

Nozzle by Adjuvant Interaction - Glyphosate plus Clethodim.

Trial ID: 10-51W

Location: Belleville Res. Center

Investigator: Bryan Young, Professor, Southern Illinois University, bgyoung@siu.edu
 City State Zip Country: Belleville IL 62221 USA
 Trial Status: FINAL Initiation Date: 06-25-10

Objectives: Determine the influence and interaction of nozzle type and adjuvant on the efficacy of Roundup PowerMax plus Select Max for control of volunteer Roundup Ready corn in soybean.

Crop 1: GLXMA Soybean Variety: AG 4404 Description: RR/STS
 Planting Method: SEEDED Planting Date: 06-25-10
 Rate, Unit: 75 LB/A Depth, Unit: 1.0 IN
 Row Spacing, Unit: 30 IN

Pest 1 Type: W Code: ZEAMX Zea mays L. corn, volunteer
 Pest 2 Type: W Code: AMATA Amaranthus rudis Sauer waterhemp, common
 Pest 3 Type: W Code: ABUTH Abutilon theophrasti Medicus velvetleaf
 Pest 4 Type: W Code: AMBTR Ambrosia trifida L. ragweed, giant
 Pest 5 Type: W Code: IPOSS morningglory, species

Plot Width, Unit: 10 FT Site Type: FIELD
 Plot Length, Unit: 45 FT Tillage Type: REDUCED-TILL
 Replications: 3 Study Design: Randomized Complete Block

Prior Crops, Year
 1. ZEAMD 2009

Field Prep./Maintenance: N 0 LB/A, P2O5 50 LB/A, K2O 150 LB/A

% OM: 1.8 Texture: SILT LOAM
 pH: 6.5 Soil Name: PIERRON
 CEC: 10 Fert. Level: P1: 56 LB/A, K: 294 LB/A

Application Description

A
 Application Date: 07-16-10
 Time of Day: 9:00
 Application Method: Spray
 Application Timing: 12"CN
 Application Placement: BROFOL
 Applied By: JRK
 Air Temperature, Unit: 78 F
 % Relative Humidity: 92
 Wind Velocity, Unit: 3 MPH
 Wind Direction: N
 Dew Presence (Y/N): Y
 Soil Moisture: ABONOR
 % Cloud Cover: 40

07-16-10
 Crop stage at application: V2-V3
 Height Min, Max (inch): 6 8

Pest Stage At Each Application

Application Date: 07-16-10
 Weed Code: ZEAMX
 Stage Majority (leaves): 5
 Stage Min, Max: 4 5
 Height Majority: 12 IN
 Height Min, Max: 11 14
 Density, Unit: 3 FT2
 Weed Code: AMATA
 Stage Majority (leaves): 7
 Stage Min, Max: 4 14
 Height Majority: 6 IN
 Height Min, Max: 1 10
 Density, Unit: 5 FT2
 Weed Code: ABUTH
 Stage Majority (leaves): 4
 Stage Min, Max: 2 6
 Height Majority: 4 IN
 Height Min, Max: 1 7
 Density, Unit: 1 FT2
 Weed Code: AMBTR
 Stage Majority (leaves): 2
 Stage Min, Max: 2 4
 Height Majority: 3 IN
 Height Min, Max: 2 5
 Density, Unit: 0.1 FT2
 Weed Code: IPOSS
 Stage Majority (leaves): 4
 Stage Min, Max: 2 8
 Height Majority: 3 IN
 Height Min, Max: 1 6
 Density, Unit: 0.5 FT2

Nozzle by Adjuvant Interaction - Glyphosate plus Clethodim.

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Application Equipment

Appl. Equipment:	CO2 sprayer
Nozzle Type:	See
Nozzle Size:	comment
Boom Length, Unit:	6.67 FT
Spray Volume, Unit:	10 GPA

