# Study 1: Group and individual treatment comparisons of phosphite fungicides and fertilizers and contact fungicides

| | | | AUADC | |
|---|---|---|---|---|
| | | | 2010 | 2011 |
| **Comparison Group 1** | | **Comparison Group 2** | **Statistically different?** | |
| Treated† | vs. | Non-treated | yes* | yes |
| Potassium phosphite analytical standard | vs. | Potassium phosphate analytical standard | yes | yes |
| All commercial phosphites‡ | vs. | Conventional fungicides | no | no |
| Phosphite fungicides§ | vs. | Phosphite fertilizers | no | yes |
| Phosphite fungicides and phosphite fertilizers | vs. | Potassium phosphite standard | ND// | no |
| **Within phosphite fungicides:** | | | | |
| Alude and Vital | vs. | Magellan | no | no |
| Alude | vs. | Vital | no | no |
| **Within phosphite fertilizers:** | | | | |
| Phosphite 30 | vs. | Fairphyte | no | ND |
| Phosphite 30 and Magnum | vs. | Fairphyte | ND | no |
| Phosphite 30 | vs. | Magnum | ND | no |
| **Within conventional fungicides:** | | | | |
| Daconil Ultrex and Protect DF | vs. | TerraCyte | no | no |
| Daconil Ultrex | vs. | Protect DF | no | yes |

†Treatments were applied every 14 days from May 20 to Aug. 26, 2010, and from May 25 to Sept. 30, 2011.
‡Mean of all phosphites (except the potassium phosphite and phosphate standards) compared with the mean of chlorothalonil, mancozeb, and sodium carbonate peroxyhydrate.
§Mean of all phosphite fungicides compared with the mean of all phosphite fertilizers.
//ND, not determined. Planned treatment comparison not performed.

**Table 2.** Group and individual treatment comparisons of phosphite fungicides, phosphite fertilizers and contact fungicides in Study 1, to determine effects on area under the algae development curve (AUADC) in creeping bentgrass putting green turf in Storrs, Conn., during 2010 and 2011.