

MANA Preemergence Concepts in Soybeans.

Trial ID: 13-2A-W150 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Trial Status: F one-year/final Initiation Date: 6-14-13 Completion Date: 10-26-13		Trial Location
City: Belleville State/Prov.: Illinois IL Postal Code: 62221	Country: USA	

Objectives:
Evaluate crop tolerance and weed control from new MANA herbicides applied preemergence in soybean.

Contacts	
Study Director: Bryan Young Organization: Southern Illinois University Address: 1205 Lincoln Drive - AG 176 - MC 4415 City+State/Prov: Carbondale IL Postal Code: 62901 Country: USA	Title: Professor Phone No.: 618-453-7679 Mobile No.: 618-713-6471 E-mail: bgyoung@siu.edu

Crop Description	
Crop 1: GLXMA Glycine max Soybean Variety: AG3832 Description: RR2Y Planting Date: 6-14-13 Planting Rate, Unit: 75 LB/A Planting Method: SEEDED Depth, Unit: 1 IN Row Spacing, Unit: 30 IN	

Pest Description	
Pest 1 Type: W Code: SETFA <i>Setaria faberi</i> Herm. Common Name: foxtail, giant Pest 2 Type: W Code: AMBTR <i>Ambrosia trifida</i> L. Common Name: ragweed, giant Pest 3 Type: W Code: AMATA <i>Amaranthus rudis</i> Sauer Common Name: waterhemp, common Pest 4 Type: W Code: IPOHE <i>Ipomoea hederacea</i> (L.) Jacq. Common Name: morningglory, ivyleaf Pest 5 Type: W Code: ABUTH <i>Abutilon theophrasti</i> Medik. Common Name: velvetleaf	

Site and Design							
Treated Plot Width: 7.5 FT Total Plot Width: 10 FT Site Type: FIELD Treated Plot Length: 28 FT Total Plot Length: 28 FT Experimental Unit: 1 PLOT Tillage Type: REDTIL reduced-till Replications: 4 Study Design: RACOB Randomized Complete Block (RCB) Untreated Arrangement: INCLUDED single control randomized in each block							
<table border="1" style="width: 100%;"> <tr> <th>No.</th> <th>Previous Crop</th> <th>Year</th> </tr> <tr> <td>1.</td> <td>ZEAMD</td> <td>2012</td> </tr> </table>		No.	Previous Crop	Year	1.	ZEAMD	2012
No.	Previous Crop	Year					
1.	ZEAMD	2012					

Maintenance					
<table border="1" style="width: 100%;"> <tr> <th>No.</th> <th>Maintenance Product Name</th> </tr> <tr> <td>1.</td> <td>N 0 LB/A, P2O5 50 LB/A, K2O 150 LB/A</td> </tr> </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: 2.5 Texture: SIL silt loam pH: 6.7 Soil Name: Pierron CEC: 6										
Additional Measured Elements										
<table border="1" style="width: 100%;"> <tr> <th>Element</th> <th>Quantity</th> <th>Unit</th> </tr> <tr> <td>P1</td> <td>65</td> <td>lb/A</td> </tr> <tr> <td>K</td> <td>262</td> <td>lb/A</td> </tr> </table>		Element	Quantity	Unit	P1	65	lb/A	K	262	lb/A
Element	Quantity	Unit								
P1	65	lb/A								
K	262	lb/A								

Moisture and Weather Conditions	
Overall Moisture Conditions: ABONOR 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.	5-3-13	3.07	IN	RAIN	rain	4	DAY			
2.	5-5-13					7	DAY	46	80	F
3.	5-9-13	0.35	IN	RAIN	rain	2	DAY			
4.	5-12-13					7	DAY	39	92	F
5.	5-16-13	0.55	IN	RAIN	rain	2	DAY			
6.	5-19-13					7	DAY	45	88	F
7.	5-20-13	0.67	IN	RAIN	rain	2	DAY			
8.	5-26-13					7	DAY	56	86	F
9.	5-27-13	1.23	IN	RAIN	rain	2	DAY			
10.	5-30-13	0.51	IN	RAIN	rain	3	DAY			
11.	5-31-13	3.46	IN	RAIN	rain	2	DAY			
12.	6-2-13					7	DAY	50	80	F
13.	6-9-13					7	DAY	59	94	F
14.	6-10-13	0.48	IN	RAIN	rain	2	DAY			
15.	6-16-13					7	DAY	61	90	F
16.	6-17-13	2.16	IN	RAIN	rain	3	DAY			
17.	6-23-13					7	DAY	64	92	F
18.	6-23-13	5.33	IN	RAIN	rain	2	DAY			
19.	6-26-13	0.46	IN	RAIN	rain	1	DAY			
20.	6-29-13	0.19	IN	RAIN	rain	2	DAY			
21.	6-30-13					7	DAY	61	86	F
22.	7-2-13	2.08	IN	RAIN	rain	2	DAY			
23.	7-7-13					7	DAY	62	94	F
24.	7-10-13	0.2	IN	RAIN	rain	1	DAY			
25.	7-14-13					7	DAY	64	94	F
26.	7-15-13	0.03	IN	RAIN	rain	1	DAY			
27.	7-20-13	0.59	IN	RAIN	rain	1	DAY			
28.	7-21-13					7	DAY	56	91	F
29.	7-26-13	0.03	IN	RAIN	rain	1	DAY			
30.	7-30-13	0.46	IN	RAIN	rain	1	DAY			
31.	8-2-13	0.24	IN	RAIN	rain	1	DAY			
32.	8-4-13					7	DAY	62	87	F
33.	8-8-13	0.03	IN	RAIN	rain	3	DAY			
34.	8-11-13					7	DAY	54	85	F
35.	8-12-13	0.57	IN	RAIN	rain	1	DAY			
36.	8-18-13	0.1	IN	RAIN	rain	1	DAY			
37.	8-18-13					7	DAY	61	91	F
38.	8-25-13					7	DAY	62	100	F
39.	8-31-13	0.74	IN	RAIN	rain	1	DAY			
40.	9-1-13					7	DAY	57	92	F
41.	9-8-13	0.26	IN	RAIN	rain	1	DAY			

