



SOYBEANS

Answer Plot[®]
 By WINFIELD UNITED
 YIELD REPORT 2023

2023 Regional Answer Plot Trial Summary

YIELD > Plot mean

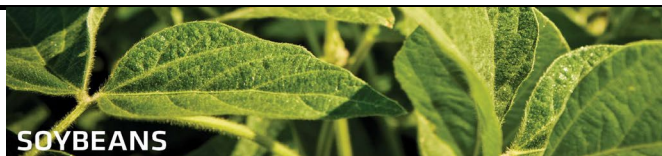
YIELD Greater than Mean of all Locations

Irrigated

SPT00	CROPLAN							Asgrow		Brevant			NK			Xitavo			Plot Mean	LSD (.10)
	CP00312X	CP00824E	CP00840XF	CP00842XF	CP00926X	CP00944XF	CP0124E	AG01XF3	AG02XF4	B0083EE	B0090EE	B019EE	NK008-P8XF	NK009-G7E3	NK02-H6E3	XO0094E	XO0234E	XO0311E		
Cando-ND	34	34	31	32	31	34	33	37	35	34	34	33	32	33	35	32	34	33	33.3	3.4
Hannaford-ND	60	52	61	57	63	63	64	70	60	69	63	61	66	59	50	54	53	55	60.1	4.2
Harvey-ND	52	50	55	50	58	56	54	57	60	52	52	55	60	55	55	55	54	57	54.7	3.9
Larimore-ND	65	71	74	65	66	76	74	80	79	71	72	76	75	70	71	63	74	74	71.7	5.1
Warren-MN	44	65	46	51	55	58	57	61	57	57	59	60	55	56	56	62	56	64	55.4	4.6
Washburn-ND	64	67	64	62	62	66	65	76	60	63	59	66	71	66	69	69	69	63	65.5	7.2
Overall Ave	53.3	56.4	55.2	52.8	55.7	59.0	57.9	63.2	58.5	57.7	56.5	58.5	59.7	56.3	56.0	55.9	56.7	57.4	56.8	
Overall % of Mean	94%	99%	97%	93%	98%	104%	102%	111%	103%	102%	99%	103%	105%	99%	99%	99%	100%	101%		

Notes

Warren had IDC and was a bit variable
 Hannaford had SWM pressure that impacted yield performance



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YIELD Greater than Mean of all Locations

Irrigated Location

SPT04	CROPLAN						Asgrow			Brevant		NK					Xitavo				P03T87E	Plot Mean	LSD (.10)		
	CP0124E	CP0242XF	CP0244XF	CP0320E	CP0440XF	CP0530E	CP0542XF	AG03XF2	AG04XF4	AG06XF3	B032EE	B053EE	NK03-J1XF	NK03-V5E3	NK05-W3XF	NK06-D9E3	NK06-P2XF	XO0311E	XO0554E	XO0602E				XO0731E	
Casselton-ND	63	60	66	64	64	61	63	59	61	55	62	61	61	64	63	71	55	62	67	66	66	66	50	61.8	6.7
Evansville-MN	58	58	54	55	58	54	63	53	60	52	57	66	59	57	64	59	54	56	55	55	60	60	60	57.9	5.2
GlenUllin-ND	70	62	65	63	66	69	67	72	69	69	66	67	64	69	71	74	65	68	74	72	69	70	68.6	5.0	
Hannaford-ND	58	53	60	58	52	51	48	55	61	59	55	48	53	50	52	45	42	57	57	57	47	59	53.0	4.3	
Harvey-ND	65	65	68	68	72	64	60	65	60	70	62	58	61	62	66	64	56	66	74	65	63	68	64.4	6.6	
Hazelton-ND	67	52	53	62	63	64	64	57	61	63	67	62	66	69	68	64	58	63	65	66	65	56	62.1	6.4	
Larimore-ND	65	60	65	70	66	74	65	59	61	67	69	57	62	59	62	71	58	63	68	70	69	68	65.7	6.8	
Wahpeton-ND	69	55	65	70	75	77	70	68	70	68	69	69	59	72	75	70	62	69	76	78	82	74	70.4	5.8	
Warren-MN	48	43	49	50	42	49	41	48	43	39	45	51	28	48	42	52	50	46	53	49	49	37	45.6	6.5	
Washburn-ND	68	64	65	75	71	63	65	78	68	64	65	63	68	62	65	81	65	68	69	74	68	74	67.3	7.7	
Overall Ave	63.1	57.1	60.9	63.5	62.9	62.6	60.5	61.3	61.4	60.4	61.7	60.1	58.1	61.2	62.9	65.0	56.5	61.7	65.8	65.2	63.8	61.6	61.6		
Overall % of Mean	102%	93%	99%	103%	102%	102%	98%	99%	100%	98%	100%	97%	94%	99%	102%	106%	92%	100%	107%	106%	104%	100%			
Non-disease/IDC	65.1	60.0	62.3	65.3	65.7	64.1	63.9	63.2	62.9	62.6	64.0	61.9	62.9	63.3	65.7	69.0	58.7	63.6	67.4	66.8	65.7	63.7	64.2		

