

KIH-485 Evaluation in Corn - Broadleaf Signalgrass.

Project Code: 06-ARC-13-W50 Location: Aronomy Research Center
 Investigator: Bryan Young

Investigator: Bryan Young, Associate Professor, Southern Illinois University

City State Zip Country: Carbondale IL 62901 USA
Trial Status: Final **Updated:** 8-28-06

Objective:

Evaluate the efficacy of KIH-485 compared with commercial standards.

Weed Code	Common Name	Scientific Name
1.	BRAPP signalgrass, broadleaf	Brachiaria platyphylla (Griseb.) Nash
2.	PANDI panicum, fall	Panicum dichotomiflorum Michx.

Crop 1:	ZEAMX corn, field	Variety:	P31G96 RR/HX
Planting Method:	Seeded	Planting Date:	5-19-06
Rate:	28000 S/A	Depth:	1.5 IN
Row Spacing:	30 IN		

Plot Width, Unit:	10 FT	Plot Length, Unit:	33 FT	Reps:	3
Tillage Type:	Reduced-Till	Study Design:	Randomized complete block		
Previous Crop, Year:	_____, 2005				
Field Prep./Maintenance:	N 158 LB/A, P205 46 LB/A, K20 60 LB/A				

Soil Name:	Weir	% OM:	1.4	pH:	6.1	CEC:	74
Texture:	Silt loam	Fert. Level:	P1: 69 LB/A, K: 402 LB/A				

APPLICATION DESCRIPTION

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Application Date:	5-20-06
Time of Day:	9:30
Application Method:	Spray
Application Timing:	PRE
Applic. Placement:	BROSOI
Air Temp., Unit:	65 F
% Relative Humidity:	52
Wind Velocity, Unit:	5 MPH
Dew Presence (Y/N):	N
Soil Temp., Unit:	65 F
Soil Moisture:	NORMAL
% Cloud Cover:	75

CROP STAGE AT EACH APPLICATION

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Crop 1 Code, Stage:	ZEAMX NA
Height, Unit:	NA NA

APPLICATION EQUIPMENT

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Appl. Equipment:	CO2 sprayer
Operating Pressure:	40 PSI
Nozzle Type:	Flat fan
Nozzle Size:	8003
Boom Length, Unit:	7.5 FT
Spray Volume, Unit:	20 GPA

NOTES:

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Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	ZEAMX Injury Percent 6-9-06 21 DAP	ZEAMX Injury Percent 6-23-06 35 DAP	ZEAMX Injury Percent 7-14-06 56 DAP	BRAPP Control Percent 6-9-06 21 DAP	BRAPP Control Percent 6-23-06 35 DAP	BRAPP Control Percent 7-14-06 56 DAP	PANDI Control Percent 6-9-06 21 DAP	PANDI Control Percent 6-23-06 35 DAP	PANDI Control Percent 7-14-06 56 DAP
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Prod Rate	Prod Unit	Grow Stg	Appl Code						
1	NONTREATED								0	0	0	0	0	0
2	KIH-485	85	WG	0.1115	lb ai/a	2.1	oz/a	PRE A	0	0	0	75	35	0
3	KIH-485	85	WG	0.148	lb ai/a	2.79	oz/a	PRE A	0	0	0	84	67	43
4	KIH-485	85	WG	0.186	lb ai/a	3.5	oz/a	PRE A	0	0	0	90	79	60
5	KIH-485	85	WG	0.287	lb ai/a	5.4	oz/a	PRE A	0	0	0	90	85	65
6	DUAL II MAGNUM	7.64	EC	1.27	lb ai/a	1.33	pt/a	PRE A	0	0	0	83	64	34
7	HARNESS	7	EC	1.55	lb ai/a	1.77	pt/a	PRE A	0	0	0	96	64	52
8	HARNESS	7	EC	1.99	lb ai/a	2.27	pt/a	PRE A	0	0	0	93	84	82
9	KIH-485/ATRAZINE	57.8	WG	1.1	lb ai/a	1.9	lb/a	PRE A	0	0	0	94	87	77
10	BICEP II MAGNUM	5.5	L	2.19	lb ai/a	1.6	qt/a	PRE A	0	0	0	93	83	68
LSD (P=.05)									0.0	0.0	0.0	7.2	27.2	15.9
Replicate F									0.000	0.000	0.000	1.795	2.160	0.753
Replicate Prob(F)									1.0000	1.0000	1.0000	0.1945	0.1443	0.4851
Treatment F									0.000	0.000	0.000	140.662	9.125	29.503
Treatment Prob(F)									1.0000	1.0000	1.0000	0.0001	0.0001	0.0001

Trial Comments

1. Protocol: Kumiai America.
2. Ratings: CI/WC 21, 35 + 56 DAP.
3. Crop destruct.
4. Consider a broadcast POST application of a broadleaf herbicide if control of these species is insufficient to the extent that it will compromise the grass evaluations.
5. DAP = Days after planting.
6. Not harvested.