## NDSU North Central Research Extension Center, Minot 2017 Barley Cover Crop Trial at Minot

Cover Crop Treatment	Cover Planting Date	Days to Head	Plant Height	Lodging	% Plump	% Thin	1000 KWT	Test Weight	Protein	Grain Yield	Cover Crop Biomass <sup>3</sup>
		DAP <sup>1</sup>	inches	0-9 <sup>2</sup>	>6/64	<5/64	g	lbs/bu	%	bu/A	lbs/A
No cover crop		54	26	0	97	3	52	47.6	10.9	77.0	68
CC planted with barley	May 10	54	24	0	97	3	54	46.6	11.0	67.5	1483
CC broadcast over 4 leaf barley	May 30	54	24	0	98	2	55	48.3	11.1	70.1	562
CC broadcast over early headed barley	July 5	54	24	0	98	2	53	47.9	11.0	69.0	439
CC planted after barley harvest	Aug. 15	54	25	0	97	2	52	47.6	10.8	70.1	216
CC planted with barley + flax post- harvest	5/10 + 8/15	54	26	0	97	3	53	47.9	10.8	68.1	850
Trial Mean		54	25	0	97	2	53	47.6	10.9	70.3	1078
C.V.%		0.0	4.9	0	0.9	27 NG	42.0	2.9	4.1	8.5	66.0
LSD 0.05		NS	NS	NS	NS	NS	NS	NS	NS	NS	1073

 $^{1}$  DAP = Days after planting.

<sup>2</sup>Lodging: 0 = none, 9 = lying flat on the ground.

<sup>3</sup> Cover crop biomass includes all green plant material (cover crop + volunteer barley) at the end of the growing season. Data was collected on Oct. 13 and reported on a dry weight basis.

 $NS = no \ statistical \ difference \ between \ cover \ crop \ treatments.$ 

Barley Variety: Tradition Planting Date: May 10 Harvest Date: August 14 Cover Crop Mix: turnip, radish, lentil and flax Previous Crop: soy Tillage System: No-till Soil Type: Williams Loam Note: Excellent sub-soil moisture but little in-season rainfall hindered germination of broadcast cover crops.