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KEYSTONE NXT FOR WEED CONTROL IN FIELD CORN
 Trial ID: CN-07-15 Study Dir.: JOHN RICHBURG
 Location: PONDER FARM Investigator: Eric P. Prostko

Reps: 4 Plots: 5 by 25 feet
 Spray vol: 15 GAL/AC Mix Size: 1.5 liters (calculated mix size .65176)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Stg	Appl Code	Amt Product to Measure	Rep			
								1	2	3	4
1	NTC							101	207	301	402
2	KEYSTONE NXT	5.5 L		45.0 oz/a	PRE	A	35.15 ml/mx	102	210	305	404
3	KEYSTONE NXT	5.5 L		45.0 oz/a	PRE	A	35.15 ml/mx	103	204	307	403
	ROUNDUP WMAX	5.5 SL		32.0 oz/a	POST	B	25.0 ml/mx				
	ATRAZINE	4 L		52.0 oz/a	POST	B	40.62 ml/mx				
4	KEYSTONE NXT	5.5 L		45.0 oz/a	POST	B	35.15 ml/mx	104	203	302	406
	ROUNDUP WMAX	5.5 SL		32.0 oz/a	POST	B	25.0 ml/mx				
5	KEYSTONE NXT	5.5 L		45.0 oz/a	POST	B	35.15 ml/mx	105	208	310	401
	ROUNDUP WMAX	5.5 SL		32.0 oz/a	POST	B	25.0 ml/mx				
	ATRAZINE	4 L		36.0 oz/a	POST	B	28.12 ml/mx				
6	KEYSTONE NXT	5.5 L		45.0 oz/a	POST	B	35.15 ml/mx	106	202	304	407
	LIBERTY	2.34 SL		29.0 oz/a	POST	B	22.65 ml/mx				
	ATRAZINE	4 L		36.0 oz/a	POST	B	28.12 ml/mx				
7	ATRAZINE	4 L		36.0 oz/a	PRE	A	28.12 ml/mx	107	209	306	410
	ROUNDUP WMAX	5.5 SL		32.0 oz/a	POST	B	25.0 ml/mx				
	ATRAZINE	4 L		48.0 oz/a	POST	B	37.5 ml/mx				
	PROWL H20	3.8 SC		32.0 oz/a	POST	B	25.0 ml/mx				
8	ATRAZINE	4 L		32.0 oz/a	PRE	A	25.0 ml/mx	108	205	309	408
	LIBERTY	2.34 SL		29.0 oz/a	POST	B	22.65 ml/mx				
	ATRAZINE	4 L		48.0 oz/a	POST	B	37.5 ml/mx				
	PROWL H20	3.8 SC		32.0 oz/a	POST	B	25.0 ml/mx				
9	ATRAZINE	4 L		32.0 oz/a	PRE	A	25.0 ml/mx	109	206	303	405
	STEADFAST Q	37.7 WG		1.5 oz/a	POST	B	1.123 g/mx				
	ATRAZINE	4 L		48.0 oz/a	POST	B	37.5 ml/mx				
	COC			1.0 % v/v	POST	B	15.0 ml/mx				
10	ATRAZINE	4 L		32.0 oz/a	PRE	A	25.0 ml/mx	110	201	308	409
	REVULIN Q	51.2 WG		4.0 oz/a	POST	B	2.996 g/mx				
	ATRAZINE	4 L		48.0 oz/a	POST	B	37.5 ml/mx				
	COC			1.0 % v/v	POST	B	15.0 ml/mx				

Sort Order: Treatment

Trial Comments

KEYSTONE NXT = ACETOCHLOR (3.1 LB) + ATRAZINE (2.5 LB)
 STEADFAST Q = NICOSULFURON (25.2%) + RIMSULFURON (12.5%) + ISOXADIFEN
 REVULIN Q = NICOSULFURON (14.4%) + MESOTRIONE (36.8%) + ISOXADIFEN

COC = RELIABLE
 ATRAZINE = DREXEL ATRAZINE 4L

ANNUAL GRASS = CRABGRASS = T. PANICUM + CROWFOOTGRASS

HARVEST MOISTURE: 17.1%
 YIELDS ADJUSTED TO 15.5% MOISTURE.

MISSING YIELD DATA IN PLOT 201 DUE TO COMBINE PROBLEMS.

SUMMARY:

1) PRE APPLICATIONS OF KEYSTONE NXT PROVIDED EXCELLENT CONTROL OF PALMER AMARANTH AND ANNUAL GRASSES AT 19 DAT.

2) POST APPLICATIONS OF KEYSTONE CAUSED CORN STUNTING AND WHORL CHLOROSIS.

3) AT 30 DAYS AFTER THE POSTS WERE APPLIED, ALL TREATMENTS PROVIDED > 95% CONTROL OF PALMER AMARANTH EXCEPT THE FOLLOWING:

ATRAZINE - PRE FB STEADFAST Q + ATRAZINE - POST = 76% CONTROL

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ATRAZINE - PRE FB REVULIN Q + ATRAZINE - POST = 85% CONTROL

4) AT 30 DAYS AFTER THE POSTS WERE APPLIED, ALL TREATMENTS PROVIDED > 94% CONTROL OF ANNUAL GRASSES EXCEPT THE FOLLOWING:

KEYSTONE NXT - PRE = 89%

KEYSTONE NXT - PRE FB ROUNDUP + ATRAZINE - POST = 85%

ATRAZINE - PRE FB STEADFAST Q + ATRAZINE - POST = 87% CONTROL

ATRAZINE - PRE FB REVULIN Q + ATRAZINE - POST = 78% CONTROL

5) ALTHOUGH POPULATIONS WERE LIGHT, WILD RADISH CONTROL WAS EXCELLENT WITH ALL TREATMENTS (>95%).

