

## 2023 Performance Summary, Syngenta Data Eastern North Dakota and Minnesota

## 2023 Yield bu/ac Test Casselton, McVille, Park Valley Crookston, Glyndon, Warren, Wt. **Protein** Heading Height **Variety** Avg. ND ND River, ND City, ND MN MN MN SY Valda 14.5 5 87.8 114.0 94.6 68.4 104.5 67.9 78.4 86.7 60.0 5 **AP Smith** 83.9 109.7 83.2 81.2 93.6 63.5 76.0 80.4 61.0 15.3 6 4 SY 611 CL2 83.2 115.1 90.5 72.0 86.8 60.6 74.6 82.8 61.2 15.5 5 4 **AP Murdock** 82.4 114.1 86.6 67.7 94.0 53.7 75.3 85.7 61.3 15.0 4 4 **AP Gunsmoke CL2** 81.9 107.6 87.4 71.1 87.8 64.2 67.7 87.5 60.3 15.4 5 5 102.5 15.6 **SY Ingmar** 79.9 90.5 67.5 86.1 62.2 72.8 77.8 61.2 5 5 109.2 64.7 67.0 15.2 Knudson 79.8 87.8 94.1 50.1 85.9 60.3 5 6 108.1 83.3 81.3 60.3 15.6 **SY Longmire** 77.6 56.0 67.2 66.3 81.1 5 5 WB9606 91.9 120.0 102.8 80.2 107.5 64.1 77.4 91.4 62.0 14.2 5 6 MN-Rothsay 91.0 114.5 98.0 76.9 104.2 66.3 84.2 92.8 61.3 15.2 5 5 WB9719 90.2 119.2 76.5 99.6 14.8 5 98.5 66.5 79.3 91.5 61.0 6 89.7 111.3 64.6 105.1 75.7 72.6 102.2 14.3 7 Faller 96.6 60.1 6 Shelly 89.5 118.1 96.4 67.0 100.8 66.8 81.6 95.8 61.2 15.0 6 5 WB9590 88.0 115.1 96.9 73.4 106.3 66.3 70.7 87.5 61.2 15.5 4 4 MN-Torgy 87.8 116.6 77.4 64.0 104.2 73.3 79.9 99.5 61.7 15.5 6 6 LCS Cannon 82.2 106.3 97.4 73.8 83.8 57.0 74.9 82.1 63.1 14.9 2 5 ND Frohbera 81.9 109.2 89.3 71.2 98.5 56.5 67.5 81.0 60.8 15.7 5 6 Mean 88.7 118.1 95.3 74.7 100.7 64.7 76.3 91.1 60.6 14.8 6.1 12.6 LSD (5%) 8.7 9.9 13.7 9.7 10.8 13.4 1.5 0.5

7.4

6.9

7.3

1.8

Numbers in **bold type** are in the top yielding group and considered statistically similar.

3.6

CV (%)

No. of Locs.

6.3

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

5.1

9.0

These agronomic assessments are made by Syngenta scientists and reflect each variety's relative performance within these characteristics through the 2023 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.

6.1

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3.2



## Three-Year Performance Summary, Syngenta Data (2021-2023)

## **Eastern North Dakota and Minnesota**

	Yield Average bu/ac			Protein %	Economic Return <sup>1</sup>			Agronomics and Disease				
Variety	3-yr	2-yr	2023	3-yr Avg	\$/Bu	Gross \$/A	Rank	<b>Heading</b> 1-9	<b>Height</b> 1-9	<b>Lodging</b> 1-9	<b>BLS</b> 1-9	<b>FHB</b> 1-9
SY Valda	82.8	83.6	87.8	14.5	6.51	538.8	8	5	5	5	4	4
SY 611 CL2	80.8	81.2	83.2	15.3	6.88	556.0	2	5	4	4	4	3
AP Smith	78.9	80.6	83.9	15.2	6.84	539.4	7	6	4	2	3	4
AP Murdock	78.3	79.7	82.4	14.9	6.70	524.8	10	4	4	4	4	4
AP Gunsmoke CL2	76.6	76.8	81.9	15.2	6.84	524.4	11	5	5	3	5	4
SY Ingmar	76.5	77.5	79.9	15.6	7.06	539.8	5	5	5	3	3	3
SY Longmire	74.4	75.0	77.6	15.4	6.95	517.1	13	5	5	5	4	5
Knudson	71.8	73.6	79.8	15.2	6.86	492.6	14	5	6	6	_	5
WB9606	86.6	87.2	91.9	14.2	6.39	552.8	3	5	6	_	_	_
Shelly	83.6	84.8	89.5	14.5	6.55	547.0	4	6	5	6	5	4
Faller	82.8	83.3	89.7	14.4	6.49	537.2	9	6	7	7	3	3
MN-Torgy	81.8	82.9	87.8	15.5	7.01	573.2	1	6	6	4	3	_
LCS Cannon	77.7	78.5	82.2	15.0	6.74	524.1	12	2	5	4	4	3
ND Frohberg	77.6	77.7	81.9	15.4	6.96	539.6	6	5	6	_	_	_
MN-Rothsay	_	83.9	91.0		_	_	_	5	5	3	3	_
Mean	80.8	82.0	88.7	14.8								
LSD (5%)	4.0	4.5	6.1	0.4								
CV (%)	7.1	7.3	6.3	3.3								
No. of Locs.	16	14	7	14								

Numbers in **bold type** are in the top yielding group and considered statistically similar.

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

2021 Locations: Crookston and Glyndon, MN

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

2023 Locations: Casselton, McVille, Park River, and Valley City, ND; Crookston, Glyndon, and Warren, MN

These agronomic assessments are made by Syngenta scientists and reflect each variety's relative performance within these characteristics through the 2023 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.

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<sup>&</sup>lt;sup>1</sup> Economic return calculated using October local cash grain price of \$6.29 for 14% protein and 10-yr avg MGE protein discount/premium up to 16% protein (Mendota Wheat & Milling Associates, 2023).