

Table 1. In-depth case studies/treatments to evaluate effect of Brassica cover crops in following onion crop grown in muck soil, Elba, 2014.

Case Study			Cover Crop				Cover Crop Incorporation			2014 Onion Crop		
Grower	Field	Size (acres)	Type	Variety (Source)	Rate	Planting Date (2013)	Date (2013)	Method	Size	Type	Planting Method	Plant Population (plants/A)
Triple G	11**	5	Brown/yellow mustard blend	Caliente 199 (GrowMark)	11 lb/A	Aug 20 (Optimal)	Oct 25	Chop, disk, culti-mulch	24" tall, 1% bloom	Yellow c.v. Hendrix	Direct seeded	223,027
Triple G	10	5	Brown/yellow mustard blend	Caliente 199 (GrowMark)	11 lb/A	Aug 30 (10 days late)	Oct 25 & 29,	Chop, disk, culti-mulch	24" tall, 1% bloom	Yellow c.v. Hendrix	Direct seeded	223,027
Triple G	9	5	none	--	--	--	--	--	--	Yellow c.v. Hendrix	Direct seeded	292,723
CY Farms	1	8.5	Forage radish + oats	unknown	9 + 64 lb/A	Sep 14	--	--	--	Planted to field corn		
CY Farms	2	8.5	oats	unknown	64 lb/A	Sep 14	--	--	--	Planted to field corn		
Mortellaro	Lot 7**	3	Brown/yellow mustard blend	Caliente 199 (GrowMark)	12 lb/A	Aug 7 (Optimal)	Oct 23	Chop & plow under	5' tall, 70% bloom	Yellow c.v. Bradley	transplants	130,000
Mortellaro	Lot 3*, 10	2, 3	Brown/yellow mustard blend	Caliente 199 (GrowMark)	12 lb/A	Sep 26 (37 days late)	Oct 28 & 29	Chop & plow under	4' tall, 30% bloom	Yellow c.v. Bradley	transplants	130,000
Lot 3 planted to field corn												
*East 2/3 of lot 3: Caliente 199 in 2012 also												
Mortellaro	Lot 8	1	Brown/yellow mustard blend	Caliente 199 (GrowMark)	12 lb/A	Aug 27 (7 days late)	na	Winter-kill	take biomass in late Nov	Yellow c.v. Bradley	transplants	130,000
Mortellaro	Lot 9	2, 3	Forage radish	Ecotill Buster (GrowMark)	8 lb/A	Aug 30 (10 days late)	no	Winter-kill	take biomass in late Nov	Yellow c.v. Bradley	transplants	130,000
Mortellaro Side-by-side comparisons:												
Incorporated optimal planted mustard vs. incorporated late mustard; lot 7 vs. lot 10												
Incorporated late planted mustard vs. winter-killed late-planted mustard: lot 10 vs. lot 8												
Incorporated late planted mustard vs. winter-killed late planted forage radish: lot 10 vs. lot 9												
Incorporated late planted mustard single vs. double cropping: lot 3 west 1/3 (single) vs. lot 3 east 2/3 (double) – abandoned (field corn)												