

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 -----				
									2017	2018	2019	2 yr	3 yr
REA Hybrids	RX00749	XT	00.7	1.8	23	32.4	15.1	57.6	--	22.9	39.5	31.2	--
REA Hybrids	RX00810	XT	00.8	2.4	21	32.9	15.6	56.8	--	--	52.3	--	--
REA Hybrids	RX0330	XT	0.3	1.9	26	34.2	15.6	51.5	--	--	38.6	--	--
LG Seeds	LGS00663RX	XT	00.6	2.1	20	32.3	15.1	58.9	--	26.3	36.8	31.6	--
LG Seeds	LGS00899RX	XT	00.8	2.3	25	32.7	15.8	57.0	--	--	45.3	--	--
LG Seeds	LGS0111RX	XT	0.1	2.6	26	32.4	15.7	55.5	--	31.4	56.7	44.1	--
Integra	50060N	XT	00.6	--	27	32.6	14.9	56.7	--	--	47.4	--	--
Integra	40089 E3	EN	00.8	1.9	25	31.7	14.3	57.0	--	--	39.1	--	--
Integra	20097 R2Y	RR	00.9	2.7	25	33.2	14.7	57.1	39.8	28.7	43.7	36.2	37.4
Integra	40129 E3	EN	0.1	1.4	23	31.0	15.2	54.0	--	--	35.7	--	--
Integra	50001 R2X	XT	00.1	2.5	24	32.4	15.8	54.5	--	--	40.9	--	--
Integra	40209 E3	EN	0.2	2.3	25	33.2	13.2	55.8	--	--	37.3	--	--
Proseed	XT 60-09	XT	00.9	2.2	27	31.9	15.7	57.7	--	--	44.1	--	--
Proseed	EL 80-093	EN	00.9	2.2	25	31.7	14.7	56.4	--	--	45.7	--	--
Proseed	50-10	RR	0.1	2.9	26	32.8	15.0	58.0	--	--	42.1	--	--
Proseed	XT 80-20	XT	0.2	1.6	23	31.4	15.1	57.1	--	--	37.7	--	--
Peterson Farms	18X008	XT	00.8	2.3	25	32.5	15.8	57.6	--	--	40.9	--	--
Peterson Farms	19EN008	EN	00.8	1.6	25	32.7	14.3	55.7	--	--	38.8	--	--
Peterson Farms	20X01	XT	0.1	3.2	23	32.1	15.7	56.1	--	--	38.9	--	--
P3 Genetics	2002E	EN	0.2	--	25	33.2	13.7	55.3	--	--	38.7	--	--
NorthStar	NS 60065NXR2	XT	00.6	2.2	24	32.0	15.3	57.7	--	--	35.9	--	--
NorthStar	NS 90084NE3	EN	00.7	1.8	23	32.1	14.4	56.2	--	--	36.7	--	--
NorthStar	NS 90094E3	EN	00.9	1.4	22	32.1	14.5	54.8	--	--	41.5	--	--
Legacy Seeds	LS-00639N RR2X	XT	00.6	2.3	24	32.5	15.3	57.9	--	--	41.6	--	--
Legacy Seeds	LS-00930 RR2X	XT	00.9	2.6	22	32.4	15.7	57.1	--	--	41.6	--	--
Legacy Seeds	LS-0239N RR2X	XT	0.2	1.7	25	32.1	14.9	56.6	--	--	42.5	--	--
Dyna-Gro	S005XT38	XT	00.5	2.1	25	31.5	15.5	58.0	39.8	29.3	39.8	34.6	36.3
Dyna-Gro	S007XT27	XT	00.7	2.2	23	32.5	14.9	58.9	--	29.7	39.5	34.6	--
Dyna-Gro	S009XT68	XT	00.9	2.3	25	32.2	14.9	58.0	--	--	32.4	--	--
Thunder Seed	SB89006N	XT	00.6	--	23	31.9	15.1	56.9	--	29.3	33.0	31.1	--
Thunder Seed	SB88007N	XT	00.7	2.2	25	32.3	16.0	57.8	42.4	28.6	41.4	35.0	37.5
Thunder Seed	ASTRO R2Y	RR	00.8	1.8	25	33.7	13.8	57.9	39.7	35.9	37.3	36.6	37.6

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Soybean Variety Trial at Mohall—Continued

Company/Brand	Variety	Herbicide System	Maturity Group	IDC Rating	Plant Height	Protein	Oil	Test Weight	Yield				
									2017	2018	2019	2 yr	3 yr
				1-5 ^a	inches	%	%	lbs/bu	bushels/acre				
Hefty	H006x0	XT	00.6	--	22	32.5	14.9	57.7	--	--	37.8	--	--
Hefty	H007x7	XT	00.7	--	21	32.7	15.1	59.0	--	--	37.5	--	--
Hefty	H008x8	XT	00.8	--	25	32.1	15.9	56.4	--	23.2	36.4	29.8	--
Hefty	H009x7	XT	00.9	--	28	32.7	14.8	56.8	--	--	42.0	--	--
Hefty	H01x0	XT	0.1	2.8	25	33.5	15.7	56.3	--	--	48.1	--	--
Hefty	H01E9	EN	0.1	2.2	23	33.6	13.3	55.9	--	--	35.7	--	--
Hefty	H02x7	XT	0.2	--	29	30.6	16.2	55.3	--	28.3	40.1	34.2	--
Hefty	H02E0	EN	0.2	1.9	24	32.1	13.1	54.9	--	--	42.6	--	--
Hefty	H03x7	XT	0.3	--	25	32.1	15.4	55.7	54.1	33.1	40.5	36.8	42.6
NDSU	ND18008GT	GT	00.7	2.8	24	32.8	15.5	58.0	29.3	25.3	31.8	28.6	28.8
NDSU	ND17009GT	GT	00.9	3.1	25	34.7	15.2	58.7	39.2	25.8	33.7	29.7	32.9
Trial Mean				2.4	24	32.5	15.0	56.8	38.9	27.5	40.1	--	--
C.V.%				22.6	5.3	2.8	3.3	1.4	8.5	11.4	14.0	--	--
LSD 5%				0.4	2	1.3	0.7	1.1	4.6	4.4	7.9	--	--
LSD 10%				0.3	2	1.1	0.6	0.9	3.8	3.7	6.6	--	--

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

Planting Date: May 23

Harvest Date: October 18

Planting Rate: 150,000 PLS/A

Row Spacing: Solid Seeded (7" rows)

Soil Type: Barnes loam

Tillage: Minimum Till

Previous Crop: 2016 & 2017 = durum, 2018 = canola

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