

Effect of Soil Herbicides on Roundup Ready 2 Soybeans Under Weed-Free Conditions.

Trial ID: 16-NF-N Location: Belleville Res. Center Trial Year: 2016  
Investigator: Ronald F. Krausz

**Trial Status:** F one-year/final  
**Initiation Date:** 5-9-16  
**Completion Date:** 10-10-16

**Trial Location**

**City:** Belleville **Country:** USA  
**State/Prov.:** Illinois IL  
**Postal Code:** 62221

**Objectives:**

Evaluate the effects of soil herbicides on RR2Y under weed-free conditions.

**Contacts**

**Study Director:** Karla Gage, Ph.D. **Title:** Assistant Professor of Weed Science  
**Organization:** Southern Illinois University Carbondale  
**Address:** 1205 Lincoln Drive MC 4415 **Phone No.:** 618-453-7679  
**City+State/Prov:** Carbondale, IL  
**Postal Code:** 62901 **E-mail:** kgage@siu.edu  
**Country:** USA

**Crop Description**

**Crop 1:** GLXMA Glycine max Soybean  
**Variety:** AG3832 **BBCH Scale:** BSOY  
**Description:** RR2Y  
**Planting Date:** 5-9-16  
**Planting Rate, Unit:** 140000 S/A **Planting Method:** SEEDED  
**Depth, Unit:** 1 IN  
**Row Spacing, Unit:** 30 IN

**Pest Description**

**Pest 1 Type:** W **Code:** NA  
**Common Name:** crop tolerance an yield only

**Site and Design**

**Treated Plot Width:** 10 FT **Total Plot Width:** 10 FT **Site Type:** FIELD  
**Treated Plot Length:** 25 FT **Total Plot Length:** 25 FT **Experimental Unit:** 1 PLOT  
**Replications:** 4 **Tillage Type:** REDTIL reduced-till  
**Untreated Arrangement:** INCLUDED single control randomized in each block **Study Design:** RACOB L Randomized Complete Block (RCB)

No.	Previous Crop	Year
1.	ZEAMD	2015

**Maintenance**

No.	Maintenance Product Name
1.	N 0 LB/A, P2O5 50 LB/A, K2O 150 LB/A

**Soil Description**

**Description Name:** NF-N\_2013  
**% OM:** 2.6 **Texture:** SIL silt loam  
**pH:** 6.2 **Soil Name:** Winfield  
**CEC:** 8

**Additional Measured Elements**

Element	Quantity	Unit
P1	54	lb/A
K	319	lb/A

**Moisture and Weather Conditions**

**Overall Moisture Conditions:** NORMAL  
**Closest Weather Station:** ICN - Belleville IL **Distance, Unit:** 0.5 MI

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No.	Date	Amount	Unit	Type	Type Description	Interval	Unit	Min Temp	Max Temp	Temp Unit
1.	4-1-16					7	DAY	32	75	F
2.	4-6-16	0.49	IN	RAIN	rain	1	DAY			
3.	4-8-16					7	DAY	28	71	F
4.	4-10-16	0.97	IN	RAIN	rain	2	DAY			
5.	4-15-16					7	DAY	48	81	F
6.	4-20-16	0.45	IN	RAIN	rain	3	DAY			
7.	4-22-16					7	DAY	47	85	F
8.	4-26-16	1.74	IN	RAIN	rain	2	DAY			
9.	4-29-16					7	DAY	46	75	F
10.	4-29-16	1.94	IN	RAIN	rain	2	DAY			
11.	5-4-16	0.02	IN	RAIN	rain	1	DAY			
12.	5-6-16					7	DAY	44	87	F
13.	5-7-16	0.07	IN	RAIN	rain	1	DAY			
14.	5-9-16	2.12	IN	RAIN	rain	5	DAY			
15.	5-13-16					7	DAY	41	76	F
16.	5-16-16	1.06	IN	RAIN	rain	2	DAY			
17.	5-20-16					7	DAY	51	83	F
18.	5-20-16	0.06	IN	RAIN	rain	1	DAY			
19.	5-25-16	0.68	IN	RAIN	rain	3	DAY			
20.	5-27-16					7	DAY	62	88	F
21.	5-31-16	0.03	IN	RAIN	rain	2	DAY			
22.	6-3-16					7	DAY	55	89	F
23.	6-3-16	0.01	IN	RAIN	rain	1	DAY			
24.	6-4-16	0.72	IN	RAIN	rain	1	DAY			
25.	6-10-16					7	DAY	65	96	F
26.	6-13-16	0.03	IN	RAIN	rain	1	DAY			
27.	6-17-16					7	DAY	67	97	F
28.	6-21-16	0.01	IN	RAIN	rain	1	DAY			
29.	6-24-16					7	DAY	57	95	F
30.	6-25-16	0.02	IN	RAIN	rain	1	DAY			
31.	6-30-16	0.03	IN	RAIN	rain	1	DAY			
32.	7-1-16					7	DAY	60	91	F
33.	7-1-16	2.26	IN	RAIN	rain	4	DAY			
34.	7-6-16	0.32	IN	RAIN	rain	3	DAY			
35.	7-8-16					7	DAY	67	93	F
36.	7-13-16	0.49	IN	RAIN	rain	2	DAY			
37.	7-15-16					7	DAY	68	93	F
38.	7-17-16	0.02	IN	RAIN	rain	1	DAY			
39.	7-19-16	1.47	IN	RAIN	rain	2	DAY			
40.	7-22-16					7	DAY	72	94	F
41.	7-25-16	0.1	IN	RAIN	rain	1	DAY			
42.	7-29-16					7	DAY	69	91	F
43.	7-31-16	0.52	IN	RAIN	rain	3	DAY			
44.	8-3-16	0.75	IN	RAIN	rain	1	DAY			
45.	8-5-16					7	DAY	66	93	F
46.	8-5-16	0.06	IN	RAIN	rain	1	DAY			
47.	8-12-16					7	DAY	68	91	F
48.	8-12-16	4.85	IN	RAIN	rain	5	DAY			
49.	8-19-16					7	DAY	57	93	F

