

Seasonal Germination of Annual Bluegrass in Maryland. (C05-kaminski123013-Poster)

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Abstract:

Annual bluegrass (*Poa annua* L. ssp. *annua*) is a major weed problem of golf course turf. There have been no studies conducted in Maryland to monitor the seasonal emergence patterns of annual bluegrass. Annual bluegrass seedling emergence was monitored in a bermudagrass (*Cynodon dactylon* (L.) Pers.) rough at the University of Maryland Golf Club in College Park between 1999 and 2002. In August or September of 1999 to 2001, four circular spots approximately 0.09 square meter in area were killed with glyphosate. Annual bluegrass seedlings were counted and removed weekly from inside each spot between September and May of each year. During this period, an average of 496 seedlings per 0.09 square meter per year germinated. The majority of annual bluegrass seedlings (63-78%) emerged between September and mid-October. Seasonal germination varied yearly, but 90% of the total seedlings emerged by early-December in all three years. Annual bluegrass continued to germinate at low levels throughout the winter when the soil was not frozen. Very low levels of seedlings emerged in April and May.

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