PURDUE UNIVERSITY COOPERATIVE EXTENSION SERVICE

2017 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 Alan and Dan Bender Farm for being the cooperators and allowing us to place the soybean plots on their farm. Also thanks to Dr. Charles Mansfield, Agronmist, Purdue University at the Vincennes University campus for all his help with the plot.

Tremendous thank you to Jon Neufelder, retired Posey County Educator, for leading the way throughout this year and teaching Hans and Nick how to keep everything going along the way.

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:

SEED COMPANY	NAME	PHONE #	SEED COMPANY	NAME	PHONE #
AgriGold Hybrids	Matt Michel	(812) 632-0379	Great Lakes Hybrids	Jim Jackson	(812) 343-6127
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	NK Seeds (Syngenta)	Tawny Chesser	(812) 486-6939
Channel Seed	Justin Jones	(757) 784-6157	Dupont-Pioneer	Emily Seib	(812) 202-5677
Dyna-Gro (CPS)	Kyle Ross	(270) 231-3858	Burrus Seed, Power Plus	Josh Gunther	(317) 617-3370
Golden Harvest (Syngent	Tawny Chesser	(812) 486-6939	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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PURDUE UNIVERSITY COOPERATIVE EXTENSION SERVICE

2017 POSEY COUNTY SOYBEAN TEST PLOT RESULTS

ROUNDUP READY SOYBEAN VARIETIES

(SORTED BY YIELD)

COMPANY	VARIETY	YIELD		MOIST.	LODGING
STEWART SEED	4113R2	54.9	*	10.8	0
BECK'S HYBRIDS	437R2	52.5	*	15.7	0
NK SEED (Syngenta)	S 42-P6	51.6	*	10.8	0
GREAT LAKES HYBRIDS	GL3729R2	51.2	*	10.3	0
DYNA GRO	S 39RY65	50.0	*	10.3	0
PIONEER	38T42R	49.9	*	10.2	0
MYCOGEN	5N433 R2	49.7	*	12.7	0
STEWART SEED	3715R2	49.1	*	10.0	0
MYCOGEN	5N387 R2	47.4		10.3	0
NK SEED (Syngenta)	S 39-C4	46.9		10.4	0
BAKER SEED	4052NRR	46.7		10.1	0
BECK'S HYBRIDS	387R4	45.6		9.9	0
POWER PLUSTM (Burrus Seeds)	38K6TM*	45.1		10.1	0
POWER PLUSTM (Burrus Seeds)	41B8TM*	45.0		10.4	0
PLOT AVERAGE:		49.0		10.8	0.0

LSD for YIELD is 7.45 bushels @ alpha .05; Coefficient of variation: 10.6 Any pairwise comparison is appropriate.

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

LSD is "Least Significant Difference"

PLOT INFORMATION

Planted: May 22, 2017

Planting Population: 120,000

Row Width: 18"

Harvested: October 2, 2017

Lodging: 0-5 scale (none-flat)

4 replications of each variety

Pesticide Information:

5/22: Optill herbicide; 2.0 oz./A.

5/22: Zidua herbicide: 2.0 oz./A.

6/11: Cleanse grass herbicide; 16 oz./A.

6/26: Glyphosate 41%; 32 oz./A.

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2017 POSEY COUNTY SOYBEAN TEST PLOT RESULTS

ROUNDUP READY SOYBEAN VARIETIES

(SORTED BY COMPANY NAME)

COMPANY	VARIETY	YIELD		MOIST.	LODGING
BAKER SEED	4052NRR	46.7		10.1	0
BECK'S HYBRIDS	387R4	45.6		9.9	0
BECK'S HYBRIDS	437R2	52.5	*	15.7	0
DYNA GRO	S 39RY65	50.0	*	10.3	0
GREAT LAKES HYBRIDS	GL3729R2	51.2	*	10.3	0
MYCOGEN	5N387 R2	47.4		10.3	0
MYCOGEN	5N433 R2	49.7	*	12.7	0
NK SEED (Syngenta)	S 39-C4	46.9		10.4	0
NK SEED (Syngenta)	S 42-P6	51.6	*	10.8	0
PIONEER	38T42R	49.9	*	10.2	0
POWER PLUSTM (Burrus Seeds)	38K6TM*	45.1		10.1	0
POWER PLUSTM (Burrus Seeds)	41B8TM*	45.0		10.4	0
STEWART SEED	4113R2	54.9	*	10.8	0
STEWART SEED	3715R2	49.1	*	10.0	0
	PLOT AVERAGE:	49.0		10.8	0.0

LSD for YIELD is 7.45 bushels @ alpha .05; Coefficient of variation: 10.6

Any pairwise comparison is appropriate.

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

LSD is "Least Significant Difference"

PLOT INFORMATION

Planted: May 22, 2017

Planting Population: 120,000

Row Width: 18"

Harvested: October 2, 2017

Lodging: 0-5 scale (none-flat)

4 replications of each variety

Pesticide Information:

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6/11: Cleanse grass herbicide; 16 oz./A.

