

Reps: 3
 Spray vol: 15 gal/ac

Plots: 10 by 25 feet
 Mix size: .19226 gallons (min .17226)

SPRAY 6.67 FEET - STAKE AND SPRAY CENTER OF PLOT

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 N

317 318 319 320 321 322 323 324
 309 310 311 312 313 314 315 316
 301 302 303 304 305 306 307 308
 217 218 219 220 221 222 223 224
 209 210 211 212 213 214 215 216
 201 202 203 204 205 206 207 208
 117 118 119 120 121 122 123 124
 109 110 111 112 113 114 115 116
 101 102 103 104 105 106 107 108

Trt No.	Treatment Name	Form Conc	Rate	Unit	Other Rate	Unit	Growth Stage	Amt Product to Measure	Rep
1	NONTREATED								101 220 321
2	SONIC	70 WG	0.280	lb ai/a	6.4	oz/a	PRE A	2.326 g/mx	102 201 307
3	ENVIVE	41.3 WG			5	oz/a	PRE A		103 206 312
	CLASSIC	25 WG	0.02856	lb ai/a			PRE A	0.6642 g/mx	
	HARMONY SG	50 SG	0.00918	lb ai/a			PRE A	0.1067 g/mx	
	VALOR SX	51 WG	0.09072	lb ai/a			PRE A	1.034 g/mx	
4	MATADOR S	100 SC	3.0	pt/a	3	pt/a	PRE A	18.19 ml/mx	104 211 315
5	INTIMIDATOR	4.81 SL	1.8	lb ai/a	3	pt/a	PRE A	18.15 ml/mx	105 202 316
6	ZIDUA	85 WG	0.133	lb ai/a	2.5	oz/a	PRE A	0.9097 g/mx	106 214 318
7	STATEMENT	5.25 EC	1.31	lb ai/a	32	fl oz/a	PRE A	12.11 ml/mx	107 209 304
8	STATEMENT	5.25 EC	1.64	lb ai/a	40	fl oz/a	PRE A	15.15 ml/mx	108 218 314
9	PREFIX	5.29 EC	1.32	lb ai/a	32	fl oz/a	PRE A	12.11 ml/mx	109 205 322
10	PREFIX	5.29 EC	1.65	lb ai/a	40	fl oz/a	PRE A	15.13 ml/mx	110 212 305
11	VALOR SX	51 WG	0.08	lb ai/a	2.5	oz/a	PRE A	0.912 g/mx	111 224 311
12	FIERCE	76 WG	0.178	lb ai/a	3.75	oz/a	PRE A	1.362 g/mx	112 223 313
13	FIERCE	76 WG	0.178	lb ai/a	3.75	oz/a	PRE A	1.362 g/mx	113 215 301
	VALOR SX	51 WG	0.016	lb ai/a	0.5	oz/a	PRE A	0.1824 g/mx	
14	FIERCE XLT						PRE A		114 221 317
	FIERCE	76 WG	0.178	lb ai/a	3.75	oz/a	PRE A	1.362 g/mx	
	CLASSIC	25 WG	0.0213	lb ai/a	1.36	oz/a	PRE A	0.4953 g/mx	
15	BOUNDARY	6.5 EC	1.22	lb ai/a	1.5	pt/a	PRE A	9.106 ml/mx	115 213 309
16	VERDICT	5.57 EC	0.218	lb ai/a	5	fl oz/a	PRE A	1.899 ml/mx	116 222 302
	OUTLOOK	6 EC	0.47	lb ai/a	10	fl oz/a	PRE A	3.8 ml/mx	
17	LINEX	4 SC	1.0	lb ai/a	2	pt/a	PRE A	12.13 ml/mx	117 207 308
18	SENCOR	75 WG	0.375	lb ai/a	8	oz/a	PRE A	2.907 g/mx	118 216 319

Products and amounts needed
 See next page

General Evaluation of Soil Residual Herbicides in Soybean - Palmer. 5-12-14 (14-COL-SIUresidual-W80)

Trial ID: 14-COL-SIUresidual-W80

Location:Collinsville, IL

19	AUTHORITY XL	70 WG	0.280 lb ai/a	6.4 oz/a	PRE	A	2.326 g/mx	119 217 324
20	AUTHORITY MAXX	66 WG	0.33 lb ai/a	8 oz/a	PRE	A	2.907 g/mx	120 219 306
21	AUTHORITY ELITE	7 SC	1.75 lb ai/a	32 fl oz/a	PRE	A	12.13 ml/mx	121 210 323
22	AUTHORITY MTZ	45 WG	0.45 lb ai/a	16 oz/a	PRE	A	5.814 g/mx	122 208 310
23	AUTHORITY ASSIS'	4 SC	0.313 lb ai/a	10 fl oz/a	PRE	A	3.796 ml/mx	123 203 320
24	SURVEIL CO-PACK				PRE	A		124 204 303
	VALOR SX	51 WG	0.064 lb ai/a	2 oz/a	PRE	A	0.7296 g/mx	
	FIRSTRATE	84 WG	0.021 lb ai/a	0.4 oz/a	PRE	A	0.1453 g/mx	

