

LSU - SPESS

104 M.B. Sturgis Hall

Baton Rouge, LA 70803-2110

(225) 578-2110

2019-2020 LAES SMALL GRAIN PERFORMANCE TRIALS **July 24, 2019**

**Dear Seedsman/Breeder:**

Applications are now being accepted for the LAES wheat and oat performance trials**.** Information on the trials is provided below. Results from 2020 trials have been posted on my Wheat Variety Testing website at: <http://wheat.lsu.edu/index.shtml>

The protocol and entry forms for 2021 are also posted.

Changes for 2021**:** The St. Joseph location was dropped in 2020 due to a retirement. That location will be added back under the direction of Dr. Trey Price who also coordinated the Winnsboro trials. The fungicide split at Winnsboro produced excellent data last year. **For 2022 the trial will be split into 3 fungicide + 3 non-fungicide reps at Alexandria, Baton Rouge, St. Joseph and Winnsboro.**  The HMT will likely include a fungicide application at average flag leaf and a FHB fungicide application at average heading. The HMT may also include extra nitrogen. We will also plant headrows of all entries in a misted and inoculated Fusarium Headblight nursery at Alexandria and Winnsboro. The Research Summary and forms should be posted in the very near future on the official LSUAC website at: <http://www.lsuagcenter.com/en/crops_livestock/crops/varietytrial/> . You can also email Steve to receive either pdf or Excel versions of these files if desired.

If you have any questions, please call, email, or write the coordinator:

**Dr. Stephen A. Harrison**

**LSU – SPESS (School of Plant, Environmental & Soil Sciences)**

**104 MB Sturgis Hall**

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Protocol for 2020**:**

1. **Entry fees remain the same.**
2. **I require 8.5 pounds of wheat seed for experimental and I prefer 20 pounds for released varieties.**
3. The wheat variety trial will be divided into two maturity groups in north Louisiana: Early-heading entries (~7 days earlier than test mean) and normal to late heading entries. A set of three medium heading date entries will be grown with both groups to permit cross-comparison. This should allow better evaluation of the potential early lines and permit more timely harvest of both groups.
4. All new entries will be grown in the normal/late trial in north Louisiana. New entries will be grown in a maturity screening yield trial at Baton Rouge for the first year and will not be entered in the south Louisiana standard variety trial the first year unless there is previous testing in Baton Rouge (other regional trials and breeders nurseries) to indicate they are adapted to south Louisiana.
5. A wheat screening nursery will be established at Baton Rouge and Winnsboro to permit breeders / companies to test breeding lines for adaptation to Louisiana and determine whether to enter them in statewide trials the following year. These tests will be two rep yield trials at each location and limited to 10 entries per company, and will carry a fee of $120 per entry.
6. All entries will be evaluated in misted and inoculated FHB nurseries.

## Test Locations and Fees**:**

**The North Louisiana normal/late and early wheat performance trials** will be conducted at the following seven yield locations (9 trials) for a fee of $700. 1) Dean Lee Research Station, Alexandria; 2) Red River Research Station, Bossier City (Shreveport); 3) Northeast Research Station, St. Joseph; and 4) Macon Ridge Branch of Northeast Research Station, Winnsboro. **The South Louisiana wheat performance trial** will be conducted at: 5) Rice Research Station, Crowley, LA; 6) Iberia Research Station, Jeanerette, LA; and 7) Central Stations, Baton Rouge, LA. There will be a fungicide split of the trials at Alexandria, Baton Rouge and Winnsboro.

**The wheat screening nursery will** be two reps at Baton Rouge and Winnsboro with a fee of $120.

**The Oat Performance Trials** ($200) will be conducted at four locations 1), 2), 3), and 7) with three reps at each location.

## Experimental Procedures**:**

A randomized complete block design with four (standard wheat) or three (oat and wheat fungicide splits) replications will be used at each location of the statewide wheat performance trial. All plots will be seeded at recommended rates (by weight) and dates. Fertilizer will be applied as appropriate for the soil fertility level and type. Herbicides and pesticides will be used as necessary. Fungicides will not be used. **A complete copy of the LSU AgCenter wheat performance trial protocol is posted on the wheat breeding website and available by email available upon request.** Yield, test weight, lodging, heading or maturity date, disease incidence, and other pertinent data will be recorded. Fusarium head incidence and Percent Fusarium Damaged Kernels (FDK) and Dexoynivalenol toxim content (DON ppm) will be determined from headrow nurseries that are inoculated and misted.