6) ONLY 4 TREATMENTS RESULTED IN CORN YIELDS GREATER THAN THE NTC INCLUDING THE FOLLOWING:

A) KEYSTONE NXT - PRE

B) KEYSTONE NXT - PRE FB ROUNDUP + ATRAZINE - POST

C) KEYSTONE NXT + ROUNDUP - POST

D) ATRAZINE - PRE FB LIBERTY + ATRAZINE + PROWL - POST

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KEYSTONE NXT FOR WEED CONTROL IN FIELD CORN

Trial ID: CN-07-15 Study Dir.: JOHN RICHBURG
 Location: PONDER FARM Investigator: Eric P. Prostko

GENERAL TRIAL INFORMATION

Study Director: JOHN RICHBURG **Title:** _____
Affiliation: _____ **Postal Code:** _____

Investigator: Eric P. Prostko **Title:** _____
Affiliation: _____ **Postal Code:** _____

Trial Status: _____ **Initiation Date:** _____ **Country:** _____
City: _____ **State/Prov.:** _____ **Postal Code:** _____
Conducted Under GLP (Y/N): N **Conducted Under GEP (Y/N):** N

Objective:

Conclusions:

CROP AND PEST DESCRIPTION

Weed 1: AMAPA PALMER AMARANTH **2:** AGRASS CRABGRASS/TPANICUM/CROW
Weed 3: RAPRA WILD RADISH **4:** _____

Crop 1: ZEAMA FIELD CORN **Variety:** PIONEER 1794VYHR **Planting Date:** Mar-18-15
Planting Method: MONOSEM **Rate:** 34848 S/A **Depth:** 2 IN
Perennial Age: _____ **Row Spacing:** 30 IN **Seed Bed:** _____
Soil Temperature: _____ **Soil Moisture:** NORMAL **Emergence Date:** _____

Plot Width, Unit: 5 FT **Plot Length, Unit:** 25 FT **Reps:** 4

Site Type: _____
Tillage Type: CONVENTIONAL **Study Design:** RACOBL
Trial Initiation Comments: PONCH/VOTIVO SEED TRT; AGRISURE VIPTERA

Previous: Crops	Pesticides	Year
1. PEANUT	2014	_____

MAINTENANCE

Field Prep./Maintenance: _____

	Form	Form	Form	Rate				
No.	Date	Treatment Name	Conc	Unit	Type	Rate	Unit	
1.	_____	_____	_____	_____	_____	_____	_____	_____

SOIL DESCRIPTION

Texture: SAND **% OM:** 0.78 **% Sand:** 94 **% Silt:** 4 **% Clay:** 2
pH: 6.0 **CEC:** 3.3 **Soil Name:** TIFTON **Fertility Level:** GOOD

MOISTURE CONDITIONS

On:	Date	Time	Amount	Unit	Type	Interval	Unit
1.	Mar-19-15	_____	0.26	IN	RAINFALL	_____	_____
2.	Mar-22-15	_____	0.30	IN	RAINFALL	_____	_____
3.	Mar-23-15	_____	0.25	IN	RAINFALL	_____	_____
4.	Mar-27-15	_____	0.3	IN	SPRINKLER - LATERAL MOVE	_____	_____
5.	Apr-2-15	_____	0.4	IN	SPRINKLER - LATERAL MOVE	_____	_____
6.	Apr-7-15	_____	0.5	IN	SPRINKLER - LATERAL MOVE	_____	_____
7.	Apr-10-15	_____	1.68	IN	RAINFALL	_____	_____
8.	Apr-11-15	_____	0.02	IN	RAINFALL	_____	_____
9.	Apr-12-15	_____	0.86	IN	RAINFALL	_____	_____
10.	Apr-13-15	_____	0.46	IN	RAINFALL	_____	_____
11.	Apr-14-15	_____	0.12	IN	RAINFALL	_____	_____
12.	Apr-15-15	_____	0.30	IN	RAINFALL	_____	_____
13.	Apr-17-15	_____	0.14	IN	RAINFALL	_____	_____
14.	Apr-19-15	_____	1.37	IN	RAINFALL	_____	_____
15.	Apr-20-15	_____	0.02	IN	RAINFALL	_____	_____
16.	May-11-15	_____	0.50	IN	SPRINKLER - LATERAL MOVE	_____	_____
17.	May-12-15	_____	0.50	IN	SPRINKLER - LATERAL MOVE	_____	_____
18.	May-14-15	_____	0.50	IN	SPRINKLER - LATERAL MOVE	_____	_____
19.	May-19-15	_____	0.75	IN	SPRINKLER - LATERAL MOVE	_____	_____
20.	May-22-15	_____	0.75	IN	SPRINKLER - LATERAL MOVE	_____	_____
21.	May-26-15	_____	0.75	IN	SPRINKLER - LATERAL MOVE	_____	_____
22.	Jun-2-15	_____	0.75	IN	SPRINKLER - LATERAL MOVE	_____	_____
23.	_____	_____	_____	_____	_____	_____	_____

Overall Moisture Conditions: _____
Closest Weather Station: _____ **Distance:** _____ **Unit:** _____

