

Table 7. Effect of brassica cover crops on **yield and bulb size distribution** of onions grown in the muck soils in Elba, NY.

Field	Yield and Bulb Size/Grade Distribution (mean 2 samples from 5 ft x 5 ft)								Total Marketable Yield (cwt/A)
	Boilers (<1.75")		Small (1.75-2.25")		Medium (2.25-3")		Jumbo (<3")		
	No. bulbs	Weight (lb)	No. bulbs	Weight (lb)	No. bulbs	Weight (lb)	No. bulbs	Weight (lb)	
Triple G Case Study (Yellow direct seeded onion; c.v. Hendrix): pulled from field Sep-8 (bare ground) & Sep-10 (mustards); graded Nov 5,7 & 11 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	4 a ¹	0.21	16 a	2.34 a	76 a	25.56 a	24 b	12.3 b	704 a
Late Planted Mustard	2 b	0.15	4 b	0.61 b	39 b	13.22 b	43 a	23.1 a	645 b
Optimally Planted Mustard	1 b	0.07	6 b	0.85 b	44 b	14.54 b	39 a	20.5 a	627 b
P Value ($\alpha=0.05$)	0.0072	NS²	0.0000	0.0000	0.0000	0.0000	0.0008	0.0004	0.0214
Mortellaro Case Study (Yellow transplanted onion; c.v. Bradley): pulled from field on Sep-8; graded on Oct-3 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	1.2 b	0.09 b	3.1	0.5	28.8	10.9 b	42.4 a	25.7 a	647
Incorporated Late Planted Mustard	2.8 a	0.26 a	5.9	1.1	40.4	16.0 a	25.0 b	15.4 b	571
Winter-killed Late Planted Mustard	0.7 b	0.04 b	3.8	0.6	29.6	10.8 b	36.0 a	21.4 ab	573
Winter-killed Late Planted Forage Radish	1.2 b	0.09 b	5.8	1.0	31.1	11.3 b	34.0 ab	20.8 ab	576
P Value ($\alpha=0.05$)	0.0093	0.0025	NS	NS	NS	0.0356	0.0089	0.0218	NS

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.