

2021 Soybean Variety Trial at Garrison

Cooperators: Brian and Roger Bendickson, Garrison

Company/Brand	Variety	Herbicide System	Maturity Group	IDC Rating	Plant Height	Protein %	Oil %	Test Weight lbs/bu	Yield -----			
									2019	2020	2021*	2 yr*
REA Hybrids	RX00912	RR2X	00.9	3.1	12	34.4	15.3	54.0	--	--	10.6	--
REA Hybrids	R0112XF	XtendFlex	0.1	2.4	16	34.9	15.3	52.5	--	--	11.1	--
REA Hybrids	RX0411	RR2X	0.4	2.6	14	34.8	15.1	53.3	--	33.7	13.6	--
Golden Harvest	GH0272XF	XtendFlex	0.2	2.6	17	33.6	16.6	52.0	--	--	15.4	--
Golden Harvest	GH0325E3	Enlist E3	0.3	1.9	12	34.4	15.8	52.9	--	--	12.3	--
LG Seeds	LGS0111RX	Xtend	0.1	2.7	15	35.6	15.7	52.3	53.2	37.9	13.7	45.5
LG Seeds	LGS0400RX	Xtend	0.4	2.3	14	34.3	15.4	53.3	--	34.9	16.3	--
Integra	50309N	Xtend	0.3	1.4	14	33.4	15.6	53.7	51.0	32.3	16.0	41.6
Integra	40201N	Enlist E3	0.2	3.3	12	34.6	15.9	51.4	--	37.2	15.4	--
Integra	40300N	Enlist E3	0.3	2.3	13	35.4	15.5	52.6	--	--	13.1	--
Integra	70212 XF	XtendFlex	0.2	2.5	17	34.5	15.8	53.1	--	--	13.1	--
Legacy Seeds	LS-0239 RR2X	RR2X	0.2	1.1	13	34.8	14.8	54.2	--	35.7	18.2	--
Legacy Seeds	LS-0320N E	Enlist E3	0.3	2.7	12	35.1	15.0	51.7	--	38.9	10.5	--
Legacy Seeds	LS-0429 E	Enlist E3	0.4	1.8	14	35.7	15.8	51.4	--	35.8	12.0	--
Legacy Seeds	LS042-21E	Enlist E3	0.4	2.1	12	34.1	16.3	50.8	--	--	14.7	--
Dyna-Gro	S03XT29	Xtend	0.3	1.2	13	34.8	15.0	53.8	51.3	35.9	17.5	43.6
Dyna-Gro	S04XF32	XtendFlex	0.4	2.2	15	34.5	15.8	51.2	--	--	10.7	--
MS Technologies	XO 0101E	Enlist E3	0.1	--	12	36.3	15.3	52.4	--	--	11.1	--
MS Technologies	XO 0311E	Enlist E3	0.3	--	14	34.7	15.3	51.6	--	--	12.4	--
BASF	CZ 0419 GTLL	LibertyLink	0.4	--	13	36.9	15.7	54.0	--	--	14.4	--
MS Technologies	XO 0521E	Enlist E3	0.5	--	12	38.0	14.7	51.1	--	--	11.2	--
NK SEEDS	NK009-T1XF	XtendFlex	00.9	2.8	12	35.1	15.6	51.5	--	--	11.6	--
NK SEEDS	NK02-M4XF	XtendFlex	0.2	3.1	14	34.8	15.8	50.5	--	--	12.8	--
NK SEEDS	S02-F9X	Xtend	0.2	3.2	13	35.2	14.8	53.7	--	38.4	13.7	--
NK SEEDS	NK04-G8E3	Enlist E3	0.4	1.3	14	36.9	15.0	52.0	--	--	9.9	--
NK SEEDS	S04-Q7X	Xtend	0.4	1.3	14	36.1	15.1	51.3	--	29.1	10.9	--
NK SEEDS	S05-N5X	Xtend	0.5	2.8	13	35.3	14.9	51.6	--	37.1	11.1	--
NK SEEDS	NK05-W3XF	XtendFlex	0.5	2.7	14	36.5	14.6	52.7	--	--	13.3	--
Proseed	XT70-09N	RR2X	00.9	2.5	15	33.8	15.6	53.6	--	--	10.1	--
Proseed	XT80-20N	RR2X	0.2	1.1	14	35.0	14.7	54.0	53.7	32.7	14.7	43.2
Proseed	XT60-40N	RR2X	0.4	3.0	13	36.1	15.4	52.2	--	33.3	14.6	--
Proseed	XT20-40	RR2X	0.4	2.3	13	34.9	15.7	52.6	--	--	14.2	--
NDSU	ND17009GT	GT	00.9	3.8	14	36.7	15.8	53.7	33.4	33.5	14.0	33.4
NDSU	ND21008GT20	GT	00.8	1.2	15	35.1	15.6	54.1	--	--	12.8	--
NDSU	ND17-19726	GT	0.1	1.9	14	36.0	15.7	52.9	--	--	14.6	--
NDSU	ND17-26003	GT	00.6	3.0	16	33.6	17.1	52.7	--	--	11.4	--
Trial Mean				2.6	14	35.2	15.5	52.6	46.5	34.8	13.1	--
C.V.%				19.1	13.7	2.1	3.7	1.4	9.5	10.9	23.1	--
LSD 5%				0.7	3	1.2	0.9	1.2	6.2	NS	NS	--
LSD 10%				0.6	3	1.0	0.8	1.0	5.2	4.4	4.1	--

^a IDC rating = Iron deficiency chlorosis rating: 1 - green, 3 - yellow, 5 - dead***The 2021 trial sustained extreme drought. Data from this trial may be unreliable and should be viewed with caution. 2 year average yields do not include 2021 data.**

NS = no statistical difference between varieties.

Planting Date: May 17

Planting Rate: 165,000 PLS/A

Row Spacing: Solid Seeded (7" rows)

Harvest Date: October 6

Previous Crop: 2018 = soybean, 2019 = spring wheat, 2020 = soybean

Soil Type: Williams Bowbells loam

Tillage: No-till