

MSU Weed Science Research Program

Dicamba weed control programs in RR2 Xtend (South) - Non-crop

Trial ID: NC03-15 Study Dir.: Sprague and Powell  
 Conducted: Campus C-13 Investigator: Christy Sprague

Date Planted: Row Spacing: - IN  
 Variety: - No. of Reps: 4  
 Population: - % OM: 3.3  
 Soil Type: Silt Loam pH: 7.3  
 Plot Size: 10 X 30 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: Chisel and soil finished

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	ANGR	mainly foxtail species	SETARIA SP.
2.	CHEAL	LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
3.	AMBEL	RAGWEED, COMMON	AMBROSIA ARTEMISIIFOLIA L.
4.	SOLPT	NIGHTSHADE, EASTERN BLACK	SOLANUM PTYCANTHUM DUNAL

Application Description

	A	B
Application Timing:	PRE	POST
Date Treated:	Jun/03/2015	Aug/05/2015
Time Treated:	4:45 PM	10:30 AM
% Cloud Cover:	0	40
Air Temp., Unit:	78 F	70 F
% Relative Humidity:	36	66
Wind Speed/Unit/Dir:	6 mph S	2 mph NE
Soil Temp., Unit:	66 F	70 F
Soil/Leaf Surface M:	5 -	5 -
Soil Moist (1=w 5=d):	4	4

Crop Stage at Each Application

	A	B
Height (In.):	-	-
Stage (L):	-	-

Weed Stage at Each Application

	A	B
Weed 1 Name:	ANGR	ANGR
Height (In.):	-	3-13(8")
Stage (L):	-	6-many
Weed 2 Name:	CHEAL	CHEAL
Height (In.):	-	-
Stage (L):	-	-
Weed 3 Name:	AMBEL	AMBEL
Height (In.):	-	9-24(8")
Stage (L):	-	many
Weed 4 Name:	SOLPT	SOLPT
Height (In.):	-	-
Stage (L):	-	-

Weed Density (plants/sq. ft.)

	1	2	3	4
Weed Name:	ANGR	CHEAL	AMBEL	SOLPT
Density:	10	2	2	3

Application Equipment

Appl	Sprayer Type	Speed MPH	Nozzle Type	Nozzle Size	Nozzle Height	Nozzle Spacing	Boom Width	GPA	Carrier	PSI
A	Cub	3.8	AIXR	11003	22"	20"	100"	19	Water	28
B	Cub	3.8	AIXR	11003	29"	20"	100"	19	Water	28