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Application Description

	A	B
Application Date:	6-15-13	7-17-13
Appl. Start Time:	8:30	14:00
Appl. Stop Time:	9:15	14:30
Application Method:	Spray	Spray
Application Timing:	PRE	V5
Application Placement:	BROSOI	BROFOL
Applied By:	NTH	RJW
Air Temperature, Unit:	78 F	92 F
% Relative Humidity:	62	54
Wind Velocity, Unit:	6 MPH	1 MPH
Wind Direction:	SW	E
Dew Presence (Y/N):	N	N
Soil Temperature, Unit:	74 F	80 F
Soil Moisture:	NORMAL	NORMAL
% Cloud Cover:	60	60
Next Moisture Occurred On:	6-15-13	7-20-13
Time to Next Moisture, Unit:	12 HR	3 DAY

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA	GLXMA
Stage Scale Used:	DESC	DESC
Stage Majority, Percent:	NA	V5
Stage Minimum, Percent:		V4
Stage Maximum, Percent:		V5
Height, Unit:		14 IN
Height Minimum, Maximum:		12 14

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Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:	NA	10
Stage Minimum, Percent:		3
Stage Maximum, Percent:		20
Height, Unit:		8 IN
Height Minimum, Maximum:		4 18
Density, Unit:		1 FT2
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:	NA	12
Stage Minimum, Percent:		10
Stage Maximum, Percent:		18
Height, Unit:		12 IN
Height Minimum, Maximum:		6 24
Density, Unit:		1 FT2
Pest 3 Code, Type, Scale:	AMATA W	AMATA W
Stage Majority, Percent:	NA	16
Stage Minimum, Percent:		6
Stage Maximum, Percent:		50
Height, Unit:		8 IN
Height Minimum, Maximum:		4 24
Density, Unit:		1 FT2
Pest 4 Code, Type, Scale:	IPOHE W	IPOHE W
Stage Majority, Percent:	NA	3
Stage Minimum, Percent:		COTY
Stage Maximum, Percent:		6
Height, Unit:		4 IN
Height Minimum, Maximum:		1 6
Density, Unit:		0.001 FT2
Pest 5 Code, Type, Scale:	ABUTH W	ABUTH W
Stage Majority, Percent:	NA	6
Stage Minimum, Percent:		4
Stage Maximum, Percent:		12
Height, Unit:		6 IN
Height Minimum, Maximum:		2 16
Density, Unit:		0.1 FT2

Application Equipment

	A	B
Appl. Equipment:	CO2 sprayer	CO2 sprayer
Equipment Type:	BACSPR	BACSPR
Operation Pressure, Unit:	30 PSI	30 PSI
Nozzle Type:	XR	XR
Nozzle Size:	8002	8002
Boom Length, Unit:	7.5 FT	7.5 FT
Spray Volume, Unit:	15 GPA	15 GPA

