

2011 Zidua / Soybean / Total Post - Midwest

Trial ID: 11 BAS SB Zidua 07 POST Protocol ID: 11 BAS SB Zidua 07 POST
Location: Concord, NE
Project ID: Zidua_Soy_07-11-MW Investigator: Stevan Knezevic

General Trial Information

Investigator: Stevan Knezevic

Trial Location

City: Concord
State/Prov.: NE
Postal Code: 68728
Country: USA

Conclusions:

Due to lack of moisture after application, there was not a second flush of weeds. All treatments remained weed free.

Personnel

Investigator: Stevan Knezevic

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: LG Seeds C2699 RR
BBCH Scale: BSOY Planting Date: 06-07-2011
Planting Method: SEEDED seeded Rate, Unit: 156816 s/a
Depth, Unit: 1.5 in
Row Spacing, Unit: 30 in
Harvest Date: 10-04-2011 Harvest Equipment: Almaco SP40
Harvested Width, Unit: 5 ft Harvested Length, Unit: 27.5 ft
% Standard Moisture: 13.0

Pest Description

Pest 1 Type: W Code: SETVI Setaria viridis
Common Name: Green foxtail
Pest 2 Type: W Code: ABUTH Abutilon theophrasti
Common Name: Velvetleaf
Pest 3 Type: W Code: AMATU Amaranthus tuberculatus
Common Name: Tall waterhemp

Site and Design

Plot Width, Unit: 10 FT Site Type: FIELD field
Plot Length, Unit: 30 FT
Plot Area, Unit: 300 FT2 Tillage Type: NOTILL no-till
Replications: 4 Study Design: RACOB L Randomized Complete Block (RCB)

Maintenance

No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Tank Mix
1.	06-05-2011	Roundup Power MAX	5.5	lb/gal	SL	29	oz/A	yes
2.	06-05-2011	AMS	21.5	%	SG	2.5	lb/A	yes

Soil Description

% Sand: 12 % OM: 2.5 Texture: SICL silty clay loam
% Silt: 58 pH: 5.6
% Clay: 30 CEC: 17.7 Fert. Level: F fair
Analyzed By:
Midwest Labs

Application Description

	A
Application Date:	07-10-2011
Time of Day:	1:00 pm
Application Method:	spray
Application Timing:	POST
Application Placement:	foliar
Applied By:	js
Air Temperature, Unit:	91 F
% Relative Humidity:	60
Wind Velocity, Unit:	6 mph
Wind Direction:	SSE
Dew Presence (Y/N):	N no
Soil Moisture:	SLIDRY
% Cloud Cover:	20

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	GLXMA BSOY
Stage Scale Used:	BBCH
Stage Majority, Percent:	3T 100
Height, Unit:	6 in

Pest Stage At Each Application

	A
Pest 1 Code, Type, Scale:	SETVI W
Height, Unit:	4 in
Height Minimum, Maximum:	3 5
Density, Unit:	1 m2
Pest 2 Code, Type, Scale:	ABUTH W
Height, Unit:	3 in
Height Minimum, Maximum:	2 4
Density, Unit:	0.1 m2
Coverage, Unit:	.
Pest 3 Code, Type, Scale:	AMATU W
Height, Unit:	4 in
Height Minimum, Maximum:	2 6

Application Equipment

	A
Appl. Equipment:	Backpack
Operating Pressure, Unit:	20 PSI
Nozzle Type:	Turbo Tee
Nozzle Size:	11003
Nozzle Spacing, Unit:	20 in
Boom Length, Unit:	10 ft
Boom Height, Unit:	15 in
Ground Speed, Unit:	2.7 mph
Carrier:	WATER
Spray Volume, Unit:	20 gal/ac
Mix Size, Unit:	1.8 liters
Propellant:	COMCO2

