

**EVALUATING NEW HERBICIDES FOR CABBAGE--2012**  
**Submitted to the Cabbage Research and Development Board**  
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For a second year new preemergence herbicides were evaluated as pre-transplant applications in the cabbage variety, 'Rinda'. Seven herbicides were tested, Chateau, Alion, Raft, Grasp, Paramount, Xonerate, and Prowl H2O. Significant early stunting occurred with Chateau, Alion, Grasp and Xonerate. Raft and Paramount were safe. Major weeds in the trial were hairy galinsoga, lambsquarters, pigweed, and large crabgrass. Galinsoga competition was an important factor in reducing yields in the case of Prowl H2O. Over all, weed control was somewhat better this year than in 2011, due to the dry growing conditions. Despite early season crop stunting with some herbicides, overall yields were not significantly reduced. Best yields were found with Chateau and Paramount.

Registration UpDate: BASF has now approved the registration of Prowl H2O for use in Brassica head and stem vegetables including cabbage, broccoli, and cauliflower. The use pattern is restricted to directed, postemergence, between row applications of 1 to 2.1 pints/acre with a maximum of 2.1 pts/season. It can be applied 1 to 3 days after transplanting or to 2-leaf to 4-leaf stage of direct-seeded vegetables. Emerged weeds will not be controlled by these applications.

Processing Cabbage Herbicide Screen 2012  
 Horticulture Department; Cornell University

Location: Freeville, N-3

Investigator: Dr. Robin Bellinder

Crop Name		Weeds	Cabbage	Cabbage	Cabbage	Cabbage			
Crop Variety		General	Rinda	Rinda	Rinda	Rinda			
Rating Date		7/3/2012	6/11/2012	7/3/2012	8/1/2012	8/1/2012			
Rating Type		Control	Stunting	Stunting	Stand Ct	Yield			
Rating Unit		%	%	%	#/40ft row	kg/40ft row			
Trt	Treatment	Rate	Unit	Growth					
No.	Name	Rate	Unit	Stage					
1	Untreated Check				0	2	13	22	15.90
2	Handweeded Check				97	12	10	20	28.90
3	Dual Magnum	16.1	fl oz/a	PSTTP	100	28	20	21	24.59
	GoalTender	4.0	fl oz/a	PST					
4	Command	21.3	fl oz/a	PRETP	96	13	17	21	25.18
5	Chateau	0.6	oz wt/a	PRETP	90	17	13	20	26.42
6	Alion	3.2	fl oz/a	PRETP	98	57	65	12	11.17
7	Raft	3.8	fl oz/a	PRETP	68	12	12	21	22.01
8	Grasp	5.1	fl oz/a	PRETP	100	99	100	0	0.13
9	Paramount	16.0	oz wt/a	PRETP	68	13	15	21	23.03
10	Chateau	1.3	oz wt/a	PRETP	93	12	12	19	27.06
11	Xonerate	2.3	oz wt/a	PRETP	47	73	57	8	8.49
12	Xonerate	4.6	oz wt/a	PRETP	83	98	96	1	0.82
13	Prowl H20	33.7	fl oz/a	PRETP	90	10	17	22	26.10
14	GoalTender	16.0	fl oz/a	PRETP	100	22	22	20	27.63
LSD (P=.05)					19.90	18.77	30.73	5.54	10.64