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ACURON FOR WEED CONTROL IN FIELD CORN

Trial ID: CN-12-15 Study Dir.: HENRY MCLEAN
 Location: PONDER FARM Investigator: Eric P. Prostko

Reps: 3 Plots: 5 by 25 feet
 Spray vol: 15 GAL/AC Mix Size: 1.5 liters (calculated mix size .48882)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Rep 1	Rep 2	Rep 3
1	NTC								101	206	312
2	ACURON	3.44 CS		80.0 oz/a		PRE	A	62.49 ml/mx	102	209	304
3	ACURON AATREX	3.44 CS 4 L		80.0 oz/a 32.0 oz/a		PRE PRE	A A	62.49 ml/mx 25.0 ml/mx	103	204	301
4	ACURON STATUS TOUCHDOWN TOTAL N-PAK AMS	3.44 CS 56 WG 4.17 SL		80.0 oz/a 5.0 oz/a 30.0 oz/a		PRE POST POST	A B B	62.49 ml/mx 3.745 g/mx 23.43 ml/mx 37.5 ml/mx	104	213	310
5	ANTHEM ATZ	4.5 SC		30.0 oz/a		PRE	A	23.43 ml/mx	105	203	309
6	SURESTART II	4.25 SC		28.0 oz/a		PRE	A	21.87 ml/mx	106	202	303
7	VERDICT	5.57 EC		11.0 oz/a		PRE	A	8.593 ml/mx	107	208	305
8	CORVUS	2.63 SC		3.33 oz/a		PRE	A	2.601 ml/mx	108	212	308
9	AATREX ACURON TOUCHDOWN TOTAL N-PAK AMS	4 L 3.44 CS 4.17 SL		32.0 oz/a 64.0 oz/a 32.0 oz/a		PRE POST POST	A B B	25.0 ml/mx 49.99 ml/mx 25.0 ml/mx 37.5 ml/mx	109	205	313
10	ACURON ACURON NIS N-PAK AMS	3.44 CS 3.44 CS		40.0 oz/a 40.0 oz/a		PRE POST	A B	31.25 ml/mx 31.25 ml/mx 3.75 ml/mx 37.5 ml/mx	110	201	302
11	ACURON HALEX GT NIS N-PAK AMS	3.44 CS 4.38 CS		40.0 oz/a 58.0 oz/a		PRE POST	A B	31.25 ml/mx 45.31 ml/mx 3.75 ml/mx 37.5 ml/mx	111	207	306
12	ACURON TOUCHDOWN TOTAL AATREX N-PAK AMS	3.44 CS 4.17 SL 4 L		64.0 oz/a 32.0 oz/a 32.0 oz/a		PRE POST POST	A B B	49.99 ml/mx 25.0 ml/mx 25.0 ml/mx 37.5 ml/mx	112	210	311
13	DUAL II MAGNUM ROUNDUP P-MAX AATREX	7.62 EC 5.5 SL 4 L		16.0 oz/a 32.0 oz/a 64.0 oz/a		PRE POST POST	A B B	12.5 ml/mx 25.0 ml/mx 49.99 ml/mx	113	211	307

Sort Order: Treatment

Trial Comments

ANTHEM ATZ = ATRAZINE (4.006 LBS) + PYROXASULFONE (0.485 LBS) + FLUTHIACET (0.014 LBS)
 SURESTART II = ACETOCHLOR (3.75 LBS) + CLOPYRALID (0.38 LBS) + FLUMETSULAM (0.12 LBS)
 VERDICT = SAFLUFENACIL (0.57 LBS) + DIMETHENAMID-P (5.0 LBS)
 CORVUS = ISOXAFLUTOLE (1.88 LBS) + THIENCARBAZONE (0.75 LBS) + CYPROSULFAMIDE (SAFENER)
 HALEX GT = S-MOC (2.09 LBS) + GLYPHOSATE (2.09 LBS) + MESOTRIONE (0.209 LBS)
 ACURON = BICYCLOPYRONE + ATRAZINE + S-MOC + MESOTRIONE + BENOXACOR (SAFENER)

COC = RELIABLE
 NIS = ADEPT

ANNUAL GRASS = CRABGRASS + TEXAS PANICUM + GOOSEGRASS + CROWFOOTGRASS

HARVEST DATE: AUGUST 15
 HARVEST MOISTURE: 17.2%
 YIELDS ADJUSTED TO 15.5% MOISTURE.

