2008 KIH-485 applied Early Pre Plant in Soybean

Trial ID: 37 08 KIH Soybean2EPP Protocol ID: 08 KIH Soybean 2 EPP
Location: Concord, NE Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

General Trial Information

Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

Trial Location

City: Concord
State/Prov.: NE
Postal Code: 68728
Country: USA

Cooperator/Landowner

Cooperator: Haskell Agricultural Laboratory Country: USA
Organization: University of Nebraska Phone No: 402-584-2261
Address 1: 57905 866 RD Fax No: 402-584-3859
City: Concord
State/Prov: NE
Postal Code: 68728

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: Kruger K245 RR SCN LINO Description: Rows 1 2 3 odd 4 5 6 on even
BBCH Scale: BSOY Planting Date: 06-01-08
Planting Method: seeded Rate, Unit: 196000 s/a
Depth, Unit: 1.25 in
Row Spacing, Unit: 30 in

Crop 2: GLXMA Glycine max Soybean
Variety: Asgrow DKB 27-52 RR Description: Rows 4 5 6 odd 1 2 3 on even
BBCH Scale: BSOY Planting Date: 06-01-08
Planting Method: seeded Rate, Unit: 196000 s/a
Depth, Unit: 1.25 in
Row Spacing, Unit: 30 in

Pest Description

Pest 1 Type: W Code: ERICA Erigeron canadensis L.
Common Name: Horseweed

Pest 2 Type: W Code: THLAR Thlaspi arvense L.
Common Name: Pennycress, field

Pest 3 Type: W Code: LACSE Lactuca serriola L./Torn.
Common Name: Lettuce, prickly

Site and Design

Plot Width, Unit: 10 FT Site Type: FIELD
Plot Length, Unit: 30 FT Tillage Type: NO-TILL
Replications: 3 Study Design: Randomized Complete Block

	Previous Crops	Previous Pesticides	Year
1.	Corn, field	glyphosate	2007

Maintenance

No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Tank Mix
1.	05-20-08	glyphosate	5.5	lbai/ga	SL	32	oz/A	y

Comment: glyphosate added to each KIH/standard treatment as tankmix. Treatment 1 the nontreated check also had glyphosate applied.

Soil Description

% Sand: 16 % OM: 2.7 Texture: Silt Loam
% Silt: 58 pH: 6.1
% Clay: 26 CEC: 18.8 Fert. Level: EXCELLENT
Analyzed By:
Midwest labs

Application Description

	A
Application Date:	05-20-08
Time of Day:	11 am
Application Method:	spray
Application Timing:	BURNDOWN
Application Placement:	foliar
Applied By:	AD
Air Temperature, Unit:	61 F
% Relative Humidity:	44
Wind Velocity, Unit:	5 mph
Wind Direction:	NNW
Dew Presence (Y/N):	n
Soil Temperature, Unit:	52 F
Soil Moisture:	ADEQUATE
% Cloud Cover:	10

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	GLXMA BSOY
Crop 2 Code, BBCH Scale:	GLXMA BSOY

Pest Stage At Each Application

	A
Pest 1 Code, Disc., Scale:	ERICA W
Diameter, Unit:	4 in
Height, Unit:	2.5 in
Height Minimum, Maximum:	2 3
Density, Unit:	25 m2
Pest 2 Code, Disc., Scale:	THLAR W
Height, Unit:	12 in
Density, Unit:	3 m2
Pest 3 Code, Disc., Scale:	LACSE W
Diameter, Unit:	8 in
Height, Unit:	6 in
Density, Unit:	0.07 m2

Application Equipment

	A
Appl. Equipment:	backpack
Operating Pressure, Unit:	20 psi
Nozzle Type:	Turbo Tee
Nozzle Size:	11003
Nozzle Spacing, Unit:	20 IN
Boom Length, Unit:	10 FT
Boom Height, Unit:	12 IN
Ground Speed, Unit:	2.7 MPH
Carrier:	WATER
Spray Volume, Unit:	20 GPA
Mix Size, Unit:	1.8 Liters
Propellant:	co2

