

Receipt Number _____

Signature of University representative _____



2021-2022 MARYLAND WHEAT & BARLEY VARIETY TEST ENTRY FORM

Company Name & Address: _____

Contact Person: _____

Phone: _____ E-mail: _____ FAX: _____

Brand Treatment:	Entry/Line*	Treatment: Fungicide	Treatment: Insecticide	Treatment others	Fee** \$500 (or \$250 for Barley)
Total:					

Please indicate if any newly released line(s) were in the test last year as experimental lines.

Because we will be performing an inoculated and misted nursery during 2021-2022 the current fee is \$500.00 per wheat entry. A total of six wheat locations with 3 reps will be established for each wheat entry submitted at the following locations: Quantico, Queenstown, Clarksville, Keedysville, Beltsville and another inoculated misted trial at Beltsville. Barley trials will be carried out at the Queenstown and Clarksville Research and Education Centers. If you submit between 6 and 10 entries, a 5% discount to the total will be applied. If you submit greater than 10 entries, a 10% discount will be applied. Participants may use a line in the form above to apply the discount. Simply fill in "discount" under brand and type in the appropriate fee subtraction in the fee column. Return with this form by **August 30th** to the address below or email to yktiwari@umd.edu. Please ship seeds early so that it arrives by August 30th. Please send 10 pounds to cover an increased seeding rate and nursery trial to the address below.

Attach additional pages as needed. Make check payable to “University of Maryland” and mail to this address: Dr. Vijay Tiwari 4291 Field House Drive Plant Science Building, University of Maryland, College Park, 20742.

To: Participants in the 2021-2022 Maryland Wheat and Barley Variety Performance Trials

The five locations of wheat and two locations of barley are established for the yield trials each year. Tillage methods will reflect what is commonly performed on production farms near the plot locations. For the 2021-2022 season, a misted nursery will be grown and inoculated with fusarium head blight (scab), with assistance from Dr. Nidhi Rawat, plant pathologist at the University of Maryland. Results will include measurements of Fusarium damaged kernels (FDK), seed weight, and DON (at a USWBSI accredited testing facility). To replicate producer practices, seed weight and DON will be measured from samples taken from combine-harvested material. Analysis of DON takes significantly longer than the other measurements, so DON results will be posted after the initial results.

Above is the application form needed for submitting entries. To partially offset the expense of the wheat performance trials, a fee of \$500 per entry is charged to private companies. **A reduced fee for barley of \$250 per entry will be charged.** Data for all entries are published annually in Agronomy Facts Sheets posted on our web site: <https://psla.umd.edu/extension/md-crops/small-grains-maryland> as a pdf file.

All tests will be planted in a randomized complete block design with three replications. Entries will be evaluated in 7 row plots that are 18 feet in length and trimmed to 13 feet & 4 inches prior to harvest. A row spacing of 6 inches will be used. A seeding rate of 33 seeds per row foot will be used. All planting dates will be as close to the Hessian fly-free date as possible. Recommended fertility and pest control measures will be followed in the establishment and management of all tests. The following data will be collected on each entry: grain yield, test weight, heading date, moisture content at harvest, mature plant height, lodging, and occurrence and severity of disease. Currently, NOAA is forecasting a warmer planting season than the historic average, with average precipitation. That said, since we had good results with last year's planting rate of 1.8-million live seed per acre, we will repeat this for the 2021-2022 season. For interpretability, we anticipate keeping this seeding rate constant in future, unless conditions dictate another rate would provide better results. Further, we will attempt to begin planting by October 1, which is approximately six days earlier than what has been previously done. Hessian fly is a yield-impacting issue in less than 10% of years in Maryland, and should the 2021-2022 season be such a year, the increased seeding rate will compensate. It is understood that publication of data for entries tested does not imply approval or endorsement by the University of Maryland. Any reproduction of data from the above publication must cite the name, number, and date of the publication from which the data originated. Every possible effort will be made to plant, harvest, and summarize the results of each entry submitted. However, if unforeseen circumstances or weather conditions occur causing loss of the crop and data, no financial liability, including return of test fees, is either expressed or implied. For each entry, 10 pounds of seed will be needed. There is room on the entry form that asks for type of seed treatment - please be sure to fill this out completely. If untreated seed is submitted, we will plant it as received. All seed should be shipped prepaid to the address on the entry form. The application form and check for the required fees should be completed and returned no later than August 30th to the mailing address listed on the entry form. Likewise, all seed samples must be received no later than **Sept. 10th**. Earlier seed arrivals are appreciated. Thank you for participating in our small grain variety testing program. If you have any questions concerning the variety trials, or suggestions on how we may improve our trials, please feel free to contact Vijay Tiwari at 301-405-1730 or Louis Thorne, Small Grains Technician at (443) 605-5115.

Univ. of MD Variety Testing Webpage: <https://psla.umd.edu/extension/md-crops/small-grains-maryland>

Thank you for your support and interest in this program!