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Weed Code								ANGR	CHEAL	AMBEL	SOLPT	ANGR
Crop Code												
Rating Data Type								control	control	control	control	control
Rating Unit								percent	percent	percent	percent	percent
Rating Date								Jul/23/2015	Jul/23/2015	Jul/23/2015	Jul/23/2015	Aug/05/2015
Trt-Eval Interval								50 DA-A	50 DA-A	50 DA-A	50 DA-A	0 DA-B
# Subsamples, Dec.								0	0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	Appl Code					
1	Trivence (8 oz)	61.3	WG					89	99	99	99	82
1	Valor (Premix)	51	WG	2	oz/a	PRE	A					
1	Classic (Premix)	25	WG	1.28	oz/a	PRE	A					
1	Metribuzin (Premix)	75	WG	4.75	oz/a	PRE	A					
1	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B					
1	Clarity	4	L	8	fl oz/a	POST	B					
2	Trivence (8 oz)	61.3	WG					90	99	99	99	78
2	Valor (Premix)	51	WG	2	oz/a	PRE	A					
2	Classic (Premix)	25	WG	1.28	oz/a	PRE	A					
2	Metribuzin (Premix)	75	WG	4.75	oz/a	PRE	A					
2	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B					
2	Clarity	4	L	8	fl oz/a	POST	B					
2	Cinch	7.64	L	1	pt/a	POST	B					
3	Envive (3.5 oz)	41.3	WG					90	99	98	99	78
3	Valor (Premix)	51	WG	2	oz/a	PRE	A					
3	Classic (Premix)	25	WG	1.28	oz/a	PRE	A					
3	Harmony SG (Premix)	50	WG	0.2	oz/a	PRE	A					
3	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B					
3	Clarity	4	L	8	fl oz/a	POST	B					
4	Envive (3.5 oz)	41.3	WG					86	99	97	99	79
4	Valor (Premix)	51	WG	2	oz/a	PRE	A					
4	Classic (Premix)	25	WG	1.28	oz/a	PRE	A					
4	Harmony SG (Premix)	50	WG	0.2	oz/a	PRE	A					
4	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B					
4	Clarity	4	L	8	fl oz/a	POST	B					
4	Cinch	7.64	L	1	pt/a	POST	B					
5	Untreated							0	0	0	0	0
6	Envive (3.5 oz)	41.3	WG					94	99	97	99	83
6	Valor (Premix)	51	WG	2	oz/a	PRE	A					
6	Classic (Premix)	25	WG	1.28	oz/a	PRE	A					
6	Harmony SG (Premix)	50	WG	0.2	oz/a	PRE	A					
6	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B					
6	Prefix	5.29	L	2	pt/a	POST	B					
7	Canopy	75	WG	6	oz/a	PRE	A	99	99	95	99	95
7	Cinch	7.64	L	1	pt/a	PRE	A					
7	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B					
7	Clarity	4	L	8	fl oz/a	POST	B					
8	Canopy	75	WG	6	oz/a	PRE	A	99	99	93	99	91
8	Cinch	7.64	L	1	pt/a	PRE	A					
8	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B					
8	Clarity	4	L	8	fl oz/a	POST	B					
8	Cinch	7.64	L	1	pt/a	POST	B					
9	Rowel	51	WG	2.5	oz/a	PRE	A	82	99	99	99	77
9	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B					
9	Clarity	4	L	8	fl oz/a	POST	B					
9	Warrant	3	L	3	pt/a	POST	B					
LSD (P=.05)								5.7	0.0	5.5	0.0	7.4
CV								4.85	0.0	4.34	0.0	6.87

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

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Trial ID: NC03-15 Study Dir.: Sprague and Powell  
 Conducted: Campus C-13 Investigator: Christy Sprague

