

2011 Zidua Soybean One Pass No Till Midwest

Trial ID: 11 BAS SB Zidua PRE Protocol ID: 11 BAS SB Zidua PRE
Location: Concord, NE
Project ID: Zidua Soy 09-11-MW Investigator: Stevan Knezevic

General Trial Information

Investigator: Stevan Knezevic

Trial Location

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

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)

	Previous Crops	Previous Pesticides	Year
1.	Corn, field	PRE + glyphosate	2010

Maintenance

No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Tank Mix
1.	06-05-2011	Roundup PowerMAX	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: SOCL
% Silt: 58 pH: 5.6
% Clay: 30 CEC: 17.7 Fert. Level: F fair
Analyzed By:
Midwest Labs

Application Description

	A
Application Date:	06-09-2011
Time of Day:	11:45 am
Application Method:	spray
Application Timing:	PRE
Application Placement:	surface
Applied By:	js
Air Temperature, Unit:	61 F
% Relative Humidity:	72
Wind Velocity, Unit:	2 mph
Wind Direction:	NE
Dew Presence (Y/N):	N no
Soil Temperature, Unit:	64 F
Soil Moisture:	adequate
% Cloud Cover:	95

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	GLXMA BSOY

Pest Stage At Each Application

	A
Pest 1 Code, Type, Scale:	SETVI W
Pest 2 Code, Type, Scale:	ABUTH W
Pest 3 Code, Type, Scale:	AMATU W

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Project ID: Zidua Soy 09-11-MW Investigator: Stevan Knezevic														
Description	Soybean	Soybean	Soybean	Green foxtail	Green foxtail	Green foxtail								
Rating Date	07-09-2011	07-22-2011	08-03-2011	07-09-2011	07-22-2011	08-03-2011								
Rating Type	Injury	Injury	Injury	Control	Control	Control								
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent								
Days After First/Last Applic.	30 30	43 43	55 55	30 30	43 43	55 55								
Trt-Eval Interval	30 DA-A	43 DA-A	55 DA-A	30 DA-A	43 DA-A	55 DA-A								
Plant-Eval Interval	32 DP-1	45 DP-1	57 DP-1	32 DP-1	45 DP-1	57 DP-1								
Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Other Rate	Other Unit	Other Rate	Other Unit	Growth Stage	Appl Code			
1	Zidua	85 %	WG	1.5 oz/a	89 g a/ha	PRE	A	0.0 a	0.0 a	0.0 a		99.0 a	99.0 a	85.0 ab
	Sharpen	2.85 lb/gal	SC	1 oz/a	25 g a/ha	PRE	A							
2	Zidua	85 %	WG	1.5 oz/a	89 g a/ha	PRE	A	0.0 a	0.0 a	0.0 a		99.0 a	99.0 a	99.3 a
	OPTILL	68 %	WG	2 oz/a	95 g a/ha	PRE	A							
3	Valor SX	51 %	WG	2 oz/a	71.5 g a/ha	PRE	A	0.0 a	0.0 a	0.0 a		99.0 a	99.0 a	61.7 c
4	Prefix	5.28 lb/gal	EW	32 oz/a	1480 g a/ha	PRE	A	0.0 a	0.0 a	0.0 a		99.0 a	99.0 a	66.3 bc
5	Zidua	85 %	WG	1.5 oz/a	89 g a/ha	PRE	A	0.0 a	0.0 a	0.0 a		99.0 a	99.0 a	93.0 a
	Valor SX	51 %	WG	2 oz/a	71.5 g a/ha	PRE	A							
6	Valor XLT	40.3 %	WG	4 oz/a	113 g a/ha	PRE	A	0.0 a	0.0 a	0.0 a		99.0 a	99.0 a	77.5 abc
LSD (P=.05)								0.00	0.00	0.00		0.00	0.00	20.36
Standard Deviation								0.00	0.00	0.00		0.00	0.00	13.33
CV								0.0	0.0	0.0		0.0	0.0	16.57
Grand Mean								0.0	0.0	0.0		99.0	99.0	80.44
Replicate F								0.000	0.000	0.000		0.000	0.000	2.219
Replicate Prob(F)								1.0000	1.0000	1.0000		1.0000	1.0000	0.1346
Treatment F								0.000	0.000	0.000		0.000	0.000	4.929
Treatment Prob(F)								1.0000	1.0000	1.0000		1.0000	1.0000	0.0095