Northeast Research & Extension Center

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Description							Soybean	Soybean	Greenfoxtail	Velvetleaf	Velvetleaf	Waterhemp	Waterhemp	Marestail	Marestail	Lambsquarter
Rating Date							06-10-08	08-06-08	07-03-08	07-03-08	08-06-08	07-03-08	08-06-08	07-03-08	08-06-08	08-06-08
Rating Data Type							Stunting	Stunting	Control	Control	Control	Control	Control	Control	Control	Control
Rating Unit							Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Days After First/Last Applic.							21 21	78 78	44 44	44 44	78 78	44 44	78 78	44 44	78 78	78 78
Trt-Eval Interval							21 DA-A	78 DA-A	44 DA-A	44 DA-A	78 DA-A	44 DA-A	78 DA-A	44 DA-A	78 DA-A	78 DA-A
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage										
1	Nontreated Check	22	oz/a	1060	g a/ha	EPP	0.0 c	0.0 b	0.0 e	0.0 d	0.0 e	0.0 d	0.0 e	90.0 a	71.7 e	0.0 e
2	KIH-485	2.1	oz/a	125	g a/ha	EPP	0.0 c	0.0 b	66.7 bc	63.3 b	73.3 d	70.0 b	76.7 c	70.0 bcd	75.0 cde	73.3 c
3	KIH-485	2.8	oz/a	166	g a/ha	EPP	1.7 c	0.0 b	65.0 c	51.7 bc	78.3 cd	68.3 b	78.3 c	76.7 abc	85.0 abc	88.3 ab
4	KIH-485	3.5	oz/a	209	g a/ha	EPP	1.7 c	0.0 b	79.0 bc	83.3 a	94.7 a	91.0 a	95.0 ab	87.3 ab	90.0 ab	93.3 ab
5	KIH-485	5.6	oz/a	332	g a/ha	EPP	6.7 b	0.0 b	83.3 ab	85.3 a	93.0 ab	90.0 a	88.3 b	92.3 a	88.3 ab	93.0 ab
6	Dual II Magnum	1.33	pt/a	1423	g a/ha	EPP	0.0 c	0.0 b	61.7 c	65.0 b	84.0 bc	55.0 b	78.3 c	60.0 cd	83.3 bcd	81.7 bc
7	Outlook	18.2	oz/a	957	g a/ha	EPP	0.0 c	0.0 b	40.0 d	36.7 c	79.3 cd	35.0 c	45.0 d	56.7 d	73.3 de	60.0 d
8	KIH-485	8.4	oz/a	500	g a/ha	EPP	28.3 a	3.3 a	97.7 a	94.3 a	97.7 a	97.7 a	97.7 a	91.0 a	95.0 a	94.7 a
LSD (P=.05)							4.73	1.79	18.23	15.25	9.19	16.27	9.03	19.55	10.49	12.71
Standard Deviation							2.70	1.02	10.41	8.71	5.25	9.29	5.16	11.16	5.99	7.26
CV							56.35	244.95	16.88	14.52	6.99	14.66	7.38	14.31	7.24	9.94
Grand Mean							4.79	0.42	61.67	59.96	75.04	63.38	69.92	78.0	82.71	73.04
Replicate F							1.000	1.000	1.103	8.439	2.932	4.733	0.096	2.283	0.203	0.703
Replicate Prob(F)							0.3927	0.3927	0.3591	0.0039	0.0864	0.0269	0.9094	0.1386	0.8184	0.5116
Treatment F							39.327	4.000	25.201	37.411	108.307	37.778	119.836	4.990	6.104	57.711
Treatment Prob(F)							0.0001	0.0131	0.0001	0.0001	0.0001	0.0001	0.0001	0.0052	0.0021	0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Additional Treatment Information
Rate Unit
OZ/A = Ounces Product per Acre (Metric=ML-G/HA)|O
PT/A = Pints Product per Acre (Metric=L/HA)|P
Other Rate Unit
G A/HA = Grams Active Ingredient per Hectare