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1	WISE ROUNDUP POWERMAX N-PAK AMS	5.4 EC 4.5 SL 100 SL		1.35 lb ai/a 0.77 lb ae/a 5 % v/v		2 pt/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	12.1 a	50 bcd	0 a	6 cde	0 d	0 c
2	PREFIX ROUNDUP POWERMAX N-PAK AMS	5.29 EC 4.5 SL 100 SL		1.32 lb ai/a 0.77 lb ae/a 5 % v/v		2 pt/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	12.0 a	56 ab	0 a	7 cd	0 d	0 c
3	TAILWIND ROUNDUP POWERMAX N-PAK AMS	6.5 SC 4.5 SL 100 SL		1.02 lb ai/a 0.77 lb ae/a 5 % v/v		20 fl oz/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	12.1 a	49 bcd	0 a	5 def	0 d	0 c
4	BOUNDARY ROUNDUP POWERMAX N-PAK AMS	6.5 EC 4.5 SL 100 SL		1.02 lb ai/a 0.77 lb ae/a 5 % v/v		20 fl oz/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	12.1 a	53 a-d	0 a	7 cd	0 d	0 c
5	MANA 25337 ROUNDUP POWERMAX N-PAK AMS	100 WG 4.5 SL 100 SL		3.2 oz/a 0.77 lb ae/a 5 % v/v		3.2 oz/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	12.1 a	52 a-d	0 a	3 efg	0 d	0 c
6	MANA 25337 ROUNDUP POWERMAX N-PAK AMS	100 WG 4.5 SL 100 SL		4.25 oz/a 0.77 lb ae/a 5 % v/v		4.25 oz/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	12.1 a	52 a-d	0 a	3 efg	5 c	1 bc
7	PUMMEL ROUNDUP POWERMAX N-PAK AMS	100 SL 4.5 SL 100 SL		1.5 pt/a 0.77 lb ae/a 5 % v/v		1.5 pt/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	11.9 a	52 a-d	0 a	5 def	0 d	0 c
8	PUMMEL ROUNDUP POWERMAX N-PAK AMS	100 SL 4.5 SL 100 SL		2 pt/a 0.77 lb ae/a 5 % v/v		2 pt/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	12.1 a	54 abc	0 a	5 def	3 cd	1 bc
9	TORMENT ROUNDUP POWERMAX N-PAK AMS	2.5 SL 4.5 SL 100 SL		0.234 lb ae/a 0.77 lb ae/a 5 % v/v		0.75 pt/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	12.1 a	53 a-d	0 a	6 cde	5 c	0 c
10	TORMENT ROUNDUP POWERMAX N-PAK AMS	2.5 SL 4.5 SL 100 SL		0.312 lb ae/a 0.77 lb ae/a 5 % v/v		1 pt/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	12.0 a	58 a	0 a	15 a	3 cd	0 c
11	TORMENT SHARPEN ROUNDUP POWERMAX N-PAK AMS	2.5 SL 2.85 SC 4.5 SL 100 SL		0.234 lb ae/a 0.0223 lb ai/a 0.77 lb ae/a 5 % v/v		0.75 pt/a 1 fl oz/a 22 fl oz/a 5 % v/v		PRE PRE V5 V5	A A B B	12.1 a	50 bcd	0 a	8 bcd	7 c	1 bc
12	OPTILL ROUNDUP POWERMAX N-PAK AMS	68 WG 4.5 SL 100 SL		0.085 lb ai/a 0.77 lb ae/a 5 % v/v		2 oz/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	12.2 a	52 a-d	0 a	3 fgh	5 c	2 abc
13	WARRANT GLORY ROUNDUP POWERMAX N-PAK AMS	3 CS 75 WG 4.5 SL 100 SL		1.13 lb ai/a 0.188 lb ai/a 0.77 lb ae/a 5 % v/v		3 pt/a 4 oz/a 22 fl oz/a 5 % v/v		PRE PRE V5 V5	A A B B	12.1 a	52 a-d	0 a	8 bc	0 d	0 c
14	OUTFLANK ROUNDUP POWERMAX N-PAK AMS	51 WG 4.5 SL 100 SL		0.064 lb ai/a 0.77 lb ae/a 5 % v/v		2 oz/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	12.2 a	53 a-d	0 a	7 cd	0 d	0 c

Means followed by same letter do not significantly differ (P=.05, LSD)

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

Missing data estimates are included in columns: Average=2,4,9,10,16,11,17,22,26,12,18,23,27,13,19,24,28,14,20,25,29

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
15	PURSUIT ROUNDUP POWERMAX N-PAK AMS	2 SL 4.5 SL 100 SL		0.0625 lb ai/a 0.77 lb ae/a 5 % v/v		4 fl oz/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	11.9 a	54 abc	0 a 1 gh 0 d 0 c
16	VALOR XLT ROUNDUP POWERMAX N-PAK AMS	40.3 WG 4.5 SL 100 SL		0.0756 lb ai/a 0.77 lb ae/a 5 % v/v		3 oz/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	12.0 a	55 ab	0 a 9 bc 18 a 2 ab
17	AUTHORITY ASSIST ROUNDUP POWERMAX N-PAK AMS	4 SC 4.5 SL 100 SL		0.25 lb ai/a 0.77 lb ae/a 5 % v/v		8 fl oz/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	12.2 a	46 d	0 a 10 b 14 b 3 a
18	PARAZONE GLORY NIS (ACTIVATOR 90) ROUNDUP POWERMAX N-PAK AMS	3 SL 75 WG 100 SL 4.5 SL 100 SL		1.13 lb ai/a 0.188 lb ai/a 0.25 % v/v 0.77 lb ae/a 5 % v/v		48 fl oz/a 4 oz/a 0.25 % v/v 22 fl oz/a 5 % v/v		PRE PRE PRE V5 V5	A A A B B	12.0 a	47 cd	0 a 6 cde 0 d 0 c
19	NO PRE HERBICIDE ROUNDUP POWERMAX N-PAK AMS	4.5 SL 100 SL		0.77 lb ae/a 5 % v/v		22 fl oz/a 5 % v/v		V5 V5	B B	12.0 a	55 ab	0 c
20	NONTREATED									12.2 a	8 e	0 0 h 0 d 0 c
LSD (P=.05)										0.33	7.7	0.0 3.2 4.3 1.9
Standard Deviation										0.23	5.5	0.0 2.2 3.0 1.3
CV										1.92	10.92	0.0 36.9 95.0 274.69
Replicate F										1.303	2.404	0.000 2.573 3.760 1.680
Replicate Prob(F)										0.2827	0.0773	1.0000 0.0679 0.0164 0.1815
Treatment F										0.564	13.982	0.000 9.226 11.847 1.841
Treatment Prob(F)										0.9158	0.0001	1.0000 0.0001 0.0001 0.0396