SUMMARY:

- 1) PRE APPLICATIONS OF ACURON CAUSED SLIGHT CORN STUNTING EARLY IN THE GROWING SEASON.
- 2) FROM WEED CONTROL RATINGS OBTAINED ON MAY 11 (26 DAYS AFTER THE POST APPLICATIONS) THE FOLLOWING OBSERVATIONS WERE MADE:

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- A) ALL TREATMENTS PROVIDED > 95% CONTROL OF PALMER AMARANTH EXCEPT VERDICT - PRE (83%) AND CORVUS - PRE (71%).
- B) ALL TREATMENTS PROVIDED > 90% CONTROL OF ANNUAL GRASSES EXCEPT ACURON + ATRAZINE - PRE (89%), SURESTART II - PRE (86%), AND VERDICT - PRE (89.7%).
- C) ALL TREATMENTS PROVIDED > 94% CONTROL OF WILD RADISH EXCEPT ANTHEM ATZ - PRE (88%) AND VERDICT - PRE (83%).
- 3) CORN YIELDS WERE NOT INFLUENCED BY ANY HERBICIDE TREATMENT (P = 0.2401).

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ACURON FOR WEED CONTROL IN FIELD CORN

Trial ID: CN-12-15 Study Dir.: HENRY MCLEAN
 Location: PONDER FARM Investigator: Eric P. Prostko

GENERAL TRIAL INFORMATION

Study Director: HENRY MCLEAN **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 CRAB + TPANICUM
Weed 3. RAPRA WILD RADISH **4.** _____

Crop 1: ZEAMA FIELD CORN **Variety:** DKC 67-72 **Planting Date:** Mar-24-15
Planting Method: MONOSEM **Rate:** 34848 SEED/A **Depth:** 2 IN
Perennial Age: _____ **Row Spacing:** 30 IN **Seed Bed:** _____
Soil Temperature: _____ **Soil Moisture:** OPTIMUM **Emergence Date:** _____

Plot Width, Unit: 5 FT **Plot Length, Unit:** 25 FT **Reps:** 3

Site Type: _____
Tillage Type: CONVENTIONAL **Study Design:** RACOBL
Trial Initiation Comments: VT TRIPLE PRO; ACCELERON SEED TRT;

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:** 0.93 **% Sand:** 94 **% Silt:** 4 **% Clay:** 2
pH: 6.0 **CEC:** 3.7 **Soil Name:** TIFTON **Fertility Level:** GOOD

MOISTURE CONDITIONS

On:	Date	Time	Amount	Unit	Type	Interval	Unit
1.	Mar-27-15	_____	0.3	IN	SPRINKLER - LATERAL MOVE	_____	_____
2.	Apr-2-15	_____	0.4	IN	SPRINKLER - LATERAL MOVE	_____	_____
3.	Apr-7-15	_____	0.5	IN	SPRINKLER - LATERAL MOVE	_____	_____
4.	May-6-15	_____	0.75	IN	SPRINKLER - LATERAL MOVE	_____	_____
5.	May-11-15	_____	0.5	IN	SPRINKLER - LATERAL MOVE	_____	_____
6.	May-12-15	_____	0.5	IN	SPRINKLER - LATERAL MOVE	_____	_____
7.	May-14-15	_____	0.5	IN	SPRINKLER - LATERAL MOVE	_____	_____
8.	May-19-15	_____	0.75	IN	SPRINKLER - LATERAL MOVE	_____	_____
9.	May-22-15	_____	0.75	IN	SPRINKLER - LATERAL MOVE	_____	_____
10.	May-26-15	_____	0.75	IN	SPRINKLER - LATERAL MOVE	_____	_____
11.	Jun-2-15	_____	0.75	IN	SPRINKLER - LATERAL MOVE	_____	_____