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	Velvetleaf	Velvetleaf	Waterhemp	Waterhemp	Waterhemp	Soybean	
Rating Date								07-09-2011	07-22-2011	08-03-2011	07-09-2011	07-22-2011	08-03-2011	10-04-2011	
Rating Type								Control	Control	Control	Control	Control	Control	Moisture	
Rating Unit								Percent	Percent	Percent	Percent	Percent	Percent	%	
Days After First/Last Applic.								30 30	43 43	55 55	30 30	43 43	55 55	117 117	
Trt-Eval Interval								30 DA-A	43 DA-A	55 DA-A	30 DA-A	43 DA-A	55 DA-A	117 DA-A	
Plant-Eval Interval								32 DP-1	45 DP-1	57 DP-1	32 DP-1	45 DP-1	57 DP-1	119 DP-1	
Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Other Rate	Other Rate	Growth Unit	Appl Stage	Code					
1	Zidua Sharpen	85 %	WG	1.5 oz/a	89 g a/ha	PRE	A	99.0 a							
		2.85 lb/gal	SC	1 oz/a	25 g a/ha	PRE	A								
2	Zidua OPTILL	85 %	WG	1.5 oz/a	89 g a/ha	PRE	A	99.0 a							
		68 %	WG	2 oz/a	95 g a/ha	PRE	A								
3	Valor SX	51 %	WG	2 oz/a	71.5 g a/ha	PRE	A	99.0 a							
4	Prefix	5.28 lb/gal	EW	32 oz/a	1480 g a/ha	PRE	A	99.0 a			67.5 a				
5	Zidua Valor SX	85 %	WG	1.5 oz/a	89 g a/ha	PRE	A	99.0 a			87.5 a				
		51 %	WG	2 oz/a	71.5 g a/ha	PRE	A								
6	Valor XLT	40.3 %	WG	4 oz/a	113 g a/ha	PRE	A	99.0 a			99.0 a				
LSD (P=.05)								0.00	0.00	40.04	0.00	0.00	25.88	0.7087	
Standard Deviation								0.00	0.00	12.58	0.00	0.00	11.50	0.4703	
CV								0.0	0.0	13.92	0.0	0.0	11.84	4.62	
Grand Mean								99.0	99.0	90.4	99.0	99.0	97.17	10.18	
Replicate F								0.000	0.000	1.579	0.000	0.000	0.103	1.285	
Replicate Prob(F)								1.0000	1.0000	0.2979	1.0000	1.0000	0.9528	0.3157	
Treatment F								0.000	0.000	2.383	0.000	0.000	0.319	1.216	
Treatment Prob(F)								1.0000	1.0000	0.2507	1.0000	1.0000	0.8745	0.3492	

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Description									Soybean		
Rating Date									10-04-2011		
Rating Type									Yield@13.0%		
Rating Unit									bu/A		
Days After First/Last Applic.									117 117		
Trt-Eval Interval									117 DA-A		
Plant-Eval Interval									119 DP-1		
Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Other Unit	Other Rate	Other Unit	Growth Stage	Appl Code	
1	Zidua	85 %	WG		1.5 oz/a		89 g a/ha		PRE	A	39.250 a
	Sharpen	2.85 lb/gal	SC		1 oz/a		25 g a/ha		PRE	A	
2	Zidua	85 %	WG		1.5 oz/a		89 g a/ha		PRE	A	37.898 a
	OPTILL	68 %	WG		2 oz/a		95 g a/ha		PRE	A	
3	Valor SX	51 %	WG		2 oz/a		71.5 g a/ha		PRE	A	38.690 a
4	Prefix	5.28 lb/gal	EW		32 oz/a		1480 g a/ha		PRE	A	37.668 a
5	Zidua	85 %	WG		1.5 oz/a		89 g a/ha		PRE	A	38.823 a
	Valor SX	51 %	WG		2 oz/a		71.5 g a/ha		PRE	A	
6	Valor XLT	40.3 %	WG		4 oz/a		113 g a/ha		PRE	A	37.345 a
LSD (P=.05)											2.2394
Standard Deviation											1.4861
CV											3.88
Grand Mean											38.28
Replicate F											5.776
Replicate Prob(F)											0.0079
Treatment F											1.015
Treatment Prob(F)											0.4432

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)
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