

**2008 IOWA CROP
PERFORMANCE TESTING—SOYBEAN**

2008 Plan of Procedure

The major testing items are listed in the bullets below. Procedures for 2008 are essentially unchanged from 2007, with the addition of a late fee for all entries that fail to meet posted deadlines. Please read the entire procedures for a complete description of the program for this year.

- **\$250 per district**
- **4 locations per district**
- **4 replications per location**
- **6 districts, overlapping E/W in center**
- **4 tests per district**
- **Limit 6 entries per brand per test**
- **Entries must be branded for sale**
- **No ‘phantom’ brands**
- **Insecticidal seed treatments encouraged**
- **20’ plot length (17.4’ planted row)**
- **2-row show plots in some areas**
- **7.5# seed per entry**

Eligibility of entrants: Producers and/or distributors of soybean seed, the Iowa Agriculture Experiment Station, and the Iowa Crop Improvement Association are eligible to make entries in the 2008 Iowa Crop Performance Test for Soybeans. The test is intended to provide information to farmers and not as a means of providing data to companies that do not have a testing program. A minimum of 30 acres of each variety should be planted for seed production by the entrant in the year of testing. Evidence of the minimum acres planted shall be supplied upon request.

Entries by producers or distributors of soybean seed: All entries must be approved for bulk sale of the harvested crop in domestic markets for feed and food use. Entry eligibility will be based on the brand name as supplied on the application. Any individual or group of individuals together with subsidiaries and contract growers, who produce and/or sell seed under the same brand name, will be considered as one entrant. **Entry brand names must be available for sale to growers (i.e., no “phantom brands”).**

Additional entries may be made by the Iowa Crop Improvement Association for comparison purposes. Results from these entries may or may not be coded in the final results at the discretion of the testing coordinator.

Fees: The regular fee for testing remains at **\$250 per entry** per test. However, due to increased costs associated with late applications and late deliveries, we will be assessing extra fees for all items that fail to meet the posted deadlines.

| | Fees |
|--------------------|-------------|
| Entry | 250 |
| Late application | 50 |
| Late payment | 50 |
| Late seed delivery | 50 * |

* **Late delivery fee is PER ENTRY!**

District Areas: The map at the bottom of these procedures shows the districts used in the testing program. Three test sites will be located within the boundaries of each district. Within each tier of districts, however, the two locations nearest I-35 will contain the experiments for both the east and west side. This **overlap between east and west districts** within a tier allows us to **provide 4 locations of data** for each single district. Every possible effort will be made to plant, harvest, and calculate the results for each entry accepted. If conditions make this impossible, no financial liability is either implied or expressed by the Iowa Agriculture Experiment Station or the Iowa Crop Improvement Association.

Entries: Required information for entries is the maturity group AND the soybean cyst nematode (SCN) resistance (as sold to growers). This information will be used to establish 4 separate experiments per district:

1) **RR, SCN-resistant, early maturing**
2) **RR, SCN-resistant, full season**

3) **RR, SCN-susceptible, early maturing**
4) **RR, SCN- susceptible, full season**

Maturity guidelines for the early and full season tests within each district are listed below and provided on the application sheets. Because of these restrictions, **a variety/brand can be entered in only a single experiment within a district.** Four replications will be planted at each location. Applications postmarked (postage meter stamp not acceptable), faxed or emailed after March 3, 2008 will be accepted at the discretion of the testing coordinator. If you anticipate late entries you are encouraged to notify us as soon as possible. This will increase your chances of having late entries accepted.

Row spacing: Entries will be tested with a 30" row spacing. Each entry in a test will be planted in 4-row plots, with the center two rows harvested for yield.

Maturity: Entries should be placed in the appropriate trial using the criteria listed below. This information applies to both the east and west districts within a tier.

| | Early-maturing MG | Full season MG |
|----------------|--------------------------|-----------------------|
| Northern Tier: | Less than 2.2 | 2.3 - 2.7 |
| Central Tier: | 2.3 - 2.7 | 2.8 - 3.2 |
| Southern Tier: | 2.8 - 3.2 | 3.3 - 3.9 |

We realize there is variability from season to season, and among companies, with respect to MG. We will be using the following varieties as references: Century 84 (approx. MG 2.5); Resnik (approx. MG 3.2); and Williams 82 (approx. MG 3.9).

Entries that mature much later than these maturity bounds **MAY BE DISCARDED** at harvest at the discretion of the testing coordinator. Harvesting **WILL NOT BE DELAYED** by waiting for late-maturing entries.

The testing coordinator reserves the right to withhold publication of results for entries that mature outside these bounds by an unreasonable amount.