Overall Moisture Conditions: _____

Closest Weather Station: _____ **Distance:** _____ **Unit:** _____

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		APPLICATION DESCRIPTION					
		A	B	C	D	E	F
Application Date:	Mar-25-15	Apr-15-15		_____	_____	_____	_____
Time of Day:	9:16 AM	8:40 AM		_____	_____	_____	_____
Application Method:	BROADCAST	BROADCAST		_____	_____	_____	_____
Application Timing:	PRE	POST		_____	_____	_____	_____
Applic. Placement:	SOIL	FOLIAGE		_____	_____	_____	_____
Air Temp., Unit:	67 F	75 F		_____	_____	_____	_____
% Relative Humidity:	85	84		_____	_____	_____	_____
Wind Velocity, Unit:	2 MPH	0 MPH		_____	_____	_____	_____
Dew Presence (Y/N):	N	Y		_____	_____	_____	_____
Water Hardness:	__	__		_____	_____	_____	_____
Soil Temp., Unit:	63 F	72 F		_____	_____	_____	_____
Soil Moisture:	OPTIMUM	WET		_____	_____	_____	_____
% Cloud Cover:	100	100		_____	_____	_____	_____

		CROP STAGE AT EACH APPLICATION					
		A	B	C	D	E	F
Crop 1	Stage: ZEAMA	_____	_____	_____	_____	_____	_____
Stage Scale:	_____	V4-V5		_____	_____	_____	_____
Height, Unit:	_____	7 IN		_____	_____	_____	_____

