

Evaluation of Palmer Amaranth Control with Various Modes of Action - Noncrop. 5-30-14 (14-9B-N210)

Trial ID: 14-9B-N210 Location: Belleville Res. Center

Blanket POST application for grass control, see comments.

Reps: 4

Plots: 10 by 25 feet

Spray vol: 15 gal/ac

Mix size: .3644 gallons (min .34435)

SPRAY 10 FEET - STAKE LEFT - SPRAY CENTER

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W

401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421
 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321
 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221
 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121

Trt No.	Treatment Name	Form Conc	Rate	Rate Unit	Other Rate Unit	Growth Stage	Amt to Measure	Product	Rep
1	NONTREATED							101 210 305 414	
2	AATREX 4L	4 SC	2.0 lb ai/a		2 qt/a	PPI A	45.98 ml/mx	102 214 319 412	
3	CALLISTO	4 SC	0.188 lb ai/a		6 fl oz/a	PPI A	4.322 ml/mx	103 207 312 416	
4	BALANCE PRO	4 SC	0.063 lb ai/a		2 fl oz/a	PPI A	1.448 ml/mx	104 209 303 413	
5	SCEPTER	70 WG	0.125 lb ai/a		2.86 oz/a	PPI A	1.968 g/mx	105 217 304 419	
6	CLASSIC	25 WG	0.04 lb ai/a		2.56 oz/a	PPI A	1.763 g/mx	106 215 321 402	
7	TREFLAN	4 EC	1.0 lb ai/a		2 pt/a	PPI A	22.99 ml/mx	107 203 314 421	
8	PROWL H2O	3.8 CS	0.95 lb ai/a		2 pt/a	PPI A	22.99 ml/mx	108 220 310 415	
9	REFLEX	2 EC	0.296 lb ai/a		19 fl oz/a	PPI A	13.61 ml/mx	109 221 307 411	
10	DUAL MAGNUM	7.62 EC	1.27 lb ai/a		1.33 pt/a	PPI A	15.33 ml/mx	110 205 313 417	
11	ANTHEM	2.15 SE	0.134 lb ai/a		8 fl oz/a	PPI A	5.731 ml/mx	111 218 301 408	
12	ZIDUA	85 WG	0.133 lb ai/a		2.5 oz/a	PPI A	1.724 g/mx	112 202 318 409	
13	SPARTAN 4F	4 SC	0.25 lb ai/a		8 fl oz/a	PPI A	5.747 ml/mx	113 201 308 418	
14	VALOR SX	51 WG	0.063 lb ai/a		2 oz/a	PPI A	1.361 g/mx	114 219 311 407	
15	WARRANT	3 CS	1.13 lb ai/a		48 fl oz/a	PPI A	34.63 ml/mx	115 206 317 410	
16	PURSUIT	2 SL	0.063 lb ai/a		4 fl oz/a	PPI A	2.896 ml/mx	116 204 320 401	
17	SHARPEN	2.85 SC	0.022 lb ai/a		1 fl oz/a	PPI A	0.7098 ml/m	117 211 315 403	
18	COBRA	2 EC	0.19 lb ai/a		12 fl oz/a	4"W B	8.735 ml/mx	118 213 309 405	
	COC (PRIME OIL)	100 SL	1.0 % v/v		1 % v/v	4"W B	13.79 ml/mx		
	N-PAK AMS	100 SL	2.5 % v/v		2.5 % v/v	4"W B	34.48 ml/mx		
19	CALLISTO	4 SC	0.094 lb ai/a		3 fl oz/a	4"W B	2.161 ml/mx	119 212 302 406	
	COC (PRIME OIL)	100 SL	1.0 % v/v		1 % v/v	4"W B	13.79 ml/mx		
	N-PAK AMS	100 SL	2.5 % v/v		2.5 % v/v	4"W B	34.48 ml/mx		
20	PURSUIT	2 SL	0.063 lb ai/a		4 fl oz/a	4"W B	2.896 ml/mx	120 208 316 404	
	MSO (MSO ULTRA)	100 SL	1.0 % v/v		1 % v/v	4"W B	13.79 ml/mx		
	N-PAK AMS	100 SL	2.5 % v/v		2.5 % v/v	4"W B	34.48 ml/mx		
21	CLARITY	4 SL	0.56 lb ae/a		18 fl oz/a	4"W B	12.87 ml/mx	121 216 306 420	