Commercial or experimental entries: The availability of seed for each entry for planting in 2008 will be shown in the 2008 Iowa Crop Performance Testing—Soybean report. If seed will be offered to farmers in 2008 the entry will be classified as commercial. If no seed will be offered to farmers in 2008 the entry will be identified as experimental. **Experimental entries may also be accepted on a conditional basis**—if a decision is made by the applicant during the growing season to discontinue an experimental line, results can be withheld from publication at the applicant's request.

Date of Entry: The application and entry fee must be in the possession of the Association by March 3, 2008. The association reserves the right to reject any or all applications received after March 3, 2008 or if seed for testing is not received by April 1, 2008. Entry fees are not refundable after April 1, 2008.

Seed for Testing: Seed can be delivered one of two ways. Option 1: An unopened bag (50 lb. minimum) of production seed for each entry can be delivered for testing. Option 2: Applicants may submit samples. **7.5 pounds of seed per test** are required for each entry. The seed for testing must be received by April 1, 2008. Entries with no seed supplied by the deadline may be eliminated from the test without a refund of fees. Seed for testing will be supplied without charge. Additional sampling of any entry will be the option of ICIA.

Use of Seed: Seed received for entry in the test shall be used for testing and demonstration purposes only and will not be used for increase, breeding or distribution.

Seeding Rate: All entries will be planted at a **seeding** rate of 140,000 seeds per acre (8 seeds per foot of row). This change is made in accordance with ISU recommendations of lowered seeding rates. No germination test will be made on seed submitted by the entrant for testing, nor will adjustments be made to the seeding rate for entries claimed to have substandard germination.

Herbicide Treatment: Weed control will be maintained at all sites using appropriate methods.

Soybean Cyst Nematode Evaluation: All experiments will be grown at each location. Test sites will be chosen based on the criterion of being representative of typical grower fields. Sites will be sampled to determine average pre-plant SCN levels, with no attempts made to locate unusually high or low levels of SCN. Separate experiments for SCN susceptible or resistant entries will allow better comparisons among entries within either group. No claims about SCN management or levels of SCN resistance are intended or implied by this testing procedure.

All entries designated as having SCN resistance may undergo a growth chamber screening in SCN-infested soil for comparison to a standard susceptible check.

Iron Deficiency Chlorosis: IDC WILL BE tested and reported this year.

Seed Treatments: In 2008 we are encouraging all companies to **SUBMIT TREATED SEED** for testing. Fungicidal and/or insecticidal seed treatments were present on 80% of the commercial 2007 entries. In some situations this may account for performance differences between treated and untreated entries. All treatments must be identified by trade name and rate on the application, and the appropriate tags **MUST** accompany the seed delivered for testing. All seed treatment information will be published in the 2008 report.

Phytophthora Rot: Resistance information of entries to phytophthora races 1, 3 and 4 shall be supplied by the entrant and will be reported in the 2008 report.

Brown Stem Rot: Resistance information for BSR shall be supplied by the entrant. Entries with a major gene for resistance will be identified in the 2008 report

Hilum, Flower, and Pubescence Color: Descriptive data shall be supplied by the entrant for these characters and will be reported in the 2008 report.

Oil and Protein: A minimum of 2 replications of each entry will be sampled and tested for oil and protein content with an Infratec 1221 near-infrared whole-grain analyzer. Data will be reported in the 2008 report.

Publication of Results: Data for all entries in the Iowa Crop Performance Testing—Soybean trials will be published in accordance with the policies established by the Iowa Crop Improvement Association.

Demonstration and Publication of Entries: All entries, upon verification and acceptance into the test, **will be posted online and made available to the public for educational purposes.** In addition, entries may be grown in **show plots**. Applicants will be notified of show plot locations and associated field days, and are welcome to attend. Applicants can opt out of the show plots if desired.

Variety Name Change Policy: A variety's name designation may be changed once during the testing year or between testing years. A variety cannot be renamed to a different company or brand. ICIA will not be held responsible for any omissions of multiple year data caused by variety designation changes.

Instructions for submitting an application (deadline March 3, 2008):

1. Email: download application forms (Excel format) from the Crop Testing website listed below. Complete the forms and email to CropTesting@iastate.edu; mail a copy of the invoice with payment to address below.
2. Mail: download and complete the application and mail with check to address below.
3. Fax: complete the application, fax to 515-294-9985, and send a copy and payment to address below.

Variety testing homepage: <http://www.croptesting.iastate.edu>

Iowa Crop Improvement Association homepage: www.agron.iastate.edu/icia

Send **Application** and **Check** to:

Iowa Crop Improvement Association
4611 Mortensen Road, #101
Ames, IA 50014

Ship **Seed** via **Freight Carrier** to:

Iowa Crop Performance Testing—Soybean
ISU Curtiss Farm
2219 State Ave.
Ames, IA 50010

Questions: Jim Rouse

515-294-5604 (office)

515-291-5290 (cell)

CropTesting@iastate.edu

Testing Districts