6/26: Glyphosate 41%; 32 oz./A.

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2017 POSEY COUNTY SOYBEAN TEST PLOT RESULTS

XTEND SOYBEAN VARIETIES

(SORTED BY YIELD)

COMPANY	VARIETY	YIELD		MOIST.
GOLDEN HARVEST (SYNGENTA)	4307X	63.3	*	13.3
DYNA GRO	S41XS98	58.2	*	10.1
LG SEEDS	C3985 RX	56.8	*	10.5
GREAT LAKES HYBRIDS	3777NSRX	55.3	*	9.3
CHANNEL	3917R2X	55.0		10.1
POWER PLUSTM (Burrus Seeds)	36A1XTM*	54.8		8.9
BECK'S HYBRIDS	3753X2	54.4		9.1
LG SEEDS	C4227 RX	53.8		10.1
PIONEER	36T36X	52.3		9.6
GREAT LAKES HYBRIDS	3979NRX	52.3		9.7
BECK'S HYBRIDS	4291X2	51.8		9.9
ASGROW	AG41X8	51.4		14.3
STEWART SEED	4116R2X	50.6		10.3
BAKER SEED	3772NRX	50.3		9.2
PIONEER	40T36X	50.2		9.9
GOLDEN HARVEST (SYNGENTA)	3985X	49.9		9.2
AGRI GOLD HYBRIDS	G3980RX	48.9		9.9
DYNA GRO	S39XT68	48.9		10.5
ASGROW	AG36X6	48.6		9.3
STEWART SEED	3928R2X	47.0		9.3
AGRI GOLD HYBRIDS	G4220RX	45.8		11.2
CHANNEL	4218R2X	34.3		24.9
	PLOT AVERAGE:	51.5		10.8

LSD for YIELD is 8.26 bushels @ alpha .05; Coefficient of variation: 11.3 Any pairwise comparison is appropriate.

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

LSD is "Least Significant Difference"

PLOT INFORMATION

Planted: May 22, 2017

Planting Population: 120,000

Row Width: 18"

Harvested: October 1, 2017

Lodging: 0-5 scale (none-flat)

4 replications of each variety

Pesticide Information:

5/22: Optill herbicide; 2.0 oz./A.

5/22: Zidua herbicide: 2.0 oz./A.

6/11: Cleanse grass herbicide; 16 oz./A.

6/26: Glyphosate 41%; 32 oz./A.

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2017 POSEY COUNTY SOYBEAN TEST PLOT RESULTS

XTEND SOYBEAN VARIETIES

(SORTED BY COMPANY NAME)

COMPANY	VARIETY	YIELD		MOIST.
ASGROW	AG36X6	48.6		9.3
ASGROW	AG41X8	51.4		14.3
AGRI GOLD HYBRIDS	G3980RX	48.9		9.9
AGRI GOLD HYBRIDS	G4220RX	45.8		11.2
BAKER SEED	3772NRX	50.3		9.2
BECK'S HYBRIDS	3753X2	54.4		9.1
BECK'S HYBRIDS	4291X2	51.8		9.9
CHANNEL	4218R2X	34.3		24.9
CHANNEL	3917R2X	55.0		10.1
DYNA GRO	S39XT68	48.9		10.5
DYNA GRO	S41XS98	58.2	*	10.1
GREAT LAKES HYBRIDS	3979NRX	52.3		9.7
GREAT LAKES HYBRIDS	3777NSRX	55.3	*	9.3
GOLDEN HARVEST (SYNGENTA)	3985X	49.9		9.2
GOLDEN HARVEST (SYNGENTA)	4307X	63.3	*	13.3
LG SEEDS	C3985 RX	56.8	*	10.5
LG SEEDS	C4227 RX	53.8		10.1
PIONEER	36T36X	52.3		9.6
PIONEER	40T36X	50.2		9.9
POWER PLUSTM (Burrus Seeds)	36A1XTM*	54.8		8.9
STEWART SEED	4116R2X	50.6		10.3
STEWART SEED	3928R2X	47.0		9.3
	PLOT AVERAGE:	51.5		10.8

LSD for YIELD is 8.26 bushels @ alpha .05; Coefficient of variation: 11.3 Any pairwise comparison is appropriate.

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

LSD is "Least Significant Difference"

PLOT INFORMATION

Planted: May 22, 2017

Planting Population: 120,000

Row Width: 18"

Harvested: October 1, 2017

Lodging: 0-5 scale (none-flat)

4 replications of each variety

Pesticide Information:

5/22: Optill herbicide; 2.0 oz./A.

5/22: Zidua herbicide: 2.0 oz./A.

6/11: Cleanse grass herbicide; 16 oz./A.

6/26: Glyphosate 41%; 32 oz./A.

