

Table 9. Effect of brassica cover crops on **seedling disease and plant vigor** of onions grown in the muck soils at **Triple G** in Elba, NY: **soil bioassay**.

Treatment	New Emergence (%)*	Damped off (%)*	Healthy plants (%)	Crop Stage of Healthy Plants (%)			TOTAL	
				Poke	Loop	Flag + 1 st leaf starting to emerge	Emergence (%)	damped off (%)*
Triple G Case Study ((pre-plant soil samples collected on Apr-21-2014):								
Trial seeded on May 6 & 7; 200 seeds for each of 6 replicates per field.								
Brown/yellow mustard blend (c.v Caliente) 11 lb/A; optimally planted on Aug-20-2013; late planted on Aug-30-2013 (10 days). Incorporation: cover crops chopped, disked and multi-mulched on Oct-25-2016 when mustard was 2 feet tall with ~1% in bloom.								
2-weeks post seeding (May-21 & 22)								
Bare ground	50.4 b ¹	5.7	44.7 b	33.0 a	25.6 b	0.3 b		
Optimal planted mustard	65.2 a	4.2	61.0 a	18.8 b	59.0 a	3.7 a		
Late planted mustard	65.4 a	3.7	61.7 a	31.7 a	46.4 ab	0.8 b		
Cereal cover crop	68.2 a	4.4	63.8 a	32.0 a	37.0 a	0.4 b		
P Value ($\alpha=0.05$)	0.0177	NS²	0.0118	0.0172	0.0076	0.0001		
4-weeks post seeding (Jun-3)								
Bare ground	1.4	3.4	42.5 b				51.8 b	18.2
Optimal planted mustard	1.0	3.2	56.3 a				66.2 a	14.7
Late planted mustard	0.2	2.7	66.2 a				65.6 a	13
Cereal cover crop	1.1	3.8	58.9 a				69.3 a	16.5
P Value ($\alpha=0.05$)	NS	NS	0.0064				0.0108	NS

*statistics performed on transformed data using $\arcsin(x/100)^{0.5}$; untransformed data presented.

¹Numbers in a column followed by the same letter are not significantly different, Fisher's Protected LSD test, $p < 0.05$.

²NS: Not significant according to Fisher's Protected LSD test, $p > 0.05$.