**Comment:**

Rainfall was recorded on station and provided by Illinois Climate Network.  
Air temperature was recorded at Scott Air Force Base 2.5 miles north and provided by NOAA's National Centers for Environmental Information.  
Air temperatures given are summarized as weekly high and low, detailed weather data is available on request.

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## Application Description

	A
Application Date:	5-9-16
Appl. Start Time:	7:00
Appl. Stop Time:	8:00
Application Method:	Spray
Application Timing:	PRE
Application Placement:	BROSOI
Applied By:	RFK
Air Temperature, Unit:	65 F
% Relative Humidity:	100
Wind Velocity, Unit:	2 MPH
Wind Direction:	SSE
Dew Presence (Y/N):	N
Soil Temperature, Unit:	66 F
Soil Moisture:	NORMAL
% Cloud Cover:	25
Next Moisture Occurred On:	5-9-16
Time to Next Moisture, Unit:	6 HR

## Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	GLXMA
Stage Scale Used:	DESC
Stage Majority, Percent:	NA

## Pest Stage At Each Application

	A
Pest 1 Code, Type, Scale:	NA W
Stage Majority, Percent:	NA

## Application Equipment

	A
Appl. Equipment:	CO2 sprayer
Equipment Type:	BACSPR
Operation Pressure, Unit:	30 PSI
Nozzle Type:	XR
Nozzle Size:	8002
Boom Length, Unit:	10 FT
Spray Volume, Unit:	15 GPA