		WEED STAGE AT EACH APPLICATION					
		A	B	C	D	E	F
Weed 1	Stage: AMAPA	_____	1-3"	_____	_____	_____	_____
Stage Scale:	_____	_____	_____	_____	_____	_____	_____
Density, Unit:	_____	_____	_____	_____	_____	_____	_____
Weed 2	Stage: AGRASS	_____	2-3"	_____	_____	_____	_____
Stage Scale:	_____	_____	_____	_____	_____	_____	_____
Density, Unit:	_____	_____	_____	_____	_____	_____	_____
Weed 3	Stage: RAPRA	_____	2-4"	_____	_____	_____	_____
Stage Scale:	_____	_____	_____	_____	_____	_____	_____
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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ACURON FOR WEED CONTROL IN FIELD CORN													
Trial ID: CN-12-15		Study Dir.: HENRY MCLEAN											
Location: PONDER FARM		Investigator: Eric P. Probstko											
Weed Code						----- ZEAMA CROP - INJURY PERCENT Apr-10-15	AMAPA ----- CONTROL PERCENT Apr-10-15	ANNUAL GRASS CONTROL PERCENT Apr-10-15	RAPRA ----- CONTROL PERCENT Apr-10-15	----- ZEAMA CROP - STUNT PERCENT Apr-24-15	----- ZEAMA LEAF - CHLORSIS PERCENT Apr-24-15		
Trt Treatment	Form Form	Rate	Grow	Appl		1	2	3	4	5	6		
No. Name	Conc Type	Rate Unit	Stg	Code									
1	NTC					0.0 a	0.0 b	0.0 c	0.0 c	0.0 c	0.0 a		
2	ACURON	3.44 CS	80.0 oz/a	PRE	A	3.3 a	99.0 a	99.0 a	99.0 a	11.7 a	0.0 a		
3	ACURON AATREX	3.44 CS 4 L	80.0 oz/a 32.0 oz/a	PRE PRE	A A	0.0 a	99.0 a	97.7 a	99.0 a	6.7 abc	3.3 a		
4	ACURON STATUS TOUCHDOWN TOTAL N-PAK AMS	3.44 CS 56 WG 4.17 SL	80.0 oz/a 5.0 oz/a 30.0 oz/a 2.5 % v/v	PRE POST POST POST	A B B B	0.0 a	99.0 a	97.7 a	99.0 a	8.3 ab	3.3 a		
5	ANTHEM ATZ	4.5 SC	30.0 oz/a	PRE	A	0.0 a	99.0 a	97.7 a	99.0 a	3.3 bc	0.0 a		
6	SURESTART II	4.25 SC	28.0 oz/a	PRE	A	0.0 a	99.0 a	99.0 a	99.0 a	0.0 c	3.3 a		
7	VERDICT	5.57 EC	11.0 oz/a	PRE	A	0.0 a	99.0 a	99.0 a	99.0 a	6.7 abc	3.3 a		
8	CORVUS	2.63 SC	3.33 oz/a	PRE	A	0.0 a	99.0 a	81.3 a	99.0 a	0.0 c	3.3 a		
9	AATREX ACURON TOUCHDOWN TOTAL N-PAK AMS	4 L 3.44 CS 4.17 SL	32.0 oz/a 64.0 oz/a 32.0 oz/a 2.5 % v/v	PRE POST POST POST	A B B B	0.0 a	99.0 a	33.0 b	99.0 a	6.7 abc	6.7 a		
10	ACURON ACURON NIS N-PAK AMS	3.44 CS 3.44 CS	40.0 oz/a 40.0 oz/a 0.25 % v/v 2.5 % v/v	PRE POST POST POST	A B B B	0.0 a	99.0 a	97.7 a	99.0 a	10.0 ab	0.0 a		
11	ACURON HALEX GT NIS N-PAK AMS	3.44 CS 4.38 CS	40.0 oz/a 58.0 oz/a 0.25 % v/v 2.5 % v/v	PRE POST POST POST	A B B B	0.0 a	99.0 a	97.7 a	99.0 a	6.7 abc	3.3 a		
12	ACURON TOUCHDOWN TOTAL AATREX N-PAK AMS	3.44 CS 4.17 SL 4 L	64.0 oz/a 32.0 oz/a 32.0 oz/a 2.5 % v/v	PRE POST POST POST	A B B B	0.0 a	99.0 a	91.0 a	99.0 a	3.3 bc	0.0 a		
13	DUAL II MAGNUM ROUNDUP P-MAX AATREX	7.62 EC 5.5 SL 4 L	16.0 oz/a 32.0 oz/a 64.0 oz/a	PRE POST POST	A B B	0.0 a	99.0 a	91.0 a	31.7 b	10.0 ab	6.7 a		
LSD P=.10						2.24	.	24.24	12.60	6.19	6.55		
Standard Deviation						1.60	0.00	17.36	9.02	4.43	4.69		
CV						624.5	0.0	20.86	10.47	78.49	182.96		
Grand Mean						0.26	91.38	83.21	86.21	5.64	2.56		
Bartlett's X2						0.0	0.0	39.826	0.0	1.502	0.0		
P(Bartlett's X2)						.	.	0.001*	.	0.982	.		
Replicate F						1.000	0.000	2.667	1.000	1.602	0.117		
Replicate Prob(F)						0.3827	1.0000	0.0899	0.3827	0.2223	0.8905		
Treatment F						1.000	0.000	9.431	37.485	2.447	0.796		
Treatment Prob(F)						0.4777	1.0000	0.0001	0.0001	0.0300	0.6508		

