

BASF Burndown Programs in Soybean.

Trial ID: 13-FagerS-BASF-BD Location: Murphysboro, IL Trial Year: 2013
Investigator: Bryan Young

Trial Status: F one-year/final Initiation Date: 4-29-13 Completion Date: 7-1-13	
Trial Location	
City: Murphysboro Country: USA State/Prov.: Illinois IL Postal Code: 62966	

Objectives:
Compare BASF burndown programs in soybean to commercial standards.

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 BBCH Scale: BSOY Description: RR2Y	
Planting Rate, Unit: 170000 S/A Depth, Unit: 1.5 IN Row Spacing, Unit: 30 IN	Planting Date: 5-12-13 Planting Method: SEEDED

Pest Description	
Pest 1 Type: W Code: ERICA <i>Conyza canadensis</i> (L.) Crong. Common Name: horseweed Description: glyphosate-resistant marestail	
Pest 2 Type: W Code: AMATA <i>Amaranthus rudis</i> Sauer Common Name: waterhemp, common Description: glyphosate-resistant waterhemp	

Site and Design							
Treated Plot Width: 6.67 FT Total Plot Width: 10 FT Treated Plot Length: 30 FT Total Plot Length: 30 FT	Site Type: FIELD Experimental Unit: 1 PLOT Tillage Type: NOTILL no-till Study Design: RACOB L Randomized Complete Block (RCB)						
Replications: 3 Untreated Arrangement: NONE control is other than an untreated							
<table border="1" style="width: 100%;"> <thead> <tr> <th>No.</th> <th>Previous Crop</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>NON-CROP</td> <td>2012</td> </tr> </tbody> </table>		No.	Previous Crop	Year	1.	NON-CROP	2012
No.	Previous Crop	Year					
1.	NON-CROP	2012					

Maintenance					
<table border="1" style="width: 100%;"> <thead> <tr> <th>No.</th> <th>Maintenance Product Name</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>N 0 LB/A, P2O5 0 LB/A, K2O 0 LB/A</td> </tr> </tbody> </table>	No.	Maintenance Product Name	1.	N 0 LB/A, P2O5 0 LB/A, K2O 0 LB/A	
No.	Maintenance Product Name				
1.	N 0 LB/A, P2O5 0 LB/A, K2O 0 LB/A				

Soil Description										
% OM: 1.87 Texture: SIL silt loam pH: 5.5 Soil Name: Alvin CEC: 7.06										
Additional Measured Elements										
<table border="1" style="width: 100%;"> <thead> <tr> <th>Element</th> <th>Quantity</th> <th>Unit</th> </tr> </thead> <tbody> <tr> <td>P1</td> <td>172</td> <td>lb/A</td> </tr> <tr> <td>K</td> <td>446</td> <td>lb/A</td> </tr> </tbody> </table>	Element	Quantity	Unit	P1	172	lb/A	K	446	lb/A	
Element	Quantity	Unit								
P1	172	lb/A								
K	446	lb/A								

Moisture and Weather Conditions	
Overall Moisture Conditions: NORMAL Closest Weather Station: SOUTHERN IL AIRPORT (93810)	Distance, Unit: 3.5 MI

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No.	Date	Amount	Unit	Type	Type Description	Interval	Unit	Min Temp	Max Temp	Temp Unit
1.	4-1-13					7	DAY	26	75	F
2.	4-8-13					7	DAY	32	81	F
3.	4-10-13	0.85	IN	RAIN	rain	2	DAY			
4.	4-15-13					7	DAY	32	83	F
5.	4-18-13	2.16	IN	RAIN	rain	1	DAY			
6.	4-22-13					7	DAY	32	72	F
7.	4-24-13	0.55	IN	RAIN	rain	2	DAY			
8.	4-27-13	0.37	IN	RAIN	rain	2	DAY			
9.	4-29-13					7	DAY	41	81	F
10.	5-3-13	1.33	IN	RAIN	rain	3	DAY			
11.	5-5-13	0.75	IN	RAIN	rain	2	DAY			
12.	5-6-13					7	DAY	41	80	F
13.	5-10-13	0.17	IN	RAIN	rain	3	DAY			
14.	5-13-13					7	DAY	37	87	F
15.	5-16-13	0.23	IN	RAIN	rain	2	DAY			
16.	5-20-13					7	DAY	43	85	F
17.	5-21-13	0.91	IN	RAIN	rain	1	DAY			
18.	5-27-13					7	DAY	59	86	F
19.	5-31-13	0.7	IN	RAIN	rain	3	DAY			
20.	6-1-13	1.67	IN	RAIN	rain	2	DAY			
21.	6-3-13					7	DAY	50	82	F
22.	6-10-13	0.13	IN	RAIN	rain	5	DAY			
23.	6-10-13					7	DAY	57	93	F
24.	6-17-13	0.36	IN	RAIN	rain	2	DAY			
25.	6-17-13					7	DAY	61	92	F
26.	6-22-13	0.34	IN	RAIN	rain	2	DAY			
27.	6-24-13					7	DAY	64	93	F
28.	6-26-13	1.25	IN	RAIN	rain	2	DAY			
29.	6-30-13	0.3	IN	RAIN	rain	2	DAY			