Weed Code								CHEAL	AMBEL	SOLPT	ANGR
Crop Code											
Rating Data Type								control	control	control	control
Rating Unit								percent	percent	percent	percent
Rating Date								Aug/05/2015	Aug/05/2015	Aug/05/2015	Aug/13/2015
Trt-Eval Interval								0 DA-B	0 DA-B	0 DA-B	8 DA-B
# Subsamples, Dec.								0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
1	Trivence (8 oz)	61.3	WG					99	98	99	98
1	Valor (Premix)	51	WG	2	oz/a	PRE	A				
1	Classic (Premix)	25	WG	1.28	oz/a	PRE	A				
1	Metribuzin (Premix)	75	WG	4.75	oz/a	PRE	A				
1	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
1	Clarity	4	L	8	fl oz/a	POST	B				
2	Trivence (8 oz)	61.3	WG					99	99	99	98
2	Valor (Premix)	51	WG	2	oz/a	PRE	A				
2	Classic (Premix)	25	WG	1.28	oz/a	PRE	A				
2	Metribuzin (Premix)	75	WG	4.75	oz/a	PRE	A				
2	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
2	Clarity	4	L	8	fl oz/a	POST	B				
2	Cinch	7.64	L	1	pt/a	POST	B				
3	Envive (3.5 oz)	41.3	WG					99	97	99	95
3	Valor (Premix)	51	WG	2	oz/a	PRE	A				
3	Classic (Premix)	25	WG	1.28	oz/a	PRE	A				
3	Harmony SG (Premix)	50	WG	0.2	oz/a	PRE	A				
3	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
3	Clarity	4	L	8	fl oz/a	POST	B				
4	Envive (3.5 oz)	41.3	WG					99	96	99	98
4	Valor (Premix)	51	WG	2	oz/a	PRE	A				
4	Classic (Premix)	25	WG	1.28	oz/a	PRE	A				
4	Harmony SG (Premix)	50	WG	0.2	oz/a	PRE	A				
4	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
4	Clarity	4	L	8	fl oz/a	POST	B				
4	Cinch	7.64	L	1	pt/a	POST	B				
5	Untreated							0	0	0	0
6	Envive (3.5 oz)	41.3	WG					99	99	99	99
6	Valor (Premix)	51	WG	2	oz/a	PRE	A				
6	Classic (Premix)	25	WG	1.28	oz/a	PRE	A				
6	Harmony SG (Premix)	50	WG	0.2	oz/a	PRE	A				
6	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
6	Prefix	5.29	L	2	pt/a	POST	B				
7	Canopy	75	WG	6	oz/a	PRE	A	99	94	97	99
7	Cinch	7.64	L	1	pt/a	PRE	A				
7	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
7	Clarity	4	L	8	fl oz/a	POST	B				
8	Canopy	75	WG	6	oz/a	PRE	A	99	93	96	99
8	Cinch	7.64	L	1	pt/a	PRE	A				
8	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
8	Clarity	4	L	8	fl oz/a	POST	B				
8	Cinch	7.64	L	1	pt/a	POST	B				
9	Rowel	51	WG	2.5	oz/a	PRE	A	99	94	99	98
9	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
9	Clarity	4	L	8	fl oz/a	POST	B				
9	Warrant	3	L	3	pt/a	POST	B				
LSD (P=.05)								0.0	8.0	3.5	4.0
CV								0.0	6.38	2.75	3.17

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

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								CHEAL	AMBEL	SOLPT	ANGR
								control	control	control	control
								percent	percent	percent	percent
								Aug/13/2015	Aug/13/2015	Aug/13/2015	Aug/19/2015
								8 DA-B	8 DA-B	8 DA-B	14 DA-B
								0	0	0	0
Trt	Treatment	Form	Form	Rate	Grow	Appl					
No.	Name	Conc	Type	Unit	Stg	Code					
1	Trivence (8 oz)	61.3	WG				99	99	99	99	
1	Valor (Premix)	51	WG	2	oz/a	PRE A					
1	Classic (Premix)	25	WG	1.28	oz/a	PRE A					
1	Metribuzin (Premix)	75	WG	4.75	oz/a	PRE A					
1	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B					
1	Clarity	4	L	8	fl oz/a	POST B					
2	Trivence (8 oz)	61.3	WG				99	98	99	99	
2	Valor (Premix)	51	WG	2	oz/a	PRE A					
2	Classic (Premix)	25	WG	1.28	oz/a	PRE A					
2	Metribuzin (Premix)	75	WG	4.75	oz/a	PRE A					
2	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B					
2	Clarity	4	L	8	fl oz/a	POST B					
2	Cinch	7.64	L	1	pt/a	POST B					
3	Envive (3.5 oz)	41.3	WG				99	99	99	97	
3	Valor (Premix)	51	WG	2	oz/a	PRE A					
3	Classic (Premix)	25	WG	1.28	oz/a	PRE A					
3	Harmony SG (Premix)	50	WG	0.2	oz/a	PRE A					
3	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B					
3	Clarity	4	L	8	fl oz/a	POST B					
4	Envive (3.5 oz)	41.3	WG				99	94	99	99	
4	Valor (Premix)	51	WG	2	oz/a	PRE A					
4	Classic (Premix)	25	WG	1.28	oz/a	PRE A					
4	Harmony SG (Premix)	50	WG	0.2	oz/a	PRE A					
4	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B					
4	Clarity	4	L	8	fl oz/a	POST B					
4	Cinch	7.64	L	1	pt/a	POST B					
5	Untreated						0	0	0	0	
6	Envive (3.5 oz)	41.3	WG				99	96	99	99	
6	Valor (Premix)	51	WG	2	oz/a	PRE A					
6	Classic (Premix)	25	WG	1.28	oz/a	PRE A					
6	Harmony SG (Premix)	50	WG	0.2	oz/a	PRE A					
6	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B					
6	Prefix	5.29	L	2	pt/a	POST B					
7	Canopy	75	WG	6	oz/a	PRE A	99	93	99	99	
7	Cinch	7.64	L	1	pt/a	PRE A					
7	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B					
7	Clarity	4	L	8	fl oz/a	POST B					
8	Canopy	75	WG	6	oz/a	PRE A	99	90	99	99	
8	Cinch	7.64	L	1	pt/a	PRE A					
8	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B					
8	Clarity	4	L	8	fl oz/a	POST B					
8	Cinch	7.64	L	1	pt/a	POST B					
9	Rowel	51	WG	2.5	oz/a	PRE A	99	99	99	99	
9	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B					
9	Clarity	4	L	8	fl oz/a	POST B					
9	Warrant	3	L	3	pt/a	POST B					
LSD (P=.05)								0.0	7.3	0.0	2.3
CV								0.0	5.89	0.0	1.77