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code		
1	WISE ROUNDUP POWERMAX N-PAK AMS	5.4 EC 4.5 SL 100 SL		1.35 lb ai/a 0.77 lb ae/a 5 % v/v		2 pt/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	99 a	96 ab
2	PREFIX ROUNDUP POWERMAX N-PAK AMS	5.29 EC 4.5 SL 100 SL		1.32 lb ai/a 0.77 lb ae/a 5 % v/v		2 pt/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	99 a	97 a
3	TAILWIND ROUNDUP POWERMAX N-PAK AMS	6.5 SC 4.5 SL 100 SL		1.02 lb ai/a 0.77 lb ae/a 5 % v/v		20 fl oz/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	99 a	95 abc
4	BOUNDARY ROUNDUP POWERMAX N-PAK AMS	6.5 EC 4.5 SL 100 SL		1.02 lb ai/a 0.77 lb ae/a 5 % v/v		20 fl oz/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	99 a	88 bcd
5	MANA 25337 ROUNDUP POWERMAX N-PAK AMS	100 WG 4.5 SL 100 SL		3.2 oz/a 0.77 lb ae/a 5 % v/v		3.2 oz/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	99 a	94 abc
6	MANA 25337 ROUNDUP POWERMAX N-PAK AMS	100 WG 4.5 SL 100 SL		4.25 oz/a 0.77 lb ae/a 5 % v/v		4.25 oz/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	98 ab	95 abc
7	PUMMEL ROUNDUP POWERMAX N-PAK AMS	100 SL 4.5 SL 100 SL		1.5 pt/a 0.77 lb ae/a 5 % v/v		1.5 pt/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	99 a	96 ab
8	PUMMEL ROUNDUP POWERMAX N-PAK AMS	100 SL 4.5 SL 100 SL		2 pt/a 0.77 lb ae/a 5 % v/v		2 pt/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	99 a	97 a
9	TORMENT ROUNDUP POWERMAX N-PAK AMS	2.5 SL 4.5 SL 100 SL		0.234 lb ae/a 0.77 lb ae/a 5 % v/v		0.75 pt/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	93 bc	85 de
10	TORMENT ROUNDUP POWERMAX N-PAK AMS	2.5 SL 4.5 SL 100 SL		0.312 lb ae/a 0.77 lb ae/a 5 % v/v		1 pt/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	99 a	95 abc
11	TORMENT SHARPEN ROUNDUP POWERMAX N-PAK AMS	2.5 SL 2.85 SC 4.5 SL 100 SL		0.234 lb ae/a 0.0223 lb ai/a 0.77 lb ae/a 5 % v/v		0.75 pt/a 1 fl oz/a 22 fl oz/a 5 % v/v		PRE PRE V5 V5	A A B B	98 ab	93 a-d
12	OPTILL ROUNDUP POWERMAX N-PAK AMS	68 WG 4.5 SL 100 SL		0.085 lb ai/a 0.77 lb ae/a 5 % v/v		2 oz/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	99 a	88 cd
13	WARRANT GLORY ROUNDUP POWERMAX N-PAK AMS	3 CS 75 WG 4.5 SL 100 SL		1.13 lb ai/a 0.188 lb ai/a 0.77 lb ae/a 5 % v/v		3 pt/a 4 oz/a 22 fl oz/a 5 % v/v		PRE PRE V5 V5	A A B B	93 bc	79 e
14	OUTFLANK ROUNDUP POWERMAX N-PAK AMS	51 WG 4.5 SL 100 SL		0.064 lb ai/a 0.77 lb ae/a 5 % v/v		2 oz/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	89 c	58 f