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Pest Code										ZEAMX		ZEAMX	AMATA	AMATA	
Crop Code										GLXMA	GLXMA	07-30-10	08-13-10	07-30-10	08-13-10
Rating Date										07-30-10	08-13-10	07-30-10	08-13-10	07-30-10	08-13-10
Rating Data Type										Injury	Injury	Control	Control	Control	Control
Rating Unit										Percent	Percent	Percent	Percent	Percent	Percent
Rating Timing															
Trt-Eval Interval										14 DA-A	28 DA-A	14 DA-A	28 DA-A	14 DA-A	28 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1	XR 11004 at 40 PSI									0 a	0 a	93 a	96 ab	97 a	97 a
1	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A						
1	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A						
1	PL 334	100	SL	2.5	% v/v	2.5	% v/v	12"CN	A						
2	TT 11004 at 40 PSI									0 a	0 a	85 abc	90 a-d	97 a	97 a
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A						
2	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A						
2	PL 334	100	SL	2.5	% v/v	2.5	% v/v	12"CN	A						
3	AIXR 11003 at 70 PSI									0 a	0 a	91 a	96 a	97 a	97 a
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A						
3	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A						
3	PL 334	100	SL	2.5	% v/v	2.5	% v/v	12"CN	A						
4	GA 110-03 at 70 PSI									0 a	0 a	90 a	90 a-d	97 a	96 a
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A						
4	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A						
4	PL 334	100	SL	2.5	% v/v	2.5	% v/v	12"CN	A						
5	XR 11004 at 40 PSI									0 a	0 a	90 a	84 b-e	97 a	96 a
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A						
5	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A						
5	PL 711	100	SL	0.375	% v/v	0.375	% v/v	12"CN	A						
6	TT 11004 at 40 PSI									0 a	0 a	86 ab	85 a-e	98 a	96 a
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A						
6	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A						
6	PL 711	100	SL	0.375	% v/v	0.375	% v/v	12"CN	A						
7	AIXR 11003 at 70 PSI									0 a	0 a	87 ab	87 a-e	95 abc	96 a
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A						
7	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A						
7	PL 711	100	SL	0.375	% v/v	0.375	% v/v	12"CN	A						
8	GA 110-03 at 70 PSI									0 a	0 a	91 a	91 a-d	97 a	97 a
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A						
8	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A						
8	PL 711	100	SL	0.375	% v/v	0.375	% v/v	12"CN	A						
9	XR 11004 at 40 PSI									0 a	0 a	79 bc	77 ef	96 a	95 ab
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A						
9	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A						
9	PX 6259	100	SL	1.25	% v/v	1.25	% v/v	12"CN	A						
10	TT 11004 at 40 PSI									0 a	0 a	86 ab	84 cde	97 a	95 ab
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A						
10	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A						
10	PX 6259	100	SL	1.25	% v/v	1.25	% v/v	12"CN	A						
11	AIXR 11003 at 70 PSI									0 a	0 a	91 a	87 a-e	97 a	96 a
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A						
11	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A						
11	PX 6259	100	SL	1.25	% v/v	1.25	% v/v	12"CN	A						
12	GA 110-03 at 70 PSI									0 a	0 a	90 a	91 a-d	98 a	96 a
12	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A						
12	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A						
12	PX 6259	100	SL	1.25	% v/v	1.25	% v/v	12"CN	A						
13	XR 11004 at 40 PSI									0 a	0 a	88 ab	89 a-e	97 a	97 a
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A						
13	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A						
13	PL 714	100	SL	1	% v/v	1	% v/v	12"CN	A						
14	TT 11004 at 40 PSI									0 a	0 a	90 a	91 a-d	98 a	97 a
14	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A						
14	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A						
14	PL 714	100	SL	1	% v/v	1	% v/v	12"CN	A						

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Pest Code Crop Code Rating Date Rating Data Type Rating Unit Rating Timing Trt-Eval Interval							ZEAMX		ZEAMX	AMATA	AMATA
	GLXMA		GLXMA		07-30-10		08-13-10	07-30-10	08-13-10	07-30-10	08-13-10
	Injury		Injury		Control		Control	Control	Control	Control	Control
	Percent		Percent		Percent		Percent	Percent	Percent	Percent	Percent
	14 DA-A		28 DA-A		14 DA-A		28 DA-A	14 DA-A	28 DA-A	14 DA-A	28 DA-A
Trt Treatment No. Name	Form Conc	Form Type	Rate Rate	Other Unit	Other Rate	Other Rate	Unit	Growth Stage	Appl Code		
15 AIXR 11003 at 70 PSI										0 a	0 a
15 ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A		93 a	88 a-e
15 SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A		97 a	96 a
15 PL 714	100	SL	1	% v/v	1	% v/v	12"CN	A			
16 GA 110-03 at 70 PSI										0 a	0 a
16 ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A		88 ab	94 abc
16 SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A		97 a	97 a
16 PL 714	100	SL	1	% v/v	1	% v/v	12"CN	A			
17 XR 11004 at 40 PSI										0 a	0 a
17 ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A		86 ab	81 de
17 SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A		98 a	97 a
17 PL 325	100	SL	1.25	% v/v	1.25	% v/v	12"CN	A			
18 TT 11004 at 40 PSI										0 a	0 a
18 ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A		88 ab	85 a-e
18 SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A		97 a	97 a
18 PL 325	100	SL	1.25	% v/v	1.25	% v/v	12"CN	A			
19 AIXR 11003 at 70 PSI										0 a	0 a
19 ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A		93 a	90 a-d
19 SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A		98 a	97 a
19 PL 325	100	SL	1.25	% v/v	1.25	% v/v	12"CN	A			
20 GA 110-03 at 70 PSI										0 a	0 a
20 ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A		93 a	94 abc
20 SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A		96 a	91 b
20 PL 325	100	SL	1.25	% v/v	1.25	% v/v	12"CN	A			
21 XR 11004 at 40 PSI										0 a	0 a
21 ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A		10 e	7 h
21 SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A		96 a	97 a
21 PL 713	100	SL	0.5	% v/v	0.5	% v/v	12"CN	A			
22 TT 11004 at 40 PSI										0 a	0 a
22 ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A		3 e	3 h
22 SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A		95 ab	97 a
22 PL 713	100	SL	0.5	% v/v	0.5	% v/v	12"CN	A			
23 AIXR 11003 at 70 PSI										0 a	0 a
23 ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A		35 d	33 g
23 SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A		93 bc	96 a
23 PL 713	100	SL	0.5	% v/v	0.5	% v/v	12"CN	A			
24 GA 110-03 at 70 PSI										0 a	0 a
24 ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A		77 c	66 f
24 SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A		92 c	95 a
24 PL 713	100	SL	0.5	% v/v	0.5	% v/v	12"CN	A			
LSD (P=.05)										0.0	0.0
Replicate F										0.630	1.062
Replicate Prob(F)										0.5372	0.3542
Treatment F										61.762	41.161
Treatment Prob(F)										0.0001	0.0001

