

SNAP BEAN AND LIMA BEAN RESEARCH REPORT—2013

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SNAP BEANS. Research conducted this year in snap beans continued the crop safety evaluations of herbicides that may have the potential for registration through the IR-4 system. These included Zidua, Warrant, Grasp, and Gulliver. Crop tolerance was good with Zidua and Warrant, however the high rate of Zidua resulted in slightly reduced yields (Table 1). Gulliver and Grasp caused significant crop injury and yield reductions. Research will be conducted in the greenhouse this winter to expand the potential crop tolerance limitations of both Zidua and Warrant.

Acetochlor, of which Warrant is one product, was just registered in New York and is currently only for use in sweet and field corn. Both Monsanto and Dow AgroSciences are supportive of conducting preliminary research to expand acetochlor registrations to other specialty crops.

Table 1: Evaluating Preemergence Herbicides in Snap beans (Var. 'Huntington') in 2013

Herbicide	Rate	Stunting (%)		Weed Control 7/19	Yield Lb/40'
		6/24	7/19	% groundcover	
Untreated		0	0	69	6
Handweeded		0	0	13	8.7
Dual Magnum	1pt	0	12	3	6.2
+Reflex	1.25pt				
Grasp	3oz	87	99	2	0.4*
Zidua	1.5oz	18	12	28	6.4
Zidua	3oz	17	20	7	5.6*
Warrant	0.9pt	0	3	35	8
Warrant	1.8pt	13	12	2	6.7
Sandea	1oz	17	7	20	7
Pursuit	0.5oz	0	10	8	8.6
Gulliver	1.3oz	67	70	10	0.4*
Gulliver	2.6oz	83	92	2	0.6*