

## 2022 West Summary, Northern Plains

Variety	2022 Yield bu/ac				Test Wt. lbs/bu	Protein %	Heading 1-9	Height 1-9
	Avg.	Berthold, ND	New Leipzig, ND	Velva, ND				
Shelly	88.5	80.2	75.8	109.4	62.4	14.5	7	4
Faller	86.1	83.9	70.6	104.0	61.2	14.1	6	5
<b>SY Valda</b>	<b>84.7</b>	82.4	63.3	108.3	61.6	14.4	6	4
MN-Torgy	83.5	75.1	73.8	101.8	61.8	15.6	7	5
<b>SY Rockford</b>	<b>83.0</b>	86.9	69.3	92.9	58.0	15.2	7	5
<b>AP Gunsmoke CL<sup>2</sup></b>	<b>81.5</b>	83.9	61.4	99.2	61.0	15.3	6	4
<b>SY 611 CL<sup>2</sup></b>	<b>81.1</b>	77.4	66.0	99.9	61.8	15.1	6	4
<b>AP Smith</b>	<b>79.7</b>	75.8	63.3	100.1	60.1	15.1	7	4
Vida	79.2	78.1	53.0	106.5	58.4	14.9	6	5
<b>AP Murdock</b>	<b>78.7</b>	77.6	56.3	102.2	61.2	14.8	5	5
ND Froberg	78.6	80.8	58.8	96.2	62.4	15.4	6	5
Lanning	77.9	73.6	67.4	92.7	59.2	14.4	6	5
<b>SY Soren</b>	<b>77.8</b>	77.7	58.8	97.1	62.0	15.5	5	4
<b>SY McCloud</b>	<b>77.2</b>	79.4	57.0	95.2	62.4	15.8	5	5
<b>SY Ingmar</b>	<b>75.7</b>	75.7	57.2	94.4	61.7	15.6	6	4
LCS Cannon	75.7	75.7	60.0	91.4	62.8	15.3	4	4
<b>SY Longmire</b>	<b>75.1</b>	71.1	56.2	98.0	60.6	14.8	5	5
Glenn	75.0	74.9	58.4	91.6	61.4	15.3	5	5
WB9879CLP	73.0	66.8	58.2	94.1	59.2	14.7	7	5
Reeder	72.5	68.8	54.2	94.4	59.8	15.6	6	5
ND VitPro	71.5	69.9	55.5	89.0	61.7	16.1	6	5
Mean	80.0	78.6	64.3	101.7	61.0	15.0		
LSD (5%)	7.3	12.5	8.1	8.3	2.5	1.0		
CV (%)	9.7	10.5	10.8	11.0	2.2	5.6		
No. of Locs.	3				3	3		

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 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 West Summary, Northern Plains Ranked by Three-Year Yield Average

Variety	Yield bu/ac			Protein % 3-yr Avg	Economic Return <sup>1</sup>			Agronomics and Disease				
	3-yr Avg	2-yr Avg	2022		\$/Bu	Gross \$/A	Rank	Heading 1-9	Height 1-9	Lodging 1-9	BLS 1-9	FHB 1-9
Faller	75.5	65.1	86.1	14.1	8.90	\$672.40	1	6	6	7	3	3
Shelly	72.5	66.2	88.5	14.5	9.11	\$660.30	2	6	5	6	5	4
<b>SY Valda</b>	<b>71.4</b>	63.7	84.7	14.8	9.25	\$660.10	3	5	5	5	4	4
<b>AP Gunsmoke CL<sup>2</sup></b>	<b>67.9</b>	63.2	81.5	15.3	9.50	\$644.50	4	5	5	4	5	4
<b>SY 611 CL<sup>2</sup></b>	<b>67.3</b>	61.8	81.1	15.3	9.48	\$637.70	6	5	4	4	4	3
<b>AP Smith</b>	<b>66.9</b>	60.9	79.7	15.3	9.48	\$634.00	7	6	4	2	3	4
Vida	66.7	61.2	79.2	15.0	9.35	\$624.30	9	6	6	4	5	5
<b>SY McCloud</b>	<b>65.5</b>	59.9	77.2	15.8	9.75	\$639.00	5	4	5	4	5	4
<b>AP Murdock</b>	<b>65.5</b>	59.6	78.7	15.0	9.36	\$613.20	13	4	4	4	4	4
<b>SY Ingmar</b>	<b>65.3</b>	58.4	75.7	15.6	9.65	\$630.20	8	5	5	3	3	3
<b>SY Rockford</b>	<b>65.2</b>	63.5	83.0	15.4	9.56	\$623.60	10	6	6	4	7	3
Lanning	64.8	59.8	77.9	15.3	9.48	\$614.20	11	4	5	4	5	5
<b>SY Longmire</b>	<b>64.3</b>	58.4	75.1	15.1	9.41	\$604.70	15	5	5	5	4	5
Reeder	63.5	56.9	72.5	15.6	9.62	\$611.10	14	4	6	5	4	
<b>SY Soren</b>	<b>62.8</b>	58.3	77.8	15.9	9.77	\$613.40	12	4	4	3	5	4
LCS Cannon	62.7	57.6	75.7	15.3	9.49	\$594.40	16	2	4	4	4	3
WB9879CLP	62.2	57.0	73.0	15.1	9.41	\$585.80	19	6	5		4	
Glenn	61.8	56.7	75.0	15.5	9.60	\$593.60	18	3	6	7	4	3
ND VitPro	60.4	54.7	71.5	16.1	9.84	\$594.40	17	4	5	6	3	4
Mean	65.9	61.1	75.2	15.3								
LSD (5%)	4.4	5.4	6.9	0.5								
CV (%)	7.5	8.1	6.5	4.1								
No. of Locs.	8	5	3	7								

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

2020 Locations: New Leipzig, Coleharbor, and Kenmare, ND

2021 Locations: New Leipzig and Velva, ND

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

<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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