

MSU Weed Science Research Program

Cobra and Clarity combinations for common ragweed control

Trial ID: NC04-15 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: Spring chiseled and soil finished

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	AMBEL	RAGWEED, COMMON	AMBROSIA ARTEMISIIFOLIA L.

Application Description

	A	B
Application Timing:	POST	LPOS
Date Treated:	Aug/05/2015	Aug/19/2015
Time Treated:	10:30 AM	9:00 am
% Cloud Cover:	40	90
Air Temp., Unit:	70 F	73 F
% Relative Humidity:	66	75
Wind Speed/Unit/Dir:	2 mph NE	3 mph S
Soil Temp., Unit:	70 F	74 F
Soil/Leaf Surface M:	5 5	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:	AMBEL	AMBEL
Height (In.):	6-20"	15"
Stage (L):	many	many

Weed Density (plants/sq. ft.)

	1
Weed Name:	AMBEL
Density:	2

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	29"	20"	100"	19	Water	28
B	Cub	3.8	AIXR	11003	29"	20"	100"	19	Water	28

Comments: Dual II Magnum was applied PRE at 1.33 pt/A on June 3, 2015.

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Weed Code								AMBEL	AMBEL	AMBEL	AMBEL
Crop Code											
Rating Data Type								control	control	control	control
Rating Unit								percent	percent	percent	percent
Rating Date								Aug/13/2015	Aug/19/2015	Aug/26/2015	Sep/02/2015
Trt-Eval Interval								8 DA-A	14 DA-A	7 DA-B	14 DA-B
# Subsamples, Dec.								0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
1	Clarity	4	L	8	fl oz/a	POST	A	62	67	68	70
2	Clarity	4	L	16	fl oz/a	POST	A	68	70	71	75
3	Cobra	2	L	10	fl oz/a	POST	A	83	73	43	30
3	Crop oil concentrate		L	1	pt/a	POST	A				
4	Cobra	2	L	12.5	fl oz/a	POST	A	78	68	65	53
4	Crop oil concentrate		L	1	pt/a	POST	A				
5	Cobra	2	L	16	fl oz/a	POST	A	80	68	62	52
5	Crop oil concentrate		L	1	pt/a	POST	A				
6	Untreated							0	0	0	0
7	Clarity	4	L	8	fl oz/a	POST	A	81	83	88	85
7	Cobra	2	L	10	fl oz/a	POST	A				
7	Crop oil concentrate		L	1	pt/a	POST	A				
8	Clarity	4	L	8	fl oz/a	POST	A	83	83	81	81
8	Cobra	2	L	12.5	fl oz/a	POST	A				
8	Crop oil concentrate		L	1	pt/a	POST	A				
9	Clarity	4	L	16	fl oz/a	POST	A	83	85	86	87
9	Cobra	2	L	10	fl oz/a	POST	A				
9	Crop oil concentrate		L	1	pt/a	POST	A				
10	Clarity	4	L	16	fl oz/a	POST	A	83	86	89	92
10	Cobra	2	L	12.5	fl oz/a	POST	A				
10	Crop oil concentrate		L	1	pt/a	POST	A				
11	Clarity	4	L	8	fl oz/a	POST	A	65	67	82	85
11	Cobra	2	L	10	fl oz/a	LPOS	B				
11	Crop oil concentrate		L	1	pt/a	LPOS	B				
12	Clarity	4	L	8	fl oz/a	POST	A	69	74	90	94
12	Cobra	2	L	12.5	fl oz/a	LPOS	B				
12	Crop oil concentrate		L	1	pt/a	LPOS	B				
13	Clarity	4	L	16	fl oz/a	POST	A	66	64	86	90
13	Cobra	2	L	10	fl oz/a	LPOS	B				
13	Crop oil concentrate		L	1	pt/a	LPOS	B				
14	Clarity	4	L	16	fl oz/a	POST	A	67	67	95	97
14	Cobra	2	L	12.5	fl oz/a	LPOS	B				
14	Crop oil concentrate		L	1	pt/a	LPOS	B				
15	Clarity	4	L	16	fl oz/a	POST	A	88	90	98	99
15	Flexstar	1.88	L	1	pt/a	POST	A				
15	Crop oil concentrate		L	1	pt/a	POST	A				
16	V-10404	3.02	L	24	fl oz/a	POST	A				
16	Crop oil concentrate		L	1	pt/a	POST	A				
LSD (P=.05)								9.1	9.7	14.5	9.1
CV								9.03	9.72	13.75	8.74

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