

2013 POSEY COUNTY SOYBEAN TEST PLOT RESULTS
LIBERTY SOYBEAN VARIETIES

(SORTED ALPHABETICALLY BY COMPANY)

| <u>COMPANY NAME</u> | <u>VARIETY NUMBER</u> | <u>AVG. YIELD</u> | <u>AVG. % MOIST.</u> | <u>LODGING SCORE</u> | |
|-------------------------|-----------------------|-------------------|----------------------|----------------------|--|
| STINE SEED | 39LD02 | 73.4 | 9.7 | 5.0 | LSD for YIELD is 10.5 |
| STINE SEED | 42LD02 | 75.4 | 9.9 | 3.7 | Any pairwise comparison is appropriate. |
| STINE SEED | 46LD02 * | 85.0 * | 10.0 | 3.0 | LSD is "Least Significant Difference" |
| STEYER SEEDS | 3105L | 75.3 | 9.9 | 5.0 | |
| STEYER SEEDS | 3405L | 94.6 * | 9.9 | 3.5 | YIELD followed by an asterisk (*) is |
| STEYER SEEDS | 4201L | 78.2 | 10.0 | 3.7 | not significantly different from the highest |
| Population Study | 60K | 74.5 | 10.0 | 3.3 | |
| Population Study | 100K | 79.4 | 9.9 | 3.7 | Average yield for the plot is 80.5 bu/acre |
| Population Study | 200K | 89.4 * | 9.9 | 2.7 | |
| Population Study | 240K | 83.7 | 10.1 | 2.7 | Average moisture for the plot is 9.9% |
| PIONEER | P43T14L | 85.2 * | 9.8 | 1.0 | |
| LG SEEDS | C3707LL | 70.1 | 9.8 | 5.0 | Lodging Score is based on a visual assessment |
| HOBLIT (Burrus Seeds) | 372LL | 77.1 | 9.9 | 5.0 | from 1 (standing) to 5 (flat). The score listed |
| HOBLIT (Burrus Seeds) | 423LL | 71.1 | 10.1 | 5.0 | is an average of the 4 reps of each variety. |
| DYNA GRO | S38LL54 | 83.1 | 9.5 | 2.3 | |
| DYNA GRO | S42LL63 | 76.2 | 9.9 | 4.3 | * Stine 46LD02 was used for the population |
| DYNA GRO | S45LL33 | 87.4 * | 10.2 | 3.0 | study. Only the 60K rate was significantly |
| BECK'S HYBRIDS | 386NL | 80.8 | 9.4 | 4.0 | different than the other planting rates. |
| BECK'S HYBRIDS | 394L4 | 93.8 * | 9.8 | 2.0 | |
| BECK'S HYBRIDS | 423NL | 76.2 | 9.9 | 3.8 | |

PLOT INFORMATION

Planted: June 12, 2013

Planting Population: 140,000

Harvested: October 28, 2013

4 replications of each variety

Thanks to Marvin and Ruth Redman for allowing us to plant the soybean plots on their farm.

For Additional Information, contact:

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2013 PURDUE EXTENSION, POSEY COUNTY SOYBEAN PLOTS

For more information about the plots, contact: Jon Neufelder, Extension Educator Posey County (see contact information below).

Special "thanks" to Marvin and Ruth Redman in Posey County for being the cooperators for the corn and soybean test plots for the past 41 years, as well as, for all the help they give to make the plots and the field days a success!

Also want to thank Dr. Charles Mansfield, Agronomist with Purdue University at the Vincennes University campus, for his help with planting, harvesting and analyzing the plot results. Thanks for my Extension Educator co-workers: Hans Schmitz, Maria Restrepo, Amanda Mosiman and Nick Held for help with planting and processing the samples.

Thanks to the following companies and representatives for providing the seed and plot fees used to conduct the Corn hybrid trials in Gibson and Posey County. Below are the seed company representatives and their contact information:

| <u>SEED COMPANY</u> | <u>NAME</u> | <u>PHONE #</u> | <u>SEED COMPANY</u> | <u>NAME</u> | <u>PHONE #</u> |
|---------------------|---------------|----------------|------------------------|-----------------|----------------|
| Asgrow | Matt Parmer | (812) 202-1807 | Hoblit brand seed | Matt Montgomery | (309) 657-0328 |
| Baker Seed | Mike Baker | (812) 456-8851 | Mycogen Seeds | Ellen Adler | (812) 453-9796 |
| Beck's Hybrids | Kurt Karch | (812) 483-4635 | Pioneer Hybrids | Andy Eisterhold | (812) 459-6840 |
| Channel Seeds | Taylor Shipp | (615) 351-4438 | Power Plus Seed | Matt Montgomery | (309) 657-0328 |
| Croplan Genetics | Jediah French | (812) 608-1380 | Seed Consultants, Inc. | Bill Mullen | (740) 505-2022 |
| Dairyland Seed | Tom Forrest | (309) 530-3983 | Stewart Seeds | Jim Durholz | (812) 453-1766 |
| Dyna Gro (CPS) | Kevin Adams | (765) 760-9390 | Steyer Seeds | Tom Jones | (419) 355-6708 |
| Great Lakes Hybrids | Phil Brunner | (317) 440-0572 | Stine Seed Company | Kyle Ross | (270) 993-4590 |
| LG Seeds | Dan Mitchell | (812) 457-3132 | Syngenta Seed | Tawny Chesser | (812) 486-6939 |

Understanding the LSD (Least Significant Difference)

The least significant difference (LSD) listed for the data should be used to determine if the difference between varieties/hybrids is due to performance differences or random chance. The plot data was calculated and analyzed with alpha set to 0.20. This means that if the difference in yield between two varieties/hybrids were equal to or greater than the listed LSD, there is only a 20% chance that the yield difference is due to random chance and not due to differences in the yield capacity of the individual varieties or hybrids. Or stated another way, the difference would likely be due to variety/hybrid differences in 8 out of 10 instances (80%) when the two are evaluated under conditions like those of the test. Therefore, a difference in yield between any two varieties or hybrids which is less than the listed LSD is likely due to chance. That's why the top performing varieties/hybrids that are likely different due to random chance are marked with an asterisk(*), meaning they are not significantly different from each other, even though their average yield in this plot is different.

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