

## 2022 Northeast Summary, Northern Plains

Variety	2022 Yield bu/ac					Test Wt. lbs/bu	Protein %	Heading 1-9	Height 1-9
	Avg.	McVile, ND	Park River, ND	Thompson, ND	Warren, MN				
<b>SY Valda</b>	<b>79.4</b>	82.9	85.6	79.9	69.2	61.6	14.6	5	4
Shelly	79.4	71.7	99.5	85.4	60.9	62.0	15.0	6	4
TCG-Wildcat	78.7	66.0	81.3	84.1	83.2	63.6	15.9	4	6
<b>AP Smith</b>	<b>78.4</b>	74.4	80.2	93.2	65.7	60.7	15.2	5	5
MN-Torgy	77.6	67.0	88.6	89.0	65.7	61.0	15.9	7	6
<b>SY 611 CL<sup>2</sup></b>	<b>77.1</b>	84.6	77.9	82.6	63.5	63.3	15.1	3	4
<b>SY Ingmar</b>	<b>76.6</b>	74.5	88.6	75.8	67.3	61.9	16.1	5	5
<b>AP Murdock</b>	<b>76.0</b>	76.6	79.4	79.8	68.3	62.3	14.7	7	5
<b>SY McCloud</b>	<b>75.7</b>	70.3	84.6	81.6	66.2	62.3	15.5	6	5
<b>SY Longmire</b>	<b>74.9</b>	74.6	86.6	82.0	56.2	62.6	15.3	5	5
LCS Cannon	74.7	78.5	85.4	82.8	52.2	62.9	15.8	4	5
Faller	73.8	75.1	81.9	83.6	54.6	62.3	14.3	7	5
MN-Rothsay	73.2	76.3	75.9	88.6	51.9	62.7	15.2	5	4
<b>AP Gunsmoke CL<sup>2</sup></b>	<b>71.2</b>	76.1	87.6	71.6	49.6	61.9	15.7	6	4
ND Froberg	70.5	65.5	77.8	74.6	64.2	62.0	15.4	5	5
<b>SY Soren</b>	<b>68.1</b>	72.8	79.7	74.2	45.5	62.2	16.2	5	5
Glenn	66.6	64.3	74.2	78.9	49.0	62.1	15.7	4	4
ND VitPro	65.9	55.5	74.2	72.3	61.5	62.6	14.4	5	5
<b>Knudson</b>	<b>65.1</b>	66.5	61.2	73.8	58.9	61.9	15.6	6	5
Linkert	64.7	63.7	62.1	73.0	59.9	63.3	14.3	6	5
Mean	74.0	75.8	83.4	82.0	61.1	62.2	15.1		
LSD (5%)	9.5	13.8	14.6	7.6	13.3	0.8	0.7		
CV (%)	9.1	8.9	8.6	9.1	10.8	0.8	2.6		
No. of Locs.	4					4	4		

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 2022 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, 2020-2022

## 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	2022	3-yr Avg	\$/Bu	Gross \$/A	Rank	Heading 1-9	Height 1-9	Lodging 1-9	BLS 1-9	FHB 1-9
<b>SY Valda</b>	<b>77.2</b>	78.7	79.4	14.1	8.90	\$687.60	7	5	5	5	4	4
MN-Torgy	77.2	76.4	77.6	15.3	9.49	\$732.30	1	6	6	4	3	NA
Faller	77.1	75.6	73.8	14.3	9.01	\$694.90	3	6	6	7	3	3
<b>SY 611 CL<sup>2</sup></b>	<b>76.5</b>	77.5	77.1	15.0	9.32	\$713.00	2	5	4	4	4	3
Shelly	75.3	77.9	79.4	14.0	8.85	\$666.50	11	6	5	6	5	4
<b>AP Murdock</b>	<b>74.6</b>	73.5	76.0	14.7	9.19	\$684.90	8	4	4	4	4	4
<b>AP Smith</b>	<b>73.1</b>	74.6	78.4	14.9	9.31	\$680.00	9	6	4	2	3	4
LCS Cannon	72.8	73.9	74.7	15.0	9.36	\$691.80	4	2	4	4	4	3
<b>SY Ingmar</b>	<b>72.1</b>	74.0	76.6	15.5	9.57	\$690.30	5	5	5	3	3	3
<b>SY McCloud</b>	<b>70.3</b>	74.2	75.7	15.9	9.79	\$688.20	6	4	5	4	5	4
<b>AP Gunsmoke CL<sup>2</sup></b>	<b>69.8</b>	72.7	71.2	14.9	9.27	\$647.20	14	5	5	4	5	4
<b>SY Longmire</b>	<b>69.7</b>	73.5	74.9	14.9	9.31	\$648.50	13	5	5	5	4	5
Linkert	68.8	65.2	64.7	16.0	9.84	\$676.80	10	5	4	3	4	4
<b>SY Soren</b>	<b>66.3</b>	68.2	68.1	15.9	9.79	\$648.70	12	4	4	3	5	4
ND VitPro	65.4	65.6	65.9	15.4	9.56	\$626.70	15	4	5	6	3	4
<b>Knudson</b>	<b>65.3</b>	63.3	65.1	15.2	9.43	\$615.60	16	5	6	6	4	5
Glenn	63.8	65.1	66.6	15.6	9.64	\$615.40	17	3	6	7	4	3
Mean	71.7	75.4	74.0	15.2								
LSD (5%)	4.1	5.6	9.5	0.3								
CV (%)	7.6	8.0	9.1	2.6								
No. of Locs.	11	6	4	11								

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

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

2021 Locations: Crookston and Glyndon, MN

2022 Locations: McVile, Thompson, and Park River, ND; Warren, MN

<sup>1</sup> Economic return calculated using October local cash grain price of \$8.84 for 14% protein and 10-year average MGE protein discount/premium up to 16% protein (Mendota Wheat & Milling Associates, 2022).

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