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		APPLICATION DESCRIPTION					
		A	B	C	D	E	F
Application Date:	Mar-18-15	Apr-8-15		_____	_____	_____	_____
Time of Day:	7:09 PM	8:20 AM		_____	_____	_____	_____
Application Method:	BROADCAST	BROADCAST		_____	_____	_____	_____
Application Timing:	PRE	POST		_____	_____	_____	_____
Applic. Placement:	SOIL	FOLIAGE		_____	_____	_____	_____
Air Temp., Unit:	74 F	F	78 F	_____	_____	_____	_____
% Relative Humidity:	44		64	_____	_____	_____	_____
Wind Velocity, Unit:	4 MPH		2 MPH	_____	_____	_____	_____
Dew Presence (Y/N):	N		Y	_____	_____	_____	_____
Water Hardness:	--		--	_____	_____	_____	_____
Soil Temp., Unit:	73 F	F	70 F	_____	_____	_____	_____
Soil Moisture:	OPTIMUM		WET	_____	_____	_____	_____
% Cloud Cover:	85		10	_____	_____	_____	_____

		CROP STAGE AT EACH APPLICATION					
		A	B	C	D	E	F
Crop 1 Stage:	ZEAMA	4-5 LF		_____	_____	_____	_____
Stage Scale:	_____	V3-V4		_____	_____	_____	_____
Height, Unit:	_____	4	IN	_____	_____	_____	_____

		WEED STAGE AT EACH APPLICATION					
		A	B	C	D	E	F
Weed 1 Stage:	AMAPA	1-2"		_____	_____	_____	_____
Stage Scale:	_____	4-5 LF		_____	_____	_____	_____
Density, Unit:	_____	_____	_____	_____	_____	_____	_____
Weed 2 Stage:	AGRASS	1-2"		_____	_____	_____	_____
Stage Scale:	_____	1-4 LF		_____	_____	_____	_____
Density, Unit:	_____	_____	_____	_____	_____	_____	_____
Weed 3 Stage:	RAPRA	1-2"		_____	_____	_____	_____
Stage Scale:	_____	3-4 LEAF		_____	_____	_____	_____
Density, Unit:	_____	_____	_____	_____	_____	_____	_____

		APPLICATION EQUIPMENT					
		A	B	C	D	E	F
Appl. Equipment:	BACKPACK	BACKPACK		_____	_____	_____	_____
Operating Pressure:	38	38		_____	_____	_____	_____
Nozzle Type:	AIXR	FLAT FAN		_____	_____	_____	_____
Nozzle Size:	11002	11002DG		_____	_____	_____	_____
Nozzle Spacing, Unit:	20	IN	20	IN	_____	_____	_____
Nozzles/Row:	_____	_____	_____	_____	_____	_____	_____
Band Width, Unit:	_____	_____	_____	_____	_____	_____	_____
Boom Length, Unit:	60	IN	60	IN	_____	_____	_____
Boom Height, Unit:	20	IN	20	IN	_____	_____	_____
Ground Speed, Unit:	3.5	MPH	3.5	MPH	_____	_____	_____
Incorporation Equip.:	_____	_____	_____	_____	_____	_____	_____
Hours to Incorp.:	_____	_____	_____	_____	_____	_____	_____
Incorp. Depth, Unit:	_____	_____	_____	_____	_____	_____	_____
Carrier:	WATER	WATER		_____	_____	_____	_____
Spray Volume, Unit:	15	GPA	15	GPA	_____	_____	_____
Spray pH:	_____	_____	_____	_____	_____	_____	_____
Propellant:	CO2	CO2		_____	_____	_____	_____
Tank Mix (Y/N):	_____	_____	_____	_____	_____	_____	_____

