thiophanate methyl resistance (**3 week spray interval**)

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| Date | Chemicals | Notes |
| 3rd week of June | Banner, Mirage, Torque, Briskway, or Trinity1. (Avoid Bayleton & Tourney) mixed with Daconil | Bayleton is weak. Tourney injures *Poa annua.* |
| 2nd week of July | Velista (0.5 oz.) mixed with Daconil |  |
| 1st week of August | Signature (4.0 oz.) mixed with Daconil Ultrex (3.2 oz.) | If hot temperatures occur earlier, switch the 2nd and 3rd applications |

Note: As you move into September and *Microdochium* patch season starts, you can apply Banner Maxx which is strong on *Microdochium* patch and will also control anthracnose. Note: Mirage, Briskway, Trinity, and Torque are all weak on *Microdochium* patch.

1 Trinity has the most PGR effect of these fungicides listed, except Tourney which I would not apply to Poa greens. As *Poa annua* sensitivity to DMI fungicides varies, be extremely careful with rates of Trinity greater than 1.0 fl. oz./1,000 ft2 or repeat applications. In general, limit retreatment intervals to 4 weeks or longer. If you have sensitive Poa, use Briskway as it does not have a PGR effect.

**Quick Guide to Anthracnose Control in the Pacific Northwest (Cont.)**

1. Cadillac Program (**2 week Spray Interval**) - No resistance issues

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| Date | Chemicals | Notes |
| 1st week of June | Banner, Mirage, Torque, Briskway, or Trinity1. (Avoid Bayleton & Tourney) mixed with Daconil | Bayleton is weak. Tourney injures *Poa annua.* |
| 3rd week of June | Heritage or Insignia mixed with Daconil |  |
| 1st week of July | Velista (0.5 oz) mixed with Daconil |  |
| 3rd week of July | Signature Xtra (4.0 oz.) mixed with Daconil | If hot temperatures occur earlier, switch the 3rd and 4th applications |
| 1st week of August | Cleary’s 3336, TM 4.5 Flowable, Systec, Topsin, etc. mixed with Daconil |  |
| 3rd week of August | Affirm (0.9 oz.) or Endorse (4.0 oz.) mixed with Daconil | Affirm is good on M. Patch so could switch with last app |
| 1st week of September | Premion (6.0 fl. oz.) – will work as your first *Microdochium* patch application as well. | Includes PCNB + Tebuconazole |

Note: If desired, can add a phosphite to all applications except with Signature Xtra.

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Note: Avoid repeated applications (less than 4 weeks apart) of DMI fungicides in the summer, especially in hot weather. Drought stress or low fertility may increase damage. These include Banner Maxx, Mirage, Trinity and Torque. Do not use Tourney on *Poa annua* putting greens. Of the fungicides listed for control of anthracnose, Trinity has the most PGR effect. Do not exceed the 1.0 fl. oz. rate. If you have sensitive Poa annua, use Briskway. But, be aware that Briskway also includes Heritage so be mindful of the number of applications of Heritage applied in a year to avoid resistance. Lastly, be careful applying Primo with DMI fungicides unless prior experience has shown these to be safe.