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.
 Could not calculate LSD (% mean diff) for columns 2,7,8,9 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 ----- - C CONTROL PERCENT Apr-24-15	A.GRASS ----- CONTROL PERCENT Apr-24-15	RAPRA ---- CONTROL PERCENT Apr-24-15	----- ZEAMA PLANT - STUNTING PERCENT May-11-15	AMAPA ----- CONTROL PERCENT May-11-15	ANNUAL GRASS CONTROL PERCENT May-11-15	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	7	8	9	10	11	12
1	NTC						0.0 b	0.0 b	0.0 b	0.0 a	0.0 d	0.0 c
2	ACURON	3.44	CS	80.0 oz/a	PRE	A	99.0 a	99.0 a	99.0 a	8.3 a	99.0 a	99.0 a
3	ACURON AATREX	3.44 4 L	CS L	80.0 oz/a 32.0 oz/a	PRE PRE	A A	99.0 a	99.0 a	99.0 a	5.0 a	99.0 a	89.3 ab
4	ACURON STATUS TOUCHDOWN TOTAL N-PAK AMS	3.44 56 4.17	CS WG SL	80.0 oz/a 5.0 oz/a 30.0 oz/a 2.5 % v/v	PRE POST POST POST	A B B B	99.0 a	99.0 a	99.0 a	3.3 a	99.0 a	99.0 a
5	ANTHEM ATZ	4.5	SC	30.0 oz/a	PRE	A	99.0 a	99.0 a	99.0 a	3.3 a	99.0 a	91.3 ab
6	SURESTART II	4.25	SC	28.0 oz/a	PRE	A	99.0 a	99.0 a	99.0 a	0.0 a	96.3 a	86.3 b
7	VERDICT	5.57	EC	11.0 oz/a	PRE	A	99.0 a	99.0 a	99.0 a	3.3 a	83.0 b	89.7 ab
8	CORVUS	2.63	SC	3.33 oz/a	PRE	A	99.0 a	99.0 a	99.0 a	3.3 a	71.3 c	91.3 ab
9	AATREX ACURON TOUCHDOWN TOTAL N-PAK AMS	4 3.44 4.17	L CS SL	32.0 oz/a 64.0 oz/a 32.0 oz/a 2.5 % v/v	PRE POST POST POST	A B B B	99.0 a	99.0 a	99.0 a	0.0 a	99.0 a	99.0 a
10	ACURON ACURON NIS N-PAK AMS	3.44 3.44	CS CS	40.0 oz/a 40.0 oz/a 0.25 % v/v 2.5 % v/v	PRE POST POST POST	A B B B	99.0 a	99.0 a	99.0 a	6.7 a	99.0 a	99.0 a
11	ACURON HALEX GT NIS N-PAK AMS	3.44 4.38	CS CS	40.0 oz/a 58.0 oz/a 0.25 % v/v 2.5 % v/v	PRE POST POST POST	A B B B	99.0 a	99.0 a	99.0 a	3.3 a	99.0 a	99.0 a
12	ACURON TOUCHDOWN TOTAL AATREX N-PAK AMS	3.44 4.17 4	CS SL L	64.0 oz/a 32.0 oz/a 32.0 oz/a 2.5 % v/v	PRE POST POST POST	A B B B	99.0 a	99.0 a	99.0 a	3.3 a	99.0 a	99.0 a
13	DUAL II MAGNUM ROUNDUP P-MAX AATREX	7.62 5.5 4	EC SL L	16.0 oz/a 32.0 oz/a 64.0 oz/a	PRE POST POST	A B B	99.0 a	99.0 a	99.0 a	0.0 a	99.0 a	99.0 a
LSD P=.10							.	.	.	7.64	11.37	10.04
Standard Deviation							0.00	0.00	0.00	5.47	8.14	7.18
CV							0.0	0.0	0.0	177.76	9.27	8.18
Grand Mean							91.38	91.38	91.38	3.08	87.82	87.77
Bartlett's X2							0.0	0.0	0.0	0.782	6.585	1.793
P(Bartlett's X2)							.	.	.	0.999	0.037*	0.774
Replicate F							0.000	0.000	0.000	0.257	2.002	0.434
Replicate Prob(F)							1.0000	1.0000	1.0000	0.7754	0.1570	0.6531
Treatment F							0.000	0.000	0.000	0.689	34.734	41.757
Treatment Prob(F)							1.0000	1.0000	1.0000	0.7457	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.						RAPRA ----- CONTROL PERCENT May-11-15	AMAPA ----- CONTROL PERCENT Jun-12-15	ANNUAL GRASS CONTROL PERCENT Jun-12-15	----- ZEAMA PLOT - YIELD LBS/PLOT Aug-15-15	----- ZEAMA PLOT - YIELD BU/A Aug-15-15 TY1 - 0	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	13	14	15	16	17
1	NTC						0.0 d	0.0 e	0.0 f	43.7 a	266 a
