

Postemergence Field Sandbur control  
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Site and Design		
Plot Width, Unit:	5 FT	
Plot Length, Unit:	5 FT	
Plot Area, Unit:	25 FT <sup>2</sup>	
Replications:	3	
Randomized Complete Block (RCB)		
Application Description		
	A	B
Application Date:	7/1/2013	7/12/2013
Application Method:	Spray	Spray
Application Timing:	post	post
Application Placement:	broad	broad
Air Temperature, Unit:	77 F	82 F
% Relative Humidity:	61	58
Soil Temperature, Unit:	70 F	85 F

This study was done at Two Rivers State Recreation Area near Omaha, NE on a primarily sand base soil with known Field sandbur populations the previous year. The stand was not mowed or irrigated. Plots were 5' x 5' and sprayed with a CO<sub>2</sub> backpack sprayer using a 3 nozzle boom with 8002vs nozzles at 30 psi in 2 gal/1000ft<sup>2</sup> water. Initial treatment was applied on 1 July to 3-5 leaf sandbur plants with a sequential application on 12 July.

Results:

MSMA and Dismiss South were the only two products to result in < 1 sandbur plants per plot compared to 8 in the untreated plots on the 20 August rating (Table 1). MSMA and Dismiss South resulted in > 83% control of sandbur compared to the untreated plots (Table 2). MSMA and Dismiss provided higher levels of control over all other herbicides used in this study. Speedzone also resulted in 39% control over the untreated plots which was better than Tenacity on the final rating (Table 2). This study will expand and continue over multiple years.

**Table 1. Field Sandbur plant count following sequential applications of various herbicides**

Description				Sandbur	Sandbur
Rating Date				7/12/2013	8/20/2013
Rating Type				Count	Count
Rating Unit				#	#
Days After First/Last Applic.				11 11	50 39
Trt	Treatment	Rate	Appl	Appl	
No	Name	Rate	Unit	Code	Description
					1
					2
1	Untreated Check				3 a
2	Blindside	6.5 oz/a	AB	Initial+2wait	3 a
3	Dismiss South	14.4 fl oz/a	AB	Initial+2wait	0 bc
4	Solitaire	20.8 oz/a	AB	Initial+2wait	2 ab
5	Dismiss	8 fl oz/a	AB	Initial+2wait	2 abc
6	Tenacity	8 fl oz/a	AB	Initial+2wait	4 a
7	Speedzone	3 pt/a	AB	Initial+2wait	3 a
8	MSMA (Target 6.6)	43.56 fl oz/a	AB	Initial+2wait	0 c
LSD (P=.05)				2.09	4.23
Standard Deviation				1.19	2.42
Treatment Prob(F)				0.0106	0.0022

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

**Table 2. Field Sandbur control following sequential applications of various herbicides**

Description				sandbur		sandbur	
Rating Date				7/12/2013		8/20/2013	
Rating Type				CONTRO		CONTRO	
Rating Unit				%UNCK		%UNCK	
Days After First/Last Applic.				11 11		50 39	
Trt	Treatment	Rate	Unit	Appl	Appl		
No	Name	Rate	Unit	Code	Description		
1	Untreated Check					0 c	0 c
2	Blindside	6.5 oz/a		AB	Initial+2wait	27 bc	22 bc
3	Dismiss South	14.4 fl oz/a		AB	Initial+2wait	89 a	84 a
4	Solitaire	20.8 oz/a		AB	Initial+2wait	31 bc	17 bc
5	Dismiss	8 fl oz/a		AB	Initial+2wait	38 b	10 bc
6	Tenacity	8 fl oz/a		AB	Initial+2wait	7 bc	7 c
7	Speedzone	3 pt/a		AB	Initial+2wait	24 bc	39 b
8	MSMA (Target 6.6)	43.56 fl oz/a		AB	Initial+2wait	100 a	100 a
LSD (P=.05)						35.90	30.80
Standard Deviation						20.50	17.58
Treatment Prob(F)						0.0002	0.0001

Rating Type

Ground = groundcover

CONTRO = control / burndown or knockdown

Rating Unit

% = percent

%UNCK = percent of untreated check