

**University of Illinois  
at Urbana-Champaign**

**Department of Crop Sciences**

Variety Testing  
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**TO:** Soybean Variety Producers January 28, 2009

**FROM:** Ralph W. Esgar Agronomist  
Darin Joos Senior Research Specialist  
Brian Henry Research Specialist

**RE:** Entry into the 2009 Conventional and Roundup Resistant Soybean Testing Program

The enclosed applications should be used to enter varieties into the 2009 Illinois Soybean Trials. 2009 marks the 41<sup>th</sup> year the soybean trials have been conducted by the University of Illinois Variety Testing Program. The trials are professionally managed and conducted in a research-based manner to minimize variability and ensure the integrity of the results. This level of expertise and professionalism make performance reports issued by this program the premier source of objective third party information on soybean varieties in Illinois. Your company's participation will ensure the newest and best varieties are compared in these trials.

**PLEASE NOTE FOR 2009.** Conventional varieties (including conventional and de-regulated herbicide resistant varieties other than to roundup) and Roundup Resistant varieties will be accepted and evaluated in separate trials. Again this year, please include a **1 lbs. UNTREATED** seed sample for any variety entered with a seed treatment. This sample will be used for the soybean aphid and soybean rust screens. Also, this sample will be used to determine protein and oil content of the grain planted in the trials. The pre-plant protein and oil values will be compared with harvest values in an effort to track location and environmental effects on protein and oil levels.

Entry forms will be available on our website in an Excel format. We continue to ask that **all seed be clearly labeled with the compound(s) applied and MSDS sheets be included** with the seed samples shipped to our office. A variety may be treated with an insecticide (**only if a label has been granted for soybeans**) or bacteria, please specifically identify all products applied to the seed. This information will appear in the published results. The number of varieties evaluated for resistance to Asian soybean rust is limited. Please feel free to contact me if you have any concerns or comments about our testing procedures.

**Disease screening:** The majority of the entries will be assessed for resistance reaction to economically important diseases including soybean cyst nematode, Asian soybean rust, Phytophthora root rot (race 26), soybean aphids, Sclerotinia white mold, sudden death syndrome, soybean mosaic virus, green stem, frogeye leaf spot, and root knot nematode. Contact information along with details about diseases and screening methods can be found at [www.vipsoybeans.org](http://www.vipsoybeans.org).

**Field evaluations** - Disease resistance evaluation of varieties will be completed at different locations depending on what diseases predominate. Field evaluations could include seedling diseases, foliar and stem diseases at R5-7 growth stage, and stem and seed diseases at harvest maturity.

**Greenhouse evaluations** - Varieties will be evaluated for resistance to several pathogens of economic importance. All disease ratings, especially SDS, will include a field rating when possible. We recognize that the greenhouse screen is very severe but allows us to construct conditions to identify the very best resistance levels. The field screen is able to identify varieties with partial resistance.

Please fill out all information requested on the entry blank and return your application by **March 1, 2009**. Any fees owed should accompany your application. If you use the online version, please mail a signed copy of the application with your fees. All checks should be made payable to the **University of Illinois**.

Seed requirements are as follows:

**7 lbs for Regions 1, 2 & 3; 5 lbs for Regions 4 & 5; 3 lbs for Urbana 7".**

Please send all available seed samples by **March 15, 2009**, document when any unavailable varieties will arrive.

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All varieties at all locations will be evaluated for protein and oil content.

Disease screening results and protein and oil data will be available at the Variety Testing website. Partial funding to conduct the disease screening and protein and oil evaluations is provided by the Illinois Soybean Check-Off.

Varieties may be entered in the following regions: **Region 1-DeKalb, Mt. Morris and Erie, Region 2-Monmouth, Goodfield and Dwight, Region 3-Perry, New Berlin and Urbana, Region 4-St. Peter and Belleville, Region 5-Elkville and Harrisburg, and Urbana 7"**, see the map for details. A Roundup Resistant and Conventional trial will be conducted at all locations this year. An application for each trial is attached, the Conventional application is on white paper and the Roundup Resistant application is on yellow paper.

If a variety has been entered in previous years with a different name, **please indicate the name change on the entry blank**. This will ensure 2 and 3 year averages will be calculated when appropriate.

