

University of Georgia

Authority/Anthem Soybean PRE/POST

Trial ID: SB-02-15 Location: Georgia Trial Year: 2015
 Protocol ID: Investigator: Eric P. Prostko
 Project ID: Study Director: Craig Heim
 Sponsor Contact:

Reps: 4 Plots: 6 by 25 feet
 Spray vol: 15 GAL/AC Mix Size: 1.5 liters (calculated mix size .78211)

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Unit	Growth Stage	Appl Code	Amt to Measure	Rep 1	2	3	4
1	CHECK									113	208	310	406
2	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	0.95 lb ai/a		EPOST	B	17.19 ml/mx	101	212	304	408
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	0.95 lb ai/a		POST	C	17.19 ml/mx				
3	AUTHORITY ELITE	7 EC		28 oz/a	1.53 lb ai/a		PRE	A	21.87 ml/mx	112	213	302	411
	ANTHEM MAXX	4.3 SE		3.0 oz/a	0.101 lb ai/a		EPOST	B	2.344 ml/mx				
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	0.95 lb ai/a		EPOST	B	17.19 ml/mx				
	NON IONIC SURFACTANT	100 SL		0.25 % v/v			EPOST	B	3.75 ml/mx				
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	0.95 lb ai/a		POST	C	17.19 ml/mx				
4	AUTHORITY ELITE	7 EC		28.0 oz/a	1.53 lb ai/a		PRE	A	21.87 ml/mx	108	203	307	402
	MARVEL	3 SC		7.0 oz/a	0.164 lb ai/a		EPOST	B	5.469 ml/mx				
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	0.95 lb ai/a		EPOST	B	17.19 ml/mx				
	NON IONIC SURFACTANT	100 SL		0.25 % v/v			EPOST	B	3.75 ml/mx				
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	0.95 lb ai/a		POST	C	17.19 ml/mx				
5	AUTHORITY MAXX	66 WG		4.0 oz/a	0.165 lb ai/a		PRE	A	2.996 g/mx	111	201	303	401
	ANTHEM MAXX	4.3 SE		3.0 oz/a	0.101 lb ai/a		EPOST	B	2.344 ml/mx				
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	0.95 lb ai/a		EPOST	B	17.19 ml/mx				
	NON IONIC SURFACTANT	100 SL		0.25 % v/v			EPOST	B	3.75 ml/mx				
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	0.95 lb ai/a		POST	C	17.19 ml/mx				
6	AUTHORITY MAXX	66 WG		4.0 oz/a	0.165 lb ai/a		PRE	A	2.996 g/mx	105	211	309	405
	MARVEL	3 SC		7.0 oz/a	0.164 lb ai/a		EPOST	B	5.469 ml/mx				
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	0.95 lb ai/a		EPOST	B	17.19 ml/mx				
	NON IONIC SURFACTANT	100 SL		0.25 % v/v			EPOST	B	3.75 ml/mx				
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	0.95 lb ai/a		POST	C	17.19 ml/mx				
7	AUTHORITY MTZ	45 WG		14.0 oz/a	0.394 lb ai/a		PRE	A	10.48 g/mx	106	202	311	407
	ANTHEM MAXX	4.3 SE		3.0 oz/a	0.101 lb ai/a		EPOST	B	2.344 ml/mx				
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	0.95 lb ai/a		EPOST	B	17.19 ml/mx				
	NON IONIC SURFACTANT	100 SL		0.25 % v/v			EPOST	B	3.75 ml/mx				
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	0.95 lb ai/a		POST	C	17.19 ml/mx				
8	AUTHORITY MTZ	45 WG		14.0 oz/a	0.394 lb ai/a		PRE	A	10.48 g/mx	109	204	313	404
	MARVEL	3 SC		7.0 oz/a	0.164 lb ai/a		EPOST	B	5.469 ml/mx				
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	0.95 lb ai/a		EPOST	B	17.19 ml/mx				
	NON IONIC SURFACTANT	100 SL		0.25 % v/v			EPOST	B	3.75 ml/mx				
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	0.95 lb ai/a		POST	C	17.19 ml/mx				
9	AUTHORITY MTZ	45 WG		14.0 oz/a	0.394 lb ai/a		PRE	A	10.48 g/mx	110	207	305	413
	ANTHEM MAXX	4.3 SE		3.0 oz/a	0.101 lb ai/a		EPOST	B	2.344 ml/mx				
	MARVEL	3 SC		7.0 oz/a	0.164 lb ai/a		EPOST	B	5.469 ml/mx				
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	0.95 lb ai/a		EPOST	B	17.19 ml/mx				
	NON IONIC SURFACTANT	100 SL		0.25 % v/v			EPOST	B	3.75 ml/mx				
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	0.95 lb ai/a		POST	C	17.19 ml/mx				
10	AUTHORITY XL	70 WG		4.0 oz/a	0.175 lb ai/a		PRE	A	2.996 g/mx	107	209	306	410
	ANTHEM MAXX	4.3 SE		3.0 oz/a	0.101 lb ai/a		EPOST	B	2.344 ml/mx				
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	0.95 lb ai/a		EPOST	B	17.19 ml/mx				
	NON IONIC SURFACTANT	100 SL		0.25 % v/v			EPOST	B	3.75 ml/mx				
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	0.95 lb ai/a		POST	C	17.19 ml/mx				
11	AUTHORITY XL	70 WG		7.0 oz/a	0.306 lb ai/a		PRE	A	5.242 g/mx	102	205	308	412
	MARVEL	3 SC		7.0 oz/a	0.164 lb ai/a		EPOST	B	5.469 ml/mx				
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	0.95 lb ai/a		EPOST	B	17.19 ml/mx				
	NON IONIC SURFACTANT	100 SL		0.25 % v/v			EPOST	B	3.75 ml/mx				
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	0.95 lb ai/a		POST	C	17.19 ml/mx				

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Reps: 4 Plots: 6 by 25 feet
 Spray vol: 15 GAL/AC Mix Size: 1.5 liters (calculated mix size .78211)

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Unit	Growth Stage	Appl Code	Amt Product to Measure	Rep 1	Rep 2	Rep 3	Rep 4
12	ANTHEM MAXX	4.3	SE	3.0 oz/a	0.101 lb ai/a		EPOST	B	2.344 ml/mx	103	210	312	403
	MARVEL	3	SC	7.0 oz/a	0.164 lb ai/a		EPOST	B	5.469 ml/mx				
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	0.95 lb ai/a		EPOST	B	17.19 ml/mx				
	NON IONIC SURFACTANT	100	SL	0.25 % v/v			EPOST	B	3.75 ml/mx				
13	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	0.95 lb ai/a		POST	C	17.19 ml/mx	104	206	301	409
	PREFIX	5.29	EC	32.0 oz/a	1.32 lb ai/a		EPOST	B	25.0 ml/mx				
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	0.95 lb ai/a		EPOST	B	17.19 ml/mx				
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	0.95 lb ai/a		POST	C	17.19 ml/mx				

Sort Order: Treatment

Trial Comments

AUTHORITY ELITE = SULFENTRAZONE (0.7 LB) + S-MOC (6.3 LB)
 AUTHORITY MAXX = SULFENTRAZONE (62%) + CHLORIMURON (4%)
 AUTHORITY MTZ = SULFENTRAZONE (18%) + METRIBUZIN (27%)
 AUTHORITY XL = SULFENTRAZONE (62%) + CHLORIMURON (8%)
 ANTHEM MAXX = PYROXASULFONE (4.174 LB) + FLUTHIACET (0.126 LB)
 MARVEL = FLUTHIACET (0.117 LB) + FOMESAFEN (2.883 LB)
 PREFIX = S-MOC (4.34 LB) + FOMESAFEN (0.95 LB)

ANNUAL GRASS = TEXAS PANICUM + CRABGRASS + GOOSEGRASS + CROWFOOTGRASS

YIELDS ADJUSTED TO 13% MOISTURE.

SUMMARY:

- 1) ALL PRE TREATMENTS CAUSED SIGNIFICANT SOYBEAN STUNTING. AUTHORITY XL CAUSED THE MOST SOYBEAN INJURY. THE INJURY WAS CONSISTENT WITH THE CHLORIMURON COMPONENT OF THIS HERBICIDE.
- 2) AT 15 DAT, ALL PRE TREATMENTS PROVIDED EXCELLENT CONTROL OF PALMER AMARANTH, SMALLFLOWER MG, AND CARPETWEED (94%+).
- 3) AT 15 DAT, ALL PRE TREATMENTS EXCEPT AUTHORITY ELITE PROVIDED POOR CONTROL OF ANNUAL GRASSES (<65%). AT THAT TIME, AUTHORITY ELITE PROVIDED 84-90% CONTROL OF ANNUAL GRASSES.
- 4) AFTER THE EPOST TREATMENTS WERE APPLIED, GRASS CONTROL IMPROVED TO 99%.
- 5) ANTHEM MAXX, MARVEL, AND PREFIX APPLIED EPOST CAUSED SIGNIFICANT SOYBEAN LEAF BURN.
- 6) ON JULY 1, PALMER AMARANTH AND ANNUAL GRASS CONTROL WAS EXCELLENT WITH ALL TREATMENTS (97%+) EXCEPT WITH ROUNDUP P-MAX ALONE. ROUNDUP P-MAX PROVIDED NO CONTROL OF PALMER AT THIS LOCATION.
- 7) ALL TREATED PLOTS, EXCEPT ROUNDUP P-MAX APPLIED EPOST + POST, HAD HIGHER YIELDS THAN THE NTC. NO YIELD DIFFERENCES BETWEEN OTHER TREATMENTS WERE OBSERVED.

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Authority/Anthem Soybean PRE/POST

Trial ID: SB-02-15 Location: Georgia Trial Year: 2015
 Protocol ID: Investigator: Eric P. Prostko
 Project ID: Study Director: Craig Heim
 Sponsor Contact:

General Trial Information

Study Director: Craig Heim **Title:** _____
Investigator: Eric P. Prostko **Title:** PROFESSOR/EXTENSION WEED SPECIALIST

Discipline: _____
Trial Status: _____ **Trial Reliability:** HIGH
Initiation Date: _____ **Planned Completion Date:** _____
Completion Date: _____

Trial Location

City: ATTAPULGUS **Country:** USA United States
State/Prov.: GEORGIA
Postal Code: _____ **Climate Zone:** EPOPOSE EPP0 South East

Latitude of LL Corner °: _____ -
Longitude of LL Corner °: _____ -
Altitude of LL Corner, Unit: _____
Angle y-axis to North °: _____ **Map Reference:** _____
Directions: _____

Conducted Under GLP: No **Official Trial ID:** _____
Conducted Under GEP: No **Other Trial ID:** _____
Study Rules: _____

No.	Guideline	Description
1.		

