

Comparison of new topramezone formulations using a multi-species screen

Trial ID: NC05-20 Study Dir.: Sprague, Powell, Stiles
 Conducted: Campus, H5 Investigator: Christy Sprague

Planting Date: Jun-9-2020 **Row Spacing:**
Variety: See Comments **No. of Reps:** 4
Population: **% OM:**
Soil Type: **pH:**
Plot Size: 10 X 30 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: Fall chisel plowed and soil finished; Spring soil finished twice
Fertilizer:

Crop and Weed Description			
Weed	Code	Common Name	Scientific Name
1	GLXMA	soybean	Glycine max
2	PHSVX	black bean	Phaseolus vulgaris
3	AVESA	oat	Avena sativa
4	SETIT	foxtail millet	Setaria italica
5	ANGR	mainly foxtail species	Annual grass
6	CHEAL	common lambsquarters	Chenopodium album
7	ABUTH	velvetleaf	Abutilon theophrasti
Crop	Code	Common Name	
1			

Application Description	
Application Timing:	A 4-5"
Date Treated:	Jul-7-2020
Time Treated:	10:55 AM
% Cloud Cover:	0
Air Temp., Unit:	86 F
% Relative Humidity:	52
Wind Speed/Unit/Dir:	2 MPH SW
Soil Temp, Unit:	98 F
Leaf Moist/Dew Presence (Y/N):	5
Soil Moist:	5

Crop Stage at Each Application	
Crop 1 Name:	A
Height:	
Stage:	

Weed Stage at Each Application	
Weed 1 Name:	A GLXMA
Height:	6 "
Stage:	V3
Weed 2 Name:	PHSVX
Height:	10-12 " (11)
Stage:	V3
Weed 3 Name:	AVESA
Height:	10-12 " (11)
Stage:	F5
Weed 4 Name:	SETIT
Height:	13-14 " (13.5)
Stage:	F5
Weed 5 Name:	ANGR
Height:	10-12 " (11)
Stage:	many
Weed 6 Name:	CHEAL
Height:	4-6 " (5)
Stage:	8-12L
Weed 7 Name:	ABUTH
Height:	4-6 " (5)
Stage:	4-5L

	Weed Density						
	1	2	3	4	5	6	7
Date:	Jul-7-2020	Jul-7-2020	Jul-7-2020	Jul-7-2020	Jul-7-2020	Jul-7-2020	Jul-7-2020
Weed Name:	GLXMA	PHSVX	AVESA	SETIT	ANGR	CHEAL	ABUTH
Density:					44 FT2	10 FT2	2 FT2

Comparison of new topramezone formulations using a multi-species screen

Trial ID: NC05-20
Conducted: Campus, H5

Study Dir.: Sprague, Powell, Stiles
Investigator: Christy Sprague

Appl	Sprayer Type	Ground Speed	Nozzle Type	Nozzle Size	Nozzle Height	Application Equipment			Carrier	Operation Pressure
						Nozzle Spacing	Boom Width	Spray Volume		
A	CUB	3.8 mph	AIXR	11003	30 "	20 "	100 "	19 GPA	WATER	30 psi

Comments:

Comparison of new topramezone formulations using a multi-species screen

Trial ID: NC05-20 Location: Campus, H5 Trial Year: 2020
 Protocol ID: NC05-20 Investigator: Christy Sprague
 Project ID: Study Director: Sprague, Powell, Stiles
 Sponsor Contact:

Pest Code	GLXMA	PHAVU	AVESA	SETIT	ANGR	CHEAL
Rating Date	Jul-21-2020	Jul-21-2020	Jul-21-2020	Jul-21-2020	Jul-21-2020	Jul-21-2020
Rating Type	control	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code
1	Untreated						
2	Impact	2.8	L	0.75	fl oz/a	4-5"	species A
	MSO		L	1	% v/v	4-5"	species A
3	Impact	2.8	L	0.75	fl oz/a	4-5"	species A
	NIS		L	0.25	% v/v	4-5"	species A
4	AMV5122E	3.25	L	0.647	fl oz/a	4-5"	species A
	NIS		L	0.25	% v/v	4-5"	species A
5	AMV5122	1.31	L	1.6	fl oz/a	4-5"	species A
	NIS		L	0.25	% v/v	4-5"	species A
6	AMV5122E	3.25	L	0.647	fl oz/a	4-5"	species A
7	AMV5122	1.31	L	1.6	fl oz/a	4-5"	species A
	LSD P=.05			6.8		15.6	13.1
	Standard Deviation			4.6		10.4	8.8
	CV			11.86		33.74	34.05

Could not calculate LSD (% mean diff) for columns 12,13,14 because error mean square = 0.

Comparison of new topramezone formulations using a multi-species screen

Trial ID: NC05-20 Location: Campus, H5 Trial Year: 2020
 Protocol ID: NC05-20 Investigator: Christy Sprague
 Project ID: Study Director: Sprague, Powell, Stiles
 Sponsor Contact:

Pest Code	ABUTH	GLXMA	PHAVU	AVESA	SETIT
Rating Date	Jul-21-2020	Aug-5-2020	Aug-5-2020	Aug-5-2020	Aug-5-2020
Rating Type	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code
1	Untreated						
2	Impact	2.8	L	0.75	fl oz/a	4-5"	species A
	MSO		L	1	% v/v	4-5"	species A
3	Impact	2.8	L	0.75	fl oz/a	4-5"	species A
	NIS		L	0.25	% v/v	4-5"	species A
4	AMV5122E	3.25	L	0.647	fl oz/a	4-5"	species A
	NIS		L	0.25	% v/v	4-5"	species A
5	AMV5122	1.31	L	1.6	fl oz/a	4-5"	species A
	NIS		L	0.25	% v/v	4-5"	species A
6	AMV5122E	3.25	L	0.647	fl oz/a	4-5"	species A
7	AMV5122	1.31	L	1.6	fl oz/a	4-5"	species A
	LSD P=.05			12.3			
	Standard Deviation			8.2			
	CV			50.84			

Could not calculate LSD (% mean diff) for columns 12,13,14 because error mean square = 0.