Trt No	Treatment Application Comment
_____	_____

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KEYSTONE NXT FOR WEED CONTROL IN FIELD CORN						
Trial ID: CN-07-15 Study Dir.: JOHN RICHBURG Location: PONDER FARM Investigator: Eric P. Prostko						
Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.	----- ZEAMA	----- ZEAMA	AMAPA ----- CONTROL	ANNUAL GRASS CONTROL	----- ZEAMA	----- ZEAMA WHORL - CHLORSIS
	STUNTING	STUNTING	CONTROL	CONTROL	STUNTING	CONTROL
	PERCENT Mar-31-15	PERCENT Apr-6-15	PERCENT Apr-6-15	PERCENT Apr-6-15	PERCENT Apr-17-15	PERCENT Apr-17-15
Trt Treatment No. Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	
	1	2	3	4	5	6
1 NTC	0.0 a	0.0 a	0.0 c	0.0 b	0.0 b	0.0 e
2 KEYSTONE NXT	5.5 L	45.0 oz/a	PRE A	0.0 a	0.0 a	99.0 a
3 KEYSTONE NXT	5.5 L	45.0 oz/a	PRE A	0.0 a	3.8 a	99.0 a
ROUNDUP WMAX	5.5 SL	32.0 oz/a	POST B	94.8 a	2.5 b	5.0 cde
ATRAZINE	4 L	52.0 oz/a	POST B	0.0 a	0.0 a	0.0 c
4 KEYSTONE NXT	5.5 L	45.0 oz/a	POST B	0.0 a	0.0 a	0.0 b
ROUNDUP WMAX	5.5 SL	32.0 oz/a	POST B	10.0 a	8.8 bc	
5 KEYSTONE NXT	5.5 L	45.0 oz/a	POST B	0.0 a	0.0 a	0.0 c
ROUNDUP WMAX	5.5 SL	32.0 oz/a	POST B	0.0 b	11.3 a	11.3 ab
ATRAZINE	4 L	36.0 oz/a	POST B	0.0 a	0.0 a	0.0 c
6 KEYSTONE NXT	5.5 L	45.0 oz/a	POST B	0.0 a	0.0 a	0.0 c
LIBERTY	2.34 SL	29.0 oz/a	POST B	0.0 b	12.5 a	8.8 bc
ATRAZINE	4 L	36.0 oz/a	POST B	0.0 a	0.0 a	0.0 c
7 ATRAZINE	4 L	36.0 oz/a	PRE A	0.0 a	1.3 a	98.0 ab
ROUNDUP WMAX	5.5 SL	32.0 oz/a	POST B	23.8 b	1.3 b	2.5 de
ATRAZINE	4 L	48.0 oz/a	POST B	0.0 a	3.8 a	98.0 ab
PROWL H20	3.8 SC	32.0 oz/a	POST B	0.0 b	16.3 b	10.0 a
8 ATRAZINE	4 L	32.0 oz/a	PRE A	0.0 a	3.8 a	95.5 b
LIBERTY	2.34 SL	29.0 oz/a	POST B	0.0 b	1.3 b	3.8 cde
ATRAZINE	4 L	48.0 oz/a	POST B	0.0 a	3.8 a	95.5 b
PROWL H20	3.8 SC	32.0 oz/a	POST B	16.3 b	10.0 a	16.3 a
9 ATRAZINE	4 L	32.0 oz/a	PRE A	0.0 a	3.8 a	95.5 b
STEADFAST Q	37.7 WG	1.5 oz/a	POST B	16.3 b	10.0 a	16.3 a
ATRAZINE	4 L	48.0 oz/a	POST B	0.0 a	2.5 a	99.0 a
COC		1.0 % v/v	POST B	0.0 b	3.8 b	7.5 bcd
10 ATRAZINE	4 L	32.0 oz/a	PRE A	0.0 a	2.5 a	99.0 a
REVULIN Q	51.2 WG	4.0 oz/a	POST B	0.0 b	3.8 b	7.5 bcd
ATRAZINE	4 L	48.0 oz/a	POST B	0.0 b	3.8 b	7.5 bcd
COC		1.0 % v/v	POST B	0.0 b	3.8 b	7.5 bcd
LSD P=.10	.	3.19	2.83	22.27	3.90	5.06
Standard Deviation	0.00	2.65	2.35	18.49	3.23	4.21
CV	0.0	176.85	3.99	79.8	61.61	64.7
Grand Mean	0.00	1.50	58.85	23.18	5.25	6.50
Bartlett's X2	0.0	1.514	6.319	22.846	4.568	12.232
P(Bartlett's X2)	.	0.824	0.042*	0.001*	0.712	0.141
Replicate F	0.000	5.211	1.322	0.740	1.354	0.660
Replicate Prob(F)	1.0000	0.0057	0.2878	0.5376	0.2779	0.5840
Treatment F	0.000	1.737	1858.996	17.988	9.796	5.639
Treatment Prob(F)	1.0000	0.1288	0.0001	0.0001	0.0001	0.0002

Means followed by same letter do not significantly differ (P=.10, Duncan's New MRT)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Missing data estimates are included in columns: Yates=16,17
 Could not calculate LSD (% mean diff) for columns 1,7,9 because error mean square = 0.

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.						AMAPA ----- CONTROL PERCENT Apr-17-15	ANNUAL GRASS CONTROL PERCENT Apr-17-15	RAPRA ----- CONTROL PERCENT Apr-17-15	----- ZEAMA PLANT - STUNTING PERCENT May-8-15	AMAPA ----- CONTROL PERCENT May-8-15	ANNUAL GRASS CONTROL PERCENT May-8-15	RAPRA ----- CONTROL PERCENT May-8-15	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Grow Stg	Appl Code	7	8	9	10	11	12	13
1	NTC						0.0 b	0.0 b	0.0 b	0.0 c	0.0 d	0.0 f	0.0 c
2	KEYSTONE NXT	5.5 L		45.0 oz/a	PRE	A	99.0 a	99.0 a	99.0 a	0.0 c	98.0 a	88.8 bcd	99.0 a
3	KEYSTONE NXT ROUNDUP WMAX ATRAZINE	5.5 L 5.5 SL 4 L		45.0 oz/a 32.0 oz/a 52.0 oz/a	PRE POST POST	A B B	99.0 a	98.0 a	99.0 a	3.8 c	99.0 a	84.8 de	99.0 a
4	KEYSTONE NXT ROUNDUP WMAX	5.5 L 5.5 SL		45.0 oz/a 32.0 oz/a	POST POST	B B	99.0 a	99.0 a	99.0 a	11.3 b	99.0 a	94.3 abc	98.0 b
5	KEYSTONE NXT ROUNDUP WMAX ATRAZINE	5.5 L 5.5 SL 4 L		45.0 oz/a 32.0 oz/a 36.0 oz/a	POST POST POST	B B B	99.0 a	99.0 a	99.0 a	10.0 b	98.0 a	98.0 ab	99.0 a
6	KEYSTONE NXT LIBERTY ATRAZINE	5.5 L 2.34 SL 4 L		45.0 oz/a 29.0 oz/a 36.0 oz/a	POST POST POST	B B B	99.0 a	99.0 a	99.0 a	11.3 b	96.8 a	98.0 ab	99.0 a
7	ATRAZINE ROUNDUP WMAX ATRAZINE PROWL H20	4 L 5.5 SL 4 L 3.8 SC		36.0 oz/a 32.0 oz/a 48.0 oz/a 32.0 oz/a	PRE POST POST POST	A B B B	99.0 a	99.0 a	99.0 a	1.3 c	96.8 a	98.0 ab	99.0 a
8	ATRAZINE LIBERTY ATRAZINE PROWL H20	4 L 2.34 SL 4 L 3.8 SC		32.0 oz/a 29.0 oz/a 48.0 oz/a 32.0 oz/a	PRE POST POST POST	A B B B	99.0 a	99.0 a	99.0 a	2.5 c	98.0 a	99.0 a	99.0 a
9	ATRAZINE STEADFAST Q ATRAZINE COC	4 L 37.7 WG 4 L		32.0 oz/a 1.5 oz/a 48.0 oz/a 1.0 % v/v	PRE POST POST POST	A B B B	99.0 a	99.0 a	99.0 a	17.5 a	76.3 c	87.3 cd	99.0 a
10	ATRAZINE REVULIN Q ATRAZINE COC	4 L 51.2 WG 4 L		32.0 oz/a 4.0 oz/a 48.0 oz/a 1.0 % v/v	PRE POST POST POST	A B B B	99.0 a	98.0 a	99.0 a	3.8 c	85.0 b	77.5 e	99.0 a
LSD P=.10							1.02			5.78	7.58	8.46	0.76
Standard Deviation						0.00	0.84	0.00		4.80	6.29	7.03	0.63
CV						0.0	0.95	0.0		78.35	7.43	8.51	0.71
Grand Mean						89.10	88.90	89.10		6.13	84.68	82.55	89.00
Bartlett's X2						0.0	0.0	0.0		12.341	23.147	20.764	0.0
P(Bartlett's X2)						.	.	.		0.055	0.001*	0.004*	.
Replicate F						0.000	2.250	0.000		0.317	2.160	4.313	1.000
Replicate Prob(F)						1.0000	0.1053	1.0000		0.8133	0.1160	0.0131	0.4079
Treatment F						0.000	5489.313	0.000		6.178	95.092	72.273	9780.001
Treatment Prob(F)						1.0000	0.0001	1.0000		0.0001	0.0001	0.0001	0.0001