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Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								GLXMA 10-10-16 Moisture Percent	GLXMA 10-10-16 Test wt. lb/bu	GLXMA 10-10-16 Yield bu/A	GLXMA 10-10-16 YIERED % of NT			
Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate	Growth Unit	Stage	Appl Code				
1	NONTREATED										14.4 a-d	54.0 c-g	69 ab	0.0 fg
2	CLASSIC	25	WG	0.03	lb ai/a	1.92	oz/a	PRE	A		14.2 a-f	54.1 b-f	73 a	-5.3 g
3	CLASSIC	25	WG	0.06	lb ai/a	3.84	oz/a	PRE	A		14.4 a-d	54.0 c-g	68 ab	2.1 fg
4	FIRSTRATE	84	WG	0.0315	lb ai/a	0.6	oz/a	PRE	A		14.4 a-d	54.0 c-g	67 ab	2.4 fg
5	FIRSTRATE	84	WG	0.063	lb ai/a	1.2	oz/a	PRE	A		14.3 a-f	54.0 b-g	67 ab	3.0 fg
6	SPARTAN 4F	4	SC	0.25	lb ai/a	8	fl oz/a	PRE	A		14.2 a-f	54.0 b-g	53 ef	22.8 bc
7	SPARTAN 4F	4	SC	0.5	lb ai/a	16	fl oz/a	PRE	A		14.2 c-f	54.0 b-g	45 g	35.5 a
8	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A		14.3 a-f	54.0 b-g	65 abc	5.9 efg
9	VALOR SX	51	WG	0.128	lb ai/a	4	oz/a	PRE	A		14.3 a-e	54.0 c-g	65 abc	6.1 efg
10	ZIDUA	85	WG	0.088	lb ai/a	1.66	oz/a	PRE	A		14.5 ab	53.9 fg	66 ab	4.7 fg
11	ZIDUA	85	WG	0.176	lb ai/a	3.32	oz/a	PRE	A		14.2 a-f	54.0 b-g	68 ab	2.3 fg
12	SENCOR	75	WG	0.313	lb ai/a	6.67	oz/a	PRE	A		14.5 a	53.9 d-g	68 ab	2.0 fg
13	SENCOR	75	WG	0.625	lb ai/a	13.34	oz/a	PRE	A		14.4 abc	53.9 efg	65 abc	5.9 efg
14	AUTHORITY XL	70	WG	0.28	lb ai/a	6.4	oz/a	PRE	A		14.0 fg	54.2 ab	62 bcd	9.7 def
15	AUTHORITY XL	70	WG	0.56	lb ai/a	12.8	oz/a	PRE	A		13.6 g	54.4 a	42 g	38.5 a
16	AUTHORITY FIRST DF	70	WG	0.28	lb ai/a	6.4	oz/a	PRE	A		14.0 ef	54.1 b-e	58 cde	16.2 cde
17	AUTHORITY FIRST DF	70	WG	0.56	lb ai/a	12.8	oz/a	PRE	A		14.1 def	54.1 bc	46 fg	33.8 ab
18	VALOR XLT	40.3	WG	0.088	lb ai/a	3.5	oz/a	PRE	A		14.1 c-f	54.1 b-e	65 abc	6.0 efg
19	VALOR XLT	40.3	WG	0.176	lb ai/a	7	oz/a	PRE	A		14.2 a-f	54.0 b-g	66 ab	4.6 fg
20	FIERCE XLT	62.41	WG	0.176	lb ai/a	4.5	oz/a	PRE	A		14.4 a-e	54.0 c-g	66 ab	4.1 fg
21	FIERCE XLT	62.41	WG	0.35	lb ai/a	9	oz/a	PRE	A		14.2 b-f	54.1 bcd	64 bc	7.9 ef
22	BOUNDARY	6.5	EC	1.63	lb ai/a	2	pt/a	PRE	A		14.4 a-d	53.9 c-g	65 abc	6.0 efg
23	BOUNDARY	6.5	EC	3.25	lb ai/a	4	pt/a	PRE	A		14.5 ab	53.9 g	66 ab	4.6 fg

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)  
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Pest Code													
Crop Code													
Rating Date													
Rating Type													
Rating Unit													
Rating Timing													
Trt-Eval Interval													
Trt Treatment	Form	Form	Rate	Other	Other	Growth	Appl						
No. Name	Conc	Type	Rate	Unit	Rate	Rate	Unit	Stage	Code				
24 SHARPEN	2.85	SC	0.0445	lb ai/a	2 fl oz/a	PRE	A			14.3 a-f	54.0 b-g	55 de	20.6 cd
LSD P=.05										0.35	0.21	7.9	11.48
Standard Deviation										0.25	0.15	5.6	8.14
CV										1.73	0.27	9.04	81.6
Replicate F										3.988	2.810	7.869	7.869
Replicate Prob(F)										0.0111	0.0458	0.0001	0.0001
Treatment F										2.712	2.257	8.351	8.351
Treatment Prob(F)										0.0008	0.0050	0.0001	0.0001