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

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										ABUTH	ABUTH	AMBTR	AMBTR	IPOSS	IPOSS
Pest Code										07-30-10	08-13-10	07-30-10	08-13-10	07-30-10	08-13-10
Crop Code										Control	Control	Control	Control	Control	Control
Rating Date										Percent	Percent	Percent	Percent	Percent	Percent
Rating Data Type															
Rating Unit															
Rating Timing															
Trt-Eval Interval										14 DA-A	28 DA-A	14 DA-A	28 DA-A	14 DA-A	28 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1	XR 11004 at 40 PSI									96 a	97 ab	98 ab	97 ab	90 ab	90 a-f
1	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A						
1	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A						
1	PL 334	100	SL	2.5	% v/v	2.5	% v/v	12"CN	A						
2	TT 11004 at 40 PSI									94 a-d	94 b-e	97 abc	96 abc	87 a-e	88 c-g
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A						
2	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A						
2	PL 334	100	SL	2.5	% v/v	2.5	% v/v	12"CN	A						
3	AIXR 11003 at 70 PSI									95 abc	96 a-d	97 abc	94 cd	90 ab	91 a-e
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A						
3	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A						
3	PL 334	100	SL	2.5	% v/v	2.5	% v/v	12"CN	A						
4	GA 110-03 at 70 PSI									95 ab	96 a-d	97 abc	96 abc	87 a-e	90 a-f
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A						
4	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A						
4	PL 334	100	SL	2.5	% v/v	2.5	% v/v	12"CN	A						
5	XR 11004 at 40 PSI									92 a-d	95 a-e	97 abc	96 abc	89 abc	87 d-g
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A						
5	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A						
5	PL 711	100	SL	0.375	% v/v	0.375	% v/v	12"CN	A						
6	TT 11004 at 40 PSI									88 e	91 f	97 a-d	96 abc	87 a-e	84 g
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A						
6	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A						
6	PL 711	100	SL	0.375	% v/v	0.375	% v/v	12"CN	A						
7	AIXR 11003 at 70 PSI									88 e	91 f	97 a-d	96 abc	87 a-e	85 fg
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A						
7	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A						
7	PL 711	100	SL	0.375	% v/v	0.375	% v/v	12"CN	A						
8	GA 110-03 at 70 PSI									91 cde	93 ef	97 abc	97 ab	92 a	92 a-d
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A						
8	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A						
8	PL 711	100	SL	0.375	% v/v	0.375	% v/v	12"CN	A						
9	XR 11004 at 40 PSI									92 a-d	94 de	97 a-d	97 ab	87 a-e	86 efg
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A						
9	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A						
9	PX 6259	100	SL	1.25	% v/v	1.25	% v/v	12"CN	A						
10	TT 11004 at 40 PSI									95 ab	96 a-d	96 cd	93 d	91 ab	86 fg
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A						
10	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A						
10	PX 6259	100	SL	1.25	% v/v	1.25	% v/v	12"CN	A						
11	AIXR 11003 at 70 PSI									95 ab	97 a	98 ab	97 ab	87 a-e	89 a-g
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A						
11	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A						
11	PX 6259	100	SL	1.25	% v/v	1.25	% v/v	12"CN	A						
12	GA 110-03 at 70 PSI									96 ab	97 ab	98 ab	97 a	90 ab	94 ab
12	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A						
12	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A						
12	PX 6259	100	SL	1.25	% v/v	1.25	% v/v	12"CN	A						
13	XR 11004 at 40 PSI									94 a-d	95 a-e	97 a-d	96 abc	90 ab	90 a-f
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A						
13	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A						
13	PL 714	100	SL	1	% v/v	1	% v/v	12"CN	A						
14	TT 11004 at 40 PSI									94 abc	97 ab	98 ab	97 a	90 ab	94 a
14	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A						
14	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A						
14	PL 714	100	SL	1	% v/v	1	% v/v	12"CN	A						