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.						AMAPA ----- CONTROL PERCENT Jun-4-15	ANNUAL GRASS CONTROL PERCENT Jun-4-15	----- ZEAMA PLOT - YIELD LBS/PLOT Aug-14-15	----- ZEAMA PLOT - YIELD BU/A Aug-14-15 TY1 - 0	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Grow Stg	Appl Code	14	15	16	17
1	NTC						0.0 c	0.0 d	43.3 c	264 c
2	KEYSTONE NXT	5.5 L		45.0 oz/a	PRE	A	95.8 a	75.0 c	50.8 a	310 a
3	KEYSTONE NXT	5.5 L		45.0 oz/a	PRE	A	95.5 a	78.5 c	49.3 ab	301 ab
	ROUNDUP WMAX	5.5 SL		32.0 oz/a	POST	B				
	ATRAZINE	4 L		52.0 oz/a	POST	B				
4	KEYSTONE NXT	5.5 L		45.0 oz/a	POST	B	95.5 a	93.5 ab	49.0 ab	299 ab
	ROUNDUP WMAX	5.5 SL		32.0 oz/a	POST	B				
5	KEYSTONE NXT	5.5 L		45.0 oz/a	POST	B	94.8 a	98.0 a	47.0 abc	287 abc
	ROUNDUP WMAX	5.5 SL		32.0 oz/a	POST	B				
	ATRAZINE	4 L		36.0 oz/a	POST	B				
6	KEYSTONE NXT	5.5 L		45.0 oz/a	POST	B	95.5 a	94.5 a	43.3 c	264 c
	LIBERTY	2.34 SL		29.0 oz/a	POST	B				
	ATRAZINE	4 L		36.0 oz/a	POST	B				
7	ATRAZINE	4 L		32.0 oz/a	PRE	A	94.5 a	98.0 a	46.8 abc	285 abc
	ROUNDUP WMAX	5.5 SL		32.0 oz/a	POST	B				
	ATRAZINE	4 L		48.0 oz/a	POST	B				
	PROWL H20	3.8 SC		32.0 oz/a	POST	B				
8	ATRAZINE	4 L		32.0 oz/a	PRE	A	93.5 a	98.0 a	48.8 ab	298 ab
	LIBERTY	2.34 SL		29.0 oz/a	POST	B				
	ATRAZINE	4 L		48.0 oz/a	POST	B				
	PROWL H20	3.8 SC		32.0 oz/a	POST	B				
9	ATRAZINE	4 L		32.0 oz/a	PRE	A	76.0 b	82.3 bc	45.3 bc	276 bc
	STEADFAST Q	37.7 WG		1.5 oz/a	POST	B				
	ATRAZINE	4 L		48.0 oz/a	POST	B				
	COC			1.0 % v/v	POST	B				
10	ATRAZINE	4 L		32.0 oz/a	PRE	A	83.5 b	70.0 c	46.8 abc	286 abc
	REVULIN Q	51.2 WG		4.0 oz/a	POST	B				
	ATRAZINE	4 L		48.0 oz/a	POST	B				
	COC			1.0 % v/v	POST	B				
LSD P=.10						8.07	11.36	3.96	24.2	
Standard Deviation						6.70	9.43	3.29	20.1	
CV						8.12	11.97	6.99	6.99	
Grand Mean						82.45	78.78	47.00	286.9	
Bartlett's X2						13.404	26.814	12.455	12.455	
P(Bartlett's X2)						0.099	0.001*	0.132	0.132	
Replicate F						7.971	2.590	11.193	11.193	
Replicate Prob(F)						0.0006	0.0735	0.0001	0.0001	
Treatment F						78.749	39.395	2.364	2.364	
Treatment Prob(F)						0.0001	0.0001	0.0418	0.0418	

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KEYSTONE NXT FOR WEED CONTROL IN FIELD CORN

Trial ID: CN-07-15 Study Dir.: JOHN RICHBURG
Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code

AMAPA = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS.
RAPRA = RADISH, WILD / RAPHANUS RAPHANISTRUM L.