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2017 POSEY COUNTY SOYBEAN TEST PLOT RESULTS

LIBERTY SOYBEAN VARIETIES

(SORTED BY COMPANY NAME)

COMPANY NAME	VARIETY NUMBER	AVG. YIELD		AVG. % MOIST.	LODGING
BECK'S HYBRIDS	366L4	51.9	*	9.7	0
BECK'S HYBRIDS	394L4	50.8	*	9.8	0
DYNA GRO	S 38LL54	52.6	*	9.8	0
DYNA GRO	S 40LL35	54.2	*	10.1	0
HOBLIT (Burrus Seeds)	384LL	57.0	*	9.8	0
HOBLIT (Burrus Seeds)	418LL	56.4	*	10.2	0
LG SEEDS	C4100LL	47.8		10.1	0
LG SEEDS	C3904LL	51.7	*	10.0	0
PIONEER	37T09L	50.3	*	9.8	0
PIONEER	41T79L	47.7		10.4	0
PLOT AVERAGE:		52.0		10.0	0.0

LSD for YIELD is 7.6 bushels @ alpha .10; Coefficient of variation: N/A Any pairwise comparison is appropriate.

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

LSD is "Least Significant Difference"

PLOT INFORMATION

Planted: May 22, 2017

Planting Population: 120,000

Row Width: 18"

Harvested:

Lodging: 0-5 scale (none-flat)

4 replications of each variety

Pesticide Information:

5/22: Optill herbicide; 2.0 oz./A.

5/22: Zidua herbicide: 2.0 oz./A.

6/11: Cleanse grass herbicide; 16 oz./A.

6/26: Glyphosate 41%; 32 oz./A.

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2017 POSEY COUNTY SOYBEAN TEST PLOT RESULTS

LIBERTY SOYBEAN VARIETIES

(SORTED BY YIELD)

COMPANY NAME	VARIETY NUMBER	AVG. YIELD		AVG. % MOIST.	LODGING
HOBLIT (Burrus Seeds)	384LL	57.0	*	9.8	0
HOBLIT (Burrus Seeds)	418LL	56.4	*	10.2	0
DYNA GRO	S 40LL35	54.2	*	10.1	0
DYNA GRO	S 38LL54	52.6	*	9.8	0
BECK'S HYBRIDS	366L4	51.9	*	9.7	0
LG SEEDS	C3904LL	51.7	*	10.0	0
BECK'S HYBRIDS	394L4	50.8	*	9.8	0
PIONEER	37T09L	50.3	*	9.8	0
LG SEEDS	C4100LL	47.8		10.1	0
PIONEER	41T79L	47.7		10.4	0
PLOT AVERAGE:		52.0		10.0	0.0

LSD for YIELD is 7.28 bushels @ alpha .05; Coefficient of variation: 9.6

Any pairwise comparison is appropriate.

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

LSD is "Least Significant Difference"

PLOT INFORMATION

Planted: May 22, 2017

Planting Population: 120,000

Row Width: 18"

Harvested: October 2, 2017

Lodging: 0-5 scale (none-flat)

4 replications of each variety

Pesticide Information:

5/22: Optill herbicide; 2.0 oz./A.

5/22: Zidua herbicide: 2.0 oz./A.

6/11: Cleanse grass herbicide; 16 oz./A.

6/26: Glyphosate 41%; 32 oz./A.

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2017 POSEY COUNTY SOYBEAN TEST PLOT RESULTS

NON-GMO SOYBEAN VARIETIES

(SORTED BY COMPANY NAME)

COMPANY NAME	VARIETY NUMBER	AVG. YIELD		AVG. % MOIST.	LODGING
ASGROW	A3956	59.9	*	9.4	0
BECKS HYBRIDS	380	57.7	*	9.4	0
BECKS HYBRIDS	431	64.7	*	9.8	0
DYNA GRO	S 3805N	63.0	*	9.5	0
PLOT AVERAGE:		61.3		9.5	0.0

LSD for YIELD is 10.93 bushels @ alpha .05; Coefficient of variation: 11.1 Any pairwise comparison is appropriate.

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

LSD is "Least Significant Difference"

PLOT INFORMATION

Planted: May 22, 2017

Planting Population: 120,000

Row Width: 18"

Harvested: September 30, 2017

Lodging: 0-5 scale (none-flat)

4 replications of each variety

Pesticide Information:

5/22: Optill herbicide; 2.0 oz./A.
5/22: Zidua herbicide: 2.0 oz./A.
6/11: Cleanse grass herbicide; 16 oz./A.

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NON-GMO SOYBEAN VARIETIES

(SORTED BY YIELD)

COMPANY NAME	VARIETY NUMBER	AVG. YIELD		AVG. % MOIST.	LODGING
BECKS HYBRIDS	431	64.7	*	9.8	0
DYNA GRO	S 3805N	63.0	*	9.5	0
ASGROW	A3956	59.9	*	9.4	0
BECKS HYBRIDS	380	57.7	*	9.4	0
PLOT AVERAGE:		61.3		9.5	0.0

LSD for YIELD is 10.93 bushels @ alpha .05; Coefficient of variation: 11.1 Any pairwise comparison is appropriate.

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