

## Valor Burndown in Doublecrop Soybean.

00-19A-E40

**OBJECTIVE:** Evaluate Valor as a part of a burndown program in no-till doublecrop soybean.

**SUMMARY:** No soybean injury was observed from any treatment. All treatments provided excellent control of giant foxtail, common waterhemp and common ragweed. Yellow nutsedge control was greatest with a sequential application of Roundup Ultra and V-10080 followed by Roundup Ultra. Sequential herbicide applications provided greater prickly sida control than a single application of Roundup Ultra. Soybean yield ranged from 2 bu/A in nontreated plots to 40 bu/A. The highest yield was observed in plots treated with V-10080 followed by Roundup Ultra.

### HERBICIDES

ROUNDUP ULTRA 3 SL  
V-10080 4.25 SC  
V-10081 4.25 SC  
VALOR 50 WG

### WEEDS

FOXTAIL, GIANT  
NUTSEDGE, YELLOW  
RAGWEED, COMMON  
SIDA, PRICKLY  
WATERHEMP, COMMON

### CROP

SOYBEAN

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Valor Burndown in Doublecrop Soybean.

Project Code: 00-19A-E40 Location: Belleville Research Center

Investigator: Bryan Young, Assistant Professor, Southern Illinois University

Weed Code	Common Name	Scientific Name
1. SETFA	FOXTAIL, GIANT	SETARIA FABERI HERRM.
2. AMATA	WATERHEMP, COMMON	AMARANTHUS RUDIS SAUER
3. SIDSP	SIDA, PRICKLY	SIDA SPINOSA L.
4. AMBEL	RAGWEED, COMMON	AMBROSIA ARTEMISIIFOLIA L.
5. CYPES	NUTSEDGE, YELLOW	CYPERUS ESCULENTUS L.

Crop 1:	GLXMA SOYBEAN	Variety:	B-T 369CR
Planting Method:	SEEDED	Planting Date:	6-20-00
Rate:	75 LB/A	Depth:	1.0 IN
Row Spacing:	15 IN		

Plot Width, Unit:	10 FT	Plot Length, Unit:	25 FT	Reps:	3
Tillage Type:	NO-TILL	Study Design:	RCB		
Previous Crop, Year:	GLXMA, 1999	Fertilizer applied:	N 0 LB/A,	P <sub>2</sub> O <sub>5</sub> 0 LB/A,	K <sub>2</sub> O 0 LB/A

Soil Name: EBBERT  
Texture: SILT LOAM

#### APPLICATION DESCRIPTION

	A	B	C
Application Date:	Jun-20-00	Jul-5-00	Jul-11-00
Time of Day:	10:00	15:00	10:00
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	V1SB	4-6"W
Applic. Placement:	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	81 F	90 F	86 F
% Relative Humidity:	88	68	97
Wind Velocity, Unit:	5-10 MPH	2-3 MPH	2-3 MPH
Soil Moisture:	WET	NORMAL	MOIST
% Cloud Cover:	100	0	

#### CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	GLXMA PRE	GLXMA V1	GLXMA V3
Height, Unit:	NA	4-5 IN	5-7 IN

#### WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code:	SETFA	SETFA	
Stage(leaves):	5-6	5-6	
Height(inches):	2-5	5-11	
Density:	HIGH		
Weed 2 Code:	AMATA	AMATA	AMATA
Stage(leaves):	5-8	6-11	6-14
Height(inches):	2-4	2-8	2-8
Density:	MEDIUM	HIGH	HIGH
Weed 3 Code:	SIDSP	SIDSP	SIDSP
Stage(leaves):	3-4	2-10	4-12
Height(inches):	2-4	1-5	3-5
Density:	MEDIUM	MEDIUM	LOW
Weed 4 Code:	AMBEL	AMBEL	AMBEL
Stage(leaves):	4-6	5-7	5-7
Height(inches):	3-5	3-6	2-6
Density:	LOW	LOW	MEDIUM
Weed 5 Code:			CYPES
Stage(leaves):			5-6
Height(inches):			4-6
Density:			MEDIUM

#### APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	CO <sub>2</sub> SPRAY	CO <sub>2</sub> SPRAY	CO <sub>2</sub> SPRAY
Operating Pressure:	40 PSI	40 PSI	40 PSI
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN
Nozzle Size:	8003	8002	8002
Boom Length, Unit:	7.33 FT	7.33 FT	7.33 FT
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA

#### NOTES:

Harvested Oct-24-00, (5) 30 inch rows by 22 ft.

TABLE. VALOR BURNDOWN IN DOUBLECROP SOYBEAN. PROJECT CODE:00-19A-E40

TREATMENT	FORM.	RATE	UNIT	PROD	RATE	TIME	APPL CODE	YIELD BU/A	GLXMA INJURY			CONTROL, DAYS AFTER PRE								
									DA PRE			SETFA		AMATA		AMBEL		CYPES		SIDSP
									14	28	56	28	56	28	56	28	56	28	56	28
			%	%	%	%	%	%	%	%	%	%	%	%						
1 NONTREATED								2	0	0	0	0	0	0	0	0	0	0	0	
2 ROUNDUP ULTRA	3 SL	0.75	LB AE/A	2.0	PT/A	PRE	A	32	0	0	0	98	99	97	97	99	97	72	85	73
2 ROUNDUP ULTRA	3 SL	0.75	LB AE/A	2.0	PT/A	4-6"W	C													
3 VALOR	50 WG	0.063	LB A/A	2.0	OZ/A	PRE	A	30	0	0	0	99	97	99	96	99	99	70	53	91
3 ROUNDUP ULTRA	3 SL	0.75	LB AE/A	2.0	PT/A	PRE	A													
3 ROUNDUP ULTRA	3 SL	0.75	LB AE/A	2.0	PT/A	4-6"W	C													
4 V-10080	4.25 SC	1.063	LB A/A	2.0	PT/A	PRE	A	40	0	0	0	99	96	99	99	99	98	70	93	80
4 PRIME OIL COC	100 LIQ	1.0	QT/A	1.0	QT/A	PRE	A													
4 ROUNDUP ULTRA	3 SL	0.75	LB AE/A	2.0	PT/A	4-6"W	C													
5 V-10081	4.25 SC	1.063	LB A/A	2.0	PT/A	PRE	A	29	0	0	0	98	91	99	93	99	99	70	73	87
5 ROUNDUP ULTRA	3 SL	0.75	LB AE/A	2.0	PT/A	4-6"W	C													
6 ROUNDUP ULTRA	3 SL	0.75	LB AE/A	2.0	PT/A	V1SB	B	27	0	0	0	99	95	96	90	99	96	50	27	53
LSD								10	0	0	0	0.6	9	3	7	0	5	2	23	20
P								0.01	1.0	1.0	1.0	0.01	0.01	0.01	0.01	1.0	0.01	0.01	0.01	0.01

1. PROTOCOL: VALENT MD02.05.
2. DA-A = DAYS AFTER PRE APPLICATION.
3. RATING DATES:  
 14 DAYS AFTER PRE ON JUL-4-00.  
 28 DAYS AFTER PRE ON JUL-18-00 WAS ALSO 13 DAYS AFTER V1SB (V1 SOYBEAN) APPLICATION AND 7 DAYS AFTER 4-6"W APPLICATION.  
 56 DAYS AFTER PRE ON AUG-15-00 WAS ALSO 41 DAYS AFTER V1SB (V1 SOYBEAN) APPLICATION AND 35 DAYS AFTER 4-6"W APPLICATION.