## Seed Requirements**:**

**A minimum of 8.5 (prefer 20) pounds of high quality seed is required for each wheat performance trial entry, 1.5 pounds (600 grams) for the Wheat Screening Nursery, and 3 pounds for the oat performance trials.** We package 8.15 pounds (3700 grams) if there are no replants. **Twenty pounds gives me extra seed for re-packaging and additional trials such as Hessian Fly, Fusarium, and metribuzin trials we have conducted last year.** It is the responsibility of the submitting agency to ensure that seed purity and quality are acceptable.

## Contact Information for Test Locations**:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Person** | **Location** | **Notes** | **Phone** | **FAX** | **EMAIL- all are @agcenter.lsu.edu** |
| Boyd Padgett | Alexandria | Plant Pathologist | (318)435-2157 |  | Bpadgett |
| Steve Harrison  Kelly Arceneaux  Allysson Harding  Katie Fontenot | Baton Rouge | Coordinator  Research Associate  Research Associate  Research Associate | (225)578-1308 | 225-578-1403 | Sharrison  Karceneaux |
| Blair Buckley  Bill Waltman | Bossier City |  | (318)741-7430 | 318-741-7433 | Bbuckley  WWaltman |
| Dustin Harrell  Manoch Kongchum | Crowley | Agronomist  Agronomist | (337)788-7531 | 337-388-7553 | DHarrell  MKongchum |
| Greg Williams | Jeanerette | Research Associate | (337)276-5527 | 337-276-9088 | Gwilliams |
| Trey Price  Dustin Ezell  Myra Purvis | St. Joseph and Winnsboro | Plant Pathologist  Research Associate  Research Associate | (318)435-2157 |  | PPrice  JStapp  MPurvis |

shsig07

Stephen A. Harrison

Small Grain Variety Trial Coordinator



# 2020 - 2021 LSU AgCenter Small Grain Performance Trial Entry Form

The entry forms should be signed and **postmarked by September 10, 2020.** All seed should be received by September 20. **Seed that arrive with freight due will not be accepted. Remission of Fees: Do not send a check with the seed**. You will receive a bill after the trials have been planted. Payment of fees is due within two weeks of receipt of the bill, sometime in January. A check should be made to the LSU AgCenter and mailed to the coordinator. The commodity (small grain testing) should be indicated on the check.

Organization:

Address:

Address:

Representative:

Signature / Date

Phone: Fax:

EMAIL Addresses:

**PLEASE RETURN THIS FORM BY SEPTEMBER 10 TO:**

**Dr. Stephen A. Harrison**

**SPESS- 104 M. B. Sturgis Hall**

**Louisiana State University**

**Baton Rouge, LA 70803-2110**

**Phone: (225) 578-1308 Cell: (225) 281-9446 FAX: (225) 578-1403 Email: sharrison@agcenter.lsu.edu**

**SEED SHOULD BE RECEIVED BY SEPTEMBER 20 *Please notify me if this is a problem.***

**Wheat Variety Trials: 8.5 lbs; 20 lbs preferred**

**Oat variety Trials: 3 lbs minimum; 5 lbs preferred**

**Wheat Screening Nursery 1.5 lbs (600 grams)**

**2019-20 LSU AgCenter Wheat and Oat Variety Trial Entry Form**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No.** | **Variety / Line** | **Variety Designation on PVP or Patent Form if Different** | **Chemical Treatment on Seed** | **Released / Exptl** | **PVP Or PATENT?** | **Trial (WVT, WSN, OAT)** | **New or Previous Entry** |
| **1** |  |  |  |  |  |  |  |
| **2** |  |  |  |  |  |  |  |
| **3** |  |  |  |  |  |  |  |
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| **12** |  |  |  |  |  |  |  |