

2021 Soybean Variety Trial at Mohall

Cooperators: Dean Schoenberg and the Renville/Bottineau Ag Improvement Assoc.

Company/Brand	Variety	Herbicide System	Maturity Group	IDC Rating	Plant Height	Protein %	Oil %	Test Weight lbs/bu	Yield ----- bushels/acre -----				
									2019	2020	2021	2 yr	3 yr
REA Hybrids	RX00912	RR2X	00.9	3.1	30	31.5	16.7	57.9	--	--	43.7	--	--
REA Hybrids	R0112XF	XtendFlex	0.1	2.4	31	33.8	16.2	55.7	--	--	41.5	--	--
Golden Harvest	GH00982XF	XtendFlex	00.9	3.1	27	31.6	16.9	58.2	--	--	40.6	--	--
Golden Harvest	GH0272XF	XtendFlex	0.2	2.6	30	31.3	16.9	58.1	--	--	44.1	--	--
LG Seeds	LGS00838XF	XtendFlex	00.8	3.2	29	32.2	16.3	58.0	--	--	37.0	--	--
LG Seeds	LGS0111RX	Xtend	0.1	2.7	28	33.3	16.7	56.8	56.7	36.7	46.1	41.4	46.5
Integra	40201N	Enlist E3	0.2	3.3	22	32.3	16.3	56.0	--	--	43.2	--	--
Integra	50081N	Xtend	00.8	2.6	26	32.3	16.6	58.6	--	45.2	37.5	41.3	--
Integra	40089N	Enlist E3	00.8	2.0	28	32.1	16.5	58.4	39.1	41.2	37.0	39.1	39.1
Integra	70082N XF	XtendFlex	00.8	3.5	27	32.5	16.6	57.9	--	--	38.3	--	--
Legacy Seeds	LS-00930 RR2X	RR2X	00.9	2.6	23	32.6	16.5	57.5	--	--	37.1	--	--
Legacy Seeds	LS012-21E	Enlist E3	0.1	2.3	26	32.9	16.5	53.8	--	--	44.3	--	--
Legacy Seeds	LS012-20E	Enlist E3	0.1	2.5	23	32.6	16.0	57.0	--	--	36.7	--	--
Legacy Seeds	LS-0239 RR2X	RR2X	0.2	1.1	24	30.8	16.4	59.0	--	--	34.3	--	--
Legacy Seeds	LS-0320N E	Enlist E3	0.3	2.7	25	32.2	16.2	57.8	--	--	39.1	--	--
MS Technologies	XO 0101E	Enlist E3	0.1	--	24	33.2	15.9	57.0	--	--	36.2	--	--
MS Technologies	XO 0311E	Enlist E3	0.3	--	23	31.7	16.2	57.7	--	--	32.1	--	--
NK SEEDS	S006-R7X	Xtend	00.6	3.0	27	31.5	17.3	58.6	--	50.3	28.8	39.5	--
NK SEEDS	S008-E3	Enlist E3	00.8	1.5	26	31.2	16.6	58.4	--	--	34.2	--	--
NK SEEDS	NK009-T1XF	XtendFlex	00.9	2.8	26	32.6	16.4	58.0	--	--	38.5	--	--
Dairyland Seed	DSR-0119E	Enlist E3	0.1	2.3	28	33.3	17.0	60.2	--	35.3	30.4	32.8	--
Stine Seed	002EE06	Enlist E3	00.6	--	25	31.9	16.1	58.7	--	--	26.7	--	--
Stine Seed	003EB62	Enlist E3	00.7	--	29	30.6	16.9	58.7	--	--	33.0	--	--
Stine Seed	01EE03	Enlist E3	00.9	--	25	32.5	16.3	55.6	--	--	41.9	--	--
Stine Seed	01EA63	Enlist E3	00.9	--	23	31.5	16.6	58.0	--	--	30.7	--	--
Proseed	XT70-09N	Xtend	00.9	2.5	28	30.7	17.4	58.3	--	39.3	32.4	35.8	--
Proseed	XT20-07	Xtend	00.7	3.1	28	30.6	17.0	58.8	--	38.6	32.2	35.4	--
Proseed	EL80-093N	Enlist E3	00.9	2.5	25	31.3	16.7	58.8	--	--	29.9	--	--

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2021 Soybean Variety Trial at Mohall Continued

Company/Brand	Variety	Herbicide System	Maturity Group	IDC Rating	Plant Height	Protein	Oil	Test Weight	Yield					
									2019	2020	2021	2 yr	3 yr	
				1-5 ^a	inches	%	%	lbs/bu	bushels/acre					
Hefty	H008x8	Xtend	00.8	--	28	30.2	17.6	58.2	--	--	28.9	--	--	
Hefty	H009x7	Xtend	00.9	--	27	32.3	15.9	58.8	--	--	29.7	--	--	
Hefty	H01x0	Xtend	0.1	--	22	32.5	16.5	57.7	--	--	32.3	--	--	
Hefty	H006E	Enlist E3	00.6	--	22	31.8	16.1	59.0	--	--	20.3	--	--	
Hefty	H008E1	Enlist E3	00.8	--	28	31.0	16.8	58.8	--	--	34.2	--	--	
Hefty	H009E9	Enlist E3	00.9	--	24	31.5	16.4	57.1	--	--	34.8	--	--	
Hefty	H02E1	Enlist E3	0.2	--	25	32.4	16.6	53.3	--	--	32.7	--	--	
Hefty	H009XF	XtendFlex	00.9	--	27	29.8	18.0	58.9	--	--	26.0	--	--	
Zinesto	Z0102E	Enlist E3	0.1	--	25	32.5	16.2	55.7	--	--	41.9	--	--	
Zinesto	Z0100E	Enlist E3	0.1	--	21	31.5	16.3	57.5	--	--	28.6	--	--	
Croplan	RX00847	Xtend	00.8	--	28	30.2	17.6	58.8	--	--	29.0	--	--	
Croplan	RX00926	Xtend	00.9	--	25	31.0	16.7	58.7	--	--	29.8	--	--	
NDSU	ND17009GT	GT	00.9	3.8	27	33.6	16.7	60.4	33.7	36.9	31.3	34.1	34.0	
NDSU	ND21008GT20	GT	00.8	1.2	26	32.5	16.5	59.3	--	--	29.2	--	--	
Trial Mean					2.6	26	31.8	16.6	57.9	40.1	38.1	34.4	--	--
C.V.%					19.1	6.8	3.3	3.0	1.1	14.0	5.5	8.8	--	--
LSD 5%					0.7	3	1.7	0.8	1.1	7.9	3.0	4.9	--	--
LSD 10%					0.6	2	1.4	0.7	0.9	6.6	2.5	4.1	--	--

^a IDC rating = Iron deficiency chlorosis rating: 1 - green, 3 - yellow, 5 - dead

Planting Date: May 18

Harvest Date: September 23

Planting Rate: 165,000 PLS/A

Row Spacing: Solid Seeded (7" rows)

Soil Type: Barnes loam

Tillage: Minimum Till

Previous Crop: 2018 = canola, 2019 = durum, 2020 = canola

Note: The 2021 trial sustained moderate drought.