Part Rated

PLANT = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)

PRM Data Type

TY1 = 6.105028*[16]

University of Georgia

KEYSTONE NXT FOR WEED CONTROL IN FIELD CORN													
Trial ID: CN-07-15 Study Dir.: JOHN RICHBURG Location: PONDER FARM Investigator: Eric P. Probstko													
Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	PRM Data Type	# Subsamples, Dec.	----- ZEAMA	----- ZEAMA	AMAPA -----	ANNUAL GRASS	----- ZEAMA	----- ZEAMA WHORL - CHLORSIS
								STUNTING PERCENT Mar-31-15	STUNTING PERCENT Apr-6-15	CONTROL PERCENT Apr-6-15	CONTROL PERCENT Apr-6-15	STUNTING PERCENT Apr-17-15	PERCENT Apr-17-15
Trt	Treatment	Form	Form	Rate	Grow	Appl		1	2	3	4	5	6
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot					
1	NTC							101	0.0	0.0	0.0	0.0	0.0
								207	0.0	0.0	0.0	0.0	0.0
								301	0.0	0.0	0.0	0.0	0.0
								402	0.0	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0	0.0
2	KEYSTONE NXT	5.5 L		45.0 oz/a		PRE	A	102	0.0	0.0	99.0	95.0	0.0
								210	0.0	0.0	99.0	99.0	0.0
								305	0.0	0.0	99.0	95.0	0.0
								404	0.0	0.0	99.0	99.0	0.0
								Mean =	0.0	0.0	99.0	97.0	0.0
3	KEYSTONE NXT	5.5 L		45.0 oz/a		PRE	A	103	0.0	0.0	99.0	95.0	5.0
	ROUNDUP WMAX	5.5 SL		32.0 oz/a		POST	B	204	0.0	10.0	99.0	95.0	0.0
	ATRAZINE	4 L		52.0 oz/a		POST	B	307	0.0	5.0	99.0	99.0	0.0
								403	0.0	0.0	99.0	90.0	5.0
								Mean =	0.0	3.8	99.0	94.8	2.5
4	KEYSTONE NXT	5.5 L		45.0 oz/a		POST	B	104	0.0	0.0	0.0	0.0	5.0
	ROUNDUP WMAX	5.5 SL		32.0 oz/a		POST	B	203	0.0	0.0	0.0	0.0	15.0
								302	0.0	0.0	0.0	0.0	5.0
								406	0.0	0.0	0.0	0.0	15.0
								Mean =	0.0	0.0	0.0	0.0	10.0
5	KEYSTONE NXT	5.5 L		45.0 oz/a		POST	B	105	0.0	0.0	0.0	0.0	5.0
	ROUNDUP WMAX	5.5 SL		32.0 oz/a		POST	B	208	0.0	0.0	0.0	0.0	15.0
	ATRAZINE	4 L		36.0 oz/a		POST	B	310	0.0	0.0	0.0	0.0	10.0
								401	0.0	0.0	0.0	0.0	15.0
								Mean =	0.0	0.0	0.0	0.0	11.3
6	KEYSTONE NXT	5.5 L		45.0 oz/a		POST	B	106	0.0	0.0	0.0	0.0	10.0
	LIBERTY	2.34 SL		29.0 oz/a		POST	B	202	0.0	0.0	0.0	0.0	15.0
	ATRAZINE	4 L		36.0 oz/a		POST	B	304	0.0	0.0	0.0	0.0	10.0
								407	0.0	0.0	0.0	0.0	15.0
								Mean =	0.0	0.0	0.0	0.0	12.5
7	ATRAZINE	4 L		36.0 oz/a		PRE	A	107	0.0	0.0	99.0	0.0	0.0
	ROUNDUP WMAX	5.5 SL		32.0 oz/a		POST	B	209	0.0	0.0	99.0	0.0	5.0
	ATRAZINE	4 L		48.0 oz/a		POST	B	306	0.0	5.0	95.0	95.0	0.0
	PROWL H20	3.8 SC		32.0 oz/a		POST	B	410	0.0	0.0	99.0	0.0	0.0
								Mean =	0.0	1.3	98.0	23.8	1.3
8	ATRAZINE	4 L		32.0 oz/a		PRE	A	108	0.0	0.0	95.0	0.0	0.0
	LIBERTY	2.34 SL		29.0 oz/a		POST	B	205	0.0	10.0	99.0	0.0	0.0
	ATRAZINE	4 L		48.0 oz/a		POST	B	309	0.0	5.0	99.0	0.0	5.0
	PROWL H20	3.8 SC		32.0 oz/a		POST	B	408	0.0	0.0	99.0	0.0	0.0
								Mean =	0.0	3.8	98.0	0.0	1.3
9	ATRAZINE	4 L		32.0 oz/a		PRE	A	109	0.0	0.0	85.0	0.0	15.0
	STEADFAST Q	37.7 WG		1.5 oz/a		POST	B	206	0.0	10.0	99.0	65.0	10.0
	ATRAZINE	4 L		48.0 oz/a		POST	B	303	0.0	5.0	99.0	0.0	10.0
	COC			1.0 % v/v		POST	B	405	0.0	0.0	99.0	0.0	5.0
								Mean =	0.0	3.8	95.5	16.3	10.0
10	ATRAZINE	4 L		32.0 oz/a		PRE	A	110	0.0	0.0	99.0	0.0	0.0
	REVULIN Q	51.2 WG		4.0 oz/a		POST	B	201	0.0	10.0	99.0	0.0	5.0
	ATRAZINE	4 L		48.0 oz/a		POST	B	308	0.0	0.0	99.0	0.0	5.0
	COC			1.0 % v/v		POST	B	409	0.0	0.0	99.0	0.0	5.0
								Mean =	0.0	2.5	99.0	0.0	3.8

