

Residual Herbicide Tank-Mixtures: Weed Free Study - SIU.

Trial ID: 14-NF-N100 Location: Belleville Res Center Trial Year: 2014
Investigator: Ronald F. Krausz

Trial Status: F one-year/final Initiation Date: 5-19-14 Completion Date: 10-1-14	
Trial Location	
City: Belleville State/Prov.: Illinois IL Postal Code: 62221	Country: USA

Objectives:
 Evaluate the crop response and yield of soybean following a preplant application of tank-mixtures of residual herbicides under weed-free conditions.

Study Director: Ronald F. Krausz Organization: Belleville Research Center - Southern Illinois Univ Carbondale Address: 2036 Charles Lane City+State/Prov: Belleville, IL Postal Code: 62221 Country: USA	Contacts Title: Researcher/Farm Manager Phone No.: 618-566-4761 E-mail: rkrausz@siu.edu
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Crop Description	
Crop 1: GLXMA Glycine max Variety: AG 4433 Description: RR2Y	Soybean BBCH Scale: BSOY
Planting Rate, Unit: 140000 S/A Depth, Unit: 1 IN Row Spacing, Unit: 30 IN	Planting Date: 5-19-14 Planting Method: SEEDED

Pest Description	
Pest 1 Type: W Code: NA Common Name: crop tolerance only	

Site and Design							
Treated Plot Width: 10 FT Treated Plot Length: 25 FT	Total Plot Width: 10 FT Total Plot Length: 25 FT						
Site Type: FIELD Experimental Unit: 1 PLOT Tillage Type: REDTIL reduced-till Study Design: RACOB L Randomized Complete Block (RCB)							
Replications: 4 Untreated Arrangement: INCLUDED single control randomized in each block							
<table border="1"> <thead> <tr> <th>No.</th> <th>Previous Crop</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>ZEAMD</td> <td>2013</td> </tr> </tbody> </table>		No.	Previous Crop	Year	1.	ZEAMD	2013
No.	Previous Crop	Year					
1.	ZEAMD	2013					

Maintenance					
<table border="1"> <thead> <tr> <th>No.</th> <th>Maintenance Product Name</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>N 0 LB/A, P2O5 50 LB/A, K2O 150 LB/A</td> </tr> </tbody> </table>	No.	Maintenance Product Name	1.	N 0 LB/A, P2O5 50 LB/A, K2O 150 LB/A	
No.	Maintenance Product Name				
1.	N 0 LB/A, P2O5 50 LB/A, K2O 150 LB/A				

