

Table 1: Yield, forage color, and height of alfalfa cultivars selected for resistance to alfalfa snout beetle compared to the base populations or cycle 0. Four harvests were taken in the first production year (2010) and three harvests were taken in the second production year (2011).

Populations*	Pedigree	2010 Total	2011 Total	Total	7/20/2011		Pedigree	2011 Yield as a % of Unselected Base Population
					Forage Color 1=light 3-dark	Height (in)		
- tons per acre dry matter -								
Seedway 9558	Seedway 9558 cycle 0	7.03	3.99	11.02	1.3	10.1	Seedway 9558 cycle 6	127
NY0703	Seedway 9558 cycle 4	7.86	4.51	12.37	2.6	11.4	Seedway 9558 cycle 4	113
NY0907	Seedway 9558 cycle 6	8.37	5.05	13.42	2.8	10.7	Seedway 9558 cycle 0	100
NY9117	ASB selections cycle 0	7.66	4.38	12.04	2.4	9.9	ASB selections cycle 6	99
NY0704	ASB selections cycle 4	7.40	4.21	11.61	2.1	9.8	ASB selections cycle 4	96
NY0905	ASB selections cycle 6	7.42	4.35	11.77	3.0	10.3	ASB selections cycle 0	100
NY0316	Curculio Resistant cycle 0	7.35	3.97	11.32	2.3	10.1	Curculio resistant cycle 4	107
NY0710	Curculio resistant cycle 4	7.14	4.26	11.40	2.6	11.2	Curculio Resistant cycle 0	100
Guardsman II	check	7.89	4.50	12.39	1.6	12.2		
Oneida VR	check	7.26	4.21	11.47	1.3	10.5		
	Trial Mean	7.47	3.03		2.1	10.6		
	P-value	0.0004	0.0154		0.0001	0.0018		
	LSD (0.05)	0.35	0.27		0.5	1.2		
	%CV	4.7	8.9		22.4	11.0		

* All populations were seeded with synthetic generation 2 seed and were replicated 8 times, except for NY0907 and NY0905. These populations were synthetic generation 1 seed and were replicated 4 times each.