Application Description

	A	B
Application Date:	4-29-13	6-10-13
Appl. Start Time:	10:15	18:15
Appl. Stop Time:	10:40	18:30
Application Method:	Spray	Spray
Application Timing:	4-6"MT	6-8WA-A
Application Placement:	BROFOL	BROFOL
Applied By:	NTH	LXF
Air Temperature, Unit:	56 F	79 F
% Relative Humidity:	75	56
Wind Velocity, Unit:	5 MPH	2 MPH
Wind Direction:	S	N
Dew Presence (Y/N):	N	N
Soil Temperature, Unit:	52 F	80 F
Soil Moisture:	ABONOR	NORMAL
% Cloud Cover:	0	30
Next Moisture Occurred On:	5-2-13	6-17-13
Time to Next Moisture, Unit:	84 HR	7 DAY

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Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA	GLXMA
Stage Scale Used:	DESC	DESC
Stage Majority, Percent:	NA	V3
Stage Minimum, Percent:		V2
Stage Maximum, Percent:		V3
Height, Unit:		5 IN
Height Minimum, Maximum:		4 5

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	ERICA W	ERICA W
Stage Majority, Percent:	8	30
Stage Minimum, Percent:	4	20
Stage Maximum, Percent:	15	50+
Height, Unit:	7 IN	6 IN
Height Minimum, Maximum:	1.5 5	4 10
Density, Unit:	8 FT2	1 FT2
Pest 2 Code, Type, Scale:	AMATA W	AMATA W
Stage Majority, Percent:	NA	12
Stage Minimum, Percent:		COTY
Stage Maximum, Percent:		18
Height, Unit:		6 IN
Height Minimum, Maximum:		0.5 10
Density, Unit:		10 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:	6.67 FT	6.67 FT
Spray Volume, Unit:	15 GPA	15 GPA

