

Preemergence Weed Control in Seeded Chives ~~and~~

~~Green Onions~~ - Van Drunen Farms - 2013

Project Code: 117-13-2

Location: Momence, IL

Personnel: Bernard H. Zandstra, Colin Phillippo, Alan DeYoung

Crop: Chives, Green Onions Variety: Purley, Tokyo Long White

Planting Method: Seeded Planting Date: 6/17/13

Spacing: 1 inch Row Spacing: 10 inch

Tillage Type: Conventional Study Design: RCB Replications: 3

Plot Size: 5.5 ft wide x 30 ft long

Soil Type: Jasper Loam

OM: 7.8%

pH: 4.9

Sand: 24%

Silt: 38%

Clay: 38%

CEC: 32.2

Herbicide Application Information

Timing	Date	Time	Air/Soil	T	Soil Surf	Wind	RH	Sky	Dew
PRE	6/19/13	1:00 pm	81/76	F	Dry	1-2 SE	35	0% Cloudy	N

Crop and Weed Information at Application

	Height or Diameter	Growth Stage	Density
7/23 GRFT = green foxtail			
7/23 WIGR = witchgrass			
7/23 COPU = common purslane			

Notes and Comments

1. Spray applied with 4 nozzle boom. FF8002, 20 gpa, 30 psi, 3.2 mph, CO2 backpack sprayer.
 2. Crop and weed injury ratings on scale of 1-10; 1 = no injury, 10 = complete kill.
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Trial ID: 117-13-2	Location: Momence, IL
Protocol ID: 117-13-2	Investigator: Dr. Bernard Zandstra
Study Director: Colin Phillippo	

Pest Code						GRFT		WGR	COPU			
Crop Name						CHIVES	GRONION			CHIVES		
Rating Date						23/Jul/13	23/Jul/13	23/Jul/13	23/Jul/13	23/Jul/13	21/Aug/13	
Rating Type						RATING	RATING	RATING	RATING	RATING	RATING	
Rating Unit						1-10	1-10	1-10	1-10	1-10	1-10	
Trt	Treatment	Form	Form	Rate	Growth							
No.	Name	Conc	Type	Rate	Unit	Stage						
L	1 pendimethalin	3.8	CS	.95	lb ai/a	PRE	3.7	2.7	9.3	7.0	8.3	3.0
2	pendimethalin	3.8	CS	1.43	lb ai/a	PRE	2.0	1.7	10.0	5.7	9.7	2.0
- 3	s-metolachlor	7.62	EC	.95	lb ai/a	PRE	9.3	8.7	10.0	10.0	9.7	9.3
- 4	flumioxazin	51	WDG	.032	lb ai/a	PRE	6.3	4.3	9.7	5.3	10.0	5.7
5	DCPA	75	WP	6	lb ai/a	PRE	4.0	3.0	10.0	7.0	9.7	3.7
- 6	bicyclopyrone	1.67	SL	0.033	lb ai/a	PRE	7.0	5.7	9.7	9.7	9.3	7.0
7	bicyclopyrone	1.67	SL	0.045	lb ai/a	PRE	9.0	7.3	10.0	10.0	10.0	8.3
- 8	pyroxasulfone	85	WDG	0.1	lb ai/a	PRE	10.0	9.7	10.0	10.0	10.0	10.0
9	pyroxasulfone	85	WDG	0.2	lb ai/a	PRE	10.0	10.0	10.0	10.0	10.0	10.0
10	Untreated						3.3	3.0	10.0	6.3	1.0	4.3
LSD (P=.05)						3.63	3.90	0.78	5.19	0.89	3.48	
Standard Deviation						2.12	2.27	0.46	3.03	0.52	2.03	
CV						32.72	40.56	4.62	37.36	5.93	32.03	

Pest Code						GRONION	CHIVES	GRONION	CHIVES	GRONION	
Crop Name						21/Aug/13	26/Sep/13	26/Sep/13	26/Sep/13	26/Sep/13	
Rating Date						RATING	RATING	RATING	HARVEST	HARVEST	
Rating Type						1-10	1-10	1-10	KG/30FT	KG/30FT	
Rating Unit											
Trt	Treatment	Form	Form	Rate	Growth						
No.	Name	Conc	Type	Rate	Unit	Stage					
1	pendimethalin	3.8	CS	.95	lb ai/a	PRE	2.3	1.7	1.7	0.72	15.48
2	pendimethalin	3.8	CS	1.43	lb ai/a	PRE	1.3	1.3	1.0	1.31	26.51
3	s-metolachlor	7.62	EC	.95	lb ai/a	PRE	7.0	8.7	5.3	0.03	2.99
4	flumioxazin	51	WDG	.032	lb ai/a	PRE	4.3	5.0	3.3	0.33	16.03
5	DCPA	75	WP	6	lb ai/a	PRE	3.0	3.0	2.0	0.96	16.51
6	bicyclopyrone	1.67	SL	0.033	lb ai/a	PRE	4.0	6.0	3.7	0.11	5.52
7	bicyclopyrone	1.67	SL	0.045	lb ai/a	PRE	6.3	8.0	6.0	0.02	3.49
8	pyroxasulfone	85	WDG	0.1	lb ai/a	PRE	8.7	10.0	8.7	0.00	0.30
9	pyroxasulfone	85	WDG	0.2	lb ai/a	PRE	10.0	10.0	10.0	0.00	0.00
10	Untreated						4.0	2.3	2.7	0.49	6.26
LSD (P=.05)							3.43	3.45	3.88	0.688	11.833
Standard Deviation							2.00	2.01	2.26	0.401	6.898
CV							39.2	35.93	50.98	100.8	74.09