

## **2018 PURDUE EXTENSION, POSEY COUNTY SOYBEAN PLOTS**

For more information about the plots, contact: Hans Schmitz, Extension Educator Posey County, or Nick Held, Extension Educator Spencer County (*see contact information below*).

Thank-you to Dutchman Farms for being the cooperators and allowing us to place the soybean plots on their farm. Also thanks to Dr. Charles Mansfield and Phil Devillez, Agronomists, Purdue University, for all their help with the plot.

Thank you to Amanda Mosiman, Warrick County Educator, David Ackley, Pike County Educator, and Addie Thornley, Gibson County Educator, for their help in preparing and harvesting the plot.

Thanks to the following companies and representatives for providing the seed and plot fees used to conduct the Soybean yield trials in 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>
AgriGold Hybrids	Matt Michel	(812) 632-0379	Golden Harvest (Syngenta)	Tawny Chesser	(812) 486-6939
Asgrow	Matt Parmer	(812) 202-1807	LG Seeds	Dan Mitchell	(812) 457-3132
Baker Seed	Debbie Baker	(812) 456-8852	Mycogen Seeds	Ellen Adler	(812) 453-9796
Beck's Hybrids	Kurt Karch	(812) 483-4635	Dupont-Pioneer	Emily Seib	(812) 202-5677
Dyna-Gro (CPS)	Kyle Ross	(270) 231-3858	Stewart Seeds	Brian Denning	(812) 455-7346

### 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 0.05. 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 5% 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 95 out of 100 instances (95%) 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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**2018 POSEY COUNTY SOYBEAN TEST PLOT RESULTS**

**XTEND SOYBEAN VARIETIES**

(SORTED BY YIELD)

COMPANY	VARIETY	YIELD	MOIST.	LODGING.	
BECK'S HYBRIDS	4119X2	76.3 *	17.7	4.0	LSD for YIELD is 9.63 bushels @ alpha .05; Coefficient of variation: 10.6
PIONEER	P42A52X	73.7 *	16.3	4.8	
ASGROW	AG37X9	71.3 *	14.7	4.00	Any pairwise comparison is appropriate.
LG SEEDS	C4227 RX	68.4 *	15.5	3.50	
DYNA GRO	S41XS98	67.5 *	15.0	4.25	YIELD followed by an asterisk (*) is not significantly different from the highest
BECK'S HYBRIDS	3779X2	67.5 *	16.6	3.25	
PIONEER	P40A47X	66.9 *	14.3	1.25	LSD is "Least Significant Difference"
AGRI GOLD HYBRIDS	G4190RX	66.2	15.1	2.75	
LG SEEDS	C3985 RX	65.1	14.9	3.75	<b><u>PLOT INFORMATION</u></b>
LG SEEDS	C3777 RX	64.7	14.9	2.50	
GOLDEN HARVEST (SYNGENTA)	4307X	64.2	16.5	4.25	Planted: May 2, 2018
BAKER SEED	4282NRXSTS	63.9	16.4	4.50	
ASGROW	AG42X9	63.8	15.5	3.25	Planting Population: 130,000
AGRI GOLD HYBRIDS	G3520RX	63.7	15.1	2.75	
STEWART SEED	4228R2X	63.4	14.6	2.00	Row Width: 30"
BAKER SEED	3782NRXSTS	63.2	15.9	1.75	
BECK'S HYBRIDS	4453X2	62.4	17.2	3.75	Harvested: October 4, 2017
STEWART SEED	4029R2X	61.9	14.7	1.25	
DYNA GRO	S39XT68	61.0	14.5	4.25	Lodging: 0-5 scale (none-flat)
AGRI GOLD HYBRIDS	G3324RX	60.9	14.8	2.00	
STEWART SEED	3628R2X	59.8	14.9	2.25	4 replications of each variety
GOLDEN HARVEST (SYNGENTA)	3982X	57.7	15.0	4.50	
DYNA GRO	S37XS89	55.6	16.4	2.75	Pesticide Information: 4/18: Roundup XL herbicide; 1.0 qt./A. 6/8: Tapout 3EC; 0.280 gal 6/8: Sinister; 0.360 gal
ASGROW	AG41X8	55.6	15.0	3.50	
PLOT AVERAGE:		64.4	15.5		

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(SORTED BY COMPANY NAME)

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AGRI GOLD HYBRIDS	G3520RX	63.7	15.1	2.75	alpha .05; Coefficient of variation: 10.6
AGRI GOLD HYBRIDS	G3324RX	60.9	14.8	2.00	Any pairwise comparison is appropriate.
ASGROW	AG37X9	71.3 *	14.7	4.00	YIELD followed by an asterisk (*) is
ASGROW	AG42X9	63.8	15.5	3.25	not significantly different from the highest
ASGROW	AG41X8	55.6	15.0	3.50	
BAKER SEED	4282NRXSTS	63.9	16.4	4.50	LSD is "Least Significant Difference"
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LG SEEDS	C3777 RX	64.7	14.9	2.50	Lodging: 0-5 scale (none-flat)
PIONEER	P42A52X	73.7 *	16.3	4.8	
PIONEER	P40A47X	66.9 *	14.3	1.25	4 replications of each variety
STEWART SEED	4228R2X	63.4	14.6	2.00	
STEWART SEED	4029R2X	61.9	14.7	1.25	Pesticide Information:
STEWART SEED	3628R2X	59.8	14.9	2.25	4/18: Roundup XL herbicide; 1.0 qt./A.
PLOT AVERAGE:		64.4	15.5		6/8: Tapout 3EC; 0.280 gal
					6/8: Sinister; 0.360 gal

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**2018 POSEY COUNTY SOYBEAN TEST PLOT RESULTS**

**LIBERTY SOYBEAN VARIETIES**

(SORTED BY YIELD)

COMPANY NAME	VARIETY NUMBER	AVG. YIELD	AVG. % MOIST.	LODGING
BECK'S HYBRIDS	424L4	67.6 *	14.7	2
BECK'S HYBRIDS	394L4	61.7 *	15.3	3.5
MYCOGEN	MY400L5	60.4 *	17.1	3.75
GOLDEN HARVEST	GH3980L	60.2 *	15	4
BECK'S HYBRIDS	366L4	58.5 *	14.1	4.75
GOLDEN HARVEST	GH3625L	58.1 *	14.5	4.5
DYNA GRO	S38LL54	57.5 *	14.5	3.5
MYCOGEN	MY442L5	52.3	18.4	1.75
MYCOGEN	MY371L5	48.0	13.9	5
DYNA GRO	S40LL35	42.0	14.4	5

LSD for YIELD is 11.5 bushels @  
alpha .05; Coefficient of variation: 14.0  
Any pairwise comparison is appropriate.

YIELD followed by an asterisk (\*) is  
not significantly different from the highest

LSD is "Least Significant Difference"

**PLOT INFORMATION**

Planted: May 2, 2018

Planting Population: 130,000

Row Width: 30"

Harvested: October 4, 2017

Lodging: 0-5 scale (none-flat)

4 replications of each variety

Pesticide Information:

4/18: Roundup XL herbicide; 1.0 qt./A.

6/8: Tapout 3EC; 0.280 gal

6/8: Sinister; 0.360 gal

PLOT AVERAGE: 56.7 15.2

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