

Evaluation of Soybean Injury with Authority and Valor.

02-51W-S70

OBJECTIVE: Evaluation of soybean injury following preplant incorporated and preemergence applications of Authority or Valor.

SUMMARY: Authority and Valor caused no stand reduction regardless of rate or application timing. Authority caused minimal height reduction 21 days after application with height reduction ranging from 0 to 3%. Valor applied PPI caused no height reduction regardless of rate. Valor applied PRE caused height reduction with height reduction increasing as rate was increased. Soybean yield ranged from 52 to 58 bu/A with no difference in yield due to herbicide treatment.

HERBICIDES

AUTHORITY 75 WG
ROUNDUP ULTRA MAX 3.7 SL
VALOR 51 WG

WEEDS

crop tolerance only

CROP

soybean

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Evaluation of Soybean Injury with Authority and Valor.

Project Code: 02-51W-S70 Location: Belleville Research Center

Weed Code															
Crop Code															
Rating Data Type															
Rating Unit															
Rating Date															
Trt-Eval Interval															

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	GLXMA Yield bu/A	GLXMA STARED Percent	GLXMA STARED Percent	GLXMA STARED Percent	GLXMA STARED Percent	GLXMA HEIRED Percent	GLXMA HEIRED Percent	GLXMA HEIRED Percent	GLXMA HEIRED Percent	GLXMA Height Inch	
										10-1-02	6-18-02	6-25-02	7-2-02	7-30-02	6-18-02	6-25-02	7-2-02	7-30-02	10-1-02	
										14 DAT	21 DAT	28 DAT	56 DAT	14 DAT	21 DAT	28 DAT	56 DAT			
1	HANDWEED									58	0	0	0	0	0	0	0	0	0	43
1	NO HERBICIDE																			
2	AUTHORITY	75	WG	0.20	LB A/A	4.27	OZ/A	PPI	A	57	0	0	0	0	0	0	0	0	0	41
2	ROUNDUP ULTRA MAX	3.7	SL	0.75	LB AE/A	1.6	PT/A	4-6"W	C											
3	AUTHORITY	75	WG	0.25	LB A/A	5.33	OZ/A	PPI	A	56	0	0	0	0	3	2	0	0	0	40
3	ROUNDUP ULTRA MAX	3.7	SL	0.75	LB AE/A	1.6	PT/A	4-6"W	C											
4	AUTHORITY	75	WG	0.313	LB A/A	6.7	OZ/A	PPI	A	58	0	0	0	0	3	2	0	0	0	41
4	ROUNDUP ULTRA MAX	3.7	SL	0.75	LB AE/A	1.6	PT/A	4-6"W	C											
5	VALOR	51	WG	0.063	LB A/A	2	OZ/A	PPI	A	57	0	0	0	0	0	0	0	0	0	41
5	ROUNDUP ULTRA MAX	3.7	SL	0.75	LB AE/A	1.6	PT/A	4-6"W	C											
6	VALOR	51	WG	0.078	LB A/A	2.45	OZ/A	PPI	A	57	0	0	0	0	0	0	0	0	0	41
6	ROUNDUP ULTRA MAX	3.7	SL	0.75	LB AE/A	1.6	PT/A	4-6"W	C											
7	VALOR	51	WG	0.094	LB A/A	3	OZ/A	PPI	A	57	0	0	0	0	0	0	0	0	0	42
7	ROUNDUP ULTRA MAX	3.7	SL	0.75	LB AE/A	1.6	PT/A	4-6"W	C											
8	AUTHORITY	75	WG	0.20	LB A/A	4.27	OZ/A	PRE	B	54	0	0	0	0	0	0	0	0	0	40
8	ROUNDUP ULTRA MAX	3.7	SL	0.75	LB AE/A	1.6	PT/A	4-6"W	C											
9	AUTHORITY	75	WG	0.25	LB A/A	5.33	OZ/A	PRE	B	55	0	0	0	0	3	0	0	0	0	39
9	ROUNDUP ULTRA MAX	3.7	SL	0.75	LB AE/A	1.6	PT/A	4-6"W	C											
10	AUTHORITY	75	WG	0.313	LB A/A	6.7	OZ/A	PRE	B	56	0	0	0	0	3	3	0	0	0	41
10	ROUNDUP ULTRA MAX	3.7	SL	0.75	LB AE/A	1.6	PT/A	4-6"W	C											
11	VALOR	51	WG	0.063	LB A/A	2	OZ/A	PRE	B	52	0	0	0	0	7	7	0	0	0	39
11	ROUNDUP ULTRA MAX	3.7	SL	0.75	LB AE/A	1.6	PT/A	4-6"W	C											
12	VALOR	51	WG	0.078	LB A/A	2.45	OZ/A	PRE	B	55	0	0	0	0	15	10	0	0	0	40
12	ROUNDUP ULTRA MAX	3.7	SL	0.75	LB AE/A	1.6	PT/A	4-6"W	C											
13	VALOR	51	WG	0.094	LB A/A	3	OZ/A	PRE	B	53	0	0	0	0	13	12	0	0	0	39
13	ROUNDUP ULTRA MAX	3.7	SL	0.75	LB AE/A	1.6	PT/A	4-6"W	C											
14	ROUNDUP ULTRA MAX	3.7	SL	0.75	LB AE/A	1.6	PT/A	4-6"W	C	52	0	0	0	0	0	0	0	0	0	37
	LSD (P=.05)									4.3	0.0	0.0	0.0	0.0	5.0	3.0	0.0	0.0	0.0	2.2

Weed Code												
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	
Rating Data Type	Yield	STARED	STARED	STARED	STARED	HEIRED	HEIRED	HEIRED	HEIRED	HEIRED	Height	
Rating Unit	bu/A	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Inch	
Rating Date	10-1-02	6-18-02	6-25-02	7-2-02	7-30-02	6-18-02	6-25-02	7-2-02	7-30-02	10-1-02		
Trt-Eval Interval		14 DAT	21 DAT	28 DAT	56 DAT	14 DAT	21 DAT	28 DAT	56 DAT			

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code				
Replicate F				5.212		0.000		0.000		0.000		1.072	0.000
Replicate Prob(F)				0.0125		1.0000		1.0000		1.0000		0.3569	1.0000
Treatment F				1.831		0.000		0.000		0.000		8.438	15.100
Treatment Prob(F)				0.0918		1.0000		1.0000		1.0000		0.0001	0.0001

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Trial Comments

1. Protocol: SIU (RFK), same treatments as 01-50W-S70.
2. Study is weed free.
3. DAT = days after PPI or PRE application. STARED = stand reduction. HEIRED = height reduction.