

**University of Wisconsin-Madison**  
Weed Science Program

**Compare BroadAxe XC to Competitive Herbicide Programs in Soybeans**  
(Syngenta)

**Trial ID:** 15-ARL-SB07 **Location** Arlington, WI

**Site and Design:**

A. Treated plot width: 10 FT

B. Treated plot length: 28 FT

C. Tillage type: conventional till

D. Study design: Randomized Complete Block 4 reps

**Planting Date:** 5/19/15

**Application Description:**

	<b>A</b>	<b>B</b>
<b>Application Date:</b>	5/20/2015	6/16/2015
<b>Type of Application</b>	PRE	POST
<b>Crop Stage</b>	-	V2
<b>Avg Weed Height</b>	-	0.5-3"
<b>Days until Precipitation</b>	4	8
<b>Air Temperature, Unit:</b>	51 F	82 F
<b>% Relative Humidity:</b>	63	56
<b>Wind Velocity, Unit:</b>	1.7 MPH	3 MPH
<b>Soil Temperature, Unit:</b>	51 F	75 F
<b>% Cloud Cover:</b>	100	5

**Application Equipment:**

	<b>A</b>	<b>B</b>
<b>Appl. Equipment:</b>	CO2 Backpack	CO2 Backpack
<b>Operating Pressure, Unit:</b>	19 PSI	19 PSI
<b>Nozzle Type:</b>	Flat Fan	Flat Fan
<b>Nozzle Size:</b>	XR11002	XR11002
<b>Boom Length, Unit:</b>	10 FT	10 FT
<b>Boom Height, Unit:</b>	20 IN	24 IN
<b>Ground Speed, Unit:</b>	3 MPH	3 MPH
<b>Carrier:</b>	WATER	WATER
<b>Spray Volume, Unit:</b>	15 GAL/AC	15 GAL/AC
<b>Mix Size, Unit:</b>	1.89 L	1.89 L

**HOW DATA WERE SUMMARIZED:** Weed control, crop injury and yield were averaged among the 4 replications and values are provided in the tables. As variability in performance/safety can occur among replications we have conducted statistical analyses that evaluate if treatments differed in their response. Note that treatments with different letters were found statistically to be different ( $p < 0.05$ ).





Pest Name					Velvetleaf	Lady's thumb	RR pigweed	Giant foxtail	Common dandelion	Lambsquarters	
Rating Date					7/7	10/14	10/14	10/14	10/14	10/14	10/19
Rating Type					% cntrl	% cntrl	% cntrl	% cntrl	% cntrl	% cntrl	YIELD Bu/A
Days After Last Applic.					21	120	120	120	120	120	125
Trt	Trt/Product	Rate	Rate Unit	Appl.							
1	NONTREATED CHECK				avg	0	0	0	0	0	33
2	Broadaxe 7 SC	25	fl oz/A	A	avg	100	100	100	100	95	100
	N-PAK AMS Liquid	2.5	%v/v	B		<i>a</i>	<i>a</i>	<i>a</i>	<i>ab</i>	<i>d</i>	<i>a</i>
	Flexstar GT 3.5	3.5	pt/a	B							
	Premium MSO	1	%v/v	B							
3	Boundary 6.5 EC	1.8	pt/a	A	avg	100	100	100	100	95	100
	N-PAK AMS Liquid	2.5	%v/v	B		<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>d</i>	<i>a</i>
	Flexstar GT 3.5	3.5	pt/a	B							
	Premium MSO	1	%v/v	B							
4	Broadaxe 7 SC	25	fl oz/A	A	avg	100	100	100	100	96	100
	N-PAK AMS Liquid	2.5	%v/v	B		<i>a</i>	<i>a</i>	<i>a</i>	<i>ab</i>	<i>bcd</i>	<i>a</i>
	Touchdown Total 4.17 SL	32	fl oz/A	B							
5	Boundary 6.5 EC	1.8	pt/a	A	avg	99	100	99	100	96	98
	N-PAK AMS Liquid	2.5	%v/v	B		<i>ab</i>	<i>a</i>	<i>b</i>	<i>a</i>	<i>cd</i>	<i>b</i>
	Touchdown Total 4.17 SL	32	fl oz/A	B							
6	Prefix	2	pt/a	A	avg	97	100	100	99	99	100
	N-PAK AMS Liquid	2.5	%v/v	B	stdev	<i>b</i>	<i>a</i>	<i>a</i>	<i>ab</i>	<i>ab</i>	<i>a</i>
	Touchdown Total 4.17 SL	32	fl oz/A	B							
7	Valor SX 51 WG	2	oz/a	A	avg	100	100	100	85	100	99
	N-PAK AMS Liquid	2.5	%v/v	B		<i>a</i>	<i>a</i>	<i>a</i>	<i>c</i>	<i>a</i>	<i>ab</i>
	Roundup Powermax 4.5 SL	29	fl oz/A	B							
8	Fierce 76 WDG	3	oz/a	A	avg	100	100	100	97	100	98
	N-PAK AMS Liquid	2.5	%v/v	B		<i>a</i>	<i>a</i>	<i>a</i>	<i>ab</i>	<i>a</i>	<i>ab</i>
	Roundup Powermax 4.5 SL	29	fl oz/A	B							
9	Sonic 70 DF	4	oz/a	A	avg	100	100	100	92	99	100
	N-PAK AMS Liquid	2.5	%v/v	B		<i>a</i>	<i>a</i>	<i>a</i>	<i>bc</i>	<i>a</i>	<i>a</i>
	Roundup Powermax 4.5 SL	29	fl oz/A	B							
10	Valor SX 51 WG	2	oz/a	A	avg	100	100	100	100	99	100
	Dual Magnum 7.62	1.25	pt/a	A		<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>
	N-PAK AMS Liquid	2.5	%v/v	B							
	Roundup Powermax 4.5 SL	29	fl oz/A	B							
11	Broadaxe 7 SC	25	fl oz/A	A	avg	100	100	100	100	98	100
	Tricor 75 DF	263	gai/ha	A		<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>abc</i>	<i>a</i>
	N-PAK AMS Liquid	2.5	%v/v	B							
	Touchdown Total 4.17 SL	32	fl oz/A	B							
12	Enlite 47.86 WG	2.8	oz/a	A	avg	100	100	100	92	100	100
	N-PAK AMS Liquid	2.5	%v/v	B		<i>a</i>	<i>a</i>	<i>a</i>	<i>bc</i>	<i>a</i>	<i>a</i>
	Roundup Powermax 4.5 SL	29	fl oz/A	B							