

Golf Stop 5

Advancements In Biological Control of *Poa trivialis*

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Poa trivialis is a common contaminant in seed lots. Once *P. trivialis* is established in a desirable turfgrass stand, it is very difficult to selectively eradicate. This is a preliminary field study in which *P. trivialis* has been stressed by treatment with a *Xanthomonas* bacterium. This organism has been used to cause typical wilt symptoms in *P. trivialis* that are similar to those seen in creeping bentgrass infected with *Xanthomonas campestris* (bacterial wilt.) Below is a treatment list and plot plan.

| <u>Treatments</u> | <u>Rate</u> | <u>Application Interval</u> |
|---------------------------|-------------------------------------|-----------------------------|
| 1. <i>Xanthomonas sp.</i> | 10 ⁷ CFU/cm ² | 3-5 times per week |
| 2. Autoclaved broth | Volume as above | 3-5 times per week |
| 3. Mycoshield | 2.5#/1000ft ² | 14 days |
| 4. Untreated control | ----- | ----- |