Keywords: Anthem, Authority, Marvel

Objectives:
 Evaluate Anthem for control of difficult weeds, i.e., Morningglory

Conclusions:

Contacts

Study Director: Craig Heim **Title:** _____
Organization: _____
Address: _____ **Phone No.:** _____
City+State/Prov.: _____ **Mobile No.:** _____
Postal Code: _____ **E-mail:** _____
Country: _____

Investigator: Eric P. Prostko **Title:** PROFESSOR/EXTENSION WEED SPECIALIST
Organization: THE UNIVERSITY OF GEORGIA
Address: 104 RESEARCH WAY **Phone No.:** _____
City+State/Prov.: TIFTON, GA **Mobile No.:** 2293921034
Postal Code: 31793 **E-mail:** EPROSTKO@UGA.EDU
Country: USA United States

Cooperator/Landowner

Cooperator: _____ **Role:** _____
Organization: _____ **Org. Type:** _____
Address 1: _____ **Address 2:** _____
City: _____ **Phone No.:** _____
State/Prov.: _____ **Fax No.:** _____
Postal Code: _____ **Mobile No.:** _____
Country: _____ **E-mail:** _____

Other Contacts

Name	Role	Other

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Crop 1: GLXMA		Glycine max		Crop Description		Soybean	
Variety: ASGROW AG7934		BBCH Scale: BSOY		Description:		Nursery Date: _____	
Seed Size, Unit: _____		Seed Shape: _____		Planting Rate, Unit: 100000 S/A		Planting Date: May-12-15	
Depth, Unit: 1.5 IN		Row Spacing, Unit: 36 IN		Planting Method: _____		Planting Equipment: _____	
Spacing Within Row, Unit: _____		Planting Density, Unit: _____		Soil Temperature, Unit: _____		Emergence Date: _____	
Soil Moisture: _____		Soil Bed: _____		Perennial Age, Unit: _____		Harvest Date: _____	
				Harvested Width, Unit: 6 FT		Harvested Length, Unit: 25 FT	
				Harvest Equipment: _____		% Standard Moisture: 13.3	
				Moisture Meter: _____		Weighing Equipment: _____	

Pest 1 Type: W		Code: AMAPA		Amaranthus palmeri		Pest Description	
Common Name: Palmer amaranth		Description: _____		Artificial Population: _____		Establishment Date: _____	
Establishment Rate, Unit: _____		Concentration, Unit: _____		Establishment Method/Description: _____			
Pest 2 Type: W		Code: MOLVE		Mollugo verticillata		Pest Description	
Common Name: Carpetweed		Description: _____		Artificial Population: _____		Establishment Date: _____	
Establishment Rate, Unit: _____		Concentration, Unit: _____		Establishment Method/Description: _____			
Pest 3 Type: _		Code: AGRASS		ANNUAL GRASSES		Pest Description	
Common Name: TX PANICUM + CRAB + GOOSE + CROW		Description: _____		Artificial Population: _____		Establishment Date: _____	
Establishment Rate, Unit: _____		Concentration, Unit: _____		Establishment Method/Description: _____			

Site and Design							
Treated Plot Width: 6 FT	Treated Plot Length: 25 FT	Treated Plot Area: 150 FT2	Treatments: 13	Replications: 4	% Slope: _____	Site Type: FIELD	field
Untreated Arrangement: _____	Trial Initiation Comments: _____	Experimental Unit: _____	Tillage Type: CONTIL	conventional-till	Study Design: RACOBL	Randomized Complete Block (RCB)	

No.	Previous Crop	Previous Pesticides	Year
1.	COTTON	2014	

Maintenance									
No.	Date	Maintenance Product Name	Form Conc	Form Unit	Form Type	Description	Rate	Rate Unit	Tank Mix
1.									

Comment: _____

Field Prep./Maintenance: _____

Soil Description			
Description Name: _____	% Sand: 86	% OM: 1.49	Texture: LS loamy sand
	% Silt: 6	pH: 6.0	Soil Name: ORANGEBURG
	% Clay: 8	CEC: _____	Fert. Level: G good
			Soil Drainage: G good

Analyzed By: _____

Additional Measured Elements			
Date	Element	Quantity	Unit

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Moisture and Weather Conditions												
Overall Moisture Conditions: _____												
Closest Weather Station: _____						Distance, Unit: _____						
No.	Date	Time	Amount	Unit	Type	Type Description	Interval	Unit	Min Temp	Max Temp	Temp Unit	Relative Humidity
1.	May-13-15		0.5	IN	SPCEPI	sprinkler - center pivot						
Comment:												

Application Description			
	A	B	C
Application Date:	May-12-15	May-27-15	Jun-5-15
Appl. Start Time:			
Appl. Stop Time:	11:45 AM	8:15 AM	9:00 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PREPLA	EAPOCR	POEMCR
Application Placement:	SOIL	FOLIAR	FOLIAR
Applied By:	EPP	EPP	EPP
Air Temperature, Unit:	86 F	68 F	87 F
% Relative Humidity:	53	100	61
Wind Velocity, Unit:	0 MPH	0 MPH	0 MPH
Wind Direction:			
Dew Presence (Y/N):	N no	Y yes	Y yes
Soil Temperature, Unit:	81	75 F	80 F
Soil Moisture:	OPTIMUM	WET	OPTIMUM
% Cloud Cover:	0	100	10
Next Moisture Occurred On:			
Time to Next Moisture, Unit:			

Crop Stage At Each Application			
	A	B	C
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:		V2	V4-V5
Stage Majority, Percent:			
Stage Minimum, Percent:			
Stage Maximum, Percent:			
Diameter, Unit:			
Height, Unit:		4 IN	10 IN
Height Minimum, Maximum:			
Plant Foliage Height, Unit:			
Crop coverage (%):			

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Pest Stage At Each Application			
	A	B	C
Pest 1 Code, Type, Scale:	AMAPA W	AMAPA W	AMAPA W
Stage Majority, Percent:			
Stage Minimum, Percent:			
Stage Maximum, Percent:			
Diameter, Unit:			
Height, Unit:		3 IN	
Height Minimum, Maximum:		1 4	
Density, Unit:			
Coverage, Unit:			
Pest 2 Code, Type, Scale:	MOLVE W	MOLVE W	MOLVE W
Stage Majority, Percent:			
Stage Minimum, Percent:			
Stage Maximum, Percent:			
Diameter, Unit:			
Height, Unit:		0.5 IN	
Height Minimum, Maximum:			
Density, Unit:			
Coverage, Unit:			
Pest 3 Code, Type, Scale:	AGRASS	AGRASS	AGRASS
Stage Majority, Percent:			
Stage Minimum, Percent:			
Stage Maximum, Percent:			
Diameter, Unit:			
Height, Unit:		1.5 IN	1 IN
Height Minimum, Maximum:		1 2	
Density, Unit:			
Coverage, Unit:			

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Application Equipment

	A	B	C
Appl. Equipment:	BACKPACK	BACKPACK	SAME AS B
Equipment Type:			
Operation Pressure, Unit:	40 PSI	40 PSI	
Nozzle Type:	AIXR	FLAT FAN	
Nozzle Size:	11002	11002DG	
Nozzle Spacing, Unit:	20 IN	20 IN	
Nozzles/Row:			
Nozzle Calibration, Unit:			
Band Width, Unit:			
% Coverage:			
Row Sides Applied:			
Boom ID:			
Boom Length, Unit:	60 IN	60 IN	
Boom Height, Unit:	20 IN	20 IN	
Ground Speed, Unit:	3.5 MPH	3.5 MPH	
Incorporation Equip.:			
Hours to Incorp.:			
Incorp. Depth, Unit			
Carrier:	WATER	WATER	
Water Hardness (ppm CaCO3):			
Spray Volume, Unit:	15 GAL/AC	15 GAL/AC	
Mix Size, Unit:	1.5 liters	1.5 liters	
Spray pH:			
Propellant:	CO2	CO2	
Tank Mix (Y/N):			
Equipment Comment:			

Trt No Treatment Application Comment

Date	By	Notes
Jun-5-15	E. PROSTKO	POST C TREATMENTS REALLY WERE NOT NEEDED.

No.	Date	By	Deviations
1.	_____	_____	_____
Reasons:			

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Authority/Anthem Soybean PRE/POST

Trial ID: SB-02-15 Location: Georgia Trial Year: 2015
 Protocol ID: Investigator: Eric P. Prostko
 Project ID: Study Director: Craig Heim
 Sponsor Contact:

