

2021 Soybean Variety Trial at Rugby

Cooperators: Dave Teigen and the Pierce County Crop Improvement Association

Company/Brand	Variety	Herbicide System	Maturity Group	IDC Rating	Plant Height	Protein %	Oil %	Test Weight	Yield -----			
									2019	2020	2021*	2 yr*
				1-5 ^a	inches	%	%	lbs/bu	bushels/acre -----			
REA Hybrids	RX00912	RR2X	00.9	3.1	17	32.9	17.2	53.1	--	--	12.0	--
REA Hybrids	R0112XF	XtendFlex	0.1	2.4	20	33.1	17.5	52.7	--	--	17.4	--
Golden Harvest	GH00833E3	Enlist E3	00.8	1.8	17	32.4	17.1	53.1	--	--	14.0	--
Golden Harvest	GH00982XF	XtendFlex	00.9	3.1	15	33.3	17.3	53.0	--	--	16.1	--
Golden Harvest	GH0272XF	XtendFlex	0.2	2.6	16	31.6	18.1	52.0	--	--	18.5	--
LG Seeds	LGS00838XF	XtendFlex	00.8	3.2	16	32.8	17.4	53.1	--	--	12.3	--
LG Seeds	LGS0111RX	Xtend	0.1	2.7	19	33.6	17.0	52.7	45.7	36.2	20.8	41.0
LG Seeds	LGS0400RX	Xtend	0.4	2.3	17	34.5	16.2	49.0	--	37.3	21.2	--
Integra	50309N	Xtend	0.3	1.4	15	32.5	16.4	52.7	40.7	34.3	23.2	37.5
Integra	40201N	Enlist E3	0.2	3.3	17	33.9	17.0	50.6	--	38.9	18.6	--
Integra	50081N	Xtend	00.8	2.6	16	33.7	17.0	53.2	--	--	13.1	--
Legacy Seeds	LS-0239 RR2X	RR2X	0.2	1.1	17	32.4	16.5	52.4	40.5	35.1	22.8	37.8
Legacy Seeds	LS-0320N E	Enlist E3	0.3	2.7	17	33.0	16.7	52.8	--	36.8	15.6	--
Legacy Seeds	LS-0429 E	Enlist E3	0.4	1.8	19	35.1	16.6	50.8	40.9	30.9	21.8	35.9
Legacy Seeds	LS042-21E	Enlist E3	0.4	2.1	17	33.1	16.8	49.7	--	--	22.9	--
Legacy Seeds	LS044-21 XF	XtendFlex	0.4	1.6	22	34.1	16.5	48.2	--	--	23.9	--
Thunder Seed	SB81006	Xtend	00.6	2.7	18	31.0	17.6	53.3	--	37.5	15.1	--
Thunder Seed	SB88007N	Xtend	00.7	2.2	17	32.6	17.4	52.9	--	--	16.0	--
Thunder Seed	TX82008N	XtendFlex	00.8	3.7	17	32.0	17.5	53.3	--	--	19.1	--
Thunder Seed	SB8001	Xtend	0.1	2.7	18	33.8	17.1	52.1	--	36.5	18.7	--
MS Technologies	XO 0101E	Enlist E3	0.1	.	18	33.3	16.6	52.4	--	--	19.0	--
MS Technologies	XO 0311E	Enlist E3	0.3	.	16	33.2	16.6	52.9	--	--	19.1	--
NK Seeds	S006-R7X	Xtend	00.6	3.0	15	32.9	17.0	53.5	--	39.2	12.4	--
NK Seeds	S008-E3	Enlist E3	00.8	1.5	15	32.0	17.1	53.4	--	--	15.0	--
NK Seeds	NK009-T1XF	XtendFlex	00.9	2.8	14	32.5	17.6	53.1	--	--	15.7	--
NK Seeds	NK02-M4XF	XtendFlex	0.2	3.1	16	32.0	17.6	52.3	--	--	17.3	--
NK Seeds	S02-F9X	Xtend	0.2	3.2	15	34.2	16.3	51.3	--	36.8	14.9	--
Stine Seed	002EE06	Enlist E3	00.6	.	14	32.8	16.8	53.0	--	--	8.7	--
Stine Seed	003EB62	Enlist E3	00.7	.	15	33.1	17.1	54.0	--	--	12.3	--
Stine Seed	01EE03	Enlist E3	00.9	.	17	33.4	17.1	50.4	--	--	18.2	--
Stine Seed	01EA63	Enlist E3	00.9	.	15	34.1	16.3	52.0	--	--	12.6	--
Proseed	XT70-09N	RR2X	00.9	2.5	15	32.8	17.1	53.1	--	35.9	12.9	--
Proseed	XT80-20N	RR2X	0.2	1.1	17	32.0	16.7	52.4	--	--	21.7	--
Proseed	XT60-40N	RR2X	0.4	3.0	15	34.8	16.6	49.7	--	--	15.1	--
NDSU	ND17009GT	GT	00.9	3.8	14	35.8	16.7	52.6	35.3	29.8	11.6	32.5
NDSU	ND21008GT20	GT	00.8	1.2	14	34.1	16.8	53.8	--	--	11.1	--
Trial Mean				2.6	16	33.2	17.0	52.2	39.4	35.1	16.3	--
C.V.%				19.1	10.8	2.3	1.9	2.3	9.1	7.8	22.9	--
LSD 5%				0.7	3	1.2	0.5	1.9	5.0	3.9	6.1	--
LSD 10%				0.6	2	1.0	0.4	1.6	4.2	3.3	5.1	--

^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.**

Planting Date: May 19

Harvest Date: September 23

Planting Rate: 165,000 PLS/A

Row Spacing: Solid Seeded (7" rows)

Soil Type: Gardena silt loam

Tillage: Minimum Till

Previous Crop: 2018 = soybean, 2019 = barley, 2020 = soybean

Notes: Protein, oil, test weight and yield are adjusted to 13% moisture.