



2024 South Dakota Triticale Forage Variety Trial Results

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Cooperator: South Dakota State

University Southeast Research Farm

Location: Beresford (43° 02' 37.1" N, 96° 53' 47.9" W)

Soil Type: Egan Silty Clay Loam

Previous crop: soybean

Tillage: no-till

Row spacing: 8"

Seeding Rate:

- Hybrid Lines 800,000 seeds/ac

- Open Pollinated lines; 1,200,000 seeds/ac

Fertilizer:

- Fall 30 lbs/ac N + P

- Spring 40 lbs/ac N

Herbicide:

- None

Fungicide:

- Propi-Star - Aerial Application

Date seeded: 10/2/2023

Date harvested: 5/21/2024

Cooperator: South Dakota State

University Southeast Research Farm

Location: Wagner (43° 06' 46.5" N, 96° 10' 48.9" W)

Soil Type: Salmo-Napa Complex Silt Loam

Previous crop: soybean

Tillage: no-till

Row spacing: 8"

Seeding Rate:

- Hybrid Lines 800,000 seeds/ac

- Open Pollinated lines; 1,200,000 seeds/ac

Fertilizer:

- Fall 30 lbs/ac N + P

- Spring 40 lbs/ac N

Herbicide:

- None

Fungicide:

- None

Date seeded: 10/19/2023

Date harvested: 5/20/2024



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2024 South Dakota Triticale Forage Variety Trial Results Beresford

Table 1. Triticale forage variety trial results. Harvested on 5/21/2024. Significantly highest yeilds are shaded blue and bolded.

Line	Type	Height (inches)	Lodging (1-5)	Feeke's Stage	Dry Matter Forage (ton/ac)	Silage Yield (ton/ac)	TDN* (%)	RFV* (%)	Crude Protein* (%)
Hazlet	Rye	44.5	1.5	10.5	3.84	10.98	-	-	-
Fridge	Triticale	32.2	0.0	10.3	3.80	10.86	54.5	96	16.3
Flex 719	Triticale	39.5	0.0	10.0	3.80	10.86	56.2	100	18.8
Blade W01	Triticale	35.7	0.0	10.3	3.67	10.50	59.4	107	18.3
Gainer 154	Triticale	37.9	0.0	10.4	3.65	10.42	54.6	95	16.5
Blade F02-A	Triticale	36.7	0.0	10.0	3.64	10.40	61.7	129	24.4
FX 1001	Triticale	43.5	1.0	10.0	3.64	10.39	53.0	95	16.7
Gunner	Triticale	35.1	0.0	10.0	3.22	9.19	54.5	100	18.9
MTF 1435	Wheat	30.8	0.0	9.0	2.94	8.40	52.3	91	16.0
Willow Creek	Wheat	25.6	0.3	8.0	1.95	5.57	58.5	111	21.4
Mean	-	36.4	0.3	9.7	3.42	9.76	56.1	103	18.6
CV (%)	-	7.1	182.0	-	8.2	8.2	-	-	-
LSD (0.10)	-	3.6	0.7	-	0.39	1.12	-	-	-

* NIR analysis, unreplicated composite samples



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2024 South Dakota Triticale Forage Variety Trial Results Wagner

Table 2. Triticale forage variety trial results. Harvested on 5/20/2024. Significantly highest yeilds are shaded blue and bolded.

Line	Type	Height (inches)	Lodging (1-5)	Feeke's Stage	Dry Matter Forage (ton/ac)	Silage Yield (ton/ac)	TDN* (%)	RFV* (%)	Crude Protein* (%)
Gainer 154	Triticale	35.4	Not	10.3	3.83	10.93	59.9	112	19.9
Hazlet	Rye	43.7	Reported	10.4	3.55	10.15	56.7	107	18.0
Flex 719	Triticale	37.1	-	8.8	3.54	10.12	57.4	116	22.3
Fridge	Triticale	34.6	-	8.0	3.53	10.08	54.5	102	16.7
FX 1001	Triticale	36.9	-	9.0	3.42	9.76	54.6	102	18.6
Gunner	Triticale	32.9	-	8.0	3.38	9.64	52.6	94	15.4
Blade W01	Triticale	30.5	-	9.0	3.26	9.30	59.4	118	21.4
Blade F02-A	Triticale	31.1	-	8.5	3.23	9.22	59.3	121	21.5
Valor	Barley	33.9	-	10.4	2.94	8.41	54.0	93	15.9
MTF 1435	Wheat	28.7	-	8.3	2.88	8.24	55.0	100	16.3
Willow Creek	Wheat	22.6	-	8.0	2.60	7.43	56.9	106	13.9
Mean	-	33.4	-	9.0	3.29	9.39	56.4	106	18.2
CV (%)	-	4.5	-	-	7.5	7.5	-	-	-
LSD (0.10)	-	1.8	-	-	0.29	0.84	-	-	-

* NIR analysis, unreplicated composite samples