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Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval							GLXMA 5-23-13 Injury Percent 5 DAE 24 DA-A	GLXMA 7-1-13 Injury Percent 21 DA-B	ERICA-HR 5-20-13 Control Percent 21 DA-A	ERICA-HR 6-10-13 Control Percent 42 DA-A 0 DA-B	ERICA-HR 7-1-13 Control Percent 21 DA-B
Trt Treatment No. Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
1 2,4-D LV 4 ROUNDUP POWERMAX AMS ROUNDUP POWERMAX AMS	3.8 EC 4.5 SL 100 SG 4.5 SL 100 SG		0.475 lb ae/a 0.77 lb ae/a 1.02 % w/w 0.77 lb ae/a 1.02 % w/w		16 fl oz/a 22 fl oz/a 8.5 lb/100 gal 22 fl oz/a 8.5 lb/100 gal		4-6"MT 4-6"MT 4-6"MT 6-8WA-A B 6-8WA-A B	A A A B B	0 a	0 a	95 bc 92 abc 85 ab
2 ZIDUA VERDICT ROUNDUP POWERMAX MSO (MSO ULTRA) AMS ROUNDUP POWERMAX AMS	85 WG 5.57 EC 4.5 SL 100 SL 100 SG 4.5 SL 100 SG		0.106 lb ai/a 0.218 lb ai/a 0.77 lb ae/a 1 % v/v 1.02 % w/w 0.77 lb ae/a 1.02 % w/w		2 oz/a 5 fl oz/a 22 fl oz/a 1 % v/v 8.5 lb/100 gal 22 fl oz/a 8.5 lb/100 gal		4-6"MT 4-6"MT 4-6"MT 4-6"MT 4-6"MT 6-8WA-A B 6-8WA-A B	A A A A A B B	0 a	0 a	97 ab 94 ab 91 a
3 OPTILL PRO (CO-PACK) OPTILL OUTLOOK ROUNDUP POWERMAX MSO (MSO ULTRA) AMS ROUNDUP POWERMAX AMS	68 WG 6 EC 4.5 SL 100 SL 100 SG 4.5 SL 100 SG		0.085 lb ai/a 0.47 lb ai/a 0.77 lb ae/a 1 % v/v 1.02 % w/w 0.77 lb ae/a 1.02 % w/w		2 oz/a 10 fl oz/a 22 fl oz/a 1 % v/v 8.5 lb/100 gal 22 fl oz/a 8.5 lb/100 gal		4-6"MT 4-6"MT 4-6"MT 4-6"MT 4-6"MT 6-8WA-A B 6-8WA-A B	A A A A A B B	0 a	0 a	96 ab 90 bc 84 abc
4 VERDICT PROWL H2O ROUNDUP POWERMAX MSO (MSO ULTRA) AMS ROUNDUP POWERMAX AMS	5.57 EC 3.8 CS 4.5 SL 100 SL 100 SG 4.5 SL 100 SG		0.218 lb ai/a 1.19 lb ai/a 0.77 lb ae/a 1 % v/v 1.02 % w/w 0.77 lb ae/a 1.02 % w/w		5 fl oz/a 2.5 pt/a 22 fl oz/a 1 % v/v 8.5 lb/100 gal 22 fl oz/a 8.5 lb/100 gal		4-6"MT 4-6"MT 4-6"MT 4-6"MT 4-6"MT 6-8WA-A B 6-8WA-A B	A A A A A B B	0 a	0 a	97 ab 94 ab 91 a
5 VERDICT OUTLOOK ROUNDUP POWERMAX MSO (MSO ULTRA) AMS ROUNDUP POWERMAX AMS	5.57 EC 6 EC 4.5 SL 100 SL 100 SG 4.5 SL 100 SG		0.218 lb ai/a 0.47 lb ai/a 0.77 lb ae/a 1 % v/v 1.02 % w/w 0.77 lb ae/a 1.02 % w/w		5 fl oz/a 10 fl oz/a 22 fl oz/a 1 % v/v 8.5 lb/100 gal 22 fl oz/a 8.5 lb/100 gal		4-6"MT 4-6"MT 4-6"MT 4-6"MT 4-6"MT 6-8WA-A B 6-8WA-A B	A A A A A B B	0 a	0 a	98 a 96 a 91 a
6 2,4-D LV 4 VALOR XLT ROUNDUP POWERMAX AMS ROUNDUP POWERMAX AMS	3.8 EC 40.3 WG 4.5 SL 100 SG 4.5 SL 100 SG		0.475 lb ae/a 0.0756 lb ai/a 0.77 lb ae/a 1.02 % w/w 0.77 lb ae/a 1.02 % w/w		16 fl oz/a 3 oz/a 22 fl oz/a 8.5 lb/100 gal 22 fl oz/a 8.5 lb/100 gal		4-6"MT 4-6"MT 4-6"MT 4-6"MT 6-8WA-A B 6-8WA-A B	A A A A B B	0 a	0 a	91 d 90 bc 88 a
7 2,4-D LV 4 PREFIX ROUNDUP POWERMAX AMS ROUNDUP POWERMAX AMS	3.8 EC 5.29 EC 4.5 SL 100 SG 4.5 SL 100 SG		0.475 lb ae/a 1.32 lb ai/a 0.77 lb ae/a 1.02 % w/w 0.77 lb ae/a 1.02 % w/w		16 fl oz/a 2 pt/a 22 fl oz/a 8.5 lb/100 gal 22 fl oz/a 8.5 lb/100 gal		4-6"MT 4-6"MT 4-6"MT 4-6"MT 6-8WA-A B 6-8WA-A B	A A A A B B	0 a	0 a	94 cd 89 c 74 bc
8 2,4-D LV 4 FIERCE ROUNDUP POWERMAX AMS ROUNDUP POWERMAX AMS	3.8 EC 76 WG 4.5 SL 100 SG 4.5 SL 100 SG		0.475 lb ae/a 0.143 lb ai/a 0.77 lb ae/a 1.02 % w/w 0.77 lb ae/a 1.02 % w/w		16 fl oz/a 3 oz/a 22 fl oz/a 8.5 lb/100 gal 22 fl oz/a 8.5 lb/100 gal		4-6"MT 4-6"MT 4-6"MT 4-6"MT 6-8WA-A B 6-8WA-A B	A A A A B B	0 a	0 a	92 d 82 d 72 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.

