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Project Title: Coordinated Phenotyping of Uniform N eie and Official Variety Trial

PROJECT 2 ABSTRACT

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Strong FHB resistance may be combined with high-yield to impact the Eastern US wheat industry. Each year the breeding program in Northern Winter Wheat group gene a breeding line has advanced stage of development. Development of the ability of FHB resistance in local environments needed to determine the FHB resistance of the line, a yield, quality, agronomic value, and resistance to other diseases. The breeding in this CP area is of eight coordinated varieties to achieve his objective. Each year a local Official Variety Trial (OVT) of the line has available to the grower. We will continue the entry in all the entries for FHB resistance. Collectively, we have 450 northern advanced breeding line and elite local area elite for FHB resistance in the trial. This breeding encompasses nearly all genotypes that are available to grow a yield of the line may be available to them in the near future.

Objective are 1) Phenotype advanced breeding line has a candidate for elite; 2) place FHB and other agronomic, disease resistance, and quality data in the database; 3) report on production and yield increase of the line.

The coordinated entry of advanced line in the international and OVT platform has a candidate for elite in an efficient method to determine the FHB resistance of nearly all genotypes that are elite, or likely to be elite in the near future. We anticipate that all data from the trial of breeding line will be placed in the database as they are being developed. The lack of a single coordinated for the OVT limit the ability to place his data in a database. Each breeding in this coordinated project has a breeding line with improved level of FHB resistance and other traits that are elite. The production and yield increase of the line is funded by non-USWBSI source. We propose to make the information available to all breeders and extension personnel when appropriate.