Pest Type				W Weed AMAPA Amaranthus pal>	W Weed ANNUAL GRASS	W Weed IAQTA Jacquemontia t>					
Pest Code											
Pest Scientific Name				Palmer amaranth		Smallflower mo>					
Pest Name											
Crop Code	GLXMA	GLXMA									
BBCH Scale	BSOY	BSOY									
Crop Scientific Name	Glycine max	Glycine max									
Crop Name	Soybean	Soybean									
Rating Date	May-20-15	May-27-15		May-27-15	May-27-15	May-27-15					
Rating Type	STUNTING	STUNTING		CONTROL	CONTROL	CONTROL					
Rating Unit	PERCENT	PERCENT		PERCENT	PERCENT	PERCENT					
Sample Size, Unit											
Number of Subsamples	1	1		1	1	1					
Days After First/Last Applic.	8 8	15 15		15 15	15 15	15 15					
Trt-Eval Interval	8 DA-A	15 DA-A		15 DA-A	15 DA-A	15 DA-A					
Plant-Eval Interval	8 DP-1	15 DP-1		15 DP-1	15 DP-1	15 DP-1					
ARM Action Codes											
Number of Decimals											
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Growth Stage	Appl Code	1	2	3	4	5
1	CHECK						0.0 f	0.0 d	0.0 b	0.0 e	0.0 c
2	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	EPOST B		0.0 f	0.0 d	0.0 b	0.0 e	0.0 c
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	POST C						
3	AUTHORITY ELITE	7 EC		28 oz/a	PRE A		22.5 cd	11.3 b	99.0 a	83.8 a	99.0 a
	ANTHEM MAXX	4.3 SE		3.0 oz/a	EPOST B						
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	EPOST B						
	NON IONIC SURFACTANT	100 SL		0.25 % v/v	EPOST B						
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	POST C						
4	AUTHORITY ELITE	7 EC		28.0 oz/a	PRE A		20.0 cde	8.8 bc	99.0 a	90.0 a	96.8 ab
	MARVEL	3 SC		7.0 oz/a	EPOST B						
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	EPOST B						
	NON IONIC SURFACTANT	100 SL		0.25 % v/v	EPOST B						
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	POST C						
5	AUTHORITY MAXX	66 WG		4.0 oz/a	PRE A		22.5 cd	10.0 bc	99.0 a	52.5 cd	99.0 a
	ANTHEM MAXX	4.3 SE		3.0 oz/a	EPOST B						
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	EPOST B						
	NON IONIC SURFACTANT	100 SL		0.25 % v/v	EPOST B						
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	POST C						
6	AUTHORITY MAXX	66 WG		4.0 oz/a	PRE A		25.0 c	7.5 bc	99.0 a	51.3 d	99.0 a
	MARVEL	3 SC		7.0 oz/a	EPOST B						
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	EPOST B						
	NON IONIC SURFACTANT	100 SL		0.25 % v/v	EPOST B						
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	POST C						
7	AUTHORITY MTZ	45 WG		14.0 oz/a	PRE A		20.0 cde	10.0 bc	99.0 a	61.3 bc	99.0 a
	ANTHEM MAXX	4.3 SE		3.0 oz/a	EPOST B						
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	EPOST B						
	NON IONIC SURFACTANT	100 SL		0.25 % v/v	EPOST B						
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	POST C						
8	AUTHORITY MTZ	45 WG		14.0 oz/a	PRE A		15.0 e	7.5 bc	99.0 a	55.0 bcd	99.0 a
	MARVEL	3 SC		7.0 oz/a	EPOST B						
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	EPOST B						
	NON IONIC SURFACTANT	100 SL		0.25 % v/v	EPOST B						
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	POST C						
9	AUTHORITY MTZ	45 WG		14.0 oz/a	PRE A		17.5 de	5.0 cd	99.0 a	62.5 b	99.0 a
	ANTHEM MAXX	4.3 SE		3.0 oz/a	EPOST B						
	MARVEL	3 SC		7.0 oz/a	EPOST B						
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	EPOST B						
	NON IONIC SURFACTANT	100 SL		0.25 % v/v	EPOST B						
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	POST C						

Means followed by same letter do not significantly differ (P=.10, Duncan's New MRT)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Missing data estimates are included in columns: Yates=7,11
 Could not calculate LSD (% mean diff) for columns 3,6,9,11,12,14,15 because error mean square = 0.

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					W Weed AMAPA Amaranthus pal> Palmer amaranth	W Weed ANNUAL GRASS	W Weed IAQTA Jacquemontia t> Smallflower mo>				
Pest Type											
Pest Code											
Pest Scientific Name											
Pest Name											
Crop Code	GLXMA	GLXMA									
BBCH Scale	BSOY	BSOY									
Crop Scientific Name	Glycine max	Glycine max									
Crop Name	Soybean	Soybean									
Rating Date	May-20-15	May-27-15			May-27-15	May-27-15	May-27-15				
Rating Type	STUNTING	STUNTING			CONTROL	CONTROL	CONTROL				
Rating Unit	PERCENT	PERCENT			PERCENT	PERCENT	PERCENT				
Sample Size, Unit											
Number of Subsamples	1	1			1	1	1				
Days After First/Last Applic.	8 8	15 15			15 15	15 15	15 15				
Trt-Eval Interval	8 DA-A	15 DA-A			15 DA-A	15 DA-A	15 DA-A				
Plant-Eval Interval	8 DP-1	15 DP-1			15 DP-1	15 DP-1	15 DP-1				
ARM Action Codes											
Number of Decimals											
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Growth Stage	Appl Code	1	2	3	4	5
10	AUTHORITY XL	70	WG	4.0 oz/a	PRE	A	37.5 b	12.5 b	99.0 a	53.8 bcd	94.5 b
	ANTHEM MAXX	4.3	SE	3.0 oz/a	EPOST	B					
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B					
	NON IONIC SURFACTANT	100	SL	0.25 % v/v	EPOST	B					
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C					
11	AUTHORITY XL	70	WG	7.0 oz/a	PRE	A	50.0 a	20.0 a	99.0 a	61.3 bc	98.0 a
	MARVEL	3	SC	7.0 oz/a	EPOST	B					
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B					
	NON IONIC SURFACTANT	100	SL	0.25 % v/v	EPOST	B					
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C					
12	ANTHEM MAXX	4.3	SE	3.0 oz/a	EPOST	B	0.0 f	0.0 d	0.0 b	0.0 e	0.0 c
	MARVEL	3	SC	7.0 oz/a	EPOST	B					
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B					
	NON IONIC SURFACTANT	100	SL	0.25 % v/v	EPOST	B					
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C					
13	PREFIX	5.29	EC	32.0 oz/a	EPOST	B	0.0 f	0.0 d	0.0 b	0.0 e	0.0 c
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B					
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C					
LSD P=.10							6.22	5.02	.	8.80	2.56
Standard Deviation							5.21	4.21	0.00	7.37	2.14
CV							29.44	59.14	0.0	16.78	3.15
Grand Mean							17.69	7.12	68.54	43.94	67.94
Bartlett's X2							2.847	1.204	0.0	15.605	3.485
P(Bartlett's X2)							0.899	0.977	.	0.048*	0.175
Replicate F							1.512	2.353	0.000	0.834	2.825
Replicate Prob(F)							0.2280	0.0884	1.0000	0.4841	0.0523
Treatment F							34.465	8.258	0.000	77.959	1942.052
Treatment Prob(F)							0.0001	0.0001	1.0000	0.0001	0.0001

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					W Weed MOLVE Mollugo vertic-> Carpetweed			W Weed AMAPA Amaranthus pal-> Palmer amaranth	W Weed ANNUAL GRASS		
Pest Type	Pest Code	Pest Scientific Name	Pest Name	Crop Code		GLXMA BSOY Glycine max Soybean	GLXMA BSOY Glycine max Soybean				
BBCH Scale	Crop Scientific Name	Crop Name	Rating Date	Rating Type	Rating Unit	May-27-15 CONTROL PERCENT	Jun-5-15 STUNTING PERCENT	Jun-5-15 LEAF BURN PERCENT	Jun-5-15 CONTROL PERCENT	Jun-5-15 CONTROL PERCENT	
Sample Size, Unit	Number of Subsamples	Days After First/Last Applic.	Trt-Eval Interval	Plant-Eval Interval	ARM Action Codes	1 15 15 15 DA-A 15 DP-1	1 24 9 24 DA-A 24 DP-1	1 24 9 24 DA-A 24 DP-1	1 24 9 24 DA-A 24 DP-1	1 24 9 24 DA-A 24 DP-1	
Number of Decimals											
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Growth Stage	Appl Code	6	7	8	9	10
1	CHECK						0.0 b	0.0 e	0.0 c	0.0 b	0.0 d
2	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	EPOST B		0.0 b	0.6 e	0.0 c	0.0 b	99.0 a
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	POST C						
3	AUTHORITY ELITE	7 EC		28 oz/a	PRE A		99.0 a	17.3 cd	18.8 ab	99.0 a	99.0 a
	ANTHEM MAXX	4.3 SE		3.0 oz/a	EPOST B						
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	EPOST B						
	NON IONIC SURFACTANT	100 SL		0.25 % v/v	EPOST B						
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	POST C						
4	AUTHORITY ELITE	7 EC		28.0 oz/a	PRE A		99.0 a	10.0 d	18.8 ab	99.0 a	99.0 a
	MARVEL	3 SC		7.0 oz/a	EPOST B						
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	EPOST B						
	NON IONIC SURFACTANT	100 SL		0.25 % v/v	EPOST B						
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	POST C						
5	AUTHORITY MAXX	66 WG		4.0 oz/a	PRE A		99.0 a	17.5 cd	20.0 a	99.0 a	98.0 ab
	ANTHEM MAXX	4.3 SE		3.0 oz/a	EPOST B						
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	EPOST B						
	NON IONIC SURFACTANT	100 SL		0.25 % v/v	EPOST B						
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	POST C						
6	AUTHORITY MAXX	66 WG		4.0 oz/a	PRE A		99.0 a	12.5 d	20.0 a	99.0 a	98.0 ab
	MARVEL	3 SC		7.0 oz/a	EPOST B						
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	EPOST B						
	NON IONIC SURFACTANT	100 SL		0.25 % v/v	EPOST B						
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	POST C						
7	AUTHORITY MTZ	45 WG		14.0 oz/a	PRE A		99.0 a	20.6 bc	17.5 ab	99.0 a	99.0 a
	ANTHEM MAXX	4.3 SE		3.0 oz/a	EPOST B						
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	EPOST B						
	NON IONIC SURFACTANT	100 SL		0.25 % v/v	EPOST B						
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	POST C						
8	AUTHORITY MTZ	45 WG		14.0 oz/a	PRE A		99.0 a	22.5 bc	20.0 a	99.0 a	98.0 ab
	MARVEL	3 SC		7.0 oz/a	EPOST B						
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	EPOST B						
	NON IONIC SURFACTANT	100 SL		0.25 % v/v	EPOST B						
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	POST C						
9	AUTHORITY MTZ	45 WG		14.0 oz/a	PRE A		99.0 a	30.6 a	18.8 ab	99.0 a	99.0 a
	ANTHEM MAXX	4.3 SE		3.0 oz/a	EPOST B						
	MARVEL	3 SC		7.0 oz/a	EPOST B						
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	EPOST B						
	NON IONIC SURFACTANT	100 SL		0.25 % v/v	EPOST B						
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	POST C						

