

MSU Weed Science Research Program

Postemergence applications of Ultra Blazer in dry edible beans

Trial ID: DB04-14 Study Dir.: Sprague, Powell
 Conducted: T-15 Campus Investigator: Christy Sprague

Date Planted: Jun/16/2014 Row Spacing: 30 IN
 Variety: 'Zorro' black beans No. of Reps: 4
 Population: 105,000 seeds/acre % OM: 3.2
 Soil Type: Loam pH: 6.5
 Plot Size: 10 X 35 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: Fall chisel plow, spring soil finish.
 Fertilizer: 132 lb/A of 19-19-19 banded with planter

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	CHEAL	LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
2.	AMAPO	AMARANTH, POWELL	AMARANTHUS POWELLII S.WATS.
3.	AMBEL	RAGWEED, COMMON	AMBROSIA ARTEMISIIFOLIA L.
4.	SOLPT	NIGHTSHADE, EASTERN BLACK	SOLANUM PTYCANTHUM DUNAL
Crop	Code	Common Name	
1.	PHSVX	BEAN, DRY	

Application Description

A
 Application Timing: POST
 Date Treated: Jul/17/2014
 Time Treated: 10:30 am
 % Cloud Cover: 0
 Air Temp., Unit: 66 F
 % Relative Humidity: 59
 Wind Speed/Unit/Dir: 3 mph E
 Soil Temp., Unit: 65 F
 Soil/Leaf Surface M: 5 5
 Soil Moist (1=w 5=d): 4

Crop Stage at Each Application

A
 Crop Name: PHSVX
 Height (In.): 12"
 Stage (L): V3-V4

Weed Stage at Each Application

A
 Weed 1 Name: CHEAL
 Height (In.): 3-5" (4")
 Stage (L): 10-12
 Weed 2 Name: AMAPO
 Height (In.): 2-5"
 Stage (L): 8
 Weed 3 Name: AMBEL
 Height (In.): 3-5" (4")
 Stage (L): 6-8
 Weed 4 Name: SOLPT
 Height (In.): 2"
 Stage (L): 5

Weed Density (plants/sq. ft.)

	1	2	3	4
Date:	Jul/17/2014	Jul/17/2014	Jul/17/2014	Jul/17/2014
Weed Name:	CHEAL	AMAPO	AMBEL	SOLPT
Density:	3	<1	<1	<1

Application Equipment

Appl	Sprayer	Speed	Nozzle	Nozzle	Nozzle	Nozzle	Boom	GPA	Carrier	PSI
	Type	MPH	Type	Size	Height	Spacing	Width			
A	Cub	3.8	AIXR	11003	26"	20"	100"	19	water	30

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Weed Code													
Crop Code													
Rating Data Type								PHSVX	PHSVX	AMBEL	PHSVX	CHEAL	AMAPO
Rating Unit								injury	injury	control	injury	control	control
Rating Date								percent	percent	percent	percent	percent	percent
Trt-Eval Interval								Jul/21/2014	Jul/24/2014	Jul/24/2014	Jul/31/2014	Jul/31/2014	Jul/31/2014
# Subsamples, Dec.								4 DA-A	7 DA-A	7 DA-A	14 DA-A	14 DA-A	14 DA-A
								0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code						
1	Ultra Blazer	2	L	8	fl oz/a	POST	A	8	9	35	2	25	66
1	NIS		L	0.25	% v/v	POST	A						
2	Ultra Blazer	2	L	16	fl oz/a	POST	A	17	14	80	4	59	90
2	NIS		L	0.25	% v/v	POST	A						
3	Reflex	2	L	16	fl oz/a	POST	A	3	3	77	0	50	98
3	COC		L	1	% v/v	POST	A						
3	AMS		WG	2.5	lb/a	POST	A						
4	Reflex	2	L	16	fl oz/a	POST	A	12	18	79	3	70	98
4	Basagran	4	L	16	fl oz/a	POST	A						
4	COC		L	1	% v/v	POST	A						
4	AMS		WG	2.5	lb/a	POST	A						
5	Ultra Blazer	2	L	8	fl oz/a	POST	A	11	15	40	6	43	68
5	Basagran	4	L	16	fl oz/a	POST	A						
5	COC		L	0.5	% v/v	POST	A						
6	Ultra Blazer	2	L	12	fl oz/a	POST	A	16	18	55	6	58	91
6	Basagran	4	L	16	fl oz/a	POST	A						
6	COC		L	0.5	% v/v	POST	A						
7	Ultra Blazer	2	L	8	fl oz/a	POST	A	9	10	30	4	44	81
7	Basagran	4	L	16	fl oz/a	POST	A						
7	NIS		L	0.25	% v/v	POST	A						
8	Ultra Blazer	2	L	12	fl oz/a	POST	A	15	18	80	8	70	90
8	Basagran	4	L	16	fl oz/a	POST	A						
8	NIS		L	0.25	% v/v	POST	A						
9	Untreated							0	0	0	0	0	0
LSD (P=.05)								2.4	3.1	15.5	3.6	14.7	10.3
CV								16.49	18.36	20.07	70.95	21.64	9.36

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

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Weed Code	AMBEL	SOLPT
Crop Code		
Rating Data Type	control	control
Rating Unit	percent	percent
Rating Date	Jul/31/2014	Jul/31/2014
Trt-Eval Interval	14 DA-A	14 DA-A
# Subsamples, Dec.	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code		
1	Ultra Blazer	2	L	8	fl oz/a	POST	A	45	23
1	NIS		L	0.25	% v/v	POST	A		
2	Ultra Blazer	2	L	16	fl oz/a	POST	A	78	85
2	NIS		L	0.25	% v/v	POST	A		
3	Reflex	2	L	16	fl oz/a	POST	A	95	85
3	COC		L	1	% v/v	POST	A		
3	AMS		WG	2.5	lb/a	POST	A		
4	Reflex	2	L	16	fl oz/a	POST	A	80	92
4	Basagran	4	L	16	fl oz/a	POST	A		
4	COC		L	1	% v/v	POST	A		
4	AMS		WG	2.5	lb/a	POST	A		
5	Ultra Blazer	2	L	8	fl oz/a	POST	A	53	75
5	Basagran	4	L	16	fl oz/a	POST	A		
5	COC		L	0.5	% v/v	POST	A		
6	Ultra Blazer	2	L	12	fl oz/a	POST	A	68	99
6	Basagran	4	L	16	fl oz/a	POST	A		
6	COC		L	0.5	% v/v	POST	A		
7	Ultra Blazer	2	L	8	fl oz/a	POST	A	40	33
7	Basagran	4	L	16	fl oz/a	POST	A		
7	NIS		L	0.25	% v/v	POST	A		
8	Ultra Blazer	2	L	12	fl oz/a	POST	A	74	93
8	Basagran	4	L	16	fl oz/a	POST	A		
8	NIS		L	0.25	% v/v	POST	A		
9	Untreated							0	0
LSD (P=.05)								14.6	15.3
CV								16.94	16.07

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