Soil Description										
% OM: 2.6 Texture: SIL silt loam pH: 6.2 Soil Name: Winfield CEC: 8										
Additional Measured Elements										
<table border="1"> <thead> <tr> <th>Element</th> <th>Quantity</th> <th>Unit</th> </tr> </thead> <tbody> <tr> <td>P1</td> <td>54</td> <td>lb/A</td> </tr> <tr> <td>K</td> <td>319</td> <td>lb/A</td> </tr> </tbody> </table>		Element	Quantity	Unit	P1	54	lb/A	K	319	lb/A
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.	4-29-14					7	DAY	41	87	F
2.	5-6-14					7	DAY	56	86	F
3.	5-8-14	0.13	IN	RAIN	rain	2	DAY			
4.	5-12-14	0.88	IN	RAIN	rain	4	DAY			
5.	5-13-14					7	DAY	37	76	F
6.	5-20-14					7	DAY	55	87	F
7.	5-21-14	0.06	IN	RAIN	rain	1	DAY			
8.	5-25-14	0.49	IN	RAIN	rain	2	DAY			
9.	5-27-14	0.08	IN	RAIN	rain	2	DAY			
10.	5-27-14					7	DAY	60	86	F
11.	5-31-14	0.14	IN	RAIN	rain	1	DAY			
12.	6-1-14	0.13	IN	RAIN	rain	1	DAY			
13.	6-3-14					7	DAY	59	90	F
14.	6-4-14	0.67	IN	RAIN	rain	1	DAY			
15.	6-7-14	0.6	IN	RAIN	rain	1	DAY			
16.	6-9-14	1.38	IN	RAIN	rain	2	DAY			
17.	6-10-14					7	DAY	51	90	F
18.	6-12-14	0.07	IN	RAIN	rain	1	DAY			
19.	6-15-14	0.02	IN	RAIN	rain	1	DAY			
20.	6-17-14					7	DAY	67	92	F
21.	6-20-14	2.09	IN	RAIN	rain	5	DAY			
22.	6-24-14					7	DAY	65	91	F
23.	6-27-14	0.11	IN	RAIN	rain	2	DAY			
24.	7-1-14	0.01	IN	RAIN	rain	1	DAY			
25.	7-1-14					7	DAY	55	90	F
26.	7-7-14	0.79	IN	RAIN	rain	2	DAY			
27.	7-8-14					7	DAY	59	89	F
28.	7-12-14	0.49	IN	RAIN	rain	3	DAY			
29.	7-15-14					7	DAY	54	85	F
30.	7-22-14					7	DAY	57	98	F
31.	7-25-14	0.02	IN	RAIN	rain	1	DAY			
32.	7-29-14					7	DAY	52	89	F
33.	8-1-14	0.04	IN	RAIN	rain	1	DAY			
34.	8-5-14	4.04	IN	RAIN	rain	4	DAY			
35.	8-5-14					7	DAY	66	88	F
36.	8-12-14					7	DAY	57	84	F
37.	8-15-14	1.21	IN	RAIN	rain	3	DAY			
38.	8-19-14					7	DAY	67	95	F
39.	8-20-14	0.11	IN	RAIN	rain	1	DAY			
40.	8-26-14					7	DAY	68	95	F
41.	8-27-14	1.56	IN	RAIN	rain	2	DAY			
42.	9-1-14	2.21	IN	RAIN	rain	2	DAY			
43.	9-2-14					7	DAY	54	93	F
44.	9-5-14	0.24	IN	RAIN	rain	1	DAY			
45.	9-9-14					7	DAY	45	85	F
46.	9-10-14	1.06	IN	RAIN	rain	1	DAY			
47.	9-16-14					7	DAY	46	86	F
48.	9-23-14					7	DAY	46	86	F
49.	9-30-14					7	DAY	37	87	F
50.	10-1-14	0.99	IN	RAIN	rain	3	DAY			

Application Description

	A
Application Date:	5-19-14
Appl. Start Time:	8:00
Appl. Stop Time:	9:00
Application Method:	Spray
Application Timing:	0-7DBP
Application Placement:	BROSOI
Applied By:	RJW
Air Temperature, Unit:	60 F
% Relative Humidity:	65
Wind Velocity, Unit:	4 MPH
Wind Direction:	S
Dew Presence (Y/N):	N
Soil Temperature, Unit:	60 F
Soil Moisture:	NORMAL
% Cloud Cover:	25
Next Moisture Occurred On:	5-21-14
Time to Next Moisture, Unit:	2 DAY

Residual Herbicide Tank-Mixtures: Weed Free Study - SIU.

Trial ID: 14-NF-N100 Location: Belleville Res Center Trial Year: 2014
Investigator: Ronald F. Krausz**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

