

2020 Northeast Summary, Northern Plains

Variety	Yield (bu/ac)						Test Wt. lbs/bu	Protein %	Lodging 1-9	Heading 1-9	Height 1-9	BLS 1-9	FHB 1-9
	Avg.	Glyndon, MN	McVillie, ND	Cando, ND	Park River, ND	Crookston MN							
MN-Torgy	77.4	63.5	75.3	66.0	97.6	84.6	60.5	15.5	4	7	6	4	—
Faller	76.6	59.0	76.4	63.4	107.7	76.3	59.7	14.6	6	6	6	4	3
HRS 3530	75.1	56.1	71.1	64.1	107.9	76.4	60.3	15.6	5	6	6	4	5
SY Valda	74.2	51.6	74.9	61.3	105.3	78.1	60.5	14.7	5	5	5	5	4
AP Murdock	73.5	57.6	70.8	59.7	98.4	80.9	61.0	15.3	5	4	4	5	5
LCS Rebel	73.1	54.1	75.9	66.3	98.8	70.2	61.4	15.6	5	3	6	4	4
SY 611 CL2	72.0	48.2	74.3	60.0	100.3	77.2	60.8	15.3	4	5	4	5	4
WB9479	71.7	51.3	65.1	57.1	93.2	91.7	60.8	16.5	2	5	4	5	6
WB9590	71.2	48.2	59.5	62.0	101.5	84.7	59.9	16.2	3	5	4	5	6
WB9719	70.7	44.2	80.2	64.5	94.4	70.0	61.5	14.9	4	6	5	4	6
LCS Cannon	70.2	51.1	63.7	63.7	97.9	74.8	61.6	15.2	4	2	4	5	6
SY Ingmar	69.1	50.2	69.7	56.6	95.1	73.9	61.1	15.8	3	5	5	4	3
MN-Washburn	68.8	49.2	75.6	56.7	97.4	65.2	60.3	14.7	4	6	5	4	3
Shelly	68.7	51.0	53.9	61.6	99.1	77.8	60.1	14.9	4	6	4	4	3
Linkert	67.4	54.8	58.7	59.2	91.4	73.1	60.6	15.7	4	5	4	4	2
SY Longmire	65.5	41.9	65.4	58.5	94.5	67.0	60.5	15.6	4	5	5	4	5
Knudson	64.7	48.8	64.2	54.8	90.1	65.5	59.7	14.9	5	5	5	5	5
SY McCloud	63.5	47.2	57.9	57.5	90.6	64.4	60.9	15.7	4	5	5	5	5
ND VitPro	61.5	42.3	65.8	64.9	87.8	46.5	61.8	15.7	4	4	5	3	3
SY Soren	60.1	42.4	55.7	51.7	86.4	64.2	59.3	15.6	4	4	4	5	4
Glenn	59.9	36.1	56.4	63.2	85.4	58.7	61.6	15.6	4	4	6	5	3
Bolles	58.1	52.4	55.6	44.3	84.1	54.0	59.0	17.6	5	6	6	4	4
Mean	67.8	49.1	64.6	58.1	94.3	72.8	60.4	15.4					
LSD [0.05]	6.4	6.2	8.4	5.5	5.9	10.9	0.9	0.4					
CV (%)	6.9	7.8	8.0	5.8	3.8	9.2	1.2	2.0					

Numerical ratings: Heading: 1 = early; Height: 1 = short; Lodging: 1 = no lodging; Disease 1 = tolerant

These agronomic assessments are made by Syngenta scientists and reflect each variety's relative performance within these characteristics through the 2020 crop year. Specific conditions may cause variations within those characteristics. These relative protection values are based on current pest and disease populations. These have been known to shift periodically and may cause changes in specific evaluations. Resistance to many other diseases and pests is sensitive to environmental conditions, plant development stages and the presence and intensity of other diseases which may result in specific evaluation inconsistencies. This chart is updated annually to reflect the most current trends.