Product	Rate	Unit	Rep
NONTREATED			
AATREX 4L	4 SC	PPI A	A
ANTHEM	2.15 SE	PPI A	A
BALANCE PRO	4 SC	PPI A	A
CALLISTO	4 SC	PPI A	A
CLASSIC	25 WG	PPI A	A
DUAL MAGNUM	7.62 EC	PPI A	A
PROWL H2O	3.8 CS	PPI A	A
PURSUIT	2 SL	PPI A	A
REFLEX	2 EC	PPI A	A
SCEPTER	70 WG	PPI A	A
SHARPEN	2.85 SC	PPI A	A
SPARTAN 4F	4 SC	PPI A	A
TREFLAN	4 EC	PPI A	A
VALOR SX	51 WG	PPI A	A
WARRANT	3 CS	PPI A	A
ZIDUA	85 WG	PPI A	A
CALLISTO	4 SC	4"W B	B
CLARITY	4 SL	4"W B	B
COBRA	2 EC	4"W B	B
COC (PRIME OIL)	100 SL	4"W B	B
MSO (MSO ULTRA)	100 SL	4"W B	B
N-PAK AMS	100 SL	4"W B	B
PURSUIT	2 SL	4"W B	B

Products and amounts needed		
AATREX 4L	4 SC	46 ml
ANTHEM	2.15 SE	5.73 ml
BALANCE PRO	4 SC	1.45 ml
CALLISTO	4 SC	6.48 ml
CLARITY	4 SL	12.9 ml
CLASSIC	25 WG	1.76 g
COBRA	2 EC	8.74 ml
COC (PRIME OIL)	100 SL	27.6 ml
DUAL MAGNUM	7.62 EC	15.3 ml
MSO (MSO ULTRA)	100 SL	13.8 ml
N-PAK AMS	100 SL	103 ml
PROWL H2O	3.8 CS	23 ml
PURSUIT	2 SL	5.79 ml
REFLEX	2 EC	13.6 ml
SCEPTER	70 WG	1.97 g
SHARPEN	2.85 SC	0.71 ml
SPARTAN 4F	4 SC	5.75 ml
TREFLAN	4 EC	23 ml
VALOR SX	51 WG	1.36 g
WARRANT	3 CS	34.6 ml
ZIDUA	85 WG	1.72 g

Evaluation of Palmer Amaranth Control with Various Modes of Action - Noncrop. 5-30-14 (14-9B-N210)

Trial ID: 14-9B-N210 Location: Belleville Res. Center

City State Zip Country: Belleville, IL 62221 USA

Trial Status: Setup Initiation Date: _____

Objectives: Compare control of Palmer amaranth with different modes of action on a Palmer population.

Crop 1: NONE _ Variety: NON-CROP Description: NA
 Planting Method: NA Planting Date: _____
 Rate, Unit: _____ Depth, Unit: _____
 Row Spacing, Unit: _____ Seed Bed: _____
 Soil Moisture: _____ Soil Temp, Unit: _____

Treated Plot Width, Unit: 10 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: 4 Study Design: RACOB

Previous Crop, Year: GLXMA, 2013

Field Prep./Maintenance: N 0 LB/A, P205 50 LB/A, K20 150 LB/A

% Sand: _____ % OM: 2.9 Texture: silt loam
 % Silt: _____ pH: 6.2 Soil Name: Bethalto
 % Clay: _____ CEC: 11 Fert. Level: P1 72 lb/A, K 275 lb/A

Application Description

	A	B
Application Date:	_____	_____
Appl. Start Time:	_____	_____
Appl. Stop Time:	_____	_____
Application Method:	Spray	Spray
Application Timing:	PPI	4"W
Application Placement:	BROSIOI	BROFOL
Applied By:	_____	_____
Air Temperature, Unit:	_____ F	_____ F
% Relative Humidity:	_____	_____
Wind Velocity, Unit:	_____ MPH	_____ MPH
Wind Direction:	_____	_____
Dew Presence (Y/N):	_____	_____
Soil Temperature, Unit:	_____ F	_____ F
Soil Moisture:	_____	_____
% Cloud Cover:	_____	_____
Next Moisture Occurred On:	_____	_____

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

Application Equipment

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:	10 FT	10 FT
Spray Volume, Unit:	15 GPA	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: WC 14, 28, and 56 DA-A, and WC 14, 28, and 56 DA-B.
3. No Yield (non-crop).
4. Blanket POST application of Select Max (1 pt/A) plus COC (1%) to be applied to 2 inch grass as needed.