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					W Weed MOLVE Mollugo vertic-> Carpetweed	GLXMA BSOY Glycine max Soybean Jun-5-15	GLXMA BSOY Glycine max Soybean Jun-5-15	W Weed AMAPA Amaranthus pal-> Palmer amaranth	W Weed ANNUAL GRASS		
Pest Type	Pest Code	Pest Scientific Name	Pest Name	Crop Code							
BBCH Scale	Crop Scientific Name	Crop Name	Rating Date	Rating Type							
Rating Unit	Sample Size, Unit	Number of Subsamples	Days After First/Last Applic.	Trt-Eval Interval							
Plant-Eval Interval	ARM Action Codes	Number of Decimals									
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Growth Stage	Appl Code					
							6	7	8		
							9	10			
10	AUTHORITY XL	70	WG	4.0 oz/a	PRE	A	99.0 a	20.6 bc	20.0 a	99.0 a	99.0 a
	ANTHEM MAXX	4.3	SE	3.0 oz/a	EPOST	B					
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B					
	NON IONIC SURFACTANT	100	SL	0.25 % v/v	EPOST	B					
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C					
11	AUTHORITY XL	70	WG	7.0 oz/a	PRE	A	99.0 a	25.7 ab	16.3 b	99.0 a	96.0 c
	MARVEL	3	SC	7.0 oz/a	EPOST	B					
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B					
	NON IONIC SURFACTANT	100	SL	0.25 % v/v	EPOST	B					
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C					
12	ANTHEM MAXX	4.3	SE	3.0 oz/a	EPOST	B	0.0 b	25.0 abc	20.0 a	99.0 a	97.0 bc
	MARVEL	3	SC	7.0 oz/a	EPOST	B					
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B					
	NON IONIC SURFACTANT	100	SL	0.25 % v/v	EPOST	B					
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C					
13	PREFIX	5.29	EC	32.0 oz/a	EPOST	B	0.0 b	10.7 d	18.8 ab	99.0 a	97.0 bc
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B					
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C					
LSD P=.10											
Standard Deviation											
CV											
Grand Mean											
Bartlett's X2											
P(Bartlett's X2)											
Replicate F											
Replicate Prob(F)											
Treatment F											
Treatment Prob(F)											

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					W Weed IAQTA Jacquemontia t> Smallflower mo>	W Weed MOLVE Mollugo vertic> Carpetweed	W Weed AMAPA Amaranthus pal> Palmer amaranth	W Weed ANNUAL GRASS		
Pest Type					Jun-5-15	Jun-5-15	Jun-15-15	Jun-15-15		
Pest Code					CONTROL	CONTROL	CONTROL	CONTROL		
Pest Scientific Name					PERCENT	PERCENT	PERCENT	PERCENT		
Pest Name										
Crop Code					1	1	1	1		
BBCH Scale					24 9	24 9	34 10	34 10		
Crop Scientific Name					24 DA-A	24 DA-A	34 DA-A	34 DA-A		
Crop Name					24 DP-1	24 DP-1	34 DP-1	34 DP-1		
Rating Date										
Rating Type										
Rating Unit										
Sample Size, Unit										
Number of Subsamples										
Days After First/Last Applic.										
Trt-Eval Interval										
Plant-Eval Interval										
ARM Action Codes										
Number of Decimals										
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Growth Stage	Appl Code	11	12	13	14
1	CHECK						0.0 b	0.0 b	0.0 c	0.0 b
2	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B	99.0 a	99.0 a	15.0 b	99.0 a
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C				
3	AUTHORITY ELITE	7	EC	28 oz/a	PRE	A	99.0 a	99.0 a	99.0 a	99.0 a
	ANTHEM MAXX	4.3	SE	3.0 oz/a	EPOST	B				
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B				
	NON IONIC SURFACTANT	100	SL	0.25 % v/v	EPOST	B				
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C				
4	AUTHORITY ELITE	7	EC	28.0 oz/a	PRE	A	99.0 a	99.0 a	99.0 a	99.0 a
	MARVEL	3	SC	7.0 oz/a	EPOST	B				
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B				
	NON IONIC SURFACTANT	100	SL	0.25 % v/v	EPOST	B				
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C				
5	AUTHORITY MAXX	66	WG	4.0 oz/a	PRE	A	99.0 a	99.0 a	99.0 a	99.0 a
	ANTHEM MAXX	4.3	SE	3.0 oz/a	EPOST	B				
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B				
	NON IONIC SURFACTANT	100	SL	0.25 % v/v	EPOST	B				
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C				
6	AUTHORITY MAXX	66	WG	4.0 oz/a	PRE	A	99.0 a	99.0 a	99.0 a	99.0 a
	MARVEL	3	SC	7.0 oz/a	EPOST	B				
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B				
	NON IONIC SURFACTANT	100	SL	0.25 % v/v	EPOST	B				
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C				
7	AUTHORITY MTZ	45	WG	14.0 oz/a	PRE	A	99.0 a	99.0 a	99.0 a	99.0 a
	ANTHEM MAXX	4.3	SE	3.0 oz/a	EPOST	B				
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B				
	NON IONIC SURFACTANT	100	SL	0.25 % v/v	EPOST	B				
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C				
8	AUTHORITY MTZ	45	WG	14.0 oz/a	PRE	A	99.0 a	99.0 a	99.0 a	99.0 a
	MARVEL	3	SC	7.0 oz/a	EPOST	B				
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B				
	NON IONIC SURFACTANT	100	SL	0.25 % v/v	EPOST	B				
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C				
9	AUTHORITY MTZ	45	WG	14.0 oz/a	PRE	A	99.0 a	99.0 a	99.0 a	99.0 a
	ANTHEM MAXX	4.3	SE	3.0 oz/a	EPOST	B				
	MARVEL	3	SC	7.0 oz/a	EPOST	B				
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B				
	NON IONIC SURFACTANT	100	SL	0.25 % v/v	EPOST	B				
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C				

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					W Weed IAQTA	W Weed MOLVE	W Weed AMAPA	W Weed ANNUAL GRASS		
Pest Type					Jacquemontia t->	Mollugo vertic->	Amaranthus pal->			
Pest Code					Smallflower mo->	Carpetweed	Palmer amaranth			
Pest Scientific Name										
Pest Name										
Crop Code										
BBCH Scale										
Crop Scientific Name										
Crop Name										
Rating Date					Jun-5-15	Jun-5-15	Jun-15-15	Jun-15-15		
Rating Type					CONTROL	CONTROL	CONTROL	CONTROL		
Rating Unit					PERCENT	PERCENT	PERCENT	PERCENT		
Sample Size, Unit										
Number of Subsamples					1	1	1	1		
Days After First/Last Applic.					24 9	24 9	34 10	34 10		
Trt-Eval Interval					24 DA-A	24 DA-A	34 DA-A	34 DA-A		
Plant-Eval Interval					24 DP-1	24 DP-1	34 DP-1	34 DP-1		
ARM Action Codes										
Number of Decimals										
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Growth Stage	Appl Code				
							11	12	13	14
10	AUTHORITY XL	70	WG	4.0 oz/a	PRE	A	99.0 a	99.0 a	99.0 a	99.0 a
	ANTHEM MAXX	4.3	SE	3.0 oz/a	EPOST	B				
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B				
	NON IONIC SURFACTANT	100	SL	0.25 % v/v	EPOST	B				
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C				
11	AUTHORITY XL	70	WG	7.0 oz/a	PRE	A	99.0 a	99.0 a	99.0 a	99.0 a
	MARVEL	3	SC	7.0 oz/a	EPOST	B				
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B				
	NON IONIC SURFACTANT	100	SL	0.25 % v/v	EPOST	B				
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C				
12	ANTHEM MAXX	4.3	SE	3.0 oz/a	EPOST	B	99.0 a	99.0 a	99.0 a	99.0 a
	MARVEL	3	SC	7.0 oz/a	EPOST	B				
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B				
	NON IONIC SURFACTANT	100	SL	0.25 % v/v	EPOST	B				
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C				
13	PREFIX	5.29	EC	32.0 oz/a	EPOST	B	99.0 a	99.0 a	99.0 a	99.0 a
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B				
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C				
LSD P=.10					.	.	3.31	.		
Standard Deviation					0.00	0.00	2.77	0.00		
CV					0.0	0.0	3.27	0.0		
Grand Mean					91.38	91.38	84.92	91.38		
Bartlett's X2					0.0	0.0	0.0	0.0		
P(Bartlett's X2)						
Replicate F					0.000	0.000	1.000	0.000		
Replicate Prob(F)					1.0000	1.0000	0.4040	1.0000		
Treatment F					0.000	0.000	618.840	0.000		
Treatment Prob(F)					1.0000	1.0000	0.0001	1.0000		

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Pest Type					W Weed	W Weed	W Weed			
Pest Code					AMAPA	ANNUAL	AMAPA			
Pest Scientific Name					Amaranthus pal>	GRASS	Amaranthus pal>			
Pest Name					Palmer amaranth		Palmer amaranth			
Crop Code								GLXMA	GLXMA	
BBCH Scale								BSOY	BSOY	
Crop Scientific Name								Glycine max	Glycine max	
Crop Name								Soybean	Soybean	
Rating Date					Jul-1-15	Jul-1-15	Aug-31-15	Nov-17-15	Nov-17-15	
Rating Type					CONTROL	CONTROL	CONTROL	YIELD	MOISTURE	
Rating Unit					PERCENT	PERCENT	PERCENT	LBS/PLOT	PERCENT	
Sample Size, Unit								1 PLOT		
Number of Subsamples					1	1	1	1	1	
Days After First/Last Applic.					50 26	50 26	111 87	189 165	189 165	
Trt-Eval Interval					50 DA-A	50 DA-A	111 DA-A	189 DP-1	189 DP-1	
Plant-Eval Interval					50 DP-1	50 DP-1	111 DP-1	189 DP-1	189 DP-1	
ARM Action Codes										
Number of Decimals								2	2	
Trt Treatment	Form	Form	Rate	Growth	Appl					
No. Name	Conc	Type	Rate Unit	Stage	Code	15	16	17	18	19
1 CHECK						0.0 b	0.0 c	0.0 b	0.00 b	0.00 c
2 ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	EPOST B		0.0 b	99.0 a	0.0 b	1.99 b	3.27 b
ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	POST C						
3 AUTHORITY ELITE	7 EC		28 oz/a	PRE A		99.0 a	99.0 a	98.0 a	10.21 a	11.91 a
ANTHEM MAXX	4.3 SE		3.0 oz/a	EPOST B						
ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	EPOST B						
NON IONIC SURFACTANT	100 SL		0.25 % v/v	EPOST B						
ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	POST C						
4 AUTHORITY ELITE	7 EC		28.0 oz/a	PRE A		99.0 a	97.0 ab	98.0 a	8.89 a	11.42 a
MARVEL	3 SC		7.0 oz/a	EPOST B						
ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	EPOST B						
NON IONIC SURFACTANT	100 SL		0.25 % v/v	EPOST B						
ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	POST C						
5 AUTHORITY MAXX	66 WG		4.0 oz/a	PRE A		99.0 a	98.0 ab	98.0 a	8.48 a	12.85 a
ANTHEM MAXX	4.3 SE		3.0 oz/a	EPOST B						
ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	EPOST B						
NON IONIC SURFACTANT	100 SL		0.25 % v/v	EPOST B						
ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	POST C						
6 AUTHORITY MAXX	66 WG		4.0 oz/a	PRE A		99.0 a	98.0 ab	99.0 a	8.94 a	11.82 a
MARVEL	3 SC		7.0 oz/a	EPOST B						
ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	EPOST B						
NON IONIC SURFACTANT	100 SL		0.25 % v/v	EPOST B						
ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	POST C						
7 AUTHORITY MTZ	45 WG		14.0 oz/a	PRE A		99.0 a	97.0 ab	99.0 a	9.35 a	12.00 a
ANTHEM MAXX	4.3 SE		3.0 oz/a	EPOST B						
ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	EPOST B						
NON IONIC SURFACTANT	100 SL		0.25 % v/v	EPOST B						
ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	POST C						
8 AUTHORITY MTZ	45 WG		14.0 oz/a	PRE A		99.0 a	97.0 ab	98.0 a	10.66 a	11.88 a
MARVEL	3 SC		7.0 oz/a	EPOST B						
ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	EPOST B						
NON IONIC SURFACTANT	100 SL		0.25 % v/v	EPOST B						
ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	POST C						
9 AUTHORITY MTZ	45 WG		14.0 oz/a	PRE A		99.0 a	99.0 a	99.0 a	9.54 a	12.39 a
ANTHEM MAXX	4.3 SE		3.0 oz/a	EPOST B						
MARVEL	3 SC		7.0 oz/a	EPOST B						
ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	EPOST B						
NON IONIC SURFACTANT	100 SL		0.25 % v/v	EPOST B						
ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	POST C						

