

2021 University of Minnesota Soybean Variety Trial

North Central Research & Outreach Center - Grand Rapids, MN

Testing Procedure

Seed Companies select their entries and relative maturity (RM) is provided by the company. The facilitators of this trial could also choose entries for inclusion in this trial.

Presentation of Data

Reported yields are adjusted to 13% grain moisture.

Identification of Traits

Genetic modifications of entries will be identified using generic terms to describe the trait without identifying the specific event for genetic modification. Identifiers will be: EX = Extend herbicide technology, E3 = Enlist herbicide technology, GLY = glyphosate herbicide resistance, LL = Liberty herbicide resistance

Least Significant Difference

The LSD (Least Significant Difference) figures at the bottom of the yield columns in the table are statistical measures of variability in the trial. These values may be used to determine whether the difference between any two entries is likely to be a real difference or just natural variation. If the yield difference between two entries is equal to or greater than the LSD, then one can be confident that the two entries probably differ in yield potential. We show LSD values with a 0.10 alpha level, which means that when two entries differ in yield by the LSD value or more one can be 90% confident that the two entries differ in yield potential.

Companies entered in the 2021 NCROC soybean trial

BASF/Credenz www.agriculture.basf.us/crop-protection/products/seeds

Bayer/Asgrow www.dekalbasgrowdeltapine.com

Pioneer Seed www.pioneer.com

REA Hybrids www.rea-hybrids.com

Syngenta/NK Seeds www.syngenta-us.com/nk/seeds

Xiatavo www.xitavosoybeanseed.com

2021 University of Minnesota Soybean Variety Trial Results
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Source	Entry	Traits	Relative Maturity	Yield		
				Bushels/A @13%	Harvest % Moisture	Test Weight #/Bushel
Credenz	CZ0590GTLL	Gly, LL	0.5	50.2	17.0	55.7
Pioneer	P0192E	Gly, LL, E3	0.1	46.9	17.9	55.5
Credenz	CZ0419GTLL	GLY, LL	0.4	45.6	16.5	55.6
Xitavo	XO0311E	E3, LL	0.3	44.8	17.0	54.2
Xitavo	XO0521E	E3, LL	0.5	43.3	16.7	54.3
NK Seeds	NK02-M4XF	XtendFlex	0.2	41.2	19.1	53.0
Xitavo	XO0101E	E3, LL	0.1	40.5	16.5	54.4
Pioneer	P03T87E	Gly, LL, E3	0.3	40.4	17.6	54.8
NK Seeds	S05-N5X	Xtend	0.5	39.8	16.9	55.2
Credenz	CZ0661GTLL	Gly, LL	0.6	39.3	17.1	56.5
Stine	01EA63	E3	0.1	35.9	16.2	53.7
NK Seeds	NK04-G8E3	Enlist	0.4	35.7	17.4	54.4
REA Hybrids	RX00912	Gly, Xtend	0.09	35.4	16.5	54.8
NK Seeds	S04-Q7X	Xtend	0.4	35.3	16.7	55.0
Asgrow	AG02X8	Gly, Xtend	0.2	35.0	16.1	53.9
NK Seeds	NK05-W3XF	XtendFlex	0.5	34.5	17.5	55.7
REA Hybrids	R0112XF	Gly, LL, Xtend	0.1	30.7	16.9	55.2
NK Seeds	NK009-T1XF	XtendFlex	0.09	29.4	18.3	55.0
Asgrow	AG005X8	Gly, Xtend	0.05	28.3	17.0	53.4
REA Hybrids	RX0810	Gly, Xtend	0.08	28.0	17.1	53.8
Averages				38.0	17.1	54.7
LSD(0.10)				6.5	0.4	0.4