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

Southern Illinois University

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Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	GLXMA 6-9-14 Plants	GLXMA 10-1-14 Plants	GLXMA 10-1-14 Moisture	GLXMA 10-1-14 Test wt	GLXMA 10-1-14 Yield	GLXMA 10-1-14 Seed W	GLXMA 6-9-14 Injury	GLXMA 6-30-14 Injury	GLXMA 7-21-14 Injury
Trt	Treatment	Form	Form	Rate	Other	Growth	Appl								
No.	Name	Conc	Type	Unit	Rate	Unit	Code								
1	SPARTAN SC	4 SC		0.25 lb ai/a	8 fl oz/a	0-7DBP A		149 a	138 a-d	12.0 a	54.8 a	72 a	30.97 a-d	0 i	0 e
2	SPARTAN SC	4 SC		0.5 lb ai/a	16 fl oz/a	0-7DBP A		150 a	138 a-d	11.9 a	54.9 a	71 a	30.64 a-d	9 fgh	0 e
3	VALOR SX	51 WG		0.08 lb ai/a	2.5 oz/a	0-7DBP A		137 a	127 b-e	11.8 a	54.9 a	73 a	31.10 a-d	19 cde	0 e
4	VALOR SX	51 WG		0.16 lb ai/a	5.0 oz/a	0-7DBP A		149 a	141 abc	12.0 a	54.7 a	69 a	30.05 a-e	36 b	0 e
5	SPARTAN SC PROWL H2O	4 SC 3.8 CS		0.25 lb ai/a 1.19 lb ai/a	8 fl oz/a 2.5 pt/a	0-7DBP A 0-7DBP A		143 a	136 a-d	11.9 a	54.8 a	73 a	31.49 abc	9 fgh	0 e
6	SPARTAN SC BOUNDARY	4 SC 6.5 EC		0.25 lb ai/a 1.7 lb ai/a	8 fl oz/a 2.1 pt/a	0-7DBP A 0-7DBP A		164 a	155 a	11.9 a	54.8 a	66 a	29.12 c-f	5 ghi	0 e
7	SPARTAN SC PREFIX	4 SC 5.29 EC		0.25 lb ai/a 1.65 lb ai/a	8 fl oz/a 2.5 pt/a	0-7DBP A 0-7DBP A		148 a	139 abc	11.7 a	55.0 a	76 a	32.06 ab	6 ghi	0 e
8	SPARTAN SC SHARPEN	4 SC 2.85 SC		0.25 lb ai/a 0.0223 lb ai/a	8 fl oz/a 1.0 fl oz/a	0-7DBP A 0-7DBP A		133 a	124 cde	12.0 a	54.8 a	74 a	30.84 a-d	8 ghi	0 e
9	SPARTAN SC KIH-485	4 SC 85 WG		0.25 lb ai/a 0.106 lb ai/a	8 fl oz/a 2 oz/a	0-7DBP A 0-7DBP A		129 a	118 de	12.0 a	54.8 a	76 a	32.16 a	4 hi	0 e
10	SPARTAN SC PROWL H2O	4 SC 3.8 CS		0.5 lb ai/a 2.38 lb ai/a	16 fl oz/a 5 pt/a	0-7DBP A 0-7DBP A		139 a	108 e	11.9 a	54.8 a	63 a	28.90 def	46 a	33 a
11	SPARTAN SC BOUNDARY	4 SC 6.5 EC		0.5 lb ai/a 3.4 lb ai/a	16 fl oz/a 4.2 pt/a	0-7DBP A 0-7DBP A		137 a	126 cde	11.9 a	54.8 a	67 a	30.74 a-d	13 efg	0 e
12	SPARTAN SC PREFIX	4 SC 5.29 EC		0.5 lb ai/a 3.3 lb ai/a	16 fl oz/a 5.0 pt/a	0-7DBP A 0-7DBP A		148 a	131 bcd	12.0 a	54.8 a	69 a	29.94 a-e	16 def	0 e
13	SPARTAN SC SHARPEN	4 SC 2.85 SC		0.5 lb ai/a 0.0445 lb ai/a	16 fl oz/a 2.0 fl oz/a	0-7DBP A 0-7DBP A		143 a	131 bcd	11.8 a	54.8 a	68 a	29.56 c-f	16 def	6 d
14	SPARTAN SC KIH-485	4 SC 85 WG		0.5 lb ai/a 0.213 lb ai/a	16 fl oz/a 4 oz/a	0-7DBP A 0-7DBP A		144 a	131 bcd	12.0 a	54.8 a	72 a	30.17 a-e	9 fgh	0 e
15	VALOR SX PROWL H2O	51 WG 3.8 CS		0.08 lb ai/a 1.19 lb ai/a	2.5 oz/a 2.5 pt/a	0-7DBP A 0-7DBP A		154 a	134 bcd	12.2 a	54.7 a	65 a	28.99 def	16 def	0 e
16	VALOR SX BOUNDARY	51 WG 6.5 EC		0.08 lb ai/a 1.7 lb ai/a	2.5 oz/a 2.1 pt/a	0-7DBP A 0-7DBP A		142 a	128 b-e	12.0 a	54.8 a	69 a	30.68 a-d	34 b	0 e
17	VALOR SX PREFIX	51 WG 5.29 EC		0.08 lb ai/a 1.65 lb ai/a	2.5 oz/a 2.5 pt/a	0-7DBP A 0-7DBP A		140 a	128 b-e	11.9 a	54.8 a	68 a	29.71 b-f	35 b	0 e
18	VALOR SX SHARPEN	51 WG 2.85 SC		0.08 lb ai/a 0.0223 lb ai/a	2.5 oz/a 1.0 fl oz/a	0-7DBP A 0-7DBP A		164 a	146 ab	11.7 a	55.0 a	68 a	29.42 c-f	25 c	0 e
19	VALOR SX KIH-485	51 WG 85 WG		0.08 lb ai/a 0.106 lb ai/a	2.5 oz/a 2 oz/a	0-7DBP A 0-7DBP A		152 a	140 abc	12.1 a	54.8 a	73 a	30.16 a-e	23 cd	0 e
20	VALOR SX PROWL H2O	51 WG 3.8 CS		0.16 lb ai/a 2.38 lb ai/a	5.0 oz/a 5 pt/a	0-7DBP A 0-7DBP A		153 a	135 bcd	11.9 a	54.8 a	63 a	27.52 f	50 a	18 b
21	VALOR SX BOUNDARY	51 WG 6.5 EC		0.16 lb ai/a 3.4 lb ai/a	5.0 oz/a 4.2 pt/a	0-7DBP A 0-7DBP A		147 a	133 bcd	12.0 a	54.7 a	65 a	29.26 c-f	50 a	14 bc
22	VALOR SX PREFIX	51 WG 5.29 EC		0.16 lb ai/a 3.3 lb ai/a	5.0 oz/a 5.0 pt/a	0-7DBP A 0-7DBP A		142 a	127 b-e	11.9 a	54.9 a	64 a	27.79 ef	50 a	16 bc