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.						AMAPA ----- CONTROL PERCENT Apr-17-15	ANNUAL GRASS CONTROL PERCENT Apr-17-15	RAPRA ----- CONTROL PERCENT Apr-17-15	----- ZEAMA PLANT - STUNTING PERCENT May-8-15	AMAPA ----- CONTROL PERCENT May-8-15	ANNUAL GRASS CONTROL PERCENT May-8-15	
Trt	Treatment	Form	Form	Rate	Grow	Appl	7	8	9	10	11	12
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot				
1	NTC							101	0.0	0.0	0.0	0.0
								207	0.0	0.0	0.0	0.0
								301	0.0	0.0	0.0	0.0
								402	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0
2	KEYSTONE NXT	5.5 L		45.0 oz/a		PRE	A	102	99.0	99.0	99.0	80.0
								210	99.0	99.0	99.0	90.0
								305	99.0	99.0	99.0	90.0
								404	99.0	99.0	99.0	95.0
								Mean =	99.0	99.0	99.0	88.8
3	KEYSTONE NXT	5.5 L		45.0 oz/a		PRE	A	103	99.0	99.0	99.0	75.0
	ROUNDUP WMAX	5.5 SL		32.0 oz/a		POST	B	204	99.0	99.0	99.0	95.0
	ATRAZINE	4 L		52.0 oz/a		POST	B	307	99.0	99.0	99.0	99.0
								403	99.0	95.0	99.0	70.0
								Mean =	99.0	98.0	99.0	84.8
4	KEYSTONE NXT	5.5 L		45.0 oz/a		POST	B	104	99.0	99.0	99.0	80.0
	ROUNDUP WMAX	5.5 SL		32.0 oz/a		POST	B	203	99.0	99.0	99.0	99.0
								302	99.0	99.0	99.0	99.0
								406	99.0	99.0	99.0	99.0
								Mean =	99.0	99.0	99.0	94.3
5	KEYSTONE NXT	5.5 L		45.0 oz/a		POST	B	105	99.0	99.0	99.0	99.0
	ROUNDUP WMAX	5.5 SL		32.0 oz/a		POST	B	208	99.0	99.0	99.0	99.0
	ATRAZINE	4 L		36.0 oz/a		POST	B	310	99.0	99.0	99.0	95.0
								401	99.0	99.0	99.0	99.0
								Mean =	99.0	99.0	99.0	98.0
6	KEYSTONE NXT	5.5 L		45.0 oz/a		POST	B	106	99.0	99.0	99.0	95.0
	LIBERTY	2.34 SL		29.0 oz/a		POST	B	202	99.0	99.0	99.0	99.0
	ATRAZINE	4 L		36.0 oz/a		POST	B	304	99.0	99.0	99.0	99.0
								407	99.0	99.0	99.0	99.0
								Mean =	99.0	99.0	99.0	98.0
7	ATRAZINE	4 L		36.0 oz/a		PRE	A	107	99.0	99.0	99.0	95.0
	ROUNDUP WMAX	5.5 SL		32.0 oz/a		POST	B	209	99.0	99.0	99.0	99.0
	ATRAZINE	4 L		48.0 oz/a		POST	B	306	99.0	99.0	99.0	99.0
	PROWL H20	3.8 SC		32.0 oz/a		POST	B	410	99.0	99.0	99.0	99.0
								Mean =	99.0	99.0	99.0	98.0
8	ATRAZINE	4 L		32.0 oz/a		PRE	A	108	99.0	99.0	99.0	99.0
	LIBERTY	2.34 SL		29.0 oz/a		POST	B	205	99.0	99.0	99.0	99.0
	ATRAZINE	4 L		48.0 oz/a		POST	B	309	99.0	99.0	99.0	99.0
	PROWL H20	3.8 SC		32.0 oz/a		POST	B	408	99.0	99.0	99.0	99.0
								Mean =	99.0	99.0	99.0	99.0
9	ATRAZINE	4 L		32.0 oz/a		PRE	A	109	99.0	99.0	99.0	70.0
	STEADFAST Q	37.7 WG		1.5 oz/a		POST	B	206	99.0	99.0	99.0	99.0
	ATRAZINE	4 L		48.0 oz/a		POST	B	303	99.0	99.0	99.0	95.0
	COC			1.0 % v/v		POST	B	405	99.0	99.0	99.0	85.0
								Mean =	99.0	99.0	99.0	87.3
10	ATRAZINE	4 L		32.0 oz/a		PRE	A	110	99.0	99.0	99.0	65.0
	REVULIN Q	51.2 WG		4.0 oz/a		POST	B	201	99.0	99.0	99.0	70.0
	ATRAZINE	4 L		48.0 oz/a		POST	B	308	99.0	99.0	99.0	85.0
	COC			1.0 % v/v		POST	B	409	99.0	95.0	99.0	90.0
								Mean =	99.0	98.0	99.0	77.5

