Project Title: Intrastate Winter Cereal Forage Trial

Objective: To test forage and grain yields and quality of winter cereal forages.

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Summary:
Nine cereal forages varieties were studied in this trial in a randomized complete block replicated four times. Height at forage maturity ranged from 35.3 in. (Ray-1432) to 67.4 in. (WCF 1060 (FX1001)). Forage yield ranged from 4 tons/A (MTF 22137) to 7.5 tons/A (WCF 1060 (FX1001)). Grain protein ranged from 9.9% (MTF 22138) to 12.9% (Willow Creek). WCF 1060 (FX1001) had the highest grain harvest yield at 100.7 bu/ac whereas MTF 22136 had the lowest grain yield at 76 bu/ac. See table 2 for agronomic performance.

Table 1. Management Information

Seeding date:	9/24/2021	**Field Location:**	R5
Julian date:	267	**Harvest date:**	8/10/2022
Seeding rate:	standard	**Julian date:**	222
Previous crop:	Peas	**Soil type:**	fine sandy loam
Herbicide:	Clean SweepM - 1pt/A, Axial Bold - 15oz/A (5/10/2022)	**Tillage:**	conventional
Insecticide:	N/A	**Soil residual nutrient (NO_{3-}, P, K lb/A):**	119-14-188
Fungicide:	N/A	**Nutrient fertilizer applied (N, P_2O_5, K_2O lb/A):**	85 lbs N/acre: (4/14/2022)

Table 2. Agronomic Performance

Cereal Type	Species	Forage YLD, ton/A	Forage HT, in	Grain YLD[1], bu/ac	PRO[2] %	TWT[1], lb/bu
WCF 1060 (FX1001)	Triticale	7.5	67.4	100.7	11.3	59.3
Willow Creek	Wheat	6.6	54.9	81.2	12.9	65.2
MTF 21204	Wheat	6.0	42.4	93.5	11.0	60.6
MTF 21207	Wheat	5.6	38.5	95.7	10.6	64.3
Ray-1432	Wheat	5.5	35.3	87.3	10.5	63.3
MTF 20189	Wheat	5.4	46.7	86.0	12.4	65.0
MTF 22138	Wheat	5.3	36.3	94.2	9.9	63.3
MTF 22136	Wheat	4.4	40.6	76.0	12.3	65.1
MTF 22137	Wheat	4.0	36.4	97.0	10.6	64.3
Mean		5.6	44.3	90.2	11.3	63.4
CV		18.2	3.6	9.3	2.4	0.9
LSD		1.5	2.3	12.2	0.4	0.8
PR > F		0.0025	0.0001	0.0058	0.0001	0.0001

TRT: treatment, YLD: yield, HT: plant height inches, PRO: protein, TWT: test weight

1 adjusted to 13% moisture

2 adjusted to 12% moisture