Means followed by same letter do not significantly differ (P=0.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Residual Herbicide Tank-Mixtures: Weed Free Study - SIU.

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Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	GLXMA 6-9-14 Plants	GLXMA 10-1-14 Plants	GLXMA 10-1-14 Moisture	GLXMA 10-1-14 Test wt	GLXMA 10-1-14 Yield	GLXMA 10-1-14 Seed W	GLXMA 6-9-14 Injury	GLXMA 6-30-14 Injury	GLXMA 7-21-14 Injury
							000/A	000/A	Percent	lb/bu	bu/A	gram/200	Percent	Percent	Percent
							3 WAP	EOS					3 WAP	6 WAP	9 WAP
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Other Rate	Other Rate	Other Rate	Growth Unit	Stage	Appl Code				
23	VALOR SX SHARPEN	51 WG	0.16 lb ai/a	5.0 oz/a	0-7DBP A										
		2 85 SC	0.0445 lb ai/a	2.0 fl oz/a	0-7DBP A										
24	VALOR SX KIH-485	51 WG	0.16 lb ai/a	5.0 oz/a	0-7DBP A										
		85 WG	0.213 lb ai/a	4 oz/a	0-7DBP A										
25	NONTREATED														
LSD (P=.05)															
Standard Deviation															
CV															
Replicate F															
Replicate Prob(F)															
Treatment F															
Treatment Prob(F)															

