

2013 POSEY COUNTY SOYBEAN TEST PLOT RESULTS
LIBERTY SOYBEAN VARIETIES

(SORTED BY YIELD)

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

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:

Jon Neufelder, Extension Educator

Purdue Extension, Posey County

126 E. Third St., Room 29

Mt. Vernon, IN 47620-1876

(812) 838-1331

neufelde@purdue.edu

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.

Jon Neufelder, Extension Educator
Purdue Extension, Posey County
126 E. Third St., Room 29
Mt. Vernon, IN 47620-1876
(812) 838-1331
neufelde@purdue.edu