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Crop Code								Control	Control	Control	Control	Control	Control
Rating Date								Percent	Percent	Percent	Percent	Percent	Percent
Rating Data Type													
Rating Unit													
Rating Timing													
Trt-Eval Interval								14 DA-A	28 DA-A	14 DA-A	28 DA-A	14 DA-A	28 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
15	AIXR 11003 at 70 PSI									93 a-d	94 cde	98 a	96 abc
15	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A			88 a-d	84 g
15	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A				
15	PL 714	100	SL	1	% v/v	1	% v/v	12"CN	A				
16	GA 110-03 at 70 PSI									95 ab	96 a-d	97 abc	97 ab
16	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A			91 ab	92 a-d
16	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A				
16	PL 714	100	SL	1	% v/v	1	% v/v	12"CN	A				
17	XR 11004 at 40 PSI									96 a	96 abc	98 ab	97 a
17	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A			90 ab	93 abc
17	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A				
17	PL 325	100	SL	1.25	% v/v	1.25	% v/v	12"CN	A				
18	TT 11004 at 40 PSI									92 a-d	94 b-e	98 ab	97 ab
18	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A			83 cde	85 fg
18	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A				
18	PL 325	100	SL	1.25	% v/v	1.25	% v/v	12"CN	A				
19	AIXR 11003 at 70 PSI									95 abc	96 a-d	97 a-d	97 ab
19	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A			92 a	94 a
19	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A				
19	PL 325	100	SL	1.25	% v/v	1.25	% v/v	12"CN	A				
20	GA 110-03 at 70 PSI									92 a-d	95 a-e	97 a-d	97 ab
20	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A			87 a-e	88 b-g
20	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A				
20	PL 325	100	SL	1.25	% v/v	1.25	% v/v	12"CN	A				
21	XR 11004 at 40 PSI									93 a-d	96 abc	97 abc	97 a
21	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A			82 de	89 a-g
21	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A				
21	PL 713	100	SL	0.5	% v/v	0.5	% v/v	12"CN	A				
22	TT 11004 at 40 PSI									95 ab	97 ab	97 bcd	97 ab
22	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A			85 b-e	87 d-g
22	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A				
22	PL 713	100	SL	0.5	% v/v	0.5	% v/v	12"CN	A				
23	AIXR 11003 at 70 PSI									92 b-e	97 a	97 bcd	96 abc
23	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A			81 e	89 a-g
23	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A				
23	PL 713	100	SL	0.5	% v/v	0.5	% v/v	12"CN	A				
24	GA 110-03 at 70 PSI									90 de	95 a-e	96 d	95 bcd
24	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	12"CN	A			82 e	86 fg
24	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A				
24	PL 713	100	SL	0.5	% v/v	0.5	% v/v	12"CN	A				
LSD (P=.05)								4.3	2.5	1.3	2.1	6.0	5.5
Replicate F								0.632	1.796	0.000	4.262	4.271	5.264
Replicate Prob(F)								0.5363	0.1774	1.0000	0.0200	0.0199	0.0087
Treatment F								2.537	3.910	1.141	1.710	2.234	2.782
Treatment Prob(F)								0.0036	0.0001	0.3430	0.0605	0.0101	0.0016

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

Trial Comments

1. Protocol: Precision Labs.
2. CI/WC at 14 and 28 DAT.
3. Nozzle size and type and spray pressure are per treatment, see treatment list. All applications made at 12 MPH.
4. Plant volunteer Roundup Ready corn perpendicular to soybean.
5. IPOSS = Morningglory species including IPOHE (ivyleaf morningglory) and IPOLA (pitted morningglory).
6. Treatments 21-24 (PL 713) weed control was affected by solids forming in the spray solution, which likely took the Select Max out of solution.
7. Not harvested.