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Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	GLXMA 6-9-14 Stunt Percent	GLXMA 6-30-14 Stun Percen	GLXMA 7-21-14 Stun Percen	GLXMA 6-9-14 Chlorosis Percent	GLXMA 6-30-14 Chlorosis Percent	GLXMA 7-21-14 Chlorosis Percent
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Unit	Other Rate	Other Unit	Growth Stage	Appl Code			
1	SPARTAN SC	4 SC		0.25 lb ai/a		8 fl oz/a		0-7DBP A		0 i	0 e	0 d
2	SPARTAN SC	4 SC		0.5 lb ai/a		16 fl oz/a		0-7DBP A		9 fgh	0 e	0 d
3	VALOR SX	51 WG		0.08 lb ai/a		2.5 oz/a		0-7DBP A		19 cde	0 e	0 d
4	VALOR SX	51 WG		0.16 lb ai/a		5.0 oz/a		0-7DBP A		36 b	0 e	0 d
5	SPARTAN SC PROWL H2O	4 SC 3.8 CS		0.25 lb ai/a 1.19 lb ai/a		8 fl oz/a 2.5 pt/a		0-7DBP A 0-7DBP A		9 fgh	0 e	0 d
6	SPARTAN SC BOUNDARY	4 SC 6.5 EC		0.25 lb ai/a 1.7 lb ai/a		8 fl oz/a 2.1 pt/a		0-7DBP A 0-7DBP A		5 ghi	0 e	0 d
7	SPARTAN SC PREFIX	4 SC 5.29 EC		0.25 lb ai/a 1.65 lb ai/a		8 fl oz/a 2.5 pt/a		0-7DBP A 0-7DBP A		6 ghi	0 e	0 d
8	SPARTAN SC SHARPEN	4 SC 2.85 SC		0.25 lb ai/a 0.0223 lb ai/a		8 fl oz/a 1.0 fl oz/a		0-7DBP A 0-7DBP A		8 ghi	0 e	0 d
9	SPARTAN SC KIH-485	4 SC 85 WG		0.25 lb ai/a 0.106 lb ai/a		8 fl oz/a 2 oz/a		0-7DBP A 0-7DBP A		4 hi	0 e	0 d
10	SPARTAN SC PROWL H2O	4 SC 3.8 CS		0.5 lb ai/a 2.38 lb ai/a		16 fl oz/a 5 pt/a		0-7DBP A 0-7DBP A		46 a	33 a	15 a
11	SPARTAN SC BOUNDARY	4 SC 6.5 EC		0.5 lb ai/a 3.4 lb ai/a		16 fl oz/a 4.2 pt/a		0-7DBP A 0-7DBP A		13 efg	0 e	0 d
12	SPARTAN SC PREFIX	4 SC 5.29 EC		0.5 lb ai/a 3.3 lb ai/a		16 fl oz/a 5.0 pt/a		0-7DBP A 0-7DBP A		16 def	0 e	0 d
13	SPARTAN SC SHARPEN	4 SC 2.85 SC		0.5 lb ai/a 0.0445 lb ai/a		16 fl oz/a 2.0 fl oz/a		0-7DBP A 0-7DBP A		16 def	6 d	1 cd
14	SPARTAN SC KIH-485	4 SC 85 WG		0.5 lb ai/a 0.213 lb ai/a		16 fl oz/a 4 oz/a		0-7DBP A 0-7DBP A		9 fgh	0 e	0 d
15	VALOR SX PROWL H2O	51 WG 3.8 CS		0.08 lb ai/a 1.19 lb ai/a		2.5 oz/a 2.5 pt/a		0-7DBP A 0-7DBP A		16 def	0 e	0 d
16	VALOR SX BOUNDARY	51 WG 6.5 EC		0.08 lb ai/a 1.7 lb ai/a		2.5 oz/a 2.1 pt/a		0-7DBP A 0-7DBP A		34 b	0 e	0 d
17	VALOR SX PREFIX	51 WG 5.29 EC		0.08 lb ai/a 1.65 lb ai/a		2.5 oz/a 2.5 pt/a		0-7DBP A 0-7DBP A		35 b	0 e	0 d
18	VALOR SX SHARPEN	51 WG 2.85 SC		0.08 lb ai/a 0.0223 lb ai/a		2.5 oz/a 1.0 fl oz/a		0-7DBP A 0-7DBP A		25 c	0 e	0 d
19	VALOR SX KIH-485	51 WG 85 WG		0.08 lb ai/a 0.106 lb ai/a		2.5 oz/a 2 oz/a		0-7DBP A 0-7DBP A		23 cd	0 e	0 d
20	VALOR SX PROWL H2O	51 WG 3.8 CS		0.16 lb ai/a 2.38 lb ai/a		5.0 oz/a 5 pt/a		0-7DBP A 0-7DBP A		50 a	18 b	11 b
21	VALOR SX BOUNDARY	51 WG 6.5 EC		0.16 lb ai/a 3.4 lb ai/a		5.0 oz/a 4.2 pt/a		0-7DBP A 0-7DBP A		50 a	14 bc	3 cd
22	VALOR SX PREFIX	51 WG 5.29 EC		0.16 lb ai/a 3.3 lb ai/a		5.0 oz/a 5.0 pt/a		0-7DBP A 0-7DBP A		50 a	16 bc	4 c

