University of Wisconsin-Madison
Weed Science Program

Soybean Weed Control in Conventional Till
(BASF)

Trial ID: 15-ARL-SB08 **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:

	A	**B**
Application Date:	5/20/2015	7/15/2015
Type of Application	PRE	POST
Crop Stage	-	V6
Avg Weed Height	-	10-24”
Days until Precipitation	4	-
Air Temperature, Unit:	53.7 F	73 F
% Relative Humidity:	52.5	63
Wind Velocity, Unit:	0 MPH	1.3 MPH
Soil Temperature, Unit:	51 F	79 F
% Cloud Cover:	100	25

Application Equipment:

	A	**B**
Appl. Equipment:	CO2 Backpack	CO2 Backpack
Operating Pressure, Unit:	25 PSI	25 PSI
Nozzle Type:	Flat Fan	Flat Fan
Nozzle Size:	11002	11002
Boom Length, Unit:	10 FT	10 FT
Boom Height, Unit:	15 IN	15 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	15 GAL/AC	15 GAL/AC
Mix Size, Unit:	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 provided standard deviations for each average. The standard deviation should be considered when comparing means among treatments as this provides users with an idea of how variable the response was observed in the field.

Pest Name						Woolly cupgrass	velvetleaf	Woolly cupgrass	C. ragweed	velvetleaf	Lambsquarters	RR pigweed	C. ragweed	Giant foxtail	Lambsquarters
Rating Date						6/3	6/3	6/8	6/8	6/8	6/8	6/8	6/23	6/23	6/23
Rating Type						% cntrl	% cntrl	% cntrl	% cntrl	% cntrl	% cntrl	% cntrl	% cntrl	% cntrl	% cntrl
Days After First/Last Applic.						14 14	14 14	19 19	19 19	19 19	19 19	19 19	34 34	34 34	34 34
Trt No	Treatment Name	Rate	Rate Unit	Appl.											
1	NONTREATED CHECK				avg	0	0	0	0	0	0	0	0	0	0
2	SHARPEN	1	fl oz/a	A	avg	100	100	99	100	99	100	100	100	98	97
	ZIDUA SC	4	fl oz/a	A	stdev	***0***	***0***	***1***	***0***	***2***	***0***	***0***	***0***	***2***	***5***
	Roundup Powermax	22	fl oz/a	B											
	Ammonium Sulfate	8.5	lb/100 gal	B											
3	OPTILL	2	oz wt/a	A	avg	94	88	100	100	97	100	100	100	100	100
	OUTLOOK	10	fl oz/a	A	stdev	***13***	***14***	***1***	***0***	***4***	***0***	***0***	***0***	***0***	***0***
	Roundup Powermax	22	fl oz/a	B											
	Ammonium Sulfate	8.5	lb/100 gal	B											
4	OPTILL	1.5	oz wt/a	A	avg	100	100	97	100	98	98	100	99	97	100
	ZIDUA WG	1.5	oz wt/a	A	stdev	***0***	***0***	***4***	***0***	***4***	***4***	***0***	***2***	***3***	***0***
	Roundup Powermax	22	fl oz/a	B											
	Ammonium Sulfate	8.5	lb/100 gal	B											
5	OPTILL	2	oz wt/a	A	avg	94	94	99	100	98	100	100	99	99	99
	ZIDUA WG	2	oz wt/a	A	stdev	***13***	***13***	***2***	***0***	***5***	***0***	***0***	***3***	***2***	***2***
	Roundup Powermax	22	fl oz/a	B											
	Ammonium Sulfate	8.5	lb/100 gal	B											
6	Verdict	5	fl oz/a	A	avg	100	94	99	98	97	100	100	98	98	97
	ZIDUA WG	2	oz wt/a	A	stdev	***0***	***13***	***2***	***3***	***4***	***0***	***0***	***2***	***3***	***3***
	Roundup Powermax	22	fl oz/a	B											
	Ammonium Sulfate	8.5	lb/100 gal	B											
7	Prowl H2O	40	fl oz/a	A	avg	100	56	93	86	74	95	96	85	95	99
	Roundup Powermax	22	fl oz/a	B	stdev	***0***	***38***	***3***	***5***	***36***	***7***	***5***	***5***	***4***	***3***
	Ammonium Sulfate	8.5	lb/100 gal	B											
8	FIERCE	4.5	oz wt/a	A	avg	100	100	100	100	100	100	100	100	100	99
	Roundup Powermax	22	fl oz/a	B	stdev	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***2***
	Ammonium Sulfate	8.5	lb/100 gal	B											
9	FIERCE XLT	5.25	oz wt/a	A	avg	100	100	100	100	100	99	100	100	99	100
	Roundup Powermax	22	fl oz/a	B	stdev	***0***	***0***	***0***	***0***	***0***	***3***	***0***	***0***	***2***	***0***
	Ammonium Sulfate	8.5	lb/100 gal	B											
10	Anthem	8.5	fl oz/a	A	avg	100	88	99	95	96	95	100	91	99	95
	Roundup Powermax	22	fl oz/a	B	stdev	***0***	***14***	***3***	***6***	***5***	***4***	***0***	***5***	***2***	***3***
	Ammonium Sulfate	8.5	lb/100 gal	B											
11	PREFIX	32	fl oz/a	A	avg	100	84	100	100	79	99	100	100	100	99
	Roundup Powermax	22	fl oz/a	B	stdev	***0***	***20***	***0***	***0***	***9***	***3***	***0***	***0***	***1***	***2***
	Ammonium Sulfate	8.5	lb/100 gal	B											
12	AUTHORITY MAXX	8	oz wt/a	A	avg	100	100	98	100	100	100	100	97	96	100
	Roundup Powermax	22	fl oz/a	B	stdev	***0***	***0***	***3***	***0***	***0***	***0***	***0***	***4***	***4***	***0***
	Ammonium Sulfate	8.5	lb/100 gal	B											