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Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
9	2.4-D LV 4	3.8	EC	0.475	lb ae/a	16	fl oz/a	4-6"MT	A	0 a	0 a	95 bc
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"MT	A			94 ab
	AMS	100	SG	1.02	% w/w	8.5	lb/100 gal	4-6"MT	A			
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6-8WA-A	B			
	FLEXSTAR	1.88	EC	0.235	lb ai/a	16	fl oz/a	6-8WA-A	B			
	AMS	100	SG	1.02	% w/w	8.5	lb/100 gal	6-8WA-A	B			
LSD (P=.05)								0.0	0.0	2.7	5.0	11.8
Standard Deviation								0.0	0.0	1.5	2.9	6.8
CV								0.0	0.0	1.62	3.15	8.07
Replicate F								0.000	0.000	5.922	9.919	3.144
Replicate Prob(F)								1.0000	1.0000	0.0119	0.0016	0.0705
Treatment F								0.000	0.000	6.848	6.559	3.126
Treatment Prob(F)								1.0000	1.0000	0.0006	0.0007	0.0250

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Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								AMATA-HR 5-20-13 Control Percent 21 DA-A	AMATA-HR 6-10-13 Control Percent 42 DA-A 0 DA-B	AMATA-HR 7-1-13 Control Percent 21 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Other Rate	Other Rate	Growth Unit Stage	Appl Code	
1	2,4-D LV 4 ROUNDUP POWERMAX AMS ROUNDUP POWERMAX AMS	3.8 EC 4.5 SL 100 SG 4.5 SL 100 SG		0.475 lb ae/a 0.77 lb ae/a 1.02 % w/w 0.77 lb ae/a 1.02 % w/w		16 fl oz/a 22 fl oz/a 8.5 lb/100 gal 22 fl oz/a 8.5 lb/100 gal		4-6"MT 4-6"MT 4-6"MT 6-8WA-A B 6-8WA-A B	A A A B B	0 d 0 d 27 cd
2	ZIDUA VERDICT ROUNDUP POWERMAX MSO (MSO ULTRA) AMS ROUNDUP POWERMAX AMS	85 WG 5.57 EC 4.5 SL 100 SL 100 SG 4.5 SL 100 SG		0.106 lb ai/a 0.218 lb ai/a 0.77 lb ae/a 1 % v/v 1.02 % w/w 0.77 lb ae/a 1.02 % w/w		2 oz/a 5 fl oz/a 22 fl oz/a 1 % v/v 8.5 lb/100 gal 22 fl oz/a 8.5 lb/100 gal		4-6"MT 4-6"MT 4-6"MT 4-6"MT 4-6"MT 6-8WA-A B 6-8WA-A B	A A A A A B B	72 a 35 ab 37 c
3	OPTILL PRO (CO-PACK) OPTILL OUTLOOK ROUNDUP POWERMAX MSO (MSO ULTRA) AMS ROUNDUP POWERMAX AMS	68 WG 6 EC 4.5 SL 100 SL 100 SG 4.5 SL 100 SG		0.085 lb ai/a 0.47 lb ai/a 0.77 lb ae/a 1 % v/v 1.02 % w/w 0.77 lb ae/a 1.02 % w/w		2 oz/a 10 fl oz/a 22 fl oz/a 1 % v/v 8.5 lb/100 gal 22 fl oz/a 8.5 lb/100 gal		4-6"MT 4-6"MT 4-6"MT 4-6"MT 4-6"MT 6-8WA-A B 6-8WA-A B	A A A A A B B	45 b 18 c 35 c
4	VERDICT PROWL H2O ROUNDUP POWERMAX MSO (MSO ULTRA) AMS ROUNDUP POWERMAX AMS	5.57 EC 3.8 CS 4.5 SL 100 SL 100 SG 4.5 SL 100 SG		0.218 lb ai/a 1.19 lb ai/a 0.77 lb ae/a 1 % v/v 1.02 % w/w 0.77 lb ae/a 1.02 % w/w		5 fl oz/a 2.5 pt/a 22 fl oz/a 1 % v/v 8.5 lb/100 gal 22 fl oz/a 8.5 lb/100 gal		4-6"MT 4-6"MT 4-6"MT 4-6"MT 4-6"MT 6-8WA-A B 6-8WA-A B	A A A A A B B	25 c 17 c 33 cd
5	VERDICT OUTLOOK ROUNDUP POWERMAX MSO (MSO ULTRA) AMS ROUNDUP POWERMAX AMS	5.57 EC 6 EC 4.5 SL 100 SL 100 SG 4.5 SL 100 SG		0.218 lb ai/a 0.47 lb ai/a 0.77 lb ae/a 1 % v/v 1.02 % w/w 0.77 lb ae/a 1.02 % w/w		5 fl oz/a 10 fl oz/a 22 fl oz/a 1 % v/v 8.5 lb/100 gal 22 fl oz/a 8.5 lb/100 gal		4-6"MT 4-6"MT 4-6"MT 4-6"MT 4-6"MT 6-8WA-A B 6-8WA-A B	A A A A A B B	10 cd 0 d 18 d
6	2,4-D LV 4 VALOR XLT ROUNDUP POWERMAX AMS ROUNDUP POWERMAX AMS	3.8 EC 40.3 WG 4.5 SL 100 SG 4.5 SL 100 SG		0.475 lb ae/a 0.0756 lb ai/a 0.77 lb ae/a 1.02 % w/w 0.77 lb ae/a 1.02 % w/w		16 fl oz/a 3 oz/a 22 fl oz/a 8.5 lb/100 gal 22 fl oz/a 8.5 lb/100 gal		4-6"MT 4-6"MT 4-6"MT 4-6"MT 6-8WA-A B 6-8WA-A B	A A A A B B	73 a 40 a 38 bc
7	2,4-D LV 4 PREFIX ROUNDUP POWERMAX AMS ROUNDUP POWERMAX AMS	3.8 EC 5.29 EC 4.5 SL 100 SG 4.5 SL 100 SG		0.475 lb ae/a 1.32 lb ai/a 0.77 lb ae/a 1.02 % w/w 0.77 lb ae/a 1.02 % w/w		16 fl oz/a 2 pt/a 22 fl oz/a 8.5 lb/100 gal 22 fl oz/a 8.5 lb/100 gal		4-6"MT 4-6"MT 4-6"MT 4-6"MT 6-8WA-A B 6-8WA-A B	A A A A B B	67 a 23 bc 40 bc
8	2,4-D LV 4 FIERCE ROUNDUP POWERMAX AMS ROUNDUP POWERMAX AMS	3.8 EC 76 WG 4.5 SL 100 SG 4.5 SL 100 SG		0.475 lb ae/a 0.143 lb ai/a 0.77 lb ae/a 1.02 % w/w 0.77 lb ae/a 1.02 % w/w		16 fl oz/a 3 oz/a 22 fl oz/a 8.5 lb/100 gal 22 fl oz/a 8.5 lb/100 gal		4-6"MT 4-6"MT 4-6"MT 4-6"MT 6-8WA-A B 6-8WA-A B	A A A A B B	72 a 37 ab 67 a