Products and amounts needed		
AUTHORITY ASSIST	4 SC	3.8 ml
AUTHORITY ELITE	7 SC	12.1 ml
AUTHORITY MAXX	66 WG	2.91 g
AUTHORITY MTZ	45 WG	5.81 g
AUTHORITY XL	70 WG	2.33 g
BOUNDARY	6.5 EC	9.11 ml
CLASSIC	25 WG	1.16 g
FIERCE	76 WG	4.09 g
FIRSTRATE	84 WG	0.15 g
HARMONY SG	50 SG	0.11 g
INTIMIDATOR	4.81 SL	18.2 ml
LINEX	4 SC	12.1 ml
MATADOR S	100 SC	18.2 ml
OUTLOOK	6 EC	3.8 ml
PREFIX	5.29 EC	27.2 ml
SENCOR	75 WG	2.91 g
SONIC	70 WG	2.33 g
STATEMENT	5.25 EC	27.3 ml
VALOR SX	51 WG	2.86 g
VERDICT	5.57 EC	1.9 ml
ZIDUA	85 WG	0.91 g

General Evaluation of Soil Residual Herbicides in Soybean - Palmer. 5-12-14 (14-COL-SIUresidual-W80)

Trial ID: 14-COL-SIUresidual-W80 Location: Collinsville, IL

City State Zip Country: Collinsville, IL 62234 USA

Trial Status: Setup Initiation Date: _____

Objectives: Evaluate soybean preemergence herbicide control of Palmer amaranth.

Crop 1: GLXMA Soybean Variety: _____ Description: LL
Planting Method: SEEDED Planting Date: _____
Rate, Unit: _____ Depth, Unit: 1 IN
Row Spacing, Unit: 30 IN Seed Bed: _____
Soil Moisture: _____ Soil Temp, Unit: _____

Treated Plot Width, Unit: 6.67 FT Total Plot Width, Unit: 10 FT Site Type: FIELD
Treated Plot Length, Unit: 25 FT Total Plot Length, Unit: 25 FT Tillage Type: REDTIL
Replications: 3 Study Design: RACOB

Previous Crop, Year: GLXMA, 2013

Field Prep./Maintenance: N ___ LB/A, P2O5 ___ LB/A, K2O ___ LB/A

% Sand: _____ % OM: _____ Texture: _____
% Silt: _____ pH: _____ Soil Name: _____
% Clay: _____ CEC: _____ Fert. Level: P1 ___ ___, K ___ ___

Application Description

A

Application Date: _____
Appl. Start Time: _____
Appl. Stop Time: _____
Application Method: Spray
Application Timing: PRE
Application Placement: BROSOI
Applied By: _____
Air Temperature, Unit: ___ F
% Relative Humidity: _____
Wind Velocity, Unit: ___ MPH
Wind Direction: _____
Dew Presence (Y/N): - ___
Soil Temperature, Unit: ___ F
Soil Moisture: _____
% Cloud Cover: _____
Next Moisture Occurred On: _____

Crop stage Min, Max: ___ - ___
Height Min, Max (inch): ___ - ___

Application Equipment

Appl. Equipment: CO2 sprayer
Equipment Type: BACSPR
Operation Pressure, Unit: 30 PSI
Nozzle Type: XR
Nozzle Size: 8002
Boom Length, Unit: 6.67 FT
Spray Volume, Unit: 15 GPA

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Weed 1: _____						
LVS (#) min-max, maj	- / -	- / -	- / -	- / -	- / -	- / -
Ht (in) min-max, maj	- / -	- / -	- / -	- / -	- / -	- / -
Est Density (#/sqft)	_____	_____	_____	_____	_____	_____
Weed 2: _____						
LVS (#) min-max, maj	- / -	- / -	- / -	- / -	- / -	- / -
Ht (in) min-max, maj	- / -	- / -	- / -	- / -	- / -	- / -
Est Density (#/sqft)	_____	_____	_____	_____	_____	_____
Weed 3: _____						
LVS (#) min-max, maj	- / -	- / -	- / -	- / -	- / -	- / -
Ht (in) min-max, maj	- / -	- / -	- / -	- / -	- / -	- / -
Est Density (#/sqft)	_____	_____	_____	_____	_____	_____
Weed 4: _____						
LVS (#) min-max, maj	- / -	- / -	- / -	- / -	- / -	- / -
Ht (in) min-max, maj	- / -	- / -	- / -	- / -	- / -	- / -
Est Density (#/sqft)	_____	_____	_____	_____	_____	_____
Weed 5: _____						
LVS (#) min-max, maj	- / -	- / -	- / -	- / -	- / -	- / -
Ht (in) min-max, maj	- / -	- / -	- / -	- / -	- / -	- / -
Est Density (#/sqft)	_____	_____	_____	_____	_____	_____
Weed 6: _____						
LVS (#) min-max, maj	- / -	- / -	- / -	- / -	- / -	- / -
Ht (in) min-max, maj	- / -	- / -	- / -	- / -	- / -	- / -
Est Density (#/sqft)	_____	_____	_____	_____	_____	_____
Weed 7: _____						
LVS (#) min-max, maj	- / -	- / -	- / -	- / -	- / -	- / -
Ht (in) min-max, maj	- / -	- / -	- / -	- / -	- / -	- / -
Est Density (#/sqft)	_____	_____	_____	_____	_____	_____
Weed 8: _____						
LVS (#) min-max, maj	- / -	- / -	- / -	- / -	- / -	- / -
Ht (in) min-max, maj	- / -	- / -	- / -	- / -	- / -	- / -
Est Density (#/sqft)	_____	_____	_____	_____	_____	_____

Trial Comments

1. Protocol: SIU.
2. Ratings: CI 14, 28, and 56 DA-A; WC 14, 28, and 56 DA-A.
3. No yield.
4. Photos at 28 and 56 DA-A.