Syngenta Data, 2018-2020

Three-Year Northeast Summary, Northern Plains Ranked by Three-Year Yield Average

Variety	Yield (bu/ac)			Protein % 3-Year Avg	3-Year Economic Return ¹			Agronomics and Disease				
	3-yr Avg	2-yr Avg	2020		Rank	Gross \$/A	\$/Bu	Heading 1-9	Height 1-9	Lodging 1-9	BLS 1-9	FHB 1-9
Faller	83.7	81.0	76.6	14.2	7	\$401.52	\$4.80	6	6	6	4	3
SY Valda	81.2	78.7	74.2	14.3	12	\$394.81	\$4.86	5	5	5	4	4
AP Murdock	80.0	76.9	73.5	14.5	9	\$399.85	\$5.00	4	4	3	4	4
HRS 3530	79.3	77.4	75.1	15.2	3	\$434.25	\$5.48	6	6	6	4	4
WB9590	79.0	75.6	71.2	15.3	2	\$437.81	\$5.54	4	4	3	6	6
WB9479	78.5	75.4	71.7	15.7	1	\$456.44	\$5.82	5	4	2	5	6
SY 611 CL²	75.8	74.3	72.0	14.9	10	\$399.56	\$5.27	5	4	4	5	4
Shelly	75.3	72.6	68.7	14.4	16	\$371.28	\$4.93	6	5	6	4	3
SY Ingmar	75.2	71.9	69.1	15.2	5	\$411.58	\$5.48	5	5	3	4	3
SY McCloud	73.4	69.4	63.5	15.2	6	\$401.99	\$5.48	5	5	4	5	4
Linkert	70.7	67.8	67.4	15.4	11	\$396.82	\$5.61	5	5	3	4	3
Knudson	70.7	68.4	64.7	14.2	17	\$339.08	\$4.80	5	5	6	4	5
SY Soren	69.4	65.8	60.1	15.2	13	\$380.20	\$5.48	4	4	3	5	4
ND VitPro	68.0	65.6	61.5	15.5	13	\$386.07	\$5.68	4	5	6	3	3
Glenn	67.1	65.1	59.9	15.3	15	\$371.89	\$5.54	3	6	6	5	3
Bolles	66.5	63.2	58.1	16.8	8	\$400.39	\$6.02	6	6	6	4	3
LCS Rebel		75.8	73.1					3	6	6	4	3
LCS Cannon		75.1	70.2					2	5	4	5	4
WB9719		73.8	70.7					6	5	4	4	5
MN-Washburn		73.5	68.8					6	5	3	3	3
SY Longmire		68.4	65.5					5	5	4	4	6
Mean	74.6	72.2	67.8	15.1								
LSD [0.05]	3.4	4.3	6.4	0.3								
CV (%)	6.5	6.9	6.9	2.9								
No. of Locs.	16	11	5	14								

Numerical ratings: Heading: 1 = early; Height: 1 = short; Lodging: 1 = no lodging; Disease 1 = tolerant

2018 Locations: Argusville, Glyndon, McVile, Park River, ND; and Crookston, MN

2019 Locations: Cando, Hillsboro, Glyndon, McVile, Park River, ND; and Crookston, MN

2020 Locations: Cando, Glyndon, McVile, Park River, ND; and Crookston, MN

¹ Economic return calculated using Sept. local cash grain price of \$4.66 for 14% protein and 10-year average MGE protein premium/discounts (Mendota Wheat & Milling Associates).

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Syngenta Data, 2018-2020

Three-Year Northeast Summary, Northern Plains Ranked by Economic Return

Variety	3-Year Economic Return ¹		Protein %	Yield (bu/ac)				Agronomics and Disease				
	Gross \$/A	\$/Bu	3-Year Avg	3-Year Rank	3-Year	2-yr Avg	2020	Heading 1-9	Height 1-9	Lodging 1-9	BLS 1-9	FHB 1-9
WB9479	\$456.44	\$5.82	15.7	6	78.5	75.4	71.7	5	4	2	5	6
WB9590	\$437.81	\$5.54	15.3	5	79.0	75.6	71.2	4	4	3	6	6
HRS 3530	\$434.25	\$5.48	15.2	4	79.3	77.4	75.1	6	6	6	4	4
SY Ingmar	\$411.58	\$5.48	15.2	10	75.2	71.9	69.1	5	5	3	4	3
SY McCloud	\$401.99	\$5.48	15.2	11	73.4	69.4	63.5	5	5	4	5	4
Faller	\$401.52	\$4.80	14.2	1	83.7	81.0	76.6	6	6	6	4	3
Bolles	\$400.39	\$6.02	16.8	17	66.5	63.2	58.1	6	6	6	4	3
AP Murdock	\$399.85	\$5.00	14.5	3	80.0	76.9	73.5	4	4	3	4	4
SY 611 CL²	\$399.56	\$5.27	14.9	8	75.8	74.3	72.0	5	4	4	5	4
Linkert	\$396.82	\$5.61	15.4	12	70.7	67.8	67.4	5	5	3	4	3
SY Valda	\$394.81	\$4.86	14.3	2	81.2	78.7	74.2	5	5	5	4	4
ND VitPro	\$386.07	\$5.68	15.5	15	68.0	65.6	61.5	4	5	6	3	3
SY Soren	\$380.20	\$5.48	15.2	14	69.4	65.8	60.1	4	4	3	5	4
Glenn	\$371.89	\$5.54	15.3	16	67.1	65.1	59.9	3	6	6	5	3
Shelly	\$371.28	\$4.93	14.4	9	75.3	72.6	68.7	6	5	6	4	3
Knudson	\$339.08	\$4.80	14.2	13	70.7	68.4	64.7	5	5	6	4	5
LCS Rebel						75.8	73.1	3	6	6	4	3
LCS Cannon						75.1	70.2	2	5	4	5	4
WB9719						73.8	70.7	6	5	4	4	5
MN-Washburn						73.5	68.8	6	5	3	3	3
SY Longmire						68.4	65.5	5	5	4	4	6
Mean			15.1		74.6	72.2	67.8					
LSD [0.05]			0.3		3.4	4.3	6.4					
CV (%)			2.9		6.5	6.9	6.9					
No. of Locs.			14		16	11	5					

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