Notes

- Warren had IDC and was a bit variable
- Hannaford had SWM pressure that impacted yield performance
- Mild PRR pressure present in Wahpeton location
- Tappen and Ulen did not meet data quality standards



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**2023 Regional Answer Plot Trial
Summary**

YIELD > Mean of all Locations

irrigated

YIELD Greater than Plot mean

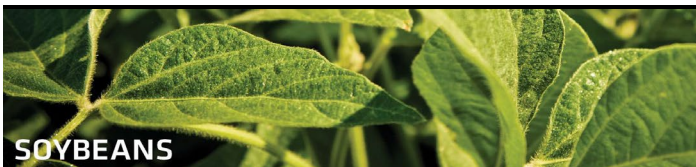
SPT08	CROPLAN			Asgrow			Brevant		NK				Xitavo	Pioneer			Plot Mean	LSD (.10)
	CP0740XF	CP0820E	CP0940XF	AG07XF4	AG09XF3	AG10XF4	B091EE	B112EE	NK07-B1XF	NK07-G5E3	NK09-B5XF	NK09-H7E3	XO1133E	P06T56E	P09T68E	P09T93E		
Belgrade-MN	77	79	N/A	74	69	76	74	77	73	71	73	71	69	68	76	67	71.9	7.4
Britton-SD	67	71	68	68	63	69	72	76	64	73	72	62	60	67	68	69	68.6	6.4
Casselton-ND	65	65	62	62	63	65	66	63	64	61	57	63	66	58	64	69	62.2	4.2
Evansville-MN	58	58	56	54	58	59	50	55	55	57	60	54	55	59	60	58	56.9	6.2
GlenUllin-ND	68	75	73	70	68	69	69	72	72	69	71	70	74	64	67	70	70.3	6.1
Hazelton-ND	65	68	63	65	62	59	71	67	65	59	62	71	66	55	58	71	64.8	6.9
Ulen-MN	76	76	73	74	73	73	73	77	75	72	68	70	73	67	71	72	72.8	4.9
Wahpeton-ND	73	73	74	69	77	69	70	73	74	70	74	67	70	71	70	73	71.8	6.5
Watertown-SD	49	50	47	49	49	50	50	49	48	49	47	45	51	44	51	49	48.7	3.0
Overall Ave	64.9	66.9	64.6	63.7	64.1	64.1	65.0	66.6	64.7	63.8	64.0	62.6	64.3	60.7	63.5	66.3	64.5	
Overall % of Mean	101%	104%	100%	99%	99%	99%	101%	103%	100%	99%	99%	97%	100%	94%	98%	103%		
ND Ave	68	70	68	66	68	66	69	69	69	65	66	68	69	62	65	71	67.3	
SD Ave	58	61	57	58	56	59	61	62	56	61	60	53	55	56	59	59	58.7	
MN Ave	70	71	N/A	67	67	69	66	70	68	67	67	65	65	65	69	66	67.2	
Yield Env <60	53	54	52	51	53	54	50	52	52	53	54	49	53	51	55	54	52.8	
Yield Env >60	70	72	N/A	69	68	69	70	72	70	68	68	68	68	64	68	70	68.9	

Notes

Belgrade was not included in overall average so CP0940xf could be included in the overall average.

