

2024 Performance Summary, Syngenta Data South Dakota

Variety	2024 Yield bu/ac					Test Wt. lbs/bu	Protein %	Heading 1-9	Height 1-9
	Avg.	Agar, SD	Roscoe, SD	Northville, SD	Selby, SD				
AP Elevate	68.4	47.1	91.3	74.5	60.6	61.4	16.6	6	4
SY Valda	68.3	53.7	88.4	69.3	61.7	61.1	16.2	5	5
AP Gunsmoke CL2	63.5	49.0	80.3	68.8	56.0	61.1	16.7	5	5
AP Revolution	63.4	44.3	83.8	66.3	59.0	61.4	17.0	4	4
AP Murdock	60.8	40.8	78.7	72.0	51.8	61.3	16.7	4	4
SY Ingmar	59.0	38.3	76.6	63.5	57.6	61.6	17.2	5	5
LCS Trigger	78.4	57.4	103.1	81.8	71.1	61.6	14.2	6	6
Ascend-SD	70.3	56.5	88.4	74.7	61.7	61.8	16.9	6	8
CP3530	68.1	53.6	91.8	70.1	56.9	60.9	16.8	NA	NA
LCS BUSTER	66.7	38.2	95.4	74.3	58.9	60.0	14.9	7	6
Brawn-SD	65.4	43.8	86.9	73.2	57.7	61.6	16.1	5	NA
Driver	64.9	49.3	84.7	68.3	57.5	61.0	16.5	5	7
LCS Cannon	64.9	50.8	91.4	65.2	52.4	62.4	17.1	2	5
WB9719	61.3	47.3	84.7	53.8	59.3	61.9	16.7	6	5
WB9606	60.6	43.9	82.0	64.6	51.7	61.4	15.9	5	6
Mean	62.5	45.4	82.1	65.0	57.4	60.7	16.4		
LSD (5%)	7.2	8.0	11.8	5.8	5.9	1.8	0.6		
CV (%)	6.5	8.7	7.0	4.4	5.0	0.6	2.7		
No. of Locs.	3					3	4		

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

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)

South Dakota

Variety	Yield Average bu/ac			Protein % 3-yr Avg	Economic Return ¹			Agronomics and Disease				
	3-yr	2-yr	2024		\$/Bu	Gross \$/A	Rank	Heading 1-9	Height 1-9	Lodging 1-9	BLS 1-9	FHB 1-9
AP Elevate	63.8	67.2	68.4	15.7	6.70	428	2	6	4	3	4	4
SY Valda	62.9	65.8	68.3	15.6	6.67	420	3	5	5	5	4	4
AP Gunsmoke CL2	59.6	63.1	63.5	15.9	6.83	407	5	5	5	3	5	4
AP Revolution	58.5	59.4	63.4	16.2	6.86	402	7	4	4	4	3	3
SY Ingmar	56.8	57.7	59.0	16.4	6.86	390	8	5	5	3	3	3
AP Murdock	56.0	56.1	60.8	15.9	6.83	383	9	4	4	4	4	4
LCS Trigger	71.4	77.5	78.4	13.8	5.67	404	6	6	6	NA	4	NA
Ascend-SD	68.1	70.8	70.3	16.1	6.86	467	1	6	8	7	3	4
LCS Buster	65.9	69.4	66.7	13.9	5.74	378	10	7	6	NA	NA	NA
CP3530	60.4	64.2	68.1	16.1	6.86	415	4	NA	NA	NA	NA	NA
Brawn-SD		68.3	65.4					5	NA	NA	4	5
WB9719		66.2	61.3					6	5	2	5	6
Driver		66.1	64.9					5	7	NA	NA	NA
LCS Cannon		59.7	64.9					2	5	4	4	3
WB9606			60.6					5	6	5	6	5
Mean	62.8	66.0	62.5	15.4								
LSD (5%)	4.7	6.4	7.2	0.5								
CV (%)	6.0	6.4	6.5	2.4								
No. of Locs.	10	6	4	6								

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

2022 Locations: Agar, Northville, Selby, and Webster, SD

2023 Locations: Selby, and Webster, SD

2024 Locations: Agar, Roscoe, Northville, and Selby, SD

¹ 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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