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

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								CHEAL	AMBEL	SOLPT	ANGR
								control	control	control	control
								percent	percent	percent	percent
								Aug/19/2015	Aug/19/2015	Aug/19/2015	Sep/02/2015
								14 DA-B	14 DA-B	14 DA-B	28 DA-B
								0	0	0	0
Trt	Treatment	Form	Form	Rate	Grow	Appl					
No.	Name	Conc	Type	Unit	Stg	Code					
1	Trivence (8 oz)	61.3	WG				99	99	99	88	
1	Valor (Premix)	51	WG	2	oz/a	PRE A					
1	Classic (Premix)	25	WG	1.28	oz/a	PRE A					
1	Metribuzin (Premix)	75	WG	4.75	oz/a	PRE A					
1	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B					
1	Clarity	4	L	8	fl oz/a	POST B					
2	Trivence (8 oz)	61.3	WG				99	91	99	98	
2	Valor (Premix)	51	WG	2	oz/a	PRE A					
2	Classic (Premix)	25	WG	1.28	oz/a	PRE A					
2	Metribuzin (Premix)	75	WG	4.75	oz/a	PRE A					
2	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B					
2	Clarity	4	L	8	fl oz/a	POST B					
2	Cinch	7.64	L	1	pt/a	POST B					
3	Envive (3.5 oz)	41.3	WG				99	94	99	88	
3	Valor (Premix)	51	WG	2	oz/a	PRE A					
3	Classic (Premix)	25	WG	1.28	oz/a	PRE A					
3	Harmony SG (Premix)	50	WG	0.2	oz/a	PRE A					
3	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B					
3	Clarity	4	L	8	fl oz/a	POST B					
4	Envive (3.5 oz)	41.3	WG				99	86	99	97	
4	Valor (Premix)	51	WG	2	oz/a	PRE A					
4	Classic (Premix)	25	WG	1.28	oz/a	PRE A					
4	Harmony SG (Premix)	50	WG	0.2	oz/a	PRE A					
4	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B					
4	Clarity	4	L	8	fl oz/a	POST B					
4	Cinch	7.64	L	1	pt/a	POST B					
5	Untreated						0	0	0	0	
6	Envive (3.5 oz)	41.3	WG				99	94	99	98	
6	Valor (Premix)	51	WG	2	oz/a	PRE A					
6	Classic (Premix)	25	WG	1.28	oz/a	PRE A					
6	Harmony SG (Premix)	50	WG	0.2	oz/a	PRE A					
6	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B					
6	Prefix	5.29	L	2	pt/a	POST B					
7	Canopy	75	WG	6	oz/a	PRE A	99	87	99	87	
7	Cinch	7.64	L	1	pt/a	PRE A					
7	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B					
7	Clarity	4	L	8	fl oz/a	POST B					
8	Canopy	75	WG	6	oz/a	PRE A	99	88	99	99	
8	Cinch	7.64	L	1	pt/a	PRE A					
8	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B					
8	Clarity	4	L	8	fl oz/a	POST B					
8	Cinch	7.64	L	1	pt/a	POST B					
9	Rowel	51	WG	2.5	oz/a	PRE A	99	99	99	97	
9	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B					
9	Clarity	4	L	8	fl oz/a	POST B					
9	Warrant	3	L	3	pt/a	POST B					
LSD (P=.05)								0.0	10.9	0.0	4.5
CV								0.0	9.11	0.0	3.71

