		Days								
		to	Plant		%	%	1000	Test		Grain
Variety	Treatment	Head	Height	Lodging	Plump	Thin	KWT	Weight	Protein	Yield
		DAP ¹	inches	0-9 ²	>6/64	<5/64	g	lbs/bu	%	bu/A
Celebration	untrt	58	32	4	92	1	39	48.2	14.6	94.9
Celebration	Palisade	62	29	0	85	1	36	46.9	15.0	92.9
Pinnacle	untrt	57	32	0	95	1	55	48.7	12.3	96.9
Pinnacle	Palisade	61	26	0	94	1	53	47.8	12.6	89.2
Trial Mean		60	30	1	91	1	46	47.9	13.6	93.5
C.V.%		1.8	2.2	51	2.3	28	6.5	0.7	2.6	5.8
LSD 0.05		2	1	1	4	NS	6	0.6	0.7	NS

Evaluation of Trinexapac-ethyl (Palisade) on Barley at Minot

Combined Means

	Days								
	to	Plant		%	%	1000	Test		Grain
Treatment	Head	Height	Lodging	Plump	Thin	KWT	Weight	Protein	Yield
	DAP ¹	inches	0-9 ²	>6/64	<5/64	g	lbs/bu	%	bu/A
untrt	58	32	2	94	1	47	48.5	13.5	95.9
Palisade	62	28	0	89	1	45	47.3	13.8	91.0
LSD 0.05	1	2	NS	NS	NS	NS	0.7	NS	NS

¹ DAP = Days after planting.

² Lodging: 0 = none, 9 = lying flat on the ground.

NS = no statistical difference between treatments.

Planting Date: May 3	Planting Rate: 1 million PLS/A					
Palisade treatments were applied at 14 oz/A during stem elongation (June 7).						
Harvest Date: August 10	Previous Crop: soybean					
Tillage: No-till	Soil Type: Williams Loam					

Summary: Palisade treatments significantly reduced plant height of both varieties. Lodging was not an issue with the variety Pinnacle but the Palisade treatment completely eliminated lodging on Celebration. On average, Palisade treatments delayed heading by 4 days and decreased test weight by more than a pound per bushel. Palisade treatments also tended to reduce % plump, kernel weight and grain yields but not significantly.