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.						RAPRA ----- CONTROL PERCENT May-8-15	AMAPA ----- CONTROL PERCENT Jun-4-15	ANNUAL GRASS CONTROL PERCENT Jun-4-15	----- ZEAMA PLOT - YIELD LBS/PLOT Aug-14-15	----- ZEAMA PLOT - YIELD BU/A Aug-14-15 TY1 - 0	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code Plot	13	14	15	16	17
1	NTC					101	0.0	0.0	0.0	33.0	201
						207	0.0	0.0	0.0	40.0	244
						301	0.0	0.0	0.0	50.0	305
						402	0.0	0.0	0.0	50.0	305
						Mean =	0.0	0.0	0.0	43.3	264
2	KEYSTONE NXT	5.5 L		45.0 oz/a	PRE A	102	99.0	90.0	65.0	48.0	293
						210	99.0	99.0	65.0	49.0	299
						305	99.0	99.0	85.0	52.0	317
						404	99.0	95.0	85.0	54.0	330
						Mean =	99.0	95.8	75.0	50.8	310
3	KEYSTONE NXT	5.5 L		45.0 oz/a	PRE A	103	99.0	85.0	60.0	45.0	275
	ROUNDUP WMAX	5.5 SL		32.0 oz/a	POST B	204	99.0	99.0	90.0	49.0	299
	ATRAZINE	4 L		52.0 oz/a	POST B	307	99.0	99.0	99.0	47.0	287
						403	99.0	99.0	65.0	56.0	342
						Mean =	99.0	95.5	78.5	49.3	301
4	KEYSTONE NXT	5.5 L		45.0 oz/a	POST B	104	99.0	85.0	85.0	46.0	281
	ROUNDUP WMAX	5.5 SL		32.0 oz/a	POST B	203	95.0	99.0	95.0	49.0	299
						302	99.0	99.0	95.0	51.0	311
						406	99.0	99.0	99.0	50.0	305
						Mean =	98.0	95.5	93.5	49.0	299
5	KEYSTONE NXT	5.5 L		45.0 oz/a	POST B	105	99.0	90.0	99.0	47.0	287
	ROUNDUP WMAX	5.5 SL		32.0 oz/a	POST B	208	99.0	95.0	99.0	47.0	287
	ATRAZINE	4 L		36.0 oz/a	POST B	310	99.0	95.0	99.0	47.0	287
						401	99.0	99.0	95.0	47.0	287
						Mean =	99.0	94.8	98.0	47.0	287
6	KEYSTONE NXT	5.5 L		45.0 oz/a	POST B	106	99.0	85.0	95.0	34.0	208
	LIBERTY	2.34 SL		29.0 oz/a	POST B	202	99.0	99.0	99.0	43.0	263
	ATRAZINE	4 L		36.0 oz/a	POST B	304	99.0	99.0	85.0	48.0	293
						407	99.0	99.0	99.0	48.0	293
						Mean =	99.0	95.5	94.5	43.3	264
7	ATRAZINE	4 L		36.0 oz/a	PRE A	107	99.0	85.0	99.0	38.0	232
	ROUNDUP WMAX	5.5 SL		32.0 oz/a	POST B	209	99.0	99.0	99.0	48.0	293
	ATRAZINE	4 L		48.0 oz/a	POST B	306	99.0	99.0	99.0	53.0	324
	PROWL H20	3.8 SC		32.0 oz/a	POST B	410	99.0	95.0	95.0	48.0	293
						Mean =	99.0	94.5	98.0	46.8	285
8	ATRAZINE	4 L		32.0 oz/a	PRE A	108	99.0	90.0	95.0	47.0	287
	LIBERTY	2.34 SL		29.0 oz/a	POST B	205	99.0	99.0	99.0	48.0	293
	ATRAZINE	4 L		48.0 oz/a	POST B	309	99.0	90.0	99.0	50.0	305
	PROWL H20	3.8 SC		32.0 oz/a	POST B	408	99.0	95.0	99.0	50.0	305
						Mean =	99.0	93.5	98.0	48.8	298
9	ATRAZINE	4 L		32.0 oz/a	PRE A	109	99.0	65.0	60.0	41.0	250
	STEADFAST Q	37.7 WG		1.5 oz/a	POST B	206	99.0	65.0	99.0	44.0	269
	ATRAZINE	4 L		48.0 oz/a	POST B	303	99.0	99.0	95.0	44.0	269
	COC			1.0 % v/v	POST B	405	99.0	75.0	75.0	52.0	317
						Mean =	99.0	76.0	82.3	45.3	276
10	ATRAZINE	4 L		32.0 oz/a	PRE A	110	99.0	65.0	60.0	45.0	275
	REVULIN Q	51.2 WG		4.0 oz/a	POST B	201	99.0	75.0	65.0	46.1*	281*
	ATRAZINE	4 L		48.0 oz/a	POST B	308	99.0	99.0	70.0	49.0	299
	COC			1.0 % v/v	POST B	409	99.0	95.0	85.0	47.0	287
						Mean =	99.0	83.5	70.0	46.8	286

University of Georgia

KEYSTONE NXT FOR WEED CONTROL IN FIELD CORN

Trial ID: CN-07-15 Study Dir.: JOHN RICHBURG
Location: PONDER FARM Investigator: Eric P. Prostko

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PRM Data Type

TY1 = 6.105028*[16]