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	W Weed AMAPA Amaranthus pal-> Palmer amaranth	W Weed ANNUAL GRASS	W Weed AMAPA Amaranthus pal-> Palmer amaranth		
Pest Type					
Pest Code					
Pest Scientific Name					
Pest Name					
Crop Code				GLXMA	GLXMA
BBCH Scale				BSOY	BSOY
Crop Scientific Name				Glycine max	Glycine max
Crop Name				Soybean	Soybean
Rating Date	Jul-1-15	Jul-1-15	Aug-31-15	Nov-17-15	Nov-17-15
Rating Type	CONTROL	CONTROL	CONTROL	YIELD	MOISTURE
Rating Unit	PERCENT	PERCENT	PERCENT	LBS/PLOT	PERCENT
Sample Size, Unit				1 PLOT	
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	50 26	50 26	111 87	189 165	189 165
Trt-Eval Interval	50 DA-A	50 DA-A	111 DA-A		
Plant-Eval Interval	50 DP-1	50 DP-1	111 DP-1	189 DP-1	189 DP-1
ARM Action Codes					
Number of Decimals				2	2
Trt Treatment No. Name	15	16	17	18	19
Form Conc					
Form Type					
Rate					
Rate Unit					
Growth Stage					
Appl Code					
10 AUTHORITY XL	70 WG	4.0 oz/a	PRE A	99.0 a	98.0 ab
ANTHEM MAXX	4.3 SE	3.0 oz/a	EPOST B		98.0 a
ROUNDUP POWERMAX	5.5 SL	22.0 oz/a	EPOST B		9.84 a
NON IONIC SURFACTANT	100 SL	0.25 % v/v	EPOST B		11.78 a
ROUNDUP POWERMAX	5.5 SL	22.0 oz/a	POST C		
11 AUTHORITY XL	70 WG	7.0 oz/a	PRE A	99.0 a	96.0 b
MARVEL	3 SC	7.0 oz/a	EPOST B		98.0 a
ROUNDUP POWERMAX	5.5 SL	22.0 oz/a	EPOST B		8.71 a
NON IONIC SURFACTANT	100 SL	0.25 % v/v	EPOST B		11.55 a
ROUNDUP POWERMAX	5.5 SL	22.0 oz/a	POST C		
12 ANTHEM MAXX	4.3 SE	3.0 oz/a	EPOST B	99.0 a	97.0 ab
MARVEL	3 SC	7.0 oz/a	EPOST B		99.0 a
ROUNDUP POWERMAX	5.5 SL	22.0 oz/a	EPOST B		10.48 a
NON IONIC SURFACTANT	100 SL	0.25 % v/v	EPOST B		11.02 a
ROUNDUP POWERMAX	5.5 SL	22.0 oz/a	POST C		
13 PREFIX	5.29 EC	32.0 oz/a	EPOST B	99.0 a	98.0 ab
ROUNDUP POWERMAX	5.5 SL	22.0 oz/a	EPOST B		97.0 a
ROUNDUP POWERMAX	5.5 SL	22.0 oz/a	POST C		9.89 a
LSD P=.10		2.05	1.81	2.271	2.479
Standard Deviation	0.00	1.71	1.52	1.902	2.077
CV	0.0	1.9	1.83	23.12	20.16
Grand Mean	83.77	90.23	83.15	8.228	10.300
Bartlett's X2	0.0	0.258	0.108	24.297	80.069
P(Bartlett's X2)	.	1.00	1.00	0.012*	0.001*
Replicate F	0.000	2.058	0.711	0.550	1.424
Replicate Prob(F)	1.0000	0.1230	0.5517	0.6516	0.2518
Treatment F	0.000	1001.111	2361.334	12.076	14.316
Treatment Prob(F)	1.0000	0.0001	0.0001	0.0001	0.0001

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Pest Type							
Pest Code							
Pest Scientific Name							
Pest Name							
Crop Code						GLXMA	
BBCH Scale						BSOY	
Crop Scientific Name						Glycine max	
Crop Name						Soybean	
Rating Date						Nov-17-15	
Rating Type						YIELD	
Rating Unit						BU/A	
Sample Size, Unit						1 A	
Number of Subsamples						1	
Days After First/Last Applic.						189 165	
Trt-Eval Interval							
Plant-Eval Interval						189 DP-1	
ARM Action Codes						TY1	
Number of Decimals						0	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Growth Stage	Appl Code
							20
1	CHECK						0 b
2	ROUNDUP POWERMAX	5.5	SL	22.0	oz/a	EPOST B	10 b
	ROUNDUP POWERMAX	5.5	SL	22.0	oz/a	POST C	
3	AUTHORITY ELITE	7	EC	28	oz/a	PRE A	50 a
	ANTHEM MAXX	4.3	SE	3.0	oz/a	EPOST B	
	ROUNDUP POWERMAX	5.5	SL	22.0	oz/a	EPOST B	
	NON IONIC SURFACTANT	100	SL	0.25	% v/v	EPOST B	
	ROUNDUP POWERMAX	5.5	SL	22.0	oz/a	POST C	
4	AUTHORITY ELITE	7	EC	28.0	oz/a	PRE A	44 a
	MARVEL	3	SC	7.0	oz/a	EPOST B	
	ROUNDUP POWERMAX	5.5	SL	22.0	oz/a	EPOST B	
	NON IONIC SURFACTANT	100	SL	0.25	% v/v	EPOST B	
	ROUNDUP POWERMAX	5.5	SL	22.0	oz/a	POST C	
5	AUTHORITY MAXX	66	WG	4.0	oz/a	PRE A	41 a
	ANTHEM MAXX	4.3	SE	3.0	oz/a	EPOST B	
	ROUNDUP POWERMAX	5.5	SL	22.0	oz/a	EPOST B	
	NON IONIC SURFACTANT	100	SL	0.25	% v/v	EPOST B	
	ROUNDUP POWERMAX	5.5	SL	22.0	oz/a	POST C	
6	AUTHORITY MAXX	66	WG	4.0	oz/a	PRE A	44 a
	MARVEL	3	SC	7.0	oz/a	EPOST B	
	ROUNDUP POWERMAX	5.5	SL	22.0	oz/a	EPOST B	
	NON IONIC SURFACTANT	100	SL	0.25	% v/v	EPOST B	
	ROUNDUP POWERMAX	5.5	SL	22.0	oz/a	POST C	
7	AUTHORITY MTZ	45	WG	14.0	oz/a	PRE A	46 a
	ANTHEM MAXX	4.3	SE	3.0	oz/a	EPOST B	
	ROUNDUP POWERMAX	5.5	SL	22.0	oz/a	EPOST B	
	NON IONIC SURFACTANT	100	SL	0.25	% v/v	EPOST B	
	ROUNDUP POWERMAX	5.5	SL	22.0	oz/a	POST C	
8	AUTHORITY MTZ	45	WG	14.0	oz/a	PRE A	52 a
	MARVEL	3	SC	7.0	oz/a	EPOST B	
	ROUNDUP POWERMAX	5.5	SL	22.0	oz/a	EPOST B	
	NON IONIC SURFACTANT	100	SL	0.25	% v/v	EPOST B	
	ROUNDUP POWERMAX	5.5	SL	22.0	oz/a	POST C	
9	AUTHORITY MTZ	45	WG	14.0	oz/a	PRE A	47 a
	ANTHEM MAXX	4.3	SE	3.0	oz/a	EPOST B	
	MARVEL	3	SC	7.0	oz/a	EPOST B	
	ROUNDUP POWERMAX	5.5	SL	22.0	oz/a	EPOST B	
	NON IONIC SURFACTANT	100	SL	0.25	% v/v	EPOST B	
	ROUNDUP POWERMAX	5.5	SL	22.0	oz/a	POST C	

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Authority/Anthem Soybean PRE/POST

Trial ID: SB-02-15 Location: Georgia Trial Year: 2015
 Protocol ID: Investigator: Eric P. Prostko
 Project ID: Study Director: Craig Heim
 Sponsor Contact:

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

AMAPA, Amaranthus palmeri, = US

IAQTA, Jacquemontia tamnifolia, = US

MOLVE, Mollugo verticillata, = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent

PLOT = total plot

A = acre

Plant-Eval Interval

8 DP-1 = 1 GLXMA May-12-15

15 DP-1 = 1 GLXMA May-12-15

24 DP-1 = 1 GLXMA May-12-15

34 DP-1 = 1 GLXMA May-12-15

50 DP-1 = 1 GLXMA May-12-15

111 DP-1 = 1 GLXMA May-12-15

189 DP-1 = 1 GLXMA May-12-15

ARM Action Codes

TY1 = $4.84 * [18] * (100 - [19]) / 86.7$

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Authority/Anthem Soybean PRE/POST

Trial ID: SB-02-15 Location: Georgia Trial Year: 2015
 Protocol ID: Investigator: Eric P. Prostko
 Project ID: Study Director: Craig Heim
 Sponsor Contact:

