Project Title:
Effects of Seed Treatment on Germination and Growth Performance of Spring Wheat

Objective:
To test the various growth hormone seed treatments on spring wheat's early vigor, growth, yield, and quality.

Personnel:
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Summary:
MT Sidney spring wheat variety was planted and applied with four different Miller Chemical & Fertilizer, LLC seed treatments: Cytokin, Cytoplex, WIN-ASC, and Miller 2361. Two control treatments were used: one was treated with CruiserMaxx Vibrance Cereal (farmer's practice), and the other was untreated.

Yield, quality, and other in-season measurements were insignificant (data not presented). The falling numbers (indicative of late-season amylase activity) are well above the critical level (320 seconds).

Table 1. Management Information

Seeding date:	5/5/2023 (125 Julian)	**Field Location:**	R7
Seeding rate:	24 plants/ft^2	**Harvest date:**	8/15/2023 (227 Julian)
Previous crop:	Alfalfa	**Soil type:**	Flathead Sandy Loam
Herbicide:	CleansweepM 1pt/A, Axial Bold 15oz/A	**Tillage:**	conventional
		Soil residual nutrient (NO3-, P, K lb/A):	81.5-5-58 **(Fall, 2022)**
Insecticide:	N/A		
		Nutrient fertilizer applied (N, P_2O_5, K_2O lb/A):	90-35-60 **(Spring, 2023)**
Fungicide:	N/A		