

Control of herbicide-resistant waterhemp with preemergence applications of metamitron (Goltix)

Trial ID: SB07-18 Study Dir.: Sprague, Powell, Stiles
 Conducted: Isabella Co. Investigator: Christy Sprague

Planting Date: May-1-2018 **Row Spacing:** 30 IN
Variety: Crystal G515 **No. of Reps:** 4
Population: 4.375 " spacing **% OM:** 2.9
Soil Type: SL sandy loam **pH:** 7.2
Plot Size: 10 X 25 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: Spring disked; spring cultimulched
Fertilizer:

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1	AMATU	waterhemp, tall	Amaranthus tuberculatus
Crop	Code	Common Name	
1	BETVU	Sugarbeet	

Application Description

A
Application Timing: PRE
Date Treated: May-2-2018
Time Treated: 8:00 AM
% Cloud Cover: 40
Air Temp., Unit: 67 F
% Relative Humidity: 59
Wind Speed/Unit/Dir: 3 mph W
Soil Temp, Unit: 54 F
Leaf Moist/Dew Presence (Y/N): 3
Soil Moist: 3

Crop Stage at Each Application

A
Crop 1 Name: BETVU
Height:
Stage:

Weed Stage at Each Application

A
Weed 1 Name: AMATU
Height:
Stage:

Weed Density

1
Date: May-2-2018
Weed Name: AMATU
Density: 13 FT2

Application Equipment

Appl	Sprayer Type	Ground Speed	Nozzle Type	Nozzle Size	Nozzle Height	Nozzle Spacing	Boom Width	Spray Volume	Carrier	Operation Pressure
A	CUB	3.8 mph	AIXR	11003	22 "	20 "	100 "	19 GPA	WATER	30 PSI

Comments:

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Location: Isabella Co.

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Pest Code	AMATU	AMATU	AMATU	AMATU
Crop Code				
Rating Date	May-30-2018	Jun-6-2018	Jun-14-2018	Jun-21-2018
Rating Type	control	control	control	control
Rating Unit	percent	percent	percent	percent
Trt-Eval Interval	28 DA-A	35 DA-A	43 DA-A	50 DA-A
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Appl Unit	Code				
1	Untreated						0	0	0	0
2	Ethofumesate	4 L		2.14 pt/a		A	88	75	41	3
3	Goltix	50 WG		2.5 lb/a		A	90	64	49	23
4	Goltix	50 WG		5 lb/a		A	90	85	60	59
5	Goltix	50 WG		10 lb/a		A	98	91	77	80
6	Toreo (6.88 pt/A)	4.15 L				A	99	94	55	53
6	Goltix (premix)	50 WG		5 lb/a		A				
6	Ethofumesate (premix)	4 L		2.14 pt/a		A				
7	Dual II Magnum	7.64 L		0.5 pt/a		A	99	93	68	66
8	Dual II Magnum	7.64 L		1 pt/a		A	100	96	96	93
	LSD P=.05						12.3	16.6	18.5	17.6
	Standard Deviation						8.3	11.3	12.5	12.0
	CV						10.05	15.09	22.52	25.5