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Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	GLXMA 6-9-14 Stunt Percent	GLXMA 6-30-14 Stun Percen	GLXMA 7-21-14 Stun Percen	GLXMA 6-9-14 Chlorosis Percent	GLXMA 6-30-14 Chlorosis Percent	GLXMA 7-21-14 Chlorosis Percen
							3 WAP	6 WAP	9 WAP	3 WAP	6 WAP	9 WAP
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Other O her Rate Rate	Growth Unit Stage	Appl Code				
23	VALOR SX SHARPEN	51 WG 2 85 SC	0.16 lb ai/a 0.0445 lb ai/a	5.0 oz/a 2.0 fl oz/a	0-7DBP A 0-7DBP A				46 a	11 cd	3 cd	0 a
24	VALOR SX KIH-485	51 WG 85 WG	0.16 lb ai/a 0.213 lb ai/a	5.0 oz/a 4 oz/a	0-7DBP A 0-7DBP A				50 a	11 cd	3 cd	0 a
25	NONTREATED								0	0	0	0
LSD (P=.05)									8.6	5.3	3.7	0.0
Standard Deviation									6.1	3.8	2.7	0.0
CV									25.32	83.19	164.14	0.0
Replicate F									2.641	5.003	4.585	0.000
Replicate Prob(F)									0.0562	0.0034	0.0055	1.0000
Treatment F									33.391	19.767	8.007	0.000
Treatment Prob(F)									0.0001	0.0001	0.0001	1.0000