Pest Name						RR pigweed	E.B. nightshade	velvetleaf	Ladysthumb	Lambsquarters	C. ragweed	C. dandelion	Giant foxtail	velvetleaf	Ladysthumb
Rating Date						6/23	6/23	6/23	6/23	7/15	7/15	7/15	7/15	7/15	7/15
Rating Type						% cntrl	% cntrl	% cntrl	% cntrl	% cntrl	% cntrl	% cntrl	% cntrl	% cntrl	% cntrl
Days After First/Last Applic.						34 34	34 34	34 34	34 34	56 56	56 56	56 56	56 56	56 56	56 56
Trt No	Treatment Name	Rate	Rate Unit	Appl.											
1	NONTREATED CHECK				avg	0	0	0	0	0	0	0	0	0	0
2	SHARPEN	1	fl oz/a	A	avg	100	100	100	100	94	100	92	92	99	100
	ZIDUA SC	4	fl oz/a	A	stdev	***0***	***0***	***0***	***0***	***2***	***0***	***4***	***9***	***2***	***0***
	Roundup Powermax	22	fl oz/a	B											
	Ammonium Sulfate	8.5	lb/100 gal	B											
3	OPTILL	2	oz wt/a	A	avg	100	100	100	100	100	100	86	96	100	100
	OUTLOOK	10	fl oz/a	A	stdev	***0***	***0***	***0***	***0***	***0***	***1***	***11***	***1***	***0***	***0***
	Roundup Powermax	22	fl oz/a	B											
	Ammonium Sulfate	8.5	lb/100 gal	B											
4	OPTILL	1.5	oz wt/a	A	avg	100	100	100	100	100	99	93	90	100	100
	ZIDUA WG	1.5	oz wt/a	A	stdev	***0***	***0***	***0***	***0***	***0***	***3***	***6***	***14***	***0***	***0***
	Roundup Powermax	22	fl oz/a	B											
	Ammonium Sulfate	8.5	lb/100 gal	B											
5	OPTILL	2	oz wt/a	A	avg	100	100	100	95	98	98	94	95	100	96
	ZIDUA WG	2	oz wt/a	A	stdev	***0***	***0***	***0***	***10***	***2***	***2***	***5***	***4***	***0***	***9***
	Roundup Powermax	22	fl oz/a	B											
	Ammonium Sulfate	8.5	lb/100 gal	B											
6	Verdict	5	fl oz/a	A	avg	100	100	100	100	95	91	92	93	98	100
	ZIDUA WG	2	oz wt/a	A	stdev	***0***	***0***	***0***	***0***	***6***	***6***	***9***	***5***	***2***	***0***
	Roundup Powermax	22	fl oz/a	B											
	Ammonium Sulfate	8.5	lb/100 gal	B											
7	Prowl H2O	40	fl oz/a	A	avg	98	93	93	87	95	33	93	97	74	100
	Roundup Powermax	22	fl oz/a	B	stdev	***5***	***10***	***7***	***16***	***6***	***39***	***8***	***4***	***16***	***0***
	Ammonium Sulfate	8.5	lb/100 gal	B											
8	FIERCE	4.5	oz wt/a	A	avg	100	100	100	100	99	100	98	100	100	100
	Roundup Powermax	22	fl oz/a	B	stdev	***0***	***0***	***0***	***0***	***2***	***0***	***3***	***0***	***0***	***0***
	Ammonium Sulfate	8.5	lb/100 gal	B											
9	FIERCE XLT	5.25	oz wt/a	A	avg	100	100	100	100	100	100	100	95	100	100
	Roundup Powermax	22	fl oz/a	B	stdev	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***4***	***0***	***0***
	Ammonium Sulfate	8.5	lb/100 gal	B											
10	Anthem	8.5	fl oz/a	A	avg	100	100	94	92	93	56	95	98	93	94
	Roundup Powermax	22	fl oz/a	B	stdev	***0***	***0***	***5***	***10***	***3***	***41***	***4***	***2***	***7***	***13***
	Ammonium Sulfate	8.5	lb/100 gal	B											
11	PREFIX	32	fl oz/a	A	avg	100	98	91	100	95	96	91	98	61	100
	Roundup Powermax	22	fl oz/a	B	stdev	***0***	***5***	***6***	***0***	***3***	***8***	***7***	***5***	***9***	***0***
	Ammonium Sulfate	8.5	lb/100 gal	B											
12	AUTHORITY MAXX	8	oz wt/a	A	avg	100	100	99	100	100	95	100	86	100	100
	Roundup Powermax	22	fl oz/a	B	stdev	***0***	***0***	***2***	***0***	***0***	***4***	***0***	***11***	***0***	***0***
	Ammonium Sulfate	8.5	lb/100 gal	B											