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

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Weed Code								CHEAL	AMBEL	SOLPT
Crop Code										
Rating Data Type								control	control	control
Rating Unit								percent	percent	percent
Rating Date								Sep/02/2015	Sep/02/2015	Sep/02/2015
Trt-Eval Interval								28 DA-B	28 DA-B	28 DA-B
# Subsamples, Dec.								0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code			
1	Trivence (8 oz)	61.3	WG					99	99	99
1	Valor (Premix)	51	WG	2	oz/a	PRE	A			
1	Classic (Premix)	25	WG	1.28	oz/a	PRE	A			
1	Metribuzin (Premix)	75	WG	4.75	oz/a	PRE	A			
1	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B			
1	Clarity	4	L	8	fl oz/a	POST	B			
2	Trivence (8 oz)	61.3	WG					99	96	99
2	Valor (Premix)	51	WG	2	oz/a	PRE	A			
2	Classic (Premix)	25	WG	1.28	oz/a	PRE	A			
2	Metribuzin (Premix)	75	WG	4.75	oz/a	PRE	A			
2	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B			
2	Clarity	4	L	8	fl oz/a	POST	B			
2	Cinch	7.64	L	1	pt/a	POST	B			
3	Envive (3.5 oz)	41.3	WG					99	94	99
3	Valor (Premix)	51	WG	2	oz/a	PRE	A			
3	Classic (Premix)	25	WG	1.28	oz/a	PRE	A			
3	Harmony SG (Premix)	50	WG	0.2	oz/a	PRE	A			
3	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B			
3	Clarity	4	L	8	fl oz/a	POST	B			
4	Envive (3.5 oz)	41.3	WG					99	93	99
4	Valor (Premix)	51	WG	2	oz/a	PRE	A			
4	Classic (Premix)	25	WG	1.28	oz/a	PRE	A			
4	Harmony SG (Premix)	50	WG	0.2	oz/a	PRE	A			
4	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B			
4	Clarity	4	L	8	fl oz/a	POST	B			
4	Cinch	7.64	L	1	pt/a	POST	B			
5	Untreated							0	0	0
6	Envive (3.5 oz)	41.3	WG					99	92	99
6	Valor (Premix)	51	WG	2	oz/a	PRE	A			
6	Classic (Premix)	25	WG	1.28	oz/a	PRE	A			
6	Harmony SG (Premix)	50	WG	0.2	oz/a	PRE	A			
6	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B			
6	Prefix	5.29	L	2	pt/a	POST	B			
7	Canopy	75	WG	6	oz/a	PRE	A	99	91	99
7	Cinch	7.64	L	1	pt/a	PRE	A			
7	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B			
7	Clarity	4	L	8	fl oz/a	POST	B			
8	Canopy	75	WG	6	oz/a	PRE	A	99	92	99
8	Cinch	7.64	L	1	pt/a	PRE	A			
8	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B			
8	Clarity	4	L	8	fl oz/a	POST	B			
8	Cinch	7.64	L	1	pt/a	POST	B			
9	Rowel	51	WG	2.5	oz/a	PRE	A	99	99	99
9	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B			
9	Clarity	4	L	8	fl oz/a	POST	B			
9	Warrant	3	L	3	pt/a	POST	B			
LSD (P=.05)								0.0	12.5	0.0
CV								0.0	10.16	0.0

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