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Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code		
15	PURSUIT ROUNDUP POWERMAX N-PAK AMS	2 SL 4.5 SL 100 SL		0.0625 lb ai/a 0.77 lb ae/a 5 % v/v	4 fl oz/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	91 c	78 e
16	VALOR XLT ROUNDUP POWERMAX N-PAK AMS	40.3 WG 4.5 SL 100 SL		0.0756 lb ai/a 0.77 lb ae/a 5 % v/v	3 oz/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	99 a	93 abc
17	AUTHORITY ASSIST ROUNDUP POWERMAX N-PAK AMS	4 SC 4.5 SL 100 SL		0.25 lb ai/a 0.77 lb ae/a 5 % v/v	8 fl oz/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	99 a	93 abc
18	PARAZONE GLORY NIS (ACTIVATOR 90) ROUNDUP POWERMAX N-PAK AMS	3 SL 75 WG 100 SL 4.5 SL 100 SL		1.13 lb ai/a 0.188 lb ai/a 0.25 % v/v 0.77 lb ae/a 5 % v/v	48 fl oz/a 4 oz/a 0.25 % v/v 22 fl oz/a 5 % v/v		PRE PRE PRE V5 V5	A A A B B	75 d	58 f
19	NO PRE HERBICIDE ROUNDUP POWERMAX N-PAK AMS	4.5 SL 100 SL		0.77 lb ae/a 5 % v/v	22 fl oz/a 5 % v/v		V5 V5	B B		99 a
20	NONTREATED								0 e	0 g
LSD (P=.05)							5.4	7.9	2.3	2.2
Standard Deviation							3.8	5.5	1.7	1.5
CV							4.15	6.65	1.78	1.66
Replicate F							0.835	5.035	0.420	0.550
Replicate Prob(F)							0.4813	0.0040	0.7391	0.6504
Treatment F							146.162	71.448	697.522	807.034
Treatment Prob(F)							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							AMBTR 6-29-13 Control Percent 14 DA-A	AMBTR 7-15-13 Control Percent -2 DA-B 30 DA-A	AMBTR 8-14-13 Control Percent 28 DA-B 60 DA-A	AMBTR 10-9-13 Control Percent At Harvest			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	WISE ROUNDUP POWERMAX N-PAK AMS	5.4 EC 4.5 SL 100 SL		1.35 lb ai/a 0.77 lb ae/a 5 % v/v		2 pt/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	75 a-e	89 ab	93 ab	95 a-d
2	PREFIX ROUNDUP POWERMAX N-PAK AMS	5.29 EC 4.5 SL 100 SL		1.32 lb ai/a 0.77 lb ae/a 5 % v/v		2 pt/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	90 ab	95 a	96 a	97 abc
3	TAILWIND ROUNDUP POWERMAX N-PAK AMS	6.5 SC 4.5 SL 100 SL		1.02 lb ai/a 0.77 lb ae/a 5 % v/v		20 fl oz/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	50 fgh	44 de	92 ab	92 a-d
4	BOUNDARY ROUNDUP POWERMAX N-PAK AMS	6.5 EC 4.5 SL 100 SL		1.02 lb ai/a 0.77 lb ae/a 5 % v/v		20 fl oz/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	50 fgh	40 def	88 b	91 cd
5	MANA 25337 ROUNDUP POWERMAX N-PAK AMS	100 WG 4.5 SL 100 SL		3.2 oz/a 0.77 lb ae/a 5 % v/v		3.2 oz/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	80 a-e	80 abc	94 ab	97 ab
6	MANA 25337 ROUNDUP POWERMAX N-PAK AMS	100 WG 4.5 SL 100 SL		4.25 oz/a 0.77 lb ae/a 5 % v/v		4.25 oz/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	85 a-d	84 abc	93 ab	97 abc
7	PUMMEL ROUNDUP POWERMAX N-PAK AMS	100 SL 4.5 SL 100 SL		1.5 pt/a 0.77 lb ae/a 5 % v/v		1.5 pt/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	70 b-f	63 cd	88 b	92 bcd
8	PUMMEL ROUNDUP POWERMAX N-PAK AMS	100 SL 4.5 SL 100 SL		2 pt/a 0.77 lb ae/a 5 % v/v		2 pt/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	73 a-e	80 abc	90 ab	97 abc
9	TORMENT ROUNDUP POWERMAX N-PAK AMS	2.5 SL 4.5 SL 100 SL		0.234 lb ae/a 0.77 lb ae/a 5 % v/v		0.75 pt/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	88 abc	93 ab	95 ab	97 abc
10	TORMENT ROUNDUP POWERMAX N-PAK AMS	2.5 SL 4.5 SL 100 SL		0.312 lb ae/a 0.77 lb ae/a 5 % v/v		1 pt/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	85 a-d	95 a	95 ab	96 a-d
11	TORMENT SHARPEN ROUNDUP POWERMAX N-PAK AMS	2.5 SL 2.85 SC 4.5 SL 100 SL		0.234 lb ae/a 0.0223 lb ai/a 0.77 lb ae/a 5 % v/v		0.75 pt/a 1 fl oz/a 22 fl oz/a 5 % v/v		PRE PRE V5 V5	A A B B	92 a	97 a	97 a	98 a
12	OPTILL ROUNDUP POWERMAX N-PAK AMS	68 WG 4.5 SL 100 SL		0.085 lb ai/a 0.77 lb ae/a 5 % v/v		2 oz/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	88 abc	91 ab	94 ab	96 a-d
13	WARRANT GLORY ROUNDUP POWERMAX N-PAK AMS	3 CS 75 WG 4.5 SL 100 SL		1.13 lb ai/a 0.188 lb ai/a 0.77 lb ae/a 5 % v/v		3 pt/a 4 oz/a 22 fl oz/a 5 % v/v		PRE PRE V5 V5	A A B B	43 gh	36 ef	88 b	92 a-d
14	OUTFLANK ROUNDUP POWERMAX N-PAK AMS	51 WG 4.5 SL 100 SL		0.064 lb ai/a 0.77 lb ae/a 5 % v/v		2 oz/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	63 d-g	70 bc	92 ab	95 a-d

MANA Preemergence Concepts in Soybeans.