Pest Name						RR pigweed	Giant foxtail	Ladysthumb	Lambsquarters	C. ragweed	Woolly cupgrass	RR pigweed	C. ragweed	
Rating Date						7/15	10/14	10/14	10/14	10/14	10/14	10/14	10/14	10/20
Rating Type						% cntrl	% cntrl	% cntrl	% cntrl	% cntrl	% cntrl	% cntrl	% cntrl	YIELD Bu/A
Days After First/Last Applic.						56 56	147 91	147 91	147 91	147 91	147 91	147 91	147 91	153 97
Trt No	Treatment Name	Rate	Rate Unit	Appl.										
1	NONTREATED CHECK				avg	0	0	0	0	0	0	0	0	23 (3)
2	SHARPEN	1	fl oz/a	A	avg	100	100	100	100	100	100	100	98	49
	ZIDUA SC	4	fl oz/a	A	stdev	0	0	0	0	0	0	0	2	2
	Roundup Powermax	22	fl oz/a	B										
	Ammonium Sulfate	8.5	lb/100 gal	B										
3	OPTILL	2	oz wt/a	A	avg	100	100	100	100	100	100	100	96	49
	OUTLOOK	10	fl oz/a	A	stdev	0	0	0	0	0	0	0	1	3
	Roundup Powermax	22	fl oz/a	B										
	Ammonium Sulfate	8.5	lb/100 gal	B										
4	OPTILL	1.5	oz wt/a	A	avg	100	100	100	100	100	100	100	99	51
	ZIDUA WG	1.5	oz wt/a	A	stdev	0	0	1	0	0	0	0	1	1
	Roundup Powermax	22	fl oz/a	B										
	Ammonium Sulfate	8.5	lb/100 gal	B										
5	OPTILL	2	oz wt/a	A	avg	100	100	100	100	100	100	100	98	47
	ZIDUA WG	2	oz wt/a	A	stdev	0	0	0	0	0	0	0	1	3
	Roundup Powermax	22	fl oz/a	B										
	Ammonium Sulfate	8.5	lb/100 gal	B										
6	Verdict	5	fl oz/a	A	avg	100	100	100	100	100	100	100	98	50
	ZIDUA WG	2	oz wt/a	A	stdev	0	0	1	0	0	0	0	3	4
	Roundup Powermax	22	fl oz/a	B										
	Ammonium Sulfate	8.5	lb/100 gal	B										
7	Prowl H2O	40	fl oz/a	A	avg	97	100	100	100	100	100	100	95	47
	Roundup Powermax	22	fl oz/a	B	stdev	6	0	1	0	0	0	0	4	2
	Ammonium Sulfate	8.5	lb/100 gal	B										
8	FIERCE	4.5	oz wt/a	A	avg	100	100	100	100	100	100	100	98	49
	Roundup Powermax	22	fl oz/a	B	stdev	0	0	0	0	0	0	0	1	1
	Ammonium Sulfate	8.5	lb/100 gal	B										
9	FIERCE XLT	5.25	oz wt/a	A	avg	100	100	100	100	100	100	100	100	46
	Roundup Powermax	22	fl oz/a	B	stdev	0	0	0	0	0	0	0	0	4
	Ammonium Sulfate	8.5	lb/100 gal	B										
10	Anthem	8.5	fl oz/a	A	avg	100	100	100	100	100	100	100	95	50
	Roundup Powermax	22	fl oz/a	B	stdev	0	0	0	1	0	0	0	3	1
	Ammonium Sulfate	8.5	lb/100 gal	B										
11	PREFIX	32	fl oz/a	A	avg	100	100	100	100	100	100	100	98	49
	Roundup Powermax	22	fl oz/a	B	stdev	0	0	0	0	0	0	0	1	3
	Ammonium Sulfate	8.5	lb/100 gal	B										
12	AUTHORITY MAXX	8	oz wt/a	A	avg	100	100	100	100	100	100	100	100	49
	Roundup Powermax	22	fl oz/a	B	stdev	0	0	0	0	0	0	0	1	4
	Ammonium Sulfate	8.5	lb/100 gal	B										