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Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	GLXMA 5-30-16 Injury Percent 3 WAP 21 DA-A	GLXMA 6-20-16 Injury Percent 6 WAP 42 DA-A	GLXMA 7-11-16 Injury Percent 9 WAP 63 DA-A	GLXMA 6-7-16 Plants 000/A 29 DA-A	GLXMA 6-7-16 STDRED % of NT 29 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code		
1	NONTREATED									0	0
2	CLASSIC	25	WG	0.03 lb ai/a	1.92 oz/a	PRE	A	5 hij	0 f	0 g	119.524 abc
3	CLASSIC	25	WG	0.06 lb ai/a	3.84 oz/a	PRE	A	8 hij	5 ef	4 efg	114.212 a-e
4	FIRSTRATE	84	WG	0.0315 lb ai/a	0.6 oz/a	PRE	A	0 j	0 f	0 g	118.196 a-d
5	FIRSTRATE	84	WG	0.063 lb ai/a	1.2 oz/a	PRE	A	0 j	0 f	0 g	112.220 a-e
6	SPARTAN 4F	4	SC	0.25 lb ai/a	8 fl oz/a	PRE	A	5 hij	0 f	0 g	122.845 ab
7	SPARTAN 4F	4	SC	0.5 lb ai/a	16 fl oz/a	PRE	A	48 bc	13 de	10 c-f	55.778 i-l
8	VALOR SX	51	WG	0.064 lb ai/a	2 oz/a	PRE	A	86 a	34 b	28 b	35.857 l
9	VALOR SX	51	WG	0.128 lb ai/a	4 oz/a	PRE	A	15 ghi	0 f	0 g	89.643 e-h
10	ZIDUA	85	WG	0.088 lb ai/a	1.66 oz/a	PRE	A	19 fgh	3 ef	0 g	79.683 f-i
11	ZIDUA	85	WG	0.176 lb ai/a	3.32 oz/a	PRE	A	18 gh	3 ef	3 fg	92.963 c-g
12	SENCOR	75	WG	0.313 lb ai/a	6.67 oz/a	PRE	A	6 hij	0 f	0 g	120.852 abc
13	SENCOR	75	WG	0.625 lb ai/a	13.34 oz/a	PRE	A	0 j	0 f	0 g	117.532 a-e
14	AUTHORITY XL	70	WG	0.28 lb ai/a	6.4 oz/a	PRE	A	0 j	0 f	0 g	132.805 a
15	AUTHORITY XL	70	WG	0.56 lb ai/a	12.8 oz/a	PRE	A	43 cde	23 cd	18 c	64.410 h-k
16	AUTHORITY FIRST DF	70	WG	0.28 lb ai/a	6.4 oz/a	PRE	A	88 a	56 a	41 a	48.474 jkl
17	AUTHORITY FIRST DF	70	WG	0.56 lb ai/a	12.8 oz/a	PRE	A	58 b	21 cd	14 cd	59.098 i-l
18	VALOR XLT	40.3	WG	0.088 lb ai/a	3.5 oz/a	PRE	A	81 a	25 bc	28 b	37.849 kl
19	VALOR XLT	40.3	WG	0.176 lb ai/a	7 oz/a	PRE	A	18 gh	3 ef	0 g	90.971 d-h
20	FIERCE XLT	62.41	WG	0.176 lb ai/a	4.5 oz/a	PRE	A	33 def	13 de	9 def	79.683 f-i
21	FIERCE XLT	62.41	WG	0.35 lb ai/a	9 oz/a	PRE	A	16 ghi	3 ef	3 fg	94.955 b-g
22	BOUNDARY	6.5	EC	1.63 lb ai/a	2 pt/a	PRE	A	29 efg	13 de	11 cde	82.339 f-i
23	BOUNDARY	6.5	EC	3.25 lb ai/a	4 pt/a	PRE	A	3 ij	0 f	0 g	101.596 b-f
								5 hij	0 f	0 g	116.868 a-e

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Pest Code								GLXMA	GLXMA	GLXMA	GLXMA	GLXMA		
Crop Code								5-30-16	6-20-16	7-11-16	6-7-16	6-7-16		
Rating Date								Injury	Injury	Injury	Plants	STDRED		
Rating Type								Percent	Percent	Percent	000/A	% of NT		
Rating Unit								3 WAP	6 WAP	9 WAP				
Rating Timing								21 DA-A	42 DA-A	63 DA-A	29 DA-A	29 DA-A		
Trt-Eval Interval														
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate	Growth Unit	Appl Stage	Code					
24	SHARPEN	2.85	SC	0.0445	lb ai/a	2 fl oz/a	PRE	A		46 bcd	19 cd	9 def	67.730 g-j	43.3 c-f
LSD P=.05										14.3	10.3	8.0	27.9499	23.38
Standard Deviation										10.1	7.3	5.6	19.8137	16.58
CV										37.25	73.17	74.03	22.06	66.74
Replicate F										4.588	9.596	7.286	4.532	4.532
Replicate Prob(F)										0.0056	0.0001	0.0003	0.0059	0.0059
Treatment F										31.219	15.133	15.955	8.497	8.497
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001