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Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval							GLXMA 6-9-14 Necrosis Percent 3 WAP	GLXMA 6-30-14 Necrosis Percent 6 WAP	GLXMA 7-21-14 Necrosis Percent 9 WAP	GLXMA 6-9-14 V Stage 3 WAP	GLXMA 6-30-14 V Stage 6 WAP	GLXMA 7-21-14 R Stage 9 WAP
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Rate	Growth Unit	Stage	Appl Code			
1	SPARTAN SC	4 SC		0.25 lb ai/a		8 fl oz/a		0-7DBP A		0 a	0 a	0 a
2	SPARTAN SC	4 SC		0.5 lb ai/a		16 fl oz/a		0-7DBP A		0 a	0 a	0 a
3	VALOR SX	51 WG		0.08 lb ai/a		2.5 oz/a		0-7DBP A		0 a	0 a	0 a
4	VALOR SX	51 WG		0.16 lb ai/a		5.0 oz/a		0-7DBP A		0 a	0 a	0 a
5	SPARTAN SC PROWL H2O	4 SC 3.8 CS		0.25 lb ai/a 1.19 lb ai/a		8 fl oz/a 2.5 pt/a		0-7DBP A 0-7DBP A		0 a	0 a	0 a
6	SPARTAN SC BOUNDARY	4 SC 6.5 EC		0.25 lb ai/a 1.7 lb ai/a		8 fl oz/a 2.1 pt/a		0-7DBP A 0-7DBP A		0 a	0 a	0 a
7	SPARTAN SC PREFIX	4 SC 5.29 EC		0.25 lb ai/a 1.65 lb ai/a		8 fl oz/a 2.5 pt/a		0-7DBP A 0-7DBP A		0 a	0 a	0 a
8	SPARTAN SC SHARPEN	4 SC 2.85 SC		0.25 lb ai/a 0.0223 lb ai/a		8 fl oz/a 1.0 fl oz/a		0-7DBP A 0-7DBP A		0 a	0 a	0 a
9	SPARTAN SC KIH-485	4 SC 85 WG		0.25 lb ai/a 0.106 lb ai/a		8 fl oz/a 2 oz/a		0-7DBP A 0-7DBP A		0 a	0 a	0 a
10	SPARTAN SC PROWL H2O	4 SC 3.8 CS		0.5 lb ai/a 2.38 lb ai/a		16 fl oz/a 5 pt/a		0-7DBP A 0-7DBP A		0 a	0 a	0 a
11	SPARTAN SC BOUNDARY	4 SC 6.5 EC		0.5 lb ai/a 3.4 lb ai/a		16 fl oz/a 4.2 pt/a		0-7DBP A 0-7DBP A		0 a	0 a	0 a
12	SPARTAN SC PREFIX	4 SC 5.29 EC		0.5 lb ai/a 3.3 lb ai/a		16 fl oz/a 5.0 pt/a		0-7DBP A 0-7DBP A		0 a	0 a	0 a
13	SPARTAN SC SHARPEN	4 SC 2.85 SC		0.5 lb ai/a 0.0445 lb ai/a		16 fl oz/a 2.0 fl oz/a		0-7DBP A 0-7DBP A		0 a	0 a	0 a
14	SPARTAN SC KIH-485	4 SC 85 WG		0.5 lb ai/a 0.213 lb ai/a		16 fl oz/a 4 oz/a		0-7DBP A 0-7DBP A		0 a	0 a	0 a
15	VALOR SX PROWL H2O	51 WG 3.8 CS		0.08 lb ai/a 1.19 lb ai/a		2.5 oz/a 2.5 pt/a		0-7DBP A 0-7DBP A		0 a	0 a	0 a
16	VALOR SX BOUNDARY	51 WG 6.5 EC		0.08 lb ai/a 1.7 lb ai/a		2.5 oz/a 2.1 pt/a		0-7DBP A 0-7DBP A		0 a	0 a	0 a
17	VALOR SX PREFIX	51 WG 5.29 EC		0.08 lb ai/a 1.65 lb ai/a		2.5 oz/a 2.5 pt/a		0-7DBP A 0-7DBP A		0 a	0 a	0 a
18	VALOR SX SHARPEN	51 WG 2.85 SC		0.08 lb ai/a 0.0223 lb ai/a		2.5 oz/a 1.0 fl oz/a		0-7DBP A 0-7DBP A		0 a	0 a	0 a
19	VALOR SX KIH-485	51 WG 85 WG		0.08 lb ai/a 0.106 lb ai/a		2.5 oz/a 2 oz/a		0-7DBP A 0-7DBP A		0 a	0 a	0 a
20	VALOR SX PROWL H2O	51 WG 3.8 CS		0.16 lb ai/a 2.38 lb ai/a		5.0 oz/a 5 pt/a		0-7DBP A 0-7DBP A		0 a	0 a	0 a
21	VALOR SX BOUNDARY	51 WG 6.5 EC		0.16 lb ai/a 3.4 lb ai/a		5.0 oz/a 4.2 pt/a		0-7DBP A 0-7DBP A		0 a	0 a	0 a
22	VALOR SX PREFIX	51 WG 5.29 EC		0.16 lb ai/a 3.3 lb ai/a		5.0 oz/a 5.0 pt/a		0-7DBP A 0-7DBP A		0 a	0 a	0 a

[illegible]

Residual Herbicide Tank-Mixtures: Weed Free Study - SIU.

Trial ID: 14-NF-N100 Location: Belleville Res Center Trial Year: 2014
Investigator: Ronald F. Krausz

Trial Comments

1. Protocol: ISA - Res_Hb_Tm_WF-SIU.
2. Trial including border rows, is to be maintained weed-free.
Ratings: CI (overall, stunting, chlorosis, necrosis) at 3, 6, and 9 WAP.
Determine growth stage of 10 plants/plot at each evaluation. Photos at all evaluation timings.
3. Determine soybean population (count plants in 1 meter of row at 2 locations in each plot)
at 3 WAP and at harvest.
4. Yield is required. Measure weight of 200 seeds/plot.
Complete harvest index evaluation may be prudent, but not confirmed at this time.
5. Boundary and Prefix rates may be adjusted to match local practices.
6. Soybean stage evaluations are the average of 10 plants per plot.
V stage = Soybean vegetative growth stage where 0 = unifoliate and 10 = R1.
R stage = Soybean reproductive stage.
7. Following the 0-7DBP application the first rainfall event was 0.55 inch within the next 7 days.
8. GLXMA, Plants, 000/A = Thousands of soybean plants per acre.
GLXMA, Seed Wt, gram/200 = Soybean seed weight, grams per 200 seeds.
WAP = Weeks after planting. EOS = End of season.
9. Harvested 10-1-14, (2) 30 inch rows by 22 ft.