CP0940 had variability issues in Belgrade so data was thrown out; likely due to planter issues.

Santiago and Tappen did not meet data quality standards



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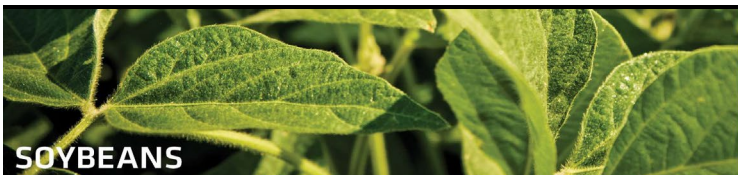
YIELD Greater than Mean of all Locations

Irrigated

SPT12	CROPLAN					Asgrow			Brevant			NK				Xitavo				Pioneer		Plot Mean	LSD (.10)
	CP1121E	CP1130E	CP1240XF	CP1242XF	CP1430E	AG11XF2	AG11XF4	AG12XF3	B112EE	B131EE	B152EE	NK11-A4E3	NK11-U2XF	NK14-C7XF	NK14-W6E3	XO1133E	XO1212E	XO1372E	XO1404E	P10A76X	P13T47E		
Belgrade-MN	64	67	67	70	66	72	69	75	74	76	67	74	73	66	60	67	63	68	66	62	68	67.6	7.2
Britton-SD	75	73	64	74	65	70	71	65	75	71	66	72	69	68	68	62	75	75	64	67	76	69.7	6.7
Casselton-ND	65	63	67	64	55	61	63	67	60	65	63	67	62	65	61	65	62	60	58	66	64	63.3	4.7
Evansville-MN	65	63	57	64	62	65	54	57	58	60	59	64	57	63	63	60	56	58	56	54	62	59.9	4.9
Hazelton-ND	61	66	66	66	69	75	63	63	52	62	62	64	63	72	75	67	50	60	62	58	71	63.2	7.2
LeSueur-MN	65	57	63	62	58	59	55	54	60	59	56	57	59	62	66	53	57	56	55	53	53	57.4	8.4
Minneota-MN	74	72	69	66	70	70	71	73	75	70	73	69	71	65	65	72	67	71	63	69	72	69.5	7.5
Murdock-MN	69	65	75	68	71	67	66	67	72	72	64	76	69	72	74	75	74	75	71	68	64	70.4	13.4
Santiago-MN	47	66	61	63	58	61	54	65	78	55	67	79	62	65	70	69	64	70	69	68	58	66.0	8.3
Tappen-ND	44	47	44	47	39	45	45	46	46	45	45	53	38	35	51	42	41	51	40	38	41	44.7	5.1
Wabasso-MN	58	67	58	59	62	58	62	65	67	63	65	62	65	71	62	57	66	66	60	68	59	62.7	5.4
Wahpeton-ND	64	67	67	65	73	69	70	72	65	66	66	69	73	66	72	68	70	70	65	63	66	67.8	4.8
Wanamingo-MN	87	81	83	79	88	81	79	79	86	84	83	86	86	85	84	82	86	92	80	77	91	82.7	5.5
Watertown-SD	55	53	51	55	53	58	58	58	58	53	53	55	54	58	59	57	57	57	51	58	48	54.7	4.5
Overall Ave*	63.6	64.7	63.8	64.5	63.4	65.1	62.8	64.6	65.9	64.4	63.5	67.5	64.2	65.2	66.4	63.9	63.3	66.3	61.4	62.1	63.7	64.3	
Overall % of Mean	99%	101%	99%	100%	99%	101%	98%	101%	102%	100%	99%	105%	100%	101%	103%	99%	98%	103%	95%	97%	99%		
MN Ave	69	67	67	67	68	67	65	67	70	69	67	70	69	69	68	67	67	69	64	65	67	67.3	
Dakotas Ave	61	62	60	62	59	63	62	62	59	60	59	63	60	61	64	60	59	62	57	58	61	60.6	
High SCN (>3K)	63	65	65	64	64	63	62	65	70	64	65	69	65	67	67	65	65	68	64	65	61	65.3	
Yield Env <60	57	55	54	57	53	57	53	54	55	54	53	57	52	54	60	53	53	55	51	51	51	54.2	
Yield Env >60	66	69	68	67	68	68	67	69	70	68	68	72	69	70	69	68	68	71	66	67	69	68.3	