						GLXMA BSOY Glycine max Soybean May-20-15 STUNTING PERCENT	GLXMA BSOY Glycine max Soybean May-27-15 STUNTING PERCENT	W Weed AMAPA Amaranthus pal> Palmer amaranth May-27-15 CONTROL PERCENT	W Weed ANNUAL GRASS May-27-15 CONTROL PERCENT
Trt Treatment	Form	Form	Rate	Growth	Appl	1	2	3	4
No. Name	Conc	Type	Rate Unit	Stage	Code Plot				
1 CHECK					113	0.0	0.0	0.0	0.0
					208	0.0	0.0	0.0	0.0
					310	0.0	0.0	0.0	0.0
					406	0.0	0.0	0.0	0.0
					Mean =	0.0	0.0	0.0	0.0
2 ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	EPOST B	101	0.0	0.0	0.0	0.0
ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	POST C	212	0.0	0.0	0.0	0.0
					304	0.0	0.0	0.0	0.0
					408	0.0	0.0	0.0	0.0
					Mean =	0.0	0.0	0.0	0.0
3 AUTHORITY ELITE	7 EC		28 oz/a	PRE A	112	20.0	10.0	99.0	75.0
ANTHEM MAXX	4.3 SE		3.0 oz/a	EPOST B	213	20.0	5.0	99.0	95.0
ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	EPOST B	302	20.0	10.0	99.0	90.0
NON IONIC SURFACTANT	100 SL		0.25 % v/v	EPOST B	411	30.0	20.0	99.0	75.0
ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	POST C					
					Mean =	22.5	11.3	99.0	83.8
4 AUTHORITY ELITE	7 EC		28.0 oz/a	PRE A	108	20.0	10.0	99.0	90.0
MARVEL	3 SC		7.0 oz/a	EPOST B	203	30.0	10.0	99.0	85.0
ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	EPOST B	307	10.0	0.0	99.0	95.0
NON IONIC SURFACTANT	100 SL		0.25 % v/v	EPOST B	402	20.0	15.0	99.0	90.0
ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	POST C					
					Mean =	20.0	8.8	99.0	90.0
5 AUTHORITY MAXX	66 WG		4.0 oz/a	PRE A	111	20.0	10.0	99.0	50.0
ANTHEM MAXX	4.3 SE		3.0 oz/a	EPOST B	201	30.0	10.0	99.0	50.0
ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	EPOST B	303	20.0	10.0	99.0	50.0
NON IONIC SURFACTANT	100 SL		0.25 % v/v	EPOST B	401	20.0	10.0	99.0	60.0
ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	POST C					
					Mean =	22.5	10.0	99.0	52.5
6 AUTHORITY MAXX	66 WG		4.0 oz/a	PRE A	105	20.0	0.0	99.0	50.0
MARVEL	3 SC		7.0 oz/a	EPOST B	211	20.0	10.0	99.0	65.0
ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	EPOST B	309	30.0	10.0	99.0	50.0
NON IONIC SURFACTANT	100 SL		0.25 % v/v	EPOST B	405	30.0	10.0	99.0	40.0
ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	POST C					
					Mean =	25.0	7.5	99.0	51.3
7 AUTHORITY MTZ	45 WG		14.0 oz/a	PRE A	106	10.0	10.0	99.0	85.0
ANTHEM MAXX	4.3 SE		3.0 oz/a	EPOST B	202	30.0	20.0	99.0	50.0
ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	EPOST B	311	20.0	0.0	99.0	50.0
NON IONIC SURFACTANT	100 SL		0.25 % v/v	EPOST B	407	20.0	10.0	99.0	60.0
ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	POST C					
					Mean =	20.0	10.0	99.0	61.3

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Pest Type						W Weed	W Weed					
Pest Code						IAQTA	MOLVE					
Pest Scientific Name						Jacquemontia t>	Mollugo vertic>					
Pest Name						Smallflower mo>	Carpetweed					
Crop Code								GLXMA	GLXMA			
BBCH Scale								BSOY	BSOY			
Crop Scientific Name								Glycine max	Glycine max			
Crop Name								Soybean	Soybean			
Rating Date						May-27-15	May-27-15	Jun-5-15	Jun-5-15			
Rating Type						CONTROL	CONTROL	STUNTING	LEAF BURN			
Rating Unit						PERCENT	PERCENT	PERCENT	PERCENT			
Sample Size, Unit						1	1	1	1			
Number of Subsamples						15	15	24	24			
Days After First/Last Applic.						15	15	9	9			
Trt-Eval Interval						15 DA-A	15 DA-A	24 DA-A	24 DA-A			
Plant-Eval Interval						15 DP-1	15 DP-1	24 DP-1	24 DP-1			
ARM Action Codes												
Number of Decimals												
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Growth Unit	Appl Stage	Code	Plot	5	6	7	8
1	CHECK							113	0.0	0.0	0.0	0.0
								208	0.0	0.0	0.0	0.0
								310	0.0	0.0	0.0	0.0
								406	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0
2	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a		EPOST B		101	0.0	0.0	0.0	0.0
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a		POST C		212	0.0	0.0	0.0	0.0
								304	0.0	0.0	0.0	0.0
								408	0.0	0.0	2.4*	0.0
								Mean =	0.0	0.0	0.6	0.0
3	AUTHORITY ELITE	7 EC		28 oz/a		PRE A		112	99.0	99.0	20.0	20.0
	ANTHEM MAXX	4.3 SE		3.0 oz/a		EPOST B		213	99.0	99.0	20.0	20.0
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a		EPOST B		302	99.0	99.0	10.0	20.0
	NON IONIC SURFACTANT	100 SL		0.25 % v/v		EPOST B		411	99.0	99.0	19.1*	15.0
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a		POST C		Mean =	99.0	99.0	17.3	18.8
4	AUTHORITY ELITE	7 EC		28.0 oz/a		PRE A		108	99.0	99.0	10.0	20.0
	MARVEL	3 SC		7.0 oz/a		EPOST B		203	99.0	99.0	10.0	20.0
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a		EPOST B		307	90.0	99.0	10.0	15.0
	NON IONIC SURFACTANT	100 SL		0.25 % v/v		EPOST B		402	99.0	99.0	10.0	20.0
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a		POST C		Mean =	96.8	99.0	10.0	18.8
5	AUTHORITY MAXX	66 WG		4.0 oz/a		PRE A		111	99.0	99.0	20.0	20.0
	ANTHEM MAXX	4.3 SE		3.0 oz/a		EPOST B		201	99.0	99.0	20.0	20.0
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a		EPOST B		303	99.0	99.0	10.0	20.0
	NON IONIC SURFACTANT	100 SL		0.25 % v/v		EPOST B		401	99.0	99.0	20.0	20.0
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a		POST C		Mean =	99.0	99.0	17.5	20.0
6	AUTHORITY MAXX	66 WG		4.0 oz/a		PRE A		105	99.0	99.0	10.0	20.0
	MARVEL	3 SC		7.0 oz/a		EPOST B		211	99.0	99.0	10.0	20.0
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a		EPOST B		309	99.0	99.0	20.0	20.0
	NON IONIC SURFACTANT	100 SL		0.25 % v/v		EPOST B		405	99.0	99.0	10.0	20.0
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a		POST C		Mean =	99.0	99.0	12.5	20.0
7	AUTHORITY MTZ	45 WG		14.0 oz/a		PRE A		106	99.0	99.0	20.0	10.0
	ANTHEM MAXX	4.3 SE		3.0 oz/a		EPOST B		202	99.0	99.0	30.0	20.0
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a		EPOST B		311	99.0	99.0	10.0	20.0
	NON IONIC SURFACTANT	100 SL		0.25 % v/v		EPOST B		407	99.0	99.0	22.5*	20.0
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a		POST C		Mean =	99.0	99.0	20.6	17.5

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							W Weed IAQTA Jacquemontia t> Smallflower mo>	W Weed MOLVE Mollugo vertic> Carpetweed	GLXMA BSOY Glycine max Soybean Jun-5-15 STUNTING PERCENT	GLXMA BSOY Glycine max Soybean Jun-5-15 LEAF BURN PERCENT
Pest Type							May-27-15	May-27-15		
Pest Code							CONTROL	CONTROL		
Pest Scientific Name							PERCENT	PERCENT		
Pest Name										
Crop Code							1	1	1	1
BBCH Scale							15 15	15 15	24 9	24 9
Crop Scientific Name							15 DA-A	15 DA-A	24 DA-A	24 DA-A
Crop Name							15 DP-1	15 DP-1	24 DP-1	24 DP-1
Rating Date										
Rating Type										
Rating Unit										
Sample Size, Unit										
Number of Subsamples										
Days After First/Last Applic.										
Trt-Eval Interval										
Plant-Eval Interval										
ARM Action Codes										
Number of Decimals										
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Growth Stage	Appl Code Plot	5	6	7	8
8	AUTHORITY MTZ	45	WG	14.0 oz/a	PRE	A 109	99.0	99.0	30.0	20.0
	MARVEL	3	SC	7.0 oz/a	EPOST	B 204	99.0	99.0	10.0	20.0
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B 313	99.0	99.0	20.0	20.0
	NON IONIC SURFACTANT	100	SL	0.25 % v/v	EPOST	B 404	99.0	99.0	30.0	20.0
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C				
						Mean =	99.0	99.0	22.5	20.0
9	AUTHORITY MTZ	45	WG	14.0 oz/a	PRE	A 110	99.0	99.0	40.0	20.0
	ANTHEM MAXX	4.3	SE	3.0 oz/a	EPOST	B 207	99.0	99.0	30.0	20.0
	MARVEL	3	SC	7.0 oz/a	EPOST	B 305	99.0	99.0	20.0	15.0
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B 413	99.0	99.0	32.6*	20.0
	NON IONIC SURFACTANT	100	SL	0.25 % v/v	EPOST	B				
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C				
						Mean =	99.0	99.0	30.6	18.8
10	AUTHORITY XL	70	WG	4.0 oz/a	PRE	A 107	99.0	99.0	20.0	20.0
	ANTHEM MAXX	4.3	SE	3.0 oz/a	EPOST	B 209	99.0	99.0	20.0	20.0
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B 306	85.0	99.0	20.0	20.0
	NON IONIC SURFACTANT	100	SL	0.25 % v/v	EPOST	B 410	95.0	99.0	22.6*	20.0
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C				
						Mean =	94.5	99.0	20.6	20.0
11	AUTHORITY XL	70	WG	7.0 oz/a	PRE	A 102	99.0	99.0	30.0	10.0
	MARVEL	3	SC	7.0 oz/a	EPOST	B 205	99.0	99.0	30.0	20.0
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B 308	95.0	99.0	15.0	20.0
	NON IONIC SURFACTANT	100	SL	0.25 % v/v	EPOST	B 412	99.0	99.0	27.6*	15.0
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C				
						Mean =	98.0	99.0	25.7	16.3
12	ANTHEM MAXX	4.3	SE	3.0 oz/a	EPOST	B 103	0.0	0.0	20.0	20.0
	MARVEL	3	SC	7.0 oz/a	EPOST	B 210	0.0	0.0	30.0	20.0
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B 312	0.0	0.0	20.0	20.0
	NON IONIC SURFACTANT	100	SL	0.25 % v/v	EPOST	B 403	0.0	0.0	30.0	20.0
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C				
						Mean =	0.0	0.0	25.0	20.0
13	PREFIX	5.29	EC	32.0 oz/a	EPOST	B 104	0.0	0.0	10.0	20.0
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B 206	0.0	0.0	20.0	20.0
	ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C 301	0.0	0.0	0.0	20.0
						409	0.0	0.0	12.7*	15.0
						Mean =	0.0	0.0	10.7	18.8

