

KIH-485 Evaluation in Corn.

Project Code: 06-50W-S50 Location: Belleville Research Center
 Investigator: Bryan Young

Investigator: Bryan Young, Associate Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA
Trial Status: Final **Updated:** 8-14-06

Objective:

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

Weed Code	Common Name	Scientific Name
1. CYPES	nutsedge, yellow	Cyperus esculentus L.
2. SETFA	foxtail, giant	Setaria faberi Herrm.

Crop 1:	ZEAMX	corn, field	Variety:	33K44
Planting Method:	Seeded		Planting Date:	5-23-06
Rate:	28000	S/A	Depth:	1.5 IN
Row Spacing:	30	IN		

Plot Width, Unit:	10	FT	Plot Length, Unit:	27	FT	Reps:	3
Tillage Type:	Reduced-Till		Study Design:	Randomized complete block			
Previous Crop, Year:	GLXMA, 2005						
Field Prep./Maintenance:	N 150 LB/A, P205 50 LB/A, K20 100 LB/A						

Soil Name:	Weir	% OM:	2.2	pH:	6.3	CEC:	11	
Texture:	Silt loam	Fert. Level:	P1: 67 LB/A, K: 376 LB/A					

APPLICATION DESCRIPTION

		A
Application Date:	5-24-06	
Time of Day:	7:00	
Application Method:	Spray	
Application Timing:	PRE	
Applic. Placement:	BROSOI	
Air Temp., Unit:	70	F
% Relative Humidity:	94	
Wind Velocity, Unit:	3	MPH
Soil Moisture:	NORMAL	

CROP STAGE AT EACH APPLICATION

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

APPLICATION EQUIPMENT

		A
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	ZEAMX			CYPES			SETFA		
Crop Code	Injury	Injury	Injury	Control	Control	Control	Control	Control	Control
Rating Data Type	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit	6-13-06	6-27-06	7-18-06	6-13-06	6-27-06	7-18-06	6-13-06	6-27-06	7-18-06
Rating Date	21 DAP	35 DAP	56 DAP	21 DAP	35 DAP	56 DAP	21 DAP	35 DAP	56 DAP
Trt-Eval Interval									

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	ZEAMX Injury Percent	ZEAMX Injury Percent	ZEAMX Injury Percent	CYPES Control Percent	CYPES Control Percent	CYPES Control Percent	SETFA Control Percent	SETFA Control Percent	SETFA Control Percent
1	NONTREATED									0	0	0	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	81	77	73	95	95	91
3	KIH-485	85	WG	0.148	lb ai/a	2.79	oz/a	PRE	A	0	0	0	78	80	75	95	97	91
4	KIH-485	85	WG	0.186	lb ai/a	3.5	oz/a	PRE	A	0	0	0	89	84	78	98	98	97
5	KIH-485	85	WG	0.287	lb ai/a	5.4	oz/a	PRE	A	0	0	0	83	85	80	98	98	98
6	DUAL II MAGNUM	7.64	EC	1.27	lb ai/a	1.33	pt/a	PRE	A	0	0	0	91	91	87	98	98	97
7	HARNESS	7	EC	1.55	lb ai/a	1.77	pt/a	PRE	A	0	0	0	98	98	97	99	99	98
8	HARNESS	7	EC	1.99	lb ai/a	2.27	pt/a	PRE	A	0	0	0	94	93	90	99	99	99
9	KIH-485/ATRAZINE	57.8	WG	1.1	lb ai/a	1.9	lb/a	PRE	A	0	0	0	81	78	67	97	98	96
10	BICEP II MAGNUM	5.5	L	2.19	lb ai/a	1.6	qt/a	PRE	A	0	0	0	94	89	86	99	99	98
LSD (P=.05)										0.0	0.0	0.0	17.7	17.1	23.7	3.5	1.9	8.1
Replicate F										0.000	0.000	0.000	0.875	0.831	1.273	1.381	1.374	0.840
Replicate Prob(F)										1.0000	1.0000	1.0000	0.4338	0.4518	0.3040	0.2766	0.2784	0.4478
Treatment F										0.000	0.000	0.000	22.868	23.692	11.686	702.801	2424.626	127.021
Treatment Prob(F)										1.0000	1.0000	1.0000	0.0001	0.0001	0.0001	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 (applied 2,4-D at 0.5 lbai/A on 6-8-06 to 8 inch corn at V3).
5. Mixing instructions: Make certain that you are using the correct KIH formulations.
6. DAP = Days after planting.
7. Not harvested.