

2023 Performance Summary, Syngenta Data Western North Dakota

Variety	2023 Yield bu/ac					Test Wt. lbs/bu	Protein %	Heading 1-9	Height 1-9
	Avg.	Berthold, ND	Coleharbor, ND	New Leipzig, ND	Velva, ND				
SY Valda	93.2	102.8	92.2	82.7	95.3	60.6	14.4	5	5
SY 611 CL2	88.8	94.5	92.3	79.4	89.2	60.5	15.0	5	4
AP Smith	86.7	87.4	88.2	84.8	86.4	61.0	14.9	6	4
AP Gunsmoke CL2	86.3	91.6	84.7	86.3	82.6	60.7	15.2	5	5
AP Murdock	82.2	94.2	79.9	68.4	86.4	61.3	14.8	4	4
SY Ingmar	82.1	82.9	85.5	79.2	80.9	61.5	15.5	5	5
SY Longmire	82.1	76.3	94.2	80.9	77.2	60.6	15.0	5	5
SY McCloud	80.1	85.3	83.6	70.2	81.2	61.0	16.0	5	6
Faller	93.3	95.7	92.0	88.5	97.2	60.5	14.4	6	7
WB9606	92.5	97.8	89.6	87.1	95.5	61.5	14.0	5	6
Shelly	91.8	94.7	91.9	89.3	91.4	60.8	14.2	6	5
WB9719	91.6	92.4	102.7	85.2	86.1	60.0	14.8	6	5
ND Heron	86.7	89.7	85.1	83.2	88.9	61.4	15.4	2	5
WB9590	84.6	86.1	80.9	80.6	90.6	60.9	16.2	4	4
LCS Cannon	84.2	93.3	79.3	73.8	90.4	62.8	15.6	2	5
ND VitPro	81.4	76.2	84.1	82.7	82.5	60.6	15.7	4	5
ND Froberg	77.2	87.1	58.3	80.4	82.7	60.6	15.5	5	6
Mean	88.5	93.1	88.2	83.6	89.2	60.6	14.6		
LSD (5%)	7.3	11.6	7.1	12.6	6.6	1.4	0.6		
CV (%)	6.8	7.7	4.9	9.3	4.6	1.1	2.4		
No. of Locs.	4.0					4.0	4.0		

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

Numerical ratings: Heading: 1 = Early, Height: 1 = Short

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.

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

Western North Dakota

Variety	Yield Average bu/ac			Economic Return ¹			Protein %	Agronomics and Disease				
	3-yr	2-yr	2023	\$/Bu	Gross \$/A	Rank	3-yr Avg	Heading 1-9	Height 1-9	Lodging 1-9	BLS 1-9	FHB 1-9
SY Valda	73.6	84.0	93.2	6.60	486.2	4	14.7	5	5	5	4	4
AP Smith	72.0	81.8	86.7	6.85	493.1	1	15.2	6	4	2	3	4
SY 611 CL2	71.6	81.3	88.8	6.76	483.9	7	15.0	5	4	4	4	3
AP Gunsmoke CL2	70.8	79.6	86.3	6.90	488.4	3	15.3	5	5	3	5	4
AP Murdock	68.8	78.3	82.2	6.73	463.5	14	14.9	4	4	4	4	4
SY Ingmar	67.5	76.3	82.1	7.05	475.8	10	15.6	5	5	3	3	3
SY McCloud	67.1	75.4	80.1	7.21	484.3	5	16.0	5	6	4	5	4
SY Longmire	65.6	73.7	82.1	6.78	444.9	15	15.0	5	5	5	4	5
WB9606	76.8	87.2	92.5	6.30	484.2	6	14.0	5	6	—	—	—
Shelly	76.2	87.1	91.8	6.43	490.3	2	14.3	6	5	6	5	4
Faller	75.5	86.0	93.3	6.41	483.9	8	14.3	6	7	7	3	3
LCS Cannon	67.6	76.9	84.2	6.87	464.1	12	15.2	2	5	4	4	3
ND Frohberg	67.1	75.4	77.2	6.95	466.9	11	15.4	5	6	—	—	—
ND VitPro	64.2	72.9	81.4	7.23	464.0	13	16.0	4	5	6	3	4
Mean	71.7	81.6	88.5				14.8					
LSD (5%)	4.6	5.4	7.3				0.4					
CV (%)	7.2	6.7	6.8				3.2					
No. of Locs.	10	8	4				9					

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

Numerical ratings: Heading: 1= early; Height: 1 = short; Disease: 1 = no disease

2021 Locations: New Leipzig and Velva, ND

2022 Locations: Berthold, New Leipzig, and Velva, ND

2023 Locations: Berthold, Coleharbor, New Leipzig, and Velva, ND

¹ 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).

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.