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Pest Type						W Weed	W Weed	W Weed	W Weed
Pest Code						AMAPA	ANNUAL	IAQTA	MOLVE
Pest Scientific Name						Amaranthus pal>	GRASS	Jacquemontia t>	Mollugo vertic>
Pest Name						Palmer amaranth		Smallflower mo>	Carpetweed
Crop Code									
BBCH Scale									
Crop Scientific Name									
Crop Name									
Rating Date						Jun-5-15	Jun-5-15	Jun-5-15	Jun-5-15
Rating Type						CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit						PERCENT	PERCENT	PERCENT	PERCENT
Sample Size, Unit									
Number of Subsamples						1	1	1	1
Days After First/Last Applic.						24 9	24 9	24 9	24 9
Trt-Eval Interval						24 DA-A	24 DA-A	24 DA-A	24 DA-A
Plant-Eval Interval						24 DP-1	24 DP-1	24 DP-1	24 DP-1
ARM Action Codes									
Number of Decimals									
Trt	Treatment	Form	Form	Rate	Growth	Appl			
No.	Name	Conc	Type	Rate	Unit	Stage	Code	Plot	
								9	10
								11	12
1	CHECK							113	0.0
								208	0.0
								310	0.0
								406	0.0
								Mean =	0.0
2	ROUNDUP POWERMAX	5.5	SL	22.0	oz/a	EPOST	B	101	0.0
	ROUNDUP POWERMAX	5.5	SL	22.0	oz/a	POST	C	212	0.0
								304	0.0
								408	0.0
								Mean =	0.0
3	AUTHORITY ELITE	7	EC	28	oz/a	PRE	A	112	99.0
	ANTHEM MAXX	4.3	SE	3.0	oz/a	EPOST	B	213	99.0
	ROUNDUP POWERMAX	5.5	SL	22.0	oz/a	EPOST	B	302	99.0
	NON IONIC SURFACTANT	100	SL	0.25	% v/v	EPOST	B	411	99.0
	ROUNDUP POWERMAX	5.5	SL	22.0	oz/a	POST	C		99.0
								Mean =	99.0
4	AUTHORITY ELITE	7	EC	28.0	oz/a	PRE	A	108	99.0
	MARVEL	3	SC	7.0	oz/a	EPOST	B	203	99.0
	ROUNDUP POWERMAX	5.5	SL	22.0	oz/a	EPOST	B	307	99.0
	NON IONIC SURFACTANT	100	SL	0.25	% v/v	EPOST	B	402	99.0
	ROUNDUP POWERMAX	5.5	SL	22.0	oz/a	POST	C		99.0
								Mean =	99.0
5	AUTHORITY MAXX	66	WG	4.0	oz/a	PRE	A	111	99.0
	ANTHEM MAXX	4.3	SE	3.0	oz/a	EPOST	B	201	99.0
	ROUNDUP POWERMAX	5.5	SL	22.0	oz/a	EPOST	B	303	99.0
	NON IONIC SURFACTANT	100	SL	0.25	% v/v	EPOST	B	401	99.0
	ROUNDUP POWERMAX	5.5	SL	22.0	oz/a	POST	C		95.0
								Mean =	99.0
6	AUTHORITY MAXX	66	WG	4.0	oz/a	PRE	A	105	99.0
	MARVEL	3	SC	7.0	oz/a	EPOST	B	211	99.0
	ROUNDUP POWERMAX	5.5	SL	22.0	oz/a	EPOST	B	309	99.0
	NON IONIC SURFACTANT	100	SL	0.25	% v/v	EPOST	B	405	99.0
	ROUNDUP POWERMAX	5.5	SL	22.0	oz/a	POST	C		99.0
								Mean =	99.0
7	AUTHORITY MTZ	45	WG	14.0	oz/a	PRE	A	106	99.0
	ANTHEM MAXX	4.3	SE	3.0	oz/a	EPOST	B	202	99.0
	ROUNDUP POWERMAX	5.5	SL	22.0	oz/a	EPOST	B	311	99.0
	NON IONIC SURFACTANT	100	SL	0.25	% v/v	EPOST	B	407	99.0
	ROUNDUP POWERMAX	5.5	SL	22.0	oz/a	POST	C		99.0
								Mean =	99.0

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							W Weed AMAPA Amaranthus pal-> Palmer amaranth	W Weed ANNUAL GRASS	W Weed IAQTA Jacquemontia t-> Smallflower mo->	W Weed MOLVE Mollugo vertic-> Carpetweed
							Jun-5-15 CONTROL PERCENT	Jun-5-15 CONTROL PERCENT	Jun-5-15 CONTROL PERCENT	Jun-5-15 CONTROL PERCENT
							1 24 9 24 DA-A 24 DP-1	1 24 9 24 DA-A 24 DP-1	1 24 9 24 DA-A 24 DP-1	1 24 9 24 DA-A 24 DP-1
Trt Treatment	Form	Form	Rate	Growth	Appl		9	10	11	12
No. Name	Conc	Type	Rate Unit	Stage	Code Plot					
8 AUTHORITY MTZ	45	WG	14.0 oz/a	PRE	A 109		99.0	99.0	99.0	99.0
MARVEL	3	SC	7.0 oz/a	EPOST	B 204		99.0	99.0	99.0	99.0
ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B 313		99.0	95.0	99.0	99.0
NON IONIC SURFACTANT	100	SL	0.25 % v/v	EPOST	B 404		99.0	99.0	99.0	99.0
ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C					
					Mean =		99.0	98.0	99.0	99.0
9 AUTHORITY MTZ	45	WG	14.0 oz/a	PRE	A 110		99.0	99.0	99.0	99.0
ANTHEM MAXX	4.3	SE	3.0 oz/a	EPOST	B 207		99.0	99.0	99.0	99.0
MARVEL	3	SC	7.0 oz/a	EPOST	B 305		99.0	99.0	99.0	99.0
ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B 413		99.0	99.0	99.0	99.0
NON IONIC SURFACTANT	100	SL	0.25 % v/v	EPOST	B					
ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C					
					Mean =		99.0	99.0	99.0	99.0
10 AUTHORITY XL	70	WG	4.0 oz/a	PRE	A 107		99.0	99.0	99.0	99.0
ANTHEM MAXX	4.3	SE	3.0 oz/a	EPOST	B 209		99.0	99.0	99.0	99.0
ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B 306		99.0	99.0	99.0	99.0
NON IONIC SURFACTANT	100	SL	0.25 % v/v	EPOST	B 410		99.0	99.0	99.0	99.0
ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C					
					Mean =		99.0	99.0	99.0	99.0
11 AUTHORITY XL	70	WG	7.0 oz/a	PRE	A 102		99.0	95.0	99.0	99.0
MARVEL	3	SC	7.0 oz/a	EPOST	B 205		99.0	95.0	99.0	99.0
ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B 308		99.0	95.0	99.0	99.0
NON IONIC SURFACTANT	100	SL	0.25 % v/v	EPOST	B 412		99.0	99.0	99.0	99.0
ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C					
					Mean =		99.0	96.0	99.0	99.0
12 ANTHEM MAXX	4.3	SE	3.0 oz/a	EPOST	B 103		99.0	99.0	99.0	99.0
MARVEL	3	SC	7.0 oz/a	EPOST	B 210		99.0	95.0	99.0	99.0
ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B 312		99.0	95.0	99.0	99.0
NON IONIC SURFACTANT	100	SL	0.25 % v/v	EPOST	B 403		99.0	99.0	99.0	99.0
ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C					
					Mean =		99.0	97.0	99.0	99.0
13 PREFIX	5.29	EC	32.0 oz/a	EPOST	B 104		99.0	99.0	99.0	99.0
ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B 206		99.0	95.0	99.0	99.0
ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C 301		99.0	95.0	99.0	99.0
					409		99.0	99.0	99.0	99.0
					Mean =		99.0	97.0	99.0	99.0

