

Table 5. Effect of brassica cover crops on **stand** of onions grown in the muck soils in Elba, NY.

Field	Loop-flag leaf stage			3-5 leaf stage			8-10 leaf stage			Final Stand at Harvest		
	Sample date (DAP) ¹	Stand (No. plants /foot) ²	Stand as % of seeding rate ³	Sample date (DAP) ¹	Stand (No. plants /foot) ²	Stand as % of seeding rate ³	Sample date (DAP) ¹	Stand (No. plants /foot) ²	Stand as % of seeding rate ³	Sample date (DAP) ¹	Stand (No. plants /foot) ²	Stand as % of seeding rate ³
Triple G Case Study (Yellow direct seeded onion; c.v. Hendrix):												
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 culti-mulched on Oct-25-2016 when mustard was 2 feet tall with ~1% in bloom.												
Bare ground	May-29 (13)	7.6 a ⁴	90.5	Jun-13 (48)	6.3 a	89.8	Jul-16 (81)	6.7 a	74.7 b	Sep 8 (134)	6.6 a	78.5
Late Planted Mustard	May-22 (17)	5.7 b	89.6	Jun-25 (51)	4.6 b	87.9	Jul-24 (80)	5.2 b	81.8 a	Sep 10 (127)	4.9 b	77.1
Optimally Planted Mustard	May-22 (17)	5.9 b	92.1	Jun-25 (51)	4.5 b	88.5	Jul-24 (80)	5.2 b	82.0 a	Sep 10 (127)	4.9 b	76.2
P Value ($\alpha=0.05$)	--	0.0000	NS⁵	--	0.0002	NS	--	0.0000	0.0263	--	0.0094	NS
Mortellaro Case Study (Yellow transplanted onion; c.v. Bradley):												
Brown/yellow mustard blend (c.v. Caliente) 12 lb/A; optimally planted on Aug-7-2013 and incorporated via chopping, plowing and rolling on Oct-23-2013 when mustard 5 feet tall with 70% in bloom; late planted on Sep 26-2013 (37 days late) and incorporated in the same manner on Oct-28-2013 when mustard was 4 feet tall with 30% bloom. Winter-killed late planted mustard was planted on Aug-27-2013 (7 days late). Forage radish (c.v. Ecotill Buster) 8 lb/A was planted on Aug 30-2013 (10 days late).												
Incorporated Optimally Planted Mustard							Jun-20 (38)	3.9 b		Sep 8 (118)	3.9	
Incorporated Late Planted Mustard							Jun-20 (39)	4.1 a		Sep 8 (119)	3.8	
Winter-killed Late Planted Mustard							Jun-20 (40)	4.1 a		Sep 8 (120)	3.6	
Winter-killed Late Planted Forage Radish							Jun-20 (42)	3.9 b		Sep 8 (122)	3.9	
P Value ($\alpha=0.05$)							--	0.0015		--	NS	

¹DAP: Days after planting. ²No. plants per foot collected from 2 samples of 4 rows x 3 ft long per each of 6 replicates. ³Seeding rates: Triple G bare ground field – 6.4 seeds/ft; Triple G optimal and late planted mustard cover crop fields – 8.4 seeds/ft; all Mortellaro fields – 3.7 plants/ft. ⁴Numbers in a column followed by the same letter are not significantly different, Fisher’s Protected LSD test, p<0.05. ⁵NS: Not significant according to Fisher’s Protected LSD test, P.)05.