

Influence of adjuvants on AMV5122E

Trial ID: NC03-19 Study Dir.: Sprau, Powell, Stiles
 Conducted: Campus, B-8 Investigator: Christy Sprague

Planting Date: Jul-15-2019 **Row Spacing:** 30 IN
Variety: AG26X8 **No. of Reps:** 4
Population: 150000 seeds/A **% OM:** 2.7
Soil Type: L loam **pH:** 6.6
Plot Size: 10 X 30 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: Spring soil finish (2X)
Fertilizer:

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1			
Crop	Code	Common Name	
1	GLXMA	Soybean	
2	PHSVX	Black bean	
3	TRZAW	Winter wheat	
4	SETIT	foxtail millet	

Application Description

Application Timing: A POST
Date Treated: Aug-5-2019
Time Treated: 11:30 AM
% Cloud Cover: 5
Air Temp., Unit: 79 F
% Relative Humidity: 48
Wind Speed/Unit/Dir: 6 mph W
Soil Temp, Unit: 77 F
Leaf Moist/Dew Presence (Y/N): 4
Soil Moist: 4

Crop Stage at Each Application

A
Crop 1 Name: GLXMA
Height: 5 "
Stage: V2
Crop 2 Name: PHSVX
Height: 8 "
Stage: V2
Crop 3 Name: TRZAW
Height: 4 "
Stage: 4L
Crop 4 Name: SETIT
Height: 7 "
Stage: 6L

Weed Stage at Each Application

A
Weed 1 Name:
Height:
Stage:

Application Equipment

Appl	Sprayer Type	Ground Speed	Nozzle Type	Nozzle Size	Nozzle Height	Nozzle Spacing	Boom Width	Spray Volume	Carrier	Operation Pressure
A	CUB	3.8 MPH	AIXR	11003	26 "	20 "	100 "	19 GPA	WATER	30 PSI

Comments:

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Study Director: Sprague, Powell, Stiles

Pest Code	GLXMA	PHSVX	TRZAW	SETIT	GLXMA
Crop Type, Code	Aug-19-2019	Aug-19-2019	Aug-19-2019	Aug-19-2019	Sep-2-2019
Rating Date	control	control	control	control	control
Rating Type	percent	percent	percent	percent	percent
Rating Unit	14 DA-A	14 DA-A	14 DA-A	14 DA-A	28 DA-A
Trt-Eval Interval	0	0	0	0	0
Number of Decimals					

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code					
1	Impact	2.8	L	0.75 fl oz/a		4-5" crops	A	58	60	5	64	86
1	Premium MSO (MSO)		L	1 % v/v		4-5" crops	A					
2	AMV5122E	3.25	L	0.65 fl oz/a		4-5" crops	A	61	59	3	63	89
2	Premium MSO (MSO)		L	1 % v/v		4-5" crops	A					
3	AMV 5122	1.31	L	1.6 fl oz/a		4-5" crops	A	65	59	8	60	88
3	Premium MSO (MSO)		L	1 % v/v		4-5" crops	A					
4	AMV5122E	3.25	L	0.65 fl oz/a		4-5" crops	A	51	54	0	63	71
4	Induce (NIS)		L	0.25 % v/v		4-5" crops	A					
5	AMV 5122	1.31	L	1.6 fl oz/a		4-5" crops	A	64	55	3	61	74
5	Induce (NIS)		L	0.25 % v/v		4-5" crops	A					
6	AMV5122E	3.25	L	0.65 fl oz/a		4-5" crops	A	54	58	0	65	66
6	Preference (NIS)		L	0.25 % v/v		4-5" crops	A					
7	AMV 5122	1.31	L	1.6 fl oz/a		4-5" crops	A	54	61	3	61	68
7	Preference (NIS)		L	0.25 % v/v		4-5" crops	A					
8	AMV5122E	3.25	L	0.65 fl oz/a		4-5" crops	A	59	63	5	69	75
8	R-11 (NIS)		L	0.25 % v/v		4-5" crops	A					
9	AMV 5122	1.31	L	1.6 fl oz/a		4-5" crops	A	55	59	3	73	72
9	R-11 (NIS)		L	0.25 % v/v		4-5" crops	A					
10	AMV5122E	3.25	L	0.65 fl oz/a		4-5" crops	A	50	60	0	69	68
10	Rainier EA (NIS)		L	0.25 % v/v		4-5" crops	A					
11	AMV 5122	1.31	L	1.6 fl oz/a		4-5" crops	A	64	59	10	68	70
11	Rainier EA (NIS)		L	0.25 % v/v		4-5" crops	A					
12	AMV5122E	3.25	L	0.65 fl oz/a		4-5" crops	A	40	49	0	58	65
12	Prime Oil (COC)		L	1 % v/v		4-5" crops	A					
13	AMV 5122	1.31	L	1.6 fl oz/a		4-5" crops	A	54	56	8	56	70
13	Prime Oil (COC)		L	1 % v/v		4-5" crops	A					
14	AMV5122E	3.25	L	0.65 fl oz/a		4-5" crops	A	66	60	5	70	95
14	Hybrid (HSMOC)		L	0.75 % v/v		4-5" crops	A					
15	AMV 5122	1.31	L	1.6 fl oz/a		4-5" crops	A	69	66	0	73	91
15	Hybrid (HSMOC)		L	0.75 % v/v		4-5" crops	A					
16	Untreated							0	0	0	0	0
LSD	P=.05							6.4	8.9	9.8	9.5	7.6
Standard Deviation								4.5	6.2	6.9	6.6	5.4
CV								8.27	11.38	219.9	10.95	7.48