Trial ID: 13-2A-W150 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Pest Code								AMBTR	AMBTR	AMBTR	AMBTR
Crop Code								6-29-13	7-15-13	8-14-13	10-9-13
Rating Date								Control	Control	Control	Control
Rating Type								Percent	Percent	Percent	Percent
Rating Unit								-2 DA-B	-2 DA-B	28 DA-B	
Rating Timing								14 DA-A	30 DA-A	60 DA-A	At Harvest
Trt-Eval Interval											
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code		
15	PURSUIT	2 SL		0.0625 lb ai/a		4 fl oz/a		PRE	A	63 efg	40 def
	ROUNDUP POWERMAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		V5	B		
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		V5	B		91 ab
16	VALOR XLT	40.3 WG		0.0756 lb ai/a		3 oz/a		PRE	A	83 a-e	95 a
	ROUNDUP POWERMAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		V5	B		96 a
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		V5	B		97 abc
17	AUTHORITY ASSIST	4 SC		0.25 lb ai/a		8 fl oz/a		PRE	A	68 c-f	76 abc
	ROUNDUP POWERMAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		V5	B		92 ab
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		V5	B		95 a-d
18	PARAZONE	3 SL		1.13 lb ai/a		48 fl oz/a		PRE	A	35 h	20 fg
	GLORY	75 WG		0.188 lb ai/a		4 oz/a		PRE	A		88 b
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v		0.25 % v/v		PRE	A		91 d
	ROUNDUP POWERMAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		V5	B		
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		V5	B		
19	NO PRE HERBICIDE										
	ROUNDUP POWERMAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		V5	B		97 a
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		V5	B		96 a-d
20	NONTREATED									0 i	0 g
										0 c	0 e
LSD (P=.05)								21.8	23.6	7.3	5.9
Standard Deviation								15.3	16.5	5.2	4.2
CV								22.67	24.41	5.88	4.62
Replicate F								1.869	1.956	2.623	2.976
Replicate Prob(F)								0.1478	0.1325	0.0600	0.0397
Treatment F								9.405	12.444	65.387	104.957
Treatment Prob(F)								0.0001	0.0001	0.0001	0.0001

MANA Preemergence Concepts in Soybeans.

Trial ID: 13-2A-W150 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								AMATA	AMATA	AMATA	AMATA
								6-29-13 Control Percent	7-15-13 Control Percent	8-14-13 Control Percent	10-9-13 Control Percent
								14 DA-A	30 DA-A	60 DA-A	At Harvest
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code		
1	WISE ROUNDUP POWERMAX N-PAK AMS	5.4 EC 4.5 SL 100 SL		1.35 lb ai/a 0.77 lb ae/a 5 % v/v		2 pt/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	99 a	92 b
2	PREFIX ROUNDUP POWERMAX N-PAK AMS	5.29 EC 4.5 SL 100 SL		1.32 lb ai/a 0.77 lb ae/a 5 % v/v		2 pt/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	98 a	99 a
3	TAILWIND ROUNDUP POWERMAX N-PAK AMS	6.5 SC 4.5 SL 100 SL		1.02 lb ai/a 0.77 lb ae/a 5 % v/v		20 fl oz/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	89 a-d	97 a
4	BOUNDARY ROUNDUP POWERMAX N-PAK AMS	6.5 EC 4.5 SL 100 SL		1.02 lb ai/a 0.77 lb ae/a 5 % v/v		20 fl oz/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	91 a-d	98 a
5	MANA 25337 ROUNDUP POWERMAX N-PAK AMS	100 WG 4.5 SL 100 SL		3.2 oz/a 0.77 lb ae/a 5 % v/v		3.2 oz/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	83 a-e	99 a
6	MANA 25337 ROUNDUP POWERMAX N-PAK AMS	100 WG 4.5 SL 100 SL		4.25 oz/a 0.77 lb ae/a 5 % v/v		4.25 oz/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	82 a-e	98 a
7	PUMMEL ROUNDUP POWERMAX N-PAK AMS	100 SL 4.5 SL 100 SL		1.5 pt/a 0.77 lb ae/a 5 % v/v		1.5 pt/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	66 e	98 a
8	PUMMEL ROUNDUP POWERMAX N-PAK AMS	100 SL 4.5 SL 100 SL		2 pt/a 0.77 lb ae/a 5 % v/v		2 pt/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	71 cde	98 a
9	TORMENT ROUNDUP POWERMAX N-PAK AMS	2.5 SL 4.5 SL 100 SL		0.234 lb ae/a 0.77 lb ae/a 5 % v/v		0.75 pt/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	79 a-e	98 a
10	TORMENT ROUNDUP POWERMAX N-PAK AMS	2.5 SL 4.5 SL 100 SL		0.312 lb ae/a 0.77 lb ae/a 5 % v/v		1 pt/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	98 a	98 a
11	TORMENT SHARPEN ROUNDUP POWERMAX N-PAK AMS	2.5 SL 2.85 SC 4.5 SL 100 SL		0.234 lb ae/a 0.0223 lb ai/a 0.77 lb ae/a 5 % v/v		0.75 pt/a 1 fl oz/a 22 fl oz/a 5 % v/v		PRE PRE V5 V5	A A B B	99 a	99 a
12	OPTILL ROUNDUP POWERMAX N-PAK AMS	68 WG 4.5 SL 100 SL		0.085 lb ai/a 0.77 lb ae/a 5 % v/v		2 oz/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	76 b-e	98 a
13	WARRANT GLORY ROUNDUP POWERMAX N-PAK AMS	3 CS 75 WG 4.5 SL 100 SL		1.13 lb ai/a 0.188 lb ai/a 0.77 lb ae/a 5 % v/v		3 pt/a 4 oz/a 22 fl oz/a 5 % v/v		PRE PRE V5 V5	A A B B	91 abc	97 a
14	OUTFLANK ROUNDUP POWERMAX N-PAK AMS	51 WG 4.5 SL 100 SL		0.064 lb ai/a 0.77 lb ae/a 5 % v/v		2 oz/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	32 f	98 a