All 30-inch row width Conventional and Roundup Resistant trials will be conducted on a regional basis. Weed control for the Conventional trials will consist of a conventional herbicide program along with cultivation and hand weeding as needed. Weed control for the Roundup Resistant trial will consist of pre-emergence foundation herbicide and post-emergence applications of Roundup when weeds are 4-5 inches tall along with cultivation and hand weeding as needed.

Tests will be conducted as alpha-lattice or randomized complete block designs, with three replications. The 30-inch row width trials will have 4 rows per plot, 21 feet long. The center 2 rows of each plot will be harvested. You may indicate a seeding rate; otherwise the seeding rate will be 9-10 seeds per foot of row. The 7-inch row width trial will have 8 rows per plot, 21 feet long. The center 6 rows of each plot will be harvested. Each plot will be seeded at 4-5 seeds per foot of row, unless seeding rate is indicated. We will not inoculate any seed.

Entries will be evaluated for yield, percent lodging at harvest, maturity date, height, and shattering. Every possible effort will be made to plant, harvest and calculate the results of each entry accepted. However, should a natural calamity occur causing loss of the crop and data, no financial liability including return of testing fees is either expressed or implied.

The ISCB is compiling a list of producer nominated varieties to be included in the 2009 Soybean Trials. Ideally, varieties entered from the nomination list would not have otherwise been entered by the company. The intention is to include varieties that have an established history with many producers, in most cases a company can not justify paying entry fees for these established varieties. I will forward company nomination lists to each company when this list is available to me. At that time the nominated varieties can be incorporated into the entries made by the company.

RWE:rwe

## 2009 SOYBEAN LOCATIONS



Dear Entrant of the University of Illinois Crop Testing Programs:

The Crop Testing Programs **Copyright / Advertising Policy** described here has several objectives, including:

- Proper use of the University of Illinois's name
- Fairness to all companies
- Proper use of the data
- Reasonable procedures

The advertising policy is designed to encourage use of the data in a fair and uniform manner. Proper reference of the bulletin will be required to accompany any advertisement, with a disclaimer included in the ad.

#### Copyright/Advertising Policy

This information, protected by copyright, is presented under authority granted the University of Illinois to conduct performance trials, including interpretation of data to the public, and does not imply endorsement or recommendation by the University of Illinois. Performance data may be used in the following ways: 1) Permission is granted to reproduce the tables in their entirety provided the source is referenced and data are not manipulated or reinterpreted; 2) Advertising statements by an individual company about the performance of its entries can be made as long as they are accurate statements about the data as published, with no reference to other companies' name or cultivars. For both cases mentioned above the following must be included with the reprint or ad: "See the official results in the University of Illinois, Department of Crop Sciences bulletin ' Soybean Variety Test Results in Illinois - 2008', 2008-04 \*\* or at the website <http://vt.cropsci.uiuc.edu/>. Endorsement or recommendation by the University of Illinois is not implied."

Some examples of possible ads follow.

Example 1: 'Company' 'variety' had the highest regional yield (60.0 bu/A)\* in the 2008 Region 1 trial.

Example 2: 'Company' had the #1, 3 & 5 ranked regional yield\* among cultivars entered in the 2008 Region 1 trial.

Example 3: 'Company' 'variety' yielded 60.0 bu/A\* in the 2008 Region 1 trial, which is 'significantly' better than the trial average of 53.0 bu/A at the 25% L.S.D. level.

[With the following to appear after each such advertising statement:]

\*See the official results in the University of Illinois, Department of Crop Sciences bulletin ' Soybean Variety Test Results in Illinois - 2008', 2008-04 \*\* or at the website <http://vt.cropsci.uiuc.edu/>. Endorsement or recommendation by the University of Illinois is not implied.

\*\*Refer to the publication list below to get the appropriate title for the crop of interest.

Our goal is to create an environment that will encourage companies to freely enter varieties without fear of negative advertising, this should benefit all involved. Please pass this information on to those promoting your companies' cultivars. Abuses will result in action to prevent the problem from occurring in the future.

#### 2008 Publication List:

Wheat Performance in Illinois Trials - 2008, 2008-01

Forage Crop Variety Trials in Illinois - 2008, 2008-02

Corn Hybrid Test Results in Illinois - 2008, 2008-03

Soybean Variety Test Results in Illinois - 2008, 2008-04