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Pest Type						W Weed	W Weed	W Weed	W Weed		
Pest Code						AMAPA	ANNUAL	AMAPA	ANNUAL		
Pest Scientific Name						Amaranthus pal>	GRASS	Amaranthus pal>	GRASS		
Pest Name						Palmer amaranth		Palmer amaranth			
Crop Code											
BBCH Scale											
Crop Scientific Name											
Crop Name											
Rating Date						Jun-15-15	Jun-15-15	Jul-1-15	Jul-1-15		
Rating Type						CONTROL	CONTROL	CONTROL	CONTROL		
Rating Unit						PERCENT	PERCENT	PERCENT	PERCENT		
Sample Size, Unit						1	1	1	1		
Number of Subsamples						34	34	50	50		
Days After First/Last Applic.						10	10	26	26		
Trt-Eval Interval						34 DA-A	34 DA-A	50 DA-A	50 DA-A		
Plant-Eval Interval						34 DP-1	34 DP-1	50 DP-1	50 DP-1		
ARM Action Codes											
Number of Decimals											
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Growth Stage	Appl Code	Plot	13	14	15	16
1	CHECK						113	0.0	0.0	0.0	0.0
							208	0.0	0.0	0.0	0.0
							310	0.0	0.0	0.0	0.0
							406	0.0	0.0	0.0	0.0
							Mean =	0.0	0.0	0.0	0.0
2	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	EPOST	B	101	20.0	99.0	0.0	99.0
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	POST	C	212	20.0	99.0	0.0	99.0
							304	20.0	99.0	0.0	99.0
							408	0.0	99.0	0.0	99.0
							Mean =	15.0	99.0	0.0	99.0
3	AUTHORITY ELITE	7 EC		28 oz/a	PRE	A	112	99.0	99.0	99.0	99.0
	ANTHEM MAXX	4.3 SE		3.0 oz/a	EPOST	B	213	99.0	99.0	99.0	99.0
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	EPOST	B	302	99.0	99.0	99.0	99.0
	NON IONIC SURFACTANT	100 SL		0.25 % v/v	EPOST	B	411	99.0	99.0	99.0	99.0
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	POST	C					
							Mean =	99.0	99.0	99.0	99.0
4	AUTHORITY ELITE	7 EC		28.0 oz/a	PRE	A	108	99.0	99.0	99.0	99.0
	MARVEL	3 SC		7.0 oz/a	EPOST	B	203	99.0	99.0	99.0	95.0
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	EPOST	B	307	99.0	99.0	99.0	99.0
	NON IONIC SURFACTANT	100 SL		0.25 % v/v	EPOST	B	402	99.0	99.0	99.0	95.0
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	POST	C					
							Mean =	99.0	99.0	99.0	97.0
5	AUTHORITY MAXX	66 WG		4.0 oz/a	PRE	A	111	99.0	99.0	99.0	99.0
	ANTHEM MAXX	4.3 SE		3.0 oz/a	EPOST	B	201	99.0	99.0	99.0	99.0
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	EPOST	B	303	99.0	99.0	99.0	99.0
	NON IONIC SURFACTANT	100 SL		0.25 % v/v	EPOST	B	401	99.0	99.0	99.0	95.0
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	POST	C					
							Mean =	99.0	99.0	99.0	98.0
6	AUTHORITY MAXX	66 WG		4.0 oz/a	PRE	A	105	99.0	99.0	99.0	99.0
	MARVEL	3 SC		7.0 oz/a	EPOST	B	211	99.0	99.0	99.0	99.0
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	EPOST	B	309	99.0	99.0	99.0	99.0
	NON IONIC SURFACTANT	100 SL		0.25 % v/v	EPOST	B	405	99.0	99.0	99.0	95.0
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	POST	C					
							Mean =	99.0	99.0	99.0	98.0
7	AUTHORITY MTZ	45 WG		14.0 oz/a	PRE	A	106	99.0	99.0	99.0	99.0
	ANTHEM MAXX	4.3 SE		3.0 oz/a	EPOST	B	202	99.0	99.0	99.0	95.0
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	EPOST	B	311	99.0	99.0	99.0	99.0
	NON IONIC SURFACTANT	100 SL		0.25 % v/v	EPOST	B	407	99.0	99.0	99.0	95.0
	ROUNDUP POWERMAX	5.5 SL		22.0 oz/a	POST	C					
							Mean =	99.0	99.0	99.0	97.0

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							W Weed AMAPA Amaranthus pal-> Palmer amaranth	W Weed ANNUAL GRASS	W Weed AMAPA Amaranthus pal-> Palmer amaranth	W Weed ANNUAL GRASS
							Jun-15-15 CONTROL PERCENT	Jun-15-15 CONTROL PERCENT	Jul-1-15 CONTROL PERCENT	Jul-1-15 CONTROL PERCENT
							1 34 10 34 DA-A 34 DP-1	1 34 10 34 DA-A 34 DP-1	1 50 26 50 DA-A 50 DP-1	1 50 26 50 DA-A 50 DP-1
Trt Treatment No. Name	Form Conc	Form Type	Rate Rate Unit	Growth Stage	Appl Code	Plot	13	14	15	16
8 AUTHORITY MTZ	45	WG	14.0 oz/a	PRE	A	109	99.0	99.0	99.0	95.0
MARVEL	3	SC	7.0 oz/a	EPOST	B	204	99.0	99.0	99.0	99.0
ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B	313	99.0	99.0	99.0	99.0
NON IONIC SURFACTANT	100	SL	0.25 % v/v	EPOST	B	404	99.0	99.0	99.0	95.0
ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C					
						Mean =	99.0	99.0	99.0	97.0
9 AUTHORITY MTZ	45	WG	14.0 oz/a	PRE	A	110	99.0	99.0	99.0	99.0
ANTHEM MAXX	4.3	SE	3.0 oz/a	EPOST	B	207	99.0	99.0	99.0	99.0
MARVEL	3	SC	7.0 oz/a	EPOST	B	305	99.0	99.0	99.0	99.0
ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B	413	99.0	99.0	99.0	99.0
NON IONIC SURFACTANT	100	SL	0.25 % v/v	EPOST	B					
ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C					
						Mean =	99.0	99.0	99.0	99.0
10 AUTHORITY XL	70	WG	4.0 oz/a	PRE	A	107	99.0	99.0	99.0	99.0
ANTHEM MAXX	4.3	SE	3.0 oz/a	EPOST	B	209	99.0	99.0	99.0	99.0
ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B	306	99.0	99.0	99.0	95.0
NON IONIC SURFACTANT	100	SL	0.25 % v/v	EPOST	B	410	99.0	99.0	99.0	99.0
ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C					
						Mean =	99.0	99.0	99.0	98.0
11 AUTHORITY XL	70	WG	7.0 oz/a	PRE	A	102	99.0	99.0	99.0	95.0
MARVEL	3	SC	7.0 oz/a	EPOST	B	205	99.0	99.0	99.0	99.0
ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B	308	99.0	99.0	99.0	95.0
NON IONIC SURFACTANT	100	SL	0.25 % v/v	EPOST	B	412	99.0	99.0	99.0	95.0
ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C					
						Mean =	99.0	99.0	99.0	96.0
12 ANTHEM MAXX	4.3	SE	3.0 oz/a	EPOST	B	103	99.0	99.0	99.0	99.0
MARVEL	3	SC	7.0 oz/a	EPOST	B	210	99.0	99.0	99.0	99.0
ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B	312	99.0	99.0	99.0	95.0
NON IONIC SURFACTANT	100	SL	0.25 % v/v	EPOST	B	403	99.0	99.0	99.0	95.0
ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C					
						Mean =	99.0	99.0	99.0	97.0
13 PREFIX	5.29	EC	32.0 oz/a	EPOST	B	104	99.0	99.0	99.0	95.0
ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B	206	99.0	99.0	99.0	99.0
ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C	301	99.0	99.0	99.0	99.0
						409	99.0	99.0	99.0	99.0
						Mean =	99.0	99.0	99.0	98.0

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							W Weed AMAPA Amaranthus pal-> Palmer amaranth			
							Aug-31-15 CONTROL PERCENT	GLXMA BSOY Glycine max Soybean Nov-17-15 YIELD LBS/PLOT 1 PLOT	GLXMA BSOY Glycine max Soybean Nov-17-15 MOISTURE PERCENT	GLXMA BSOY Glycine max Soybean Nov-17-15 YIELD BU/A 1 A
							1 111 87 111 DA-A 111 DP-1	1 189 165 189 DP-1	1 189 165 189 DP-1	1 189 165 189 DP-1 TY1 0
Trt Treatment	Form	Form	Rate	Growth	Appl		17	18	19	20
No. Name	Conc	Type	Rate Unit	Stage	Code Plot					
8 AUTHORITY MTZ	45	WG	14.0 oz/a	PRE	A 109		99.0	11.89	11.76	59
MARVEL	3	SC	7.0 oz/a	EPOST	B 204		99.0	11.50	11.73	57
ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B 313		95.0	8.52	12.22	42
NON IONIC SURFACTANT	100	SL	0.25 % v/v	EPOST	B 404		99.0	10.73	11.81	53
ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C					
					Mean =		98.0	10.66	11.88	52
9 AUTHORITY MTZ	45	WG	14.0 oz/a	PRE	A 110		99.0	11.09	10.95	55
ANTHEM MAXX	4.3	SE	3.0 oz/a	EPOST	B 207		99.0	9.09	15.15	43
MARVEL	3	SC	7.0 oz/a	EPOST	B 305		99.0	9.76	11.36	48
ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B 413		99.0	8.21	12.08	40
NON IONIC SURFACTANT	100	SL	0.25 % v/v	EPOST	B					
ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C					
					Mean =		99.0	9.54	12.39	47
10 AUTHORITY XL	70	WG	4.0 oz/a	PRE	A 107		99.0	8.53	12.30	42
ANTHEM MAXX	4.3	SE	3.0 oz/a	EPOST	B 209		95.0	10.34	11.93	51
ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B 306		99.0	9.91	12.14	49
NON IONIC SURFACTANT	100	SL	0.25 % v/v	EPOST	B 410		99.0	10.57	10.75	53
ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C					
					Mean =		98.0	9.84	11.78	48
11 AUTHORITY XL	70	WG	7.0 oz/a	PRE	A 102		99.0	9.03	11.82	44
MARVEL	3	SC	7.0 oz/a	EPOST	B 205		99.0	9.26	10.76	46
ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B 308		95.0	5.93	12.23	29
NON IONIC SURFACTANT	100	SL	0.25 % v/v	EPOST	B 412		99.0	10.60	11.39	52
ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C					
					Mean =		98.0	8.71	11.55	43
12 ANTHEM MAXX	4.3	SE	3.0 oz/a	EPOST	B 103		99.0	10.48	11.38	52
MARVEL	3	SC	7.0 oz/a	EPOST	B 210		99.0	10.74	10.90	53
ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B 312		99.0	10.50	10.65	52
NON IONIC SURFACTANT	100	SL	0.25 % v/v	EPOST	B 403		99.0	10.18	11.14	50
ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C					
					Mean =		99.0	10.48	11.02	52
13 PREFIX	5.29	EC	32.0 oz/a	EPOST	B 104		99.0	9.70	11.62	48
ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	EPOST	B 206		99.0	11.60	11.88	57
ROUNDUP POWERMAX	5.5	SL	22.0 oz/a	POST	C 301		95.0	8.87	12.26	43
					409		95.0	9.37	12.35	46
					Mean =		97.0	9.89	12.03	49

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Authority/Anthem Soybean PRE/POST

Trial ID: SB-02-15 Location: Georgia Trial Year: 2015
 Protocol ID: Investigator: Eric P. Prostko
 Project ID: Study Director: Craig Heim
 Sponsor Contact:

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

AMAPA, Amaranthus palmeri, = US

IAQTA, Jacquemontia tamnifolia, = US

MOLVE, Mollugo verticillata, = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent

PLOT = total plot

A = acre

Plant-Eval Interval

8 DP-1 = 1 GLXMA May-12-15

15 DP-1 = 1 GLXMA May-12-15

24 DP-1 = 1 GLXMA May-12-15

34 DP-1 = 1 GLXMA May-12-15

50 DP-1 = 1 GLXMA May-12-15

111 DP-1 = 1 GLXMA May-12-15

189 DP-1 = 1 GLXMA May-12-15

ARM Action Codes

TY1 = $4.84 * [18] * (100 - [19]) / 86.7$