Southern Illinois University

MANA Preemergence Concepts in Soybeans.

Trial ID: 13-2A-W150 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Pest Code								AMATA	AMATA	AMATA	AMATA
Crop Code								6-29-13	7-15-13	8-14-13	10-9-13
Rating Date								Control	Control	Control	Control
Rating Type								Percent	Percent	Percent	Percent
Rating Unit								14 DA-A	-2 DA-B	28 DA-B	60 DA-A
Rating Timing									30 DA-A	60 DA-A	At Harvest
Trt-Eval Interval											
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code		
15	PURSUIT	2 SL		0.0625 lb ai/a		4 fl oz/a		PRE	A	13 b	0 g
	ROUNDUP POWERMAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		V5	B		
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		V5	B		97 a
16	VALOR XLT	40.3 WG		0.0756 lb ai/a		3 oz/a		PRE	A	99 a	88 a-d
	ROUNDUP POWERMAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		V5	B		98 ab
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		V5	B		98 a
17	AUTHORITY ASSIST	4 SC		0.25 lb ai/a		8 fl oz/a		PRE	A	99 a	98 a
	ROUNDUP POWERMAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		V5	B		98 ab
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		V5	B		98 a
18	PARAZONE	3 SL		1.13 lb ai/a		48 fl oz/a		PRE	A	97 a	70 de
	GLORY	75 WG		0.188 lb ai/a		4 oz/a		PRE	A		97 abc
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v		0.25 % v/v		PRE	A		97 a
	ROUNDUP POWERMAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		V5	B		
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		V5	B		
19	NO PRE HERBICIDE										98 a
	ROUNDUP POWERMAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		V5	B		98 a
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		V5	B		
20	NONTREATED									0 c	0 g
										0 d	0 c
LSD (P=.05)								9.6	21.1	2.1	3.3
Standard Deviation								6.7	14.7	1.5	2.4
CV								7.62	19.96	1.64	2.55
Replicate F								1.027	3.064	0.252	0.649
Replicate Prob(F)								0.3889	0.0364	0.8596	0.5873
Treatment F								74.457	17.056	825.828	342.683
Treatment Prob(F)								0.0001	0.0001	0.0001	0.0001

MANA Preemergence Concepts in Soybeans.

Trial ID: 13-2A-W150 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								IPOHE 6-29-13 Control Percent 14 DA-A	IPOHE 7-15-13 Control Percent -2 DA-B 30 DA-A	IPOHE 8-14-13 Control Percent 28 DA-B 60 DA-A	IPOHE 10-9-13 Control Percent At Harvest
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code		
1	WISE ROUNDUP POWERMAX N-PAK AMS	5.4 EC 4.5 SL 100 SL		1.35 lb ai/a 0.77 lb ae/a 5 % v/v		2 pt/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	85 ab	60 de
2	PREFIX ROUNDUP POWERMAX N-PAK AMS	5.29 EC 4.5 SL 100 SL		1.32 lb ai/a 0.77 lb ae/a 5 % v/v		2 pt/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	87 ab	67 b-e
3	TAILWIND ROUNDUP POWERMAX N-PAK AMS	6.5 SC 4.5 SL 100 SL		1.02 lb ai/a 0.77 lb ae/a 5 % v/v		20 fl oz/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	72 bc	48 ef
4	BOUNDARY ROUNDUP POWERMAX N-PAK AMS	6.5 EC 4.5 SL 100 SL		1.02 lb ai/a 0.77 lb ae/a 5 % v/v		20 fl oz/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	55 c	48 ef
5	MANA 25337 ROUNDUP POWERMAX N-PAK AMS	100 WG 4.5 SL 100 SL		3.2 oz/a 0.77 lb ae/a 5 % v/v		3.2 oz/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	93 ab	70 bcd
6	MANA 25337 ROUNDUP POWERMAX N-PAK AMS	100 WG 4.5 SL 100 SL		4.25 oz/a 0.77 lb ae/a 5 % v/v		4.25 oz/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	94 ab	86 ab
7	PUMMEL ROUNDUP POWERMAX N-PAK AMS	100 SL 4.5 SL 100 SL		1.5 pt/a 0.77 lb ae/a 5 % v/v		1.5 pt/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	85 ab	72 bcd
8	PUMMEL ROUNDUP POWERMAX N-PAK AMS	100 SL 4.5 SL 100 SL		2 pt/a 0.77 lb ae/a 5 % v/v		2 pt/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	92 ab	82 abc
9	TORMENT ROUNDUP POWERMAX N-PAK AMS	2.5 SL 4.5 SL 100 SL		0.234 lb ae/a 0.77 lb ae/a 5 % v/v		0.75 pt/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	88 ab	63 cde
10	TORMENT ROUNDUP POWERMAX N-PAK AMS	2.5 SL 4.5 SL 100 SL		0.312 lb ae/a 0.77 lb ae/a 5 % v/v		1 pt/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	96 ab	94 a
11	TORMENT SHARPEN ROUNDUP POWERMAX N-PAK AMS	2.5 SL 2.85 SC 4.5 SL 100 SL		0.234 lb ae/a 0.0223 lb ai/a 0.77 lb ae/a 5 % v/v		0.75 pt/a 1 fl oz/a 22 fl oz/a 5 % v/v		PRE PRE V5 V5	A A B B	99 a	99 a
12	OPTILL ROUNDUP POWERMAX N-PAK AMS	68 WG 4.5 SL 100 SL		0.085 lb ai/a 0.77 lb ae/a 5 % v/v		2 oz/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	97 a	96 a
13	WARRANT GLORY ROUNDUP POWERMAX N-PAK AMS	3 CS 75 WG 4.5 SL 100 SL		1.13 lb ai/a 0.188 lb ai/a 0.77 lb ae/a 5 % v/v		3 pt/a 4 oz/a 22 fl oz/a 5 % v/v		PRE PRE V5 V5	A A B B	50 c	58 de
14	OUTFLANK ROUNDUP POWERMAX N-PAK AMS	51 WG 4.5 SL 100 SL		0.064 lb ai/a 0.77 lb ae/a 5 % v/v		2 oz/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	93 ab	60 de

