

Table 9. Influence of cover crop species, barley cultivar, and barley seeding rate on barley grain yield and its growth metrics at the Agricultural Research Farm, South Deerfield, MA, 2015-2016.

Cover crop	Cult.	Seeding rate (seeds/m ²)	50% heading date	Mean height (in)	Lodging/stem breakage	Yield (bu/ac)	Test weight (kg/hL)	TGW (g)	Total germ	Percent protein (12%M)	Falling number	DON (ppm)	
SH+CC	WM	300	141.0	19.8	0.3	70.4	60.4	49.4	95.8	8.3	187.5	0.2	
		350	140.5	21.4	0.5	86.2	59.9	49.6	98.3	8.3	194.8	0.2	
		400	140.8	19.8	0.3	65.1	58.6	49.5	87.0	8.4	189.8	0.2	
		300	134.8	19.1	2.5	46.2	57.9	42.1	68.3	...	...	...
		350	136.3	15.1	2.3	39.7	56.7	44.7	60.5	...	...	...
		400	134.8	17.4	3.3	45.3	58.6	42.0	67.0	...	...	...
	CC	WM	300	143.0	20.1	0.4	63.1	60.8	50.7	97.8	8.5	199.0	0.2
			350	141.5	18.8	0.3	67.7	59.3	49.5	98.0	8.2	193.8	0.1
			400	142.5	19.5	0.4	76.1	57.9	50.3	97.0	8.7	192.3	0.2
		Char.	300	134.0	15.2	3.0	32.3	56.5	43.3	72.3
			350	132.3	15.4	2.0	45.1	57.9	42.8	70.0
			400	134.0	16.6	1.8	48.3	57.9	43.1	63.0
SH	WM	300	140.0	22.1	0.4	86.3	60.8	50.2	97.8	9.0	195.3	0.2	
		350	141.0	21.8	0.1	72.4	59.7	49.7	99.3	8.0	203.5	0.2	
		400	140.5	20.2	0.4	77.7	59.2	49.2	97.8	8.4	193.0	0.1	
		300	135.5	17.0	2.5	40.4	56.6	42.6	65.5	...	...	...
		350	133.0	20.4	3.9	59.2	56.6	42.1	79.0	...	...	...
		400	134.8	18.8	3.3	43.8	56.9	42.0	65.0	...	...	...
	None	WM	300	142.5	18.5	0.6	61.3	59.1	49.8	97.5	8.5	198.3	0.1
			350	139.0	21.0	0.4	58.1	61.1	48.7	98.0	8.6	194.5	0.2
			400	142.0	19.4	0.1	63.1	59.4	49.0	98.3	8.1	197.8	0.3
		Char.	300	136.5	15.0	2.8	37.2	54.0	43.3	63.3
			350	134.0	19.5	3.1	37.7	56.6	44.1	70.8
			400	137.5	15.2	2.8	37.9	55.6	41.8	61.3
Cover Crop													
SH+CC			138.1	18.8	1.5	58.8	58.7	46.2	79.5	8.4	190.7	0.2	
CC			137.9	17.6	1.3	55.4	58.4	46.6	83.0	8.5	194.6	0.2	
SH			137.3	20.1	1.8	63.3	58.3	45.9	84.0	8.5	197.3	0.2	
None			138.6	18.1	1.6	49.2	57.6	46.1	81.5	8.4	196.8	0.2	
Cultivar													
WM			141.2	20.2	0.3	70.6	59.7	49.6	96.9	...	...	...
CH			134.8	17.1	2.8	42.8	56.8	42.8	67.1	...	...	...