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Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								GLXMA 9-29-16 Plants 000/A EOS	GLXMA 9-29-16 STDRED % of NT EOS	GLXMA 9-29-16 Height Inch EOS			
Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate	Growth Unit	Stage	Appl Code			
1	NONTREATED										105.580 abc	0.0 hij	40.8 a
2	CLASSIC	25	WG	0.03 lb ai/a	1.92 oz/a			PRE	A		99.604 a-d	5.7 g-j	38.0 a-f
3	CLASSIC	25	WG	0.06 lb ai/a	3.84 oz/a			PRE	A		111.556 a	-5.7 j	36.0 c-h
4	FIRSTRATE	84	WG	0.0315 lb ai/a	0.6 oz/a			PRE	A		100.932 a-d	4.4 g-j	37.8 a-g
5	FIRSTRATE	84	WG	0.063 lb ai/a	1.2 oz/a			PRE	A		107.572 ab	-1.9 ij	36.8 b-h
6	SPARTAN 4F	4	SC	0.25 lb ai/a	8 fl oz/a			PRE	A		49.138 hij	53.5 abc	35.0 e-h
7	SPARTAN 4F	4	SC	0.5 lb ai/a	16 fl oz/a			PRE	A		33.865 j	67.9 a	31.5 ij
8	VALOR SX	51	WG	0.064 lb ai/a	2 oz/a			PRE	A		79.683 c-g	24.5 d-h	37.5 a-h
9	VALOR SX	51	WG	0.128 lb ai/a	4 oz/a			PRE	A		72.379 e-h	31.4 c-f	39.3 abc
10	ZIDUA	85	WG	0.088 lb ai/a	1.66 oz/a			PRE	A		82.339 b-f	22.0 e-i	39.5 ab
11	ZIDUA	85	WG	0.176 lb ai/a	3.32 oz/a			PRE	A		112.884 a	-6.9 j	36.5 b-h
12	SENCOR	75	WG	0.313 lb ai/a	6.67 oz/a			PRE	A		107.572 ab	-1.9 ij	39.3 abc
13	SENCOR	75	WG	0.625 lb ai/a	13.34 oz/a			PRE	A		114.876 a	-8.8 j	39.8 ab
14	AUTHORITY XL	70	WG	0.28 lb ai/a	6.4 oz/a			PRE	A		61.754 f-i	41.5 b-e	35.5 d-h
15	AUTHORITY XL	70	WG	0.56 lb ai/a	12.8 oz/a			PRE	A		47.146 hij	55.3 abc	29.3 j
16	AUTHORITY FIRST DF	70	WG	0.28 lb ai/a	6.4 oz/a			PRE	A		53.786 g-j	49.1 a-d	34.5 ghi
17	AUTHORITY FIRST DF	70	WG	0.56 lb ai/a	12.8 oz/a			PRE	A		39.177 ij	62.9 ab	34.8 f-i
18	VALOR XLT	40.3	WG	0.088 lb ai/a	3.5 oz/a			PRE	A		83.667 b-f	20.8 e-i	35.0 e-h
19	VALOR XLT	40.3	WG	0.176 lb ai/a	7 oz/a			PRE	A		76.363 d-g	27.7 d-g	37.3 b-h
20	FIERCE XLT	62.41	WG	0.176 lb ai/a	4.5 oz/a			PRE	A		82.339 b-f	22.0 e-i	38.5 a-d
21	FIERCE XLT	62.41	WG	0.35 lb ai/a	9 oz/a			PRE	A		79.019 d-g	25.2 d-g	35.8 d-h
22	BOUNDARY	6.5	EC	1.63 lb ai/a	2 pt/a			PRE	A		88.979 a-e	15.7 f-j	38.3 a-e
23	BOUNDARY	6.5	EC	3.25 lb ai/a	4 pt/a			PRE	A		100.932 a-d	4.4 g-j	39.5 ab

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Pest Code											
Crop Code											
Rating Date											
Rating Type											
Rating Unit											
Rating Timing											
Trt-Eval Interval											
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Other Rate	Other Rate	Growth Unit	Appl Stage		
24	SHARPEN	2.85	SC	0.0445	lb ai/a		2 fl oz/a	PRE	A	64.410 e-i	39.0 b-f
											34.3 hi
LSD P=.05										26.3419	24.95
Standard Deviation										18.6738	17.69
CV										22.92	77.49
Replicate F										1.502	1.502
Replicate Prob(F)										0.2218	0.2218
Treatment F										6.954	6.954
Treatment Prob(F)										0.0001	0.0001

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Trial Comments

1. Protocol: SIU/RFK.
2. Ratings:  
CI at 3, 6, and 9 weeks after planting.  
Soybean height at harvest.
3. Yield.
4. Photos.
5. Keep weed-free.
6. Rainfall following the PRE application A was 2.12 inch over 5 days beginning 6 hours later.
7. Harvested 10-10-16, (2) 30 inch rows by 22 ft.