Notes

Hitchcock did not meet data quality standards



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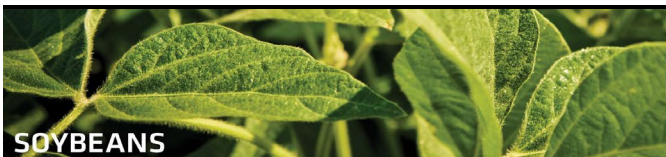
YIELD Greater than Mean of all Locations

Irrigated

YIELD Greater than Plot mean

SPT16	CROPLAN								Asgrow			Brevant			NK			Xitavo			Pioneer		Plot Mean	LSD (.10)
	CP1430E	CP1522E	CP1540XF	CP1620E	CP1623E	CP1720E	CP1721E	CP1742XF	AG15XF2	AG16XF3	AG18XF1	B152EE	B163EE	B173EE	NK15-G9E3S	NK16-Z6E3	NK18-J7E3	XO1404E	XO1632E	XO1822E	P16A84X	P17A87E		
Belgrade-MN	72	65	69	62	69	71	69	71	68	68	64	72	69	65	72	66	65	68	58	65	75	67	67.9	9.9
Britton-SD	64	73	67	61	59	69	67	69	67	71	76	64	68	73	72	74	74	67	69	73	75	63	68.0	8.2
LeSueur-MN	60	62	69	65	65	65	63	62	64	55	67	65	68	60	71	72	61	62	62	63	68	61	63.5	5.9
Murdock-MN	78	82	57	76	78	75	80	75	71	72	76	76	77	72	71	70	74	70	80	76	74	67	73.5	12.8
Sheldon-IA	82	90	87	83	82	91	84	83	85	81	86	87	82	86	86	74	80	83	73	80	86	84	83.3	7.2
Truman-MN	76	80	72	73	71	76	76	74	79	76	76	77	73	84	76	80	78	71	80	81	79	74	75.5	7.2
Wabasso-MN	56	59	69	63	63	57	55	60	69	62	65	58	67	64	68	65	65	66	65	63	66	63	63.3	6.5
Wanamingo-MN	75	85	82	72	79	84	85	79	79	78	81	83	75	83	85	87	73	76	88	88	84	82	80.6	4.1
Watertown-SD	58	59	58	52	56	62	57	61	60	62	58	51	62	58	59	56	54	60	61	64	61	59	58.0	4.9
Worthington-MN	79	82	73	72	73	80	79	75	78	76	76	73	73	78	77	71	66	73	88	83	74	69	75.2	6.1
Overall Ave	69.0	72.7	71.7	66.9	68.3	72.7	70.5	70.5	72.0	70.0	72.1	70.0	70.7	72.3	74.2	71.5	68.4	69.6	71.3	73.0	74.1	69.0	70.8	
Overall % of Mean	97%	103%	101%	95%	97%	103%	100%	100%	102%	99%	102%	99%	100%	102%	105%	101%	97%	98%	101%	103%	105%	97%		
SD Ave	61	66	63	57	57	66	62	65	64	66	67	57	65	65	66	65	64	64	65	68	68	61	63.2	
MN Ave	70	72	72	68	70	72	71	70	73	69	72	71	71	72	75	73	68	69	73	74	74	69	71.2	
High SCN (>3K)	67	71	67	69	69	68	68	68	71	66	71	69	71	70	72	72	70	68	71	71	72	66	69.3	
Yield Env <70 bu	62	63	66	61	62	65	62	65	65	64	66	62	67	64	69	67	64	65	63	65	69	63	64.3	
Yield Env >70 bu	79	86	81	75	78	85	83	79	81	79	81	81	77	82	83	77	73	77	83	83	81	78	79.9	

