**PI: Bergstrom, Gary** **PI's E-mail: gcb3@cornell.edu**
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PROJECT 1 ABSTRACT
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Foliar fungicides are needed for partial control of Fusarium head blight (FHB) at least until higher levels of resistance are available in wheat and barley varieties. Biological control agents also offer promise as tools in the integrated management of FHB. This project is a component of the overall uniform fungicide and biocontrol trial project, a cooperative effort among multiple states in spring grain and winter wheat regions of the United States. A core set of fungicide and bioprotectant treatments will be assessed for control of Fusarium head blight and reduction of vomitoxin across a number of states. Because FHB does not occur every year in every location, having the trials across multiple environments increases the chance of favorable disease levels for evaluation across sites. There will be one evaluation experiment in New York in 2003, in an inoculated, rainfed field of soft white winter wheat in Aurora, NY. This plot will feature all of the national core treatments plus combinations of fungicides with the elite biocontrol agent TrigoCor 1448 (patent pending, Cornell Research Foundation/EMBRAPA). This proposal is relevant to the US Wheat and Barley Scab Initiative because it addresses immediate concerns about control of the disease and evaluates the efficacy and economics of one important management tool. Data provided by these trials also is critical for development of new products and for registration requests.