2	ACURON	3.44	CS	80.0 oz/a	PRE	A	99.0 a	94.3 ab	93.3 abc	47.0 a	287 a
3	ACURON AATREX	3.44 4 L	CS L	80.0 oz/a 32.0 oz/a	PRE PRE	A A	94.3 ab	88.3 abc	71.7 e	47.0 a	287 a
4	ACURON STATUS TOUCHDOWN TOTAL N-PAK AMS	3.44 56 4.17	CS WG SL	80.0 oz/a 5.0 oz/a 30.0 oz/a 2.5 % v/v	PRE POST POST POST	A B B B	99.0 a	96.3 a	91.7 a-d	43.7 a	266 a
5	ANTHEM ATZ	4.5	SC	30.0 oz/a	PRE	A	88.3 bc	96.3 a	75.0 cde	46.0 a	280 a
6	SURESTART II	4.25	SC	28.0 oz/a	PRE	A	99.0 a	78.3 bc	73.3 de	45.3 a	276 a
7	VERDICT	5.57	EC	11.0 oz/a	PRE	A	83.0 c	61.7 d	75.0 cde	47.0 a	287 a
8	CORVUS	2.63	SC	3.33 oz/a	PRE	A	94.7 ab	61.7 d	78.3 b-e	45.7 a	278 a
9	AATREX ACURON TOUCHDOWN TOTAL N-PAK AMS	4 3.44 4.17	L CS SL	32.0 oz/a 64.0 oz/a 32.0 oz/a 2.5 % v/v	PRE POST POST POST	A B B B	99.0 a	99.0 a	96.0 ab	43.0 a	262 a
10	ACURON ACURON NIS N-PAK AMS	3.44 3.44	CS CS	40.0 oz/a 40.0 oz/a 0.25 % v/v 2.5 % v/v	PRE POST POST POST	A B B B	99.0 a	99.0 a	96.3 ab	43.0 a	262 a
11	ACURON HALEX GT NIS N-PAK AMS	3.44 4.38	CS CS	40.0 oz/a 58.0 oz/a 0.25 % v/v 2.5 % v/v	PRE POST POST POST	A B B B	99.0 a	99.0 a	97.7 a	46.0 a	280 a
12	ACURON TOUCHDOWN TOTAL AATREX N-PAK AMS	3.44 4.17 4	CS SL L	64.0 oz/a 32.0 oz/a 32.0 oz/a 2.5 % v/v	PRE POST POST POST	A B B B	99.0 a	83.3 abc	85.0 a-e	46.3 a	283 a
13	DUAL II MAGNUM ROUNDUP P-MAX AATREX	7.62 5.5 4	EC SL L	16.0 oz/a 32.0 oz/a 64.0 oz/a	PRE POST POST	A B B	99.0 a	76.3 cd	95.0 ab	47.0 a	287 a
LSD P=.10							7.73	15.00	16.38	3.22	19.6
Standard Deviation							5.54	10.74	11.72	2.31	14.1
CV							6.25	13.5	14.82	5.07	5.07
Grand Mean							88.64	79.51	79.10	45.44	277.1
Bartlett's X2							6.277	18.555	17.746	8.74	8.74
P(Bartlett's X2)							0.099	0.017*	0.059	0.725	0.725
Replicate F							0.593	3.854	0.037	17.658	17.658
Replicate Prob(F)							0.5605	0.0353	0.9641	0.0001	0.0001
Treatment F							71.907	19.488	14.470	1.383	1.383
Treatment Prob(F)							0.0001	0.0001	0.0001	0.2401	0.2401

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ACURON FOR WEED CONTROL IN FIELD CORN

Trial ID: CN-12-15 Study Dir.: HENRY MCLEAN
Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code

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

Part Rated

LEAF = LEAF / FOLIAGE
PLANT = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)
C = Crop is Part Rated

PRM Data Type

TY1 = 6.097663*[16]

University of Georgia

ACURON FOR WEED CONTROL IN FIELD CORN														
Trial ID: CN-12-15		Study Dir.: HENRY MCLEAN												
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.														
Trt	Treatment	Form	Form	Rate	Grow	Appl								
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot	1	2	3	4	5	6
1	NTC							101	0.0	0.0	0.0	0.0	0.0	0.0
								206	0.0	0.0	0.0	0.0	0.0	0.0
								312	0.0	0.0	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0	0.0	0.0
2	ACURON	3.44	CS	80.0	oz/a	PRE	A	102	10.0	99.0	99.0	99.0	15.0	