MSU Weed Science Research Program Postemergence control of glyphosate-resistant Palmer amaranth in corn

Trial ID: C17-13 Conducted: Barry Co.	Study Dir.: Kohrt, Sprague, Powell Investigator: Christy Sprague								
Date Planted: May/16/2013 Variety: DKC 49-94 Population: 27,500 seeds, Soil Type: Sandy loam Plot Size: 10 X 30	Row Spacing: No. of Reps: /A % OM: pH: FT Design:	30 IN 4 2.2 6.9 RANDOMIZED COMPLETE BLOCK							
Tillage: Spring soil finish									
Weed Code Common Nam 1. AMAPA AMARANTH, Crop Code Common Nam 1. ZEAMX CORN, FIEL	PALMER me	Scientific Name AMARANTHUS PALMERI S.WATS.							
Application Description									
AApplication Timing:POSTDate Treated:Jun/14/2013Time Treated:3:00 PM% Cloud Cover:50Air Temp., Unit:73 F% Relative Humidity:45Wind Speed/Unit/Dir:4 mph NESoil Temp., Unit:78 FSoil/Leaf Surface M:3 4Soil Moist (1=w 5=d):3									
Crop Stage at Each Application									
A Crop Name: ZEAMX Height (In.): 12" Stage (L): V5									
Weed 1 Name: A Meed 1 Name: AMAP, Height (In.): 4" Stage (L): 6	ed Stage at Each Applicat A	ion							
Weed Density (plants/sq. ft.) 1 Weed Name: AMAPA Density: 45									
Application Equipment Appl Sprayer Speed Nozzle Nozzle Nozzle Boom Type MPH Type Size Height Spacing Width GPA Carrier PSI A Backpack 3.5 AIXR 11003 20" 20" 100" 19 water 30									

Comments: This population of Palmer amaranth was resistant to glyphosate and ALS-inhibiting herbicides.

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Cro Rat Rat Rat Trt-	ed Code p Code ing Data Type ing Unit ing Date Eval Interval ubsamples, Dec.							AMAPA ZEMAX control percent Jun/21/2013 7 DA-A 0	AMAPA ZEMAX control percent Jun/28/2013 14 DA-A 0
	Treatment	Form				Grow			
NO.	Name	Conc	Гуре	Rate	Unit	Stg	Code		
1	2,4-D Amine	4	L	1	pt/a	3-inch	А	61	30
2	Status	56	WG	5		3-inch	А	63	64
	Surfactant		L			3-inch			
	AMS		WG	17	lb/100 gal				
3	Clarity	4	L	1		3-inch		64	55
4	AAtrex	4	L	1		3-inch		28	15
_	COC		L	1		3-inch			
5	AAtrex	4	L	1		3-inch		70	26
	COC		L	1		3-inch			
6	Cadet	0.91	L	0.9		3-inch		28	28
_	COC		L	1		3-inch			
7	Liberty	2.34		29		3-inch		90	23
_	AMS		WG	17	lb/100 gal			_	
8	Roundup PowerMax	4.5	L	22		3-inch		0	8
_	AMS		WG	17	lb/100 gal				
9	Armezon	2.8	L			3-inch		81	88
	MSO		L	1		3-inch			
	AMS		WG	17	lb/100 gal	3-inch	A	_	
10	Untreated							0	0
	D (P=.05)							11.2	18.5
CV								15.91	38.07

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