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Pest Code								AMATA-HR	AMATA-HR	AMATA-HR
Crop Code								5-20-13	6-10-13	7-1-13
Rating Date								Control	Control	Control
Rating Type								Percent	Percent	Percent
Rating Unit								21 DA-A	42 DA-A	21 DA-B
Rating Timing									0 DA-B	
Trt-Eval Interval										
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	
9	2.4-D LV 4	3.8	EC	0.475	lb ae/a	16	fl oz/a	4-6"MT	A	0 d
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"MT	A	0 d
	AMS	100	SG	1.02	% w/w	8.5	lb/100 gal	4-6"MT	A	54 ab
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6-8WA-A	B	
	FLEXSTAR	1.88	EC	0.235	lb ai/a	16	fl oz/a	6-8WA-A	B	
	AMS	100	SG	1.02	% w/w	8.5	lb/100 gal	6-8WA-A	B	
LSD (P=.05)								18.0	15.0	16.6
Standard Deviation								10.4	8.7	9.6
CV								25.81	45.85	24.73
Replicate F								3.591	1.444	2.105
Replicate Prob(F)								0.0515	0.2650	0.1543
Treatment F								28.243	10.583	6.651
Treatment Prob(F)								0.0001	0.0001	0.0007

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Trial Comments

1. Protocol: BASF (AJ-2).
2. Ratings: CI 5-7 DAE; WC 21-28 DA-A and 0, and 21-28 DA-B
3. Plant soybean 7 DA-A.
4. Yield not requested.
5. The planned 7 DA-A planting was delayed until 13 DA-A due to wet soil conditions.
6. ERICA-HR = Herbicide-resistant marestail (glyphosate).
AMATA-HR = Herbicide-resistant waterhemp (glyphosate).
DAE = Days after soybean emergence.
7. Following the 4-6"MT application the first rainfall event, beginning 3 days later, was 2.08 inch over 4 days.
8. Not harvested.