

## 2021 Northeast Summary, Northern Plains

Variety	2021 Yield (bu/ac)			Test Wt. lbs/bu	Protein %	Heading 1-9	Height 1-9
	Avg.	Glyndon MN	Crookston MN				
WB9606	82.0	103.3	60.8	64.5	13.8	5	6
LCS Buster	79.7	104.4	54.9	61.3	12.7	7	5
Faller	79.3	103.8	54.7	62.8	13.9	6	7
<b>SY 611 CL2</b>	<b>78.2</b>	99.1	57.2	64.0	14.7	5	4
<b>SY Valda</b>	<b>77.3</b>	105.0	49.5	63.2	13.8	5	5
ND Frohberg	76.9	103.8	49.9	63.1	14.7	5	6
<b>AP Gunsmoke CL2</b>	<b>75.7</b>	100.6	50.8	63.6	14.2	5	5
Shelly	75.0	95.0	55.1	64.3	13.7	6	5
MN-Torgy	74.1	97.7	50.5	63.4	15.1	6	5
LCS Cannon	72.2	94.0	50.3	65.2	15.0	3	4
<b>SY McCloud</b>	<b>71.2</b>	97.5	44.9	64.0	15.5	5	6
<b>SY Longmire</b>	<b>70.6</b>	95.0	46.3	63.0	14.3	5	5
TCG-Wildcat	70.1	93.5	46.7	63.1	14.4	6	5
MN-Washburn	69.9	93.8	46.0	63.4	14.4	6	5
<b>SY Ingmar</b>	<b>69.0</b>	93.4	44.6	63.0	15.1	5	5
<b>SY Soren</b>	<b>68.6</b>	91.1	46.1	62.8	16.2	4	4
<b>AP Murdock</b>	<b>68.6</b>	90.1	47.1	62.7	14.9	5	4
<b>AP Smith</b>	<b>67.0</b>	92.4	41.6	62.6	14.9	6	4
Linkert	66.4	87.9	44.9	64.2	15.9	5	5
ND VitPro	64.9	83.9	45.9	64.8	14.9	5	5
Glenn	62.2	84.2	40.2	64.8	15.2	4	6
<b>Knudson</b>	<b>59.6</b>	81.5	37.7	62.5	15.1	5	5
Mean	70.0	93.4	46.7	63.2	14.6		
LSD (5%)	6.3	9.5	7.3	1.0	0.9		
CV (%)	7.0	6.2	7.6	0.7	2.9		
No. of Locs.				2	2	4	3

\*No yield data for Argusville, Cando, Langdon, McVile, Park River, ND (drought)

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 2021 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, 2019-2021

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

Variety	Yield (bu/ac)			Protein %	Economic Return <sup>1</sup>			Agronomics and Disease				
	3-yr Avg	2-yr Avg	2021		3-yr Avg	Rank	\$/Bu	Gross \$/A	Heading 1-9	Height 1-9	Lodging 1-9	BLS 1-9
Faller	80.8	77.3	79.3	14.1	1	8.72	\$704.7	6	6	7	3	3
<b>SY Valda</b>	<b>78.5</b>	75.1	77.3	14.2	2	8.77	\$688.8	5	5	5	4	4
<b>AP Murdock</b>	<b>75.6</b>	72.1	68.6	14.6	3	8.98	\$679.0	4	4	4	4	4
<b>SY 611 CL2</b>	<b>74.9</b>	73.8	78.2	14.6	4	8.98	\$672.8	5	4	4	4	3
LCS Cannon	74.6	70.8	72.2	14.6	5	8.98	\$670.1	2	4	4	4	3
<b>AP Smith</b>	<b>73.2</b>	68.9	67.0	14.8	6	9.09	\$665.1	6	4	2	3	4
MN-Washburn	72.9	69.1	69.9	14.3	9	8.83	\$643.4	6	5	3	3	3
Shelly	72.9	70.5	75.0	14.2	10	8.77	\$639.6	6	5	6	5	4
<b>SY Ingmar</b>	<b>71.4</b>	69.1	69.0	15.2	7	9.29	\$663.6	5	5	3	3	3
<b>SY McCloud</b>	<b>69.7</b>	65.7	71.2	15.2	8	9.29	\$647.8	4	5	4	5	4
<b>SY Longmire</b>	<b>68.8</b>	67.0	70.6	15.0	12	9.19	\$632.3	5	5	5	4	5
Linkert	67.6	67.1	66.4	15.4	11	9.40	\$635.3	5	4	3	4	4
<b>Knudson</b>	<b>67.1</b>	63.2	59.6	14.3	16	8.83	\$592.2	5	6	6	4	5
<b>SY Soren</b>	<b>66.2</b>	62.5	68.6	15.2	13	9.29	\$615.3	4	4	3	5	4
ND VitPro	65.5	62.4	64.9	15.3	14	9.35	\$612.2	4	5	6	3	4
Glenn	64.7	60.6	62.2	15.2	15	9.29	\$601.3	3	6	7	4	3
<b>AP Gunsmoke CL2</b>		68.0	75.7					5	5	4	5	4
MN-Torgy		76.4	74.1					6	6	4	3	NA
Mean	71.8	69.1	70.0	14.7								
LSD (5%)	3.8	5.4	6.3	0.3								
CV (%)	6.8	6.8	7.0	2.5								
No. of Locs.	13	7	2	13								

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

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

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

2021 Locations: Crookston and Glyndon, MN

<sup>1</sup> Three-year economic return calculated using Sept. local cash grain price of \$8.67 for 14% protein and 10-year average MGE protein premium/discounts (Mendota Wheat & Milling Associates, 2021).

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