APPENDIX A, Table 1: First and second production-year trial results from alfalfa trial on Gary Berrus farm, Lowville, New York. Trial entries are alfalfa populations developed for resistance to alfalfa snout beetle and the corresponding unselected populations.

2013 ASB Trial - Lowville NY

Sown May 1, 2013. Used reduce seeding rate 12 grams/package instead of 15 grams/package.

				2014			2015		Height		
		Yield9/5/13	*=yields in	Total	*=yields in	2014	Yield5/30/15	% Stand	3=tall, 1=short	*=yields in	2015
Alfalfa Population	Alfalfa Pedigree	T/A	top group	Yield (T/A)	top group	Rank	T/A	30-May	30-May	top group	Rank
Seedway 9558	Seedway 9558 Base	2.05	*	5.03		14	1.79	85	2.3	*	12
NY0703	Seedway 9558-Asb4	2.09	*	5.86	*	3	1.86	80	2.5	*	8
Seedway 9558 SBR	Seedway 9558 Asb7	2.11	*	5.86	*	2	2.07	78	2.5	*	2
NY1202	Seedway 9558 Asb9	2.15	*	5.93	*	1	1.97	88	2.8	*	5
NY9223	Oneida VR Base	2.05	*	5.12		12	1.96	88	3.0	*	6
NY1203	Oneida VR Asb9	1.95		5.53	*	5	2.03	88	3.0	*	3
NY0243	PLH Base	1.80		4.97		15	1.16	50	1.0		16
NY1201	PLH Asb9	1.81		5.36		11	1.68	68	1.3		14
NY0324	MIII Base	2.13	*	5.66	*	4	1.66	78	2.8		15
NY1205	MIII Asb9	1.85		5.48	*	8	1.92	85	3.0	*	7
NY0326	ReSelect Saranac Base	1.74		5.06		13	1.86	85	3.0	*	10
NY1207	ReSelect Saranac Asb9	1.85		5.45	*	9	1.82	88	3.0	*	11
NY9117	NY9117 Base	2.23	*	5.41	*	10	1.98	90	2.8	*	4
NY1204	NY9117 Asb9	1.95		5.53	*	6	2.13	83	2.8	*	1
NY0316	Curculio Resistant	2.00	*	5.50	*	7	1.86	78	2.8	*	9
NY1206	Curculio Asb8	1.93		4.81		16	1.70	78	2.8		13
Avg. of Base Populations		2.00		5.25			1.75	7 9	2.5		10
Avg. of Selected Populations (cycle 8 or 9)		1.93		5.44			1.89	82	2.6		8
	Trial Mean	1.98		5.41			1.84	80	2.6		
	F-test	2.57**		2.79 **			2.85 **	2.22 *	8.56 **		
	LSD (0.05)	0.25		0.56			0.38	19	0.6		
	CV (%)	12.9		9.1			14.7	16.6	16.1		

Dug from reps 6 and 7 in fall 2014. Trial was injured by Brown root rot as well as ASB. Plants severely stressed.

APPENDIX A, Table 2: First production-year trial results from alfalfa trial on Haskell and Tim Yancey farm, Croghan, New York. Trial entries are alfalfa populations developed for resistance to alfalfa snout beetle and the corresponding unselected populations.

		Belfort N	/ Mr. H	askell Y	ancey	t Alfala Trial er alfalfa stan	ds than	the othe	er three	replicat	es.			
	*=yields						*=yields							
	REPS 1,2,3				in top %		REPS 4,5,6				in top	% Stand	All Reps	
Pedigree	5-Jun	23-Jul	Total	Rank	group	8/26/2015	5-Jun	23-Jul	Total	Rank	group	8/26/2015	Total	Rank
		tons/acre					tons/acre		e				T/A	
Seedway 9558	1.14	1.33	2.45	10	*	92	0.73	0.91	1.64	11		82	2.05	10
Seedway 9558 SBR	1.35	1.49	2.81	1	*	90	0.86	1.09	1.95	3	*	85	2.38	2
ASB, Seedway 9558 Asb9	1.19	1.39	2.57	7	*	93	0.81	0.99	1.80	7		87	2.19	6
ASB, NY1203 Base	0.99	1.24	2.24	15		90	0.58	0.72	1.30	15		73	1.77	15
ASB, OVR Asb9	0.88	1.17	2.06	16		80	0.50	0.62	1.12	16		72	1.59	16
ASB, NY1201 Base	1.28	1.33	2.64	3	*	92	0.80	0.92	1.73	8		75	2.18	7
ASB, PLH Asb9	1.18	1.38	2.57	8	*	92	0.81	1.05	1.85	6	*	82	2.21	5
ASB, MIII Asb9	0.99	1.39	2.37	12		87	0.65	0.85	1.50	12		85	1.94	13
ASB, Curculio Asb8	1.10	1.34	2.43	11	*	92	0.66	0.78	1.44	14		72	1.94	12
ASB cross	1.24	1.35	2.61	5	*	90	0.85	1.07	1.91	4	*	87	2.26	4
ASB, NY1207 Base	1.20	1.45	2.64	4	*	92	0.71	1.01	1.72	9		85	2.18	8
ASB, ReSelect Sar Asb9	1.06	1.29	2.35	14		87	0.64	0.85	1.49	13		83	1.92	14
NY9117	1.24	1.43	2.67	2	*	92	0.93	1.17	2.09	1	*	88	2.38	1
ASB, 9117 Asb9	1.38	1.25	2.60	6	*	93	0.87	1.12	2.00	2	*	87	2.30	3
Guardsman II	1.15	1.31	2.46	9	*	88	0.86	1.00	1.86	5	*	82	2.16	9
N-R-Gee	1.19	1.17	2.36	13		93	0.81	0.90	1.71	10		85	2.04	11
Trial Mean	1.16	1.33	2.49				0.75	0.94	1.70					
F-test	5.52 ** 0.80 NS 2.08 NS				8.99 ** 6.57 ** 8.11 **									
LSD (0.05)	0.19	0.33	0.43				0.12	0.18	0.28					
CV (%)	9.6	14.8	10.1				9.6	11.1	9.8					
Efficiency	313%	159%	237%				163%	129%	142%					