MANA Preemergence Concepts in Soybeans.

Trial ID: 13-2A-W150 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval							IPOHE 6-29-13 Control Percent 14 DA-A	IPOHE 7-15-13 Control Percent -2 DA-B 30 DA-A	IPOHE 8-14-13 Control Percent 28 DA-B 60 DA-A	IPOHE 10-9-13 Control Percent At Harvest
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code		
15	PURSUIT ROUNDUP POWERMAX N-PAK AMS	2 SL 4.5 SL 100 SL		0.0625 lb ai/a 0.77 lb ae/a 5 % v/v	4 fl oz/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	90 ab	82 abc
16	VALOR XLT ROUNDUP POWERMAX N-PAK AMS	40.3 WG 4.5 SL 100 SL		0.0756 lb ai/a 0.77 lb ae/a 5 % v/v	3 oz/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	99 a	99 a
17	AUTHORITY ASSIST ROUNDUP POWERMAX N-PAK AMS	4 SC 4.5 SL 100 SL		0.25 lb ai/a 0.77 lb ae/a 5 % v/v	8 fl oz/a 22 fl oz/a 5 % v/v		PRE V5 V5	A B B	99 a	99 a
18	PARAZONE GLORY NIS (ACTIVATOR 90) ROUNDUP POWERMAX N-PAK AMS	3 SL 75 WG 100 SL 4.5 SL 100 SL		1.13 lb ai/a 0.188 lb ai/a 0.25 % v/v 0.77 lb ae/a 5 % v/v	48 fl oz/a 4 oz/a 0.25 % v/v 22 fl oz/a 5 % v/v		PRE PRE PRE V5 V5	A A A B B	15 d	30 f
19	NO PRE HERBICIDE ROUNDUP POWERMAX N-PAK AMS	4.5 SL 100 SL		0.77 lb ae/a 5 % v/v	22 fl oz/a 5 % v/v		V5 V5	B B		94 ab
20	NONTREATED								0 d	0 g
LSD (P=.05)							24.7	21.4	3.9	4.7
Standard Deviation							17.3	15.0	2.8	3.3
CV							22.07	21.69	3.03	3.69
Replicate F							3.327	9.459	6.379	5.238
Replicate Prob(F)							0.0272	0.0001	0.0009	0.0031
Treatment F							10.979	12.130	243.124	165.256
Treatment Prob(F)							0.0001	0.0001	0.0001	0.0001

MANA Preemergence Concepts in Soybeans.

Trial ID: 13-2A-W150 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Trial Comments

1. Protocol: MANA.
2. Ratings: CI/WC at 7, 14, 30, 45, and 60 DA-A; CI 0 DA-B; WC at harvest.
3. Photos 30 DA-A, 0 DA-B, and at harvest.
Plot photos should include overall plot, closeup of individual weed species, and crop phyto (if observed).
4. Yield.
5. On 6-22-13 at 7 DA-A, not enough weed emergence to rate weed control.
On 6-29-13 at 14 DA-A missing crop injury data was due to reduced soybean emergence due to standing water in some plots.
Missing weed control data in some plots was due to standing water.
The planned 45 DA-A evaluation was missed due to a communications error.
6. Following the PRE application the first rainfall event, beginning 12 hours later, was 2.16 inch over 3 days.
7. Harvested 10-26-13, (2) 30 inch rows by 25 ft.