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Pest Code						
Crop Type, Code					PHSVX	TRZAW
Rating Date					Sep-2-2019	Sep-2-2019
Rating Type					control	control
Rating Unit					percent	percent
Trt-Eval Interval					28 DA-A	28 DA-A
Number of Decimals					0	0
						0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code			
1	Impact	2.8	L	0.75 fl oz/a		4-5" crops A		68	10	74
1	Premium MSO (MSO)		L	1 % v/v		4-5" crops A				
2	AMV5122E	3.25	L	0.65 fl oz/a		4-5" crops A		64	10	74
2	Premium MSO (MSO)		L	1 % v/v		4-5" crops A				
3	AMV 5122	1.31	L	1.6 fl oz/a		4-5" crops A		59	11	71
3	Premium MSO (MSO)		L	1 % v/v		4-5" crops A				
4	AMV5122E	3.25	L	0.65 fl oz/a		4-5" crops A		61	13	79
4	Induce (NIS)		L	0.25 % v/v		4-5" crops A				
5	AMV 5122	1.31	L	1.6 fl oz/a		4-5" crops A		63	10	83
5	Induce (NIS)		L	0.25 % v/v		4-5" crops A				
6	AMV5122E	3.25	L	0.65 fl oz/a		4-5" crops A		60	9	81
6	Preference (NIS)		L	0.25 % v/v		4-5" crops A				
7	AMV 5122	1.31	L	1.6 fl oz/a		4-5" crops A		63	6	84
7	Preference (NIS)		L	0.25 % v/v		4-5" crops A				
8	AMV5122E	3.25	L	0.65 fl oz/a		4-5" crops A		69	16	88
8	R-11 (NIS)		L	0.25 % v/v		4-5" crops A				
9	AMV 5122	1.31	L	1.6 fl oz/a		4-5" crops A		69	15	86
9	R-11 (NIS)		L	0.25 % v/v		4-5" crops A				
10	AMV5122E	3.25	L	0.65 fl oz/a		4-5" crops A		68	8	90
10	Rainier EA (NIS)		L	0.25 % v/v		4-5" crops A				
11	AMV 5122	1.31	L	1.6 fl oz/a		4-5" crops A		70	14	85
11	Rainier EA (NIS)		L	0.25 % v/v		4-5" crops A				
12	AMV5122E	3.25	L	0.65 fl oz/a		4-5" crops A		51	9	61
12	Prime Oil (COC)		L	1 % v/v		4-5" crops A				
13	AMV 5122	1.31	L	1.6 fl oz/a		4-5" crops A		63	14	68
13	Prime Oil (COC)		L	1 % v/v		4-5" crops A				
14	AMV5122E	3.25	L	0.65 fl oz/a		4-5" crops A		68	14	84
14	Hybrid (HSMOC)		L	0.75 % v/v		4-5" crops A				
15	AMV 5122	1.31	L	1.6 fl oz/a		4-5" crops A		75	8	80
15	Hybrid (HSMOC)		L	0.75 % v/v		4-5" crops A				
16	Untreated							0	0	0
	LSD P=.05							8.6	7.1	9.1
	Standard Deviation							6.0	5.0	6.4
	CV							9.97	48.15	8.59