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Description	Soybean	Soybean	Green foxtail	Green foxtail	Velvetleaf									
Rating Date	07-18-2011	08-03-2011	07-18-2011	08-03-2011	07-18-2011									
Rating Type	Injury	Injury	Control	Control	Control									
Rating Unit	Percent	Percent	Percent	Percent	Percent									
Days After First/Last Applic.	8 8	24 24	8 8	24 24	8 8									
Trt-Eval Interval	8 DA-A	24 DA-A	8 DA-A	24 DA-A	8 DA-A									
Plant-Eval Interval	41 DP-1	57 DP-1	41 DP-1	57 DP-1	41 DP-1									
Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Other Rate	Other Unit	Growth Stage	Appl Code					
1	Roundup PowerMAX AMS	5.5 lb/gal	SL	22 oz/a	22 oz/a			POST	A	0.0 a	0.0 a	99.0 a	99.0 a	99.0 a
		21.5 %	SG	17 lb/100 gal	17 lb/100 gal			POST	A					
2	Zidua Extreme AMS	85 %	WG	2 oz/a	2 oz/a	119 g ai/ha		POST	A	0.0 a	0.0 a	99.0 a	99.0 a	99.0 a
		2.17 lb/gal	SL	3 pt/a	3 pt/a			POST	A					
		21.5 %	SG	17 lb/100 gal	17 lb/100 gal			POST	A					
3	Zidua Roundup PowerMAX AMS	85 %	WG	2 oz/a	2 oz/a	119 g ai/ha		POST	A	0.0 a	0.0 a	99.0 a	99.0 a	99.0 a
		5.5 lb/gal	SL	22 oz/a	22 oz/a			POST	A					
		21.5 %	SG	17 lb/100 gal	17 lb/100 gal			POST	A					
4	Warrant Roundup PowerMAX AMS	3 lb/gal	SC	3 pt/a	3 pt/a			POST	A	0.0 a	0.0 a	99.0 a	99.0 a	99.0 a
		5.5 lb/gal	SL	22 oz/a	22 oz/a			POST	A					
		21.5 %	SG	17 lb/100 gal	17 lb/100 gal			POST	A					
5	Prefix Roundup PowerMAX AMS	5.28 lb/gal	EW	32 oz/a	32 oz/a			POST	A	0.0 a	0.0 a	99.0 a	99.0 a	99.0 a
		5.5 lb/gal	SL	22 oz/a	22 oz/a			POST	A					
		21.5 %	SG	17 lb/100 gal	17 lb/100 gal			POST	A					
6	Experimental Roundup PowerMAX AMS	2.15 lb/gal	SE	6.5 oz/a	6.5 oz/a	122 g ai/ha		POST	A	0.0 a	0.0 a	99.0 a	99.0 a	99.0 a
		5.5 lb/gal	SL	22 oz/a	22 oz/a			POST	A					
		21.5 %	SG	17 lb/100 gal	17 lb/100 gal			POST	A					
LSD (P=.05)					0.00	0.00				0.00	0.00	0.00	0.00	0.00
Standard Deviation					0.00	0.00				0.00	0.00	0.00	0.00	0.00
CV					0.0	0.0				0.0	0.0	0.0	0.0	0.0
Grand Mean					0.0	0.0				99.0	99.0	99.0	99.0	99.0
Replicate F					0.000	0.000				0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)					1.0000	1.0000				1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F					0.000	0.000				0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)					1.0000	1.0000				1.0000	1.0000	1.0000	1.0000	1.0000

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Description		Velvetleaf	Waterhemp	Waterhemp	Soybean	Soybean								
Rating Date		08-03-2011	07-18-2011	08-03-2011	10-04-2011	10-04-2011								
Rating Type		Control	Control	Control	Moisture	Yield@13.0%								
Rating Unit		Percent	Percent	Percent	%	bu/A								
Days After First/Last Applic.		24 24	8 8	24 24	86 86	86 86								
Trt-Eval Interval		24 DA-A	8 DA-A	24 DA-A	86 DA-A	86 DA-A								
Plant-Eval Interval		57 DP-1	41 DP-1	57 DP-1	119 DP-1	119 DP-1								
Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Other Rate	Other Unit	Growth Stage	Appl Code					
1	Roundup PowerMAX AMS	5.5 lb/gal	SL	22 oz/a	17 lb/100 gal			POST	A	99.0 a	99.0 a	99.0 a	9.178 a	36.0925000 a
2	Zidua Extreme AMS	85 % 2.17 lb/gal	WG SL	2 oz/a 3 pt/a	17 lb/100 gal	119 g ai/ha		POST POST	A A	99.0 a	99.0 a	99.0 a	10.155 a	36.2200000 a
3	Zidua Roundup PowerMAX AMS	85 % 5.5 lb/gal	WG SL	2 oz/a 22 oz/a	17 lb/100 gal	119 g ai/ha		POST POST	A A	99.0 a	99.0 a	99.0 a	9.428 a	35.2150000 a
4	Warrant Roundup PowerMAX AMS	3 lb/gal	SC	3 pt/a	17 lb/100 gal			POST POST	A A	99.0 a	99.0 a	99.0 a	9.573 a	35.7975000 a
5	Prefix Roundup PowerMAX AMS	5.28 lb/gal	EW	32 oz/a	17 lb/100 gal			POST POST	A A	99.0 a	99.0 a	99.0 a	9.843 a	34.5950000 a
6	Experimental Roundup PowerMAX AMS	2.15 lb/gal	SE	6.5 oz/a	17 lb/100 gal	122 g ai/ha		POST POST	A A	99.0 a	99.0 a	99.0 a	9.903 a	35.2725000 a
LSD (P=.05)		0.00								0.00	0.00	0.00	0.6904	2.68963500
Standard Deviation		0.00								0.00	0.00	0.00	0.4582	1.78494500
CV		0.0								0.0	0.0	0.0	4.73	5.02
Grand Mean		99.0								99.0	99.0	99.0	9.68	35.53
Replicate F		0.000								0.000	0.000	0.000	0.833	0.755
Replicate Prob(F)		1.0000								1.0000	1.0000	1.0000	0.4963	0.5363
Treatment F		0.000								0.000	0.000	0.000	2.398	0.478
Treatment Prob(F)		1.0000								1.0000	1.0000	1.0000	0.0868	0.7872

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.