Notes
 Murdock had high variability from IDC in parts of the plot so it is not included in overall averages.
 High SCN locations are Murdock, Lesueur, Truman, and Wabasso
 Hitchcock, Lake Vermillion, Minneota, and Santiago did not mee data quality standards



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Irrigated Location

SPT20	CROPLAN									Asgrow				Brevant			NK			Xitavo			Pioneer			Plot Mean	LSD (.10)
	CP1742XF	CP1840XF	CP1923E	CP1924E	CP1930E	CP2024E	CP2030E	CP2054XF	CP2122E	AG18XF1	AG19XF3	AG20XF4	AG21XF2	B202EE	B213EE	B243EE	NK19-T8E3S	NK21-C2E3	NK22-C4E3	XO2181E	XO2282E	XO2323E	P18A73E	P19A66E	P21A53E		
Hitchcock-SD	54	63	54	53	58	60	54	59	50	58	57	59	60	50	55	61	57	47	59	58	66	58	59	62	62	57.5	7.4
LakeVermillion-SD	42	45	38	36	40	41	40	45	42	39	42	40	41	39	40	36	33	43	38	39	38	37	41	43	37	39.9	5.0
LeSueur-MN	57	60	57	59	59	69	61	57	57	63	61	65	64	57	54	65	69	60	55	57	54	54	71	69	57	60.1	5.8
Minneota-MN	75	75	72	73	72	67	67	76	73	81	73	76	68	77	77	73	70	65	72	70	74	72	72	70	67	72.7	7.9
Murdock-MN	73	78	82	72	69	76	76	67	71	84	85	72	86	78	73	81	79	82	77	70	79	72	77	82	86	77.5	12.8
Sheldon-IA	87	89	92	79	72	81	82	89	72	82	75	81	84	79	81	75	88	86	78	84	79	79	84	82	88	81.9	7.1
Truman-MN	75	77	71	64	77	73	73	70	69	79	79	75	84	67	75	77	73	79	70	74	74	69	69	82	80	73.9	5.6
Wabasso-MN	59	65	72	64	59	71	60	67	67	61	62	59	63	63	58	66	70	60	63	67	58	55	65	67	59	63.3	5.0
Wanamingo-MN	79	81	80	82	81	81	81	85	79	81	79	74	82	79	79	82	84	79	79	80	81	80	77	82	81	80.5	6.1
Worthington-MN	73	74	74	74	78	79	76	76	69	76	77	76	85	77	65	80	78	75	63	74	68	68	75	76	71	73.8	8.3
Overall Ave	66.7	69.8	67.7	64.8	66.3	69.0	65.9	69.3	64.2	68.7	67.1	67.1	70.3	65.4	64.8	68.3	69.0	66.0	64.1	66.9	65.6	63.5	68.2	70.3	66.7	67.1	
Overall % of Mean	99%	104%	101%	97%	99%	103%	98%	103%	96%	102%	100%	100%	105%	97%	97%	102%	103%	98%	96%	100%	98%	95%	102%	105%	99%		
SD Ave	48	54	46	44	49	50	47	52	46	48	49	50	51	45	48	48	45	45	49	48	52	48	50	53	49	48.6	
MN Ave	70	72	71	69	71	73	69	72	69	73	72	71	74	70	68	74	74	70	67	70	68	66	72	74	69	70.7	
High SCN (>3k)	63	67	65	61	63	66	63	63	63	68	67	64	68	64	63	66	66	65	63	63	63	60	66	69	64	64.5	
Yield Env <70 bu	53	58	55	53	54	60	54	57	54	55	55	56	57	52	52	57	57	53	54	55	54	51	59	60	54	55.2	
Yield Env >70 bu	78	79	78	74	76	76	76	79	72	80	76	76	81	76	75	77	79	77	72	76	75	74	75	78	77	76.6	

Notes Murdock had high variability from IDC in parts of the plot so it is not included in overall averages.
High SCN locations are Lake Vermillion, Lesueur, Minneota, Truman, and Wabasso
Pukwana did not meet data quality standards



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Irrigated Location

SPT24	CROPLAN					Asgrow			Brevant			NK			Xitavo			Pioneer			Plot Mean	LSD (.10)
	CP2220E	CP2322E	CP2340XF	CP2520E	CP2540XF	AG24XF3	AG25XF3	AG26XF3	B243EE	B252EE	B263EE	NK24-A2E3S	NK25-C9XF	NK26-M6E3	XO2323E	XO2444E	XO2613E	P23A15X	P23A40E	P25A04X		
Greeley-NE	95	89	83	83	78	77	76	80	88	66	79	92	75	83	80	81	80	83	81	79	82.4	10.6
Emmetsburg-IA	71	69	70	75	75	79	69	71	75	71	74	75	72	69	63	75	65	69	71	70	71.5	6.9
LakeVermillion-SD	52	58	59	44	58	55	42	57	49	43	56	55	63	59	50	60	50	57	64	46	53.9	8.1
Norfolk-NE	61	69	79	74	76	72	73	66	70	70	75	75	69	69	72	72	64	N/A	63	N/A	70.2	4.5
Sheldon-IA	69	73	75	65	68	74	67	68	67	74	72	78	74	63	69	70	67	76	69	64	70.2	6.4
Truman-MN	75	74	74	65	73	67	71	64	75	70	72	72	66	76	72	67	71	72	76	74	72.1	8.4
Vincent-IA	66	66	65	76	71	63	56	69	70	66	67	66	75	66	68	69	63	67	66	66	67.2	4.7
Worthington-MN	70	69	76	71	70	68	69	66	68	71	66	77	74	67	68	70	65	67	72	72	70.9	7.0
Overall Ave	69.8	70.6	72.5	69.1	71.1	69.3	65.4	67.6	70.0	66.3	69.9	73.7	70.9	68.8	67.9	70.5	65.6	70.2	70.4	67.3	69.8	
Overall % of Mean	100%	101%	104%	99%	102%	99%	94%	97%	100%	95%	100%	106%	102%	99%	97%	101%	94%	101%	101%	96%		

Notes

Pukwana did not meet data quality standards



SOYBEANS

Answer Plot®
By WINFIELD UNITED
YIELD REPORT 2023

2023 Regional Answer Plot Trial Summary

YIELD Greater than Plot mean
Irrigated Location

YIELD Greater than Mean of all Locations

SPT28	CROPLAN				Asgrow				Brevant			NK			Xitivo			Pioneer			Plot Mean	LSD (.10)
	CP2743XF	CP2822E	CP2840XF	CP2920E	AG27XF3	AG28XF3	AG29XF4	AG30XF4	B263EE	B272EE	B283EE	NK28-B9E3S	NK28-P6XF	NK30-U4XF	XO2832E	XO2963E	XO3014E	P26T57E	P28A65E	P29A19E		
Greeley-NE	54	89	50	68	37	49	42	65	70	49	54	56	59	50	79	65	57	72	61	64	61.2	12.3
Emmetsburg-IA	62	67	74	68	75	77	76	74	78	75	69	68	66	74	81	73	71	68	66	74	71.2	6.3
Norfolk-NE	74	70	68	76	73	72	75	78	72	71	73	67	70	75	79	72	83	70	72	71	71.7	4.2
Vincent-IA	66	72	69	69	74	74	75	67	67	77	62	69	65	65	66	64	64	72	67	58	67.5	6.1
Overall Ave	64.0	74.4	65.3	70.2	64.4	67.9	66.8	70.8	71.8	68.0	64.5	64.8	65.1	65.9	76.3	68.4	68.9	70.6	66.3	66.6	67.9	
Overall % of Mean	94%	110%	96%	103%	95%	100%	98%	104%	106%	100%	95%	95%	96%	97%	112%	101%	101%	104%	98%	98%		

Note Pukwana did not meet data quality standards