

## 2024 Performance Summary, Syngenta Data Western North Dakota

Variety	2024 Yield bu/ac				Test Wt. lbs/bu	Protein %	Heading 1-9	Height 1-9
	Avg.	Coleharbor, ND	Harvey, ND	Velva, ND				
AP Murdock	<b>84.0</b>	78.6	89.2	84.1	58.8	14.6	4	4
SY Ingmar	<b>82.7</b>	88.1	80.1	79.9	58.4	15.1	5	5
AP Elevate	<b>81.5</b>	75.6	86.0	82.9	58.2	14.4	6	4
AP Smith	77.7	74.0	85.8	73.4	58.1	14.8	6	4
AP Gunsmoke CL2	<b>77.3</b>	83.0	72.3	76.5	58.6	15.1	5	5
SY McCloud	77.3	81.0	70.8	80.1	58.8	14.9	5	6
SY Longmire	<b>75.3</b>	77.5	69.8	78.7	55.8	14.7	5	5
SY Valda	75.0	71.3	68.9	84.9	57.3	13.6	5	5
SY 611 CL2	<b>74.0</b>	76.3	68.3	77.3	57.6	14.3	5	4
WB9606	<b>87.9</b>	92.3	91.8	79.4	57.8	13.6	5	6
WB9719	<b>83.7</b>	86.5	80.6	83.8	58.1	14.7	6	5
WB9590	<b>82.7</b>	87.0	82.3	78.8	57.7	14.9	4	4
MN-Torgy	<b>81.4</b>	85.2	76.6	82.4	59.8	15.2	6	6
MN-Rothsay	<b>79.9</b>	87.1	65.6	87.0	58.4	14.6	6	5
LCS Cannon	<b>79.5</b>	82.8	74.5	81.3	59.2	14.5	2	5
Ascend-SD	<b>79.1</b>	79.7	69.9	87.6	59.1	15.2	6	8
ND Frohberg	<b>77.8</b>	81.9	75.3	76.1	58.5	15.4	5	6
Faller	77.5	78.5	67.5	86.7	57.3	14.0	6	7
ND Thresher	<b>71.0</b>	69.8	67.2	75.9	54.5	14.6	6	5
Mean	78.8	79.9	74.1	82.5	57.7	14.6		
LSD (5%)	9.2	13.8	12.1	12.5	1.3	1.0		
CV (%)	12.2	8.5	10.1	7.5	1.7	3.8		
No. of Locs.	9				3	2		

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 2024 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 (2022-2024) Western North Dakota

Variety	Yield Average bu/ac			Economic Return <sup>1</sup>			Protein %	Agronomics and Disease				
	3-yr	2-yr	2024	\$/Bu	Gross \$/A	Rank	3-yr Avg	Heading 1-9	Height 1-9	Lodging 1-9	BLS 1-9	FHB 1-9
<b>SY Valda</b>	<b>85.2</b>	85.4	75.0	5.91	503	12	14.2	5	5	5	4	4
<b>AP Elevate</b>	<b>83.6</b>	85.4	81.5	6.08	508	10	14.5	6	4	3	4	4
<b>AP Gunsmoke CL2</b>	82.2	82.4	77.3	6.44	529	1	15.2	5	5	3	5	4
<b>SY 611 CL2</b>	<b>82.1</b>	82.5	74.0	6.28	515	6	14.9	5	4	4	4	3
<b>AP Smith</b>	81.9	82.9	77.7	6.31	517	5	15.0	6	4	2	3	4
<b>AP Murdock</b>	<b>81.7</b>	83.0	84.0	6.20	506	11	14.7	4	4	4	4	4
<b>SY Ingmar</b>	80.4	82.4	82.7	6.55	527	2	15.4	5	5	3	3	3
<b>SY McCloud</b>	<b>78.4</b>	78.9	77.3	6.68	523	3	15.7	5	6	4	5	4
<b>SY Longmire</b>	78.0	79.2	75.3	6.25	487	13	14.8	5	5	5	4	5
WB9606	<b>89.7</b>	90.5	87.9	5.69	511	7	13.8	5	6	5	6	5
Faller	<b>86.4</b>	86.6	77.5	5.90	510	9	14.2	6	7	7	3	3
LCS Cannon	<b>80.3</b>	82.2	79.5	6.45	518	4	15.2	2	5	4	4	3
ND Frohberg	77.8	77.4	77.8	6.57	511	8	15.4	5	6	7	3	4
WB9719		88.2	83.7					6	5	2	5	6
WB9590		83.8	82.7					4	4	2	6	6
MN-Torgy			81.4					6	6	5	3	3
MN-Rothsay			79.9					6	5	4	4	4
Ascend-SD			79.1					6	8	7	3	4
ND Thresher			71.0					6	5	7	3	NA
Mean	83.2	85.1	78.8				14.7					
LSD (5%)	5.1	6.4	9.2				0.5					
CV (%)	7.6	7.5	12.2				3.2					
No. of Locs.	10	7	9				8					

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

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

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

2024 Locations: Coleharbor, Harvey, and Velva, ND

<sup>1</sup> Economic return calculated by using the three-year yield average multiplied by the average grain price (\$5.80/bu) on 10/8/2024 from 18 locations in ND/SD/MN. (+) 10.6 cents per 1/5th premium over 14% protein, (-) 12.0 cents per 1/5 discount under 14% protein.

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