

A survey of the fungicide resistance spectrum of anthracnose (*Colletotrichum graminicola*) in New England and development of a predictive fungicide resistance model

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In September, Angela Madeiras (who recently received her M.S. from UMASS-Amherst) was hired as a laboratory technician with support from the URI Disease Diagnostic Laboratory. Ms. Madeiras spent September, October and December of 2006 developing a research plan and initiated fungicide sensitivity trials of the URI *Colletotrichum graminicola* (also referred to as *C. cerealis*) collection. In January, Ms. Madeiras became an official URI Ph.D. candidate and has begun taking classes. The RIAES has graciously offered a tuition waiver for Ms. Madeiras for the Spring of 2007.

The majority of the URI *C. graminicola* collection has now been screened for fungicide sensitivity and data analysis will begin in March. Surprisingly, preliminary results suggest that a number of the isolates collected from 1993-1995 had developed a diversity of fungicide resistance profiles upon isolation. Over the next 6-9 months, a new collection of pathogenic *C. graminicola* will be made from different regions of New England. When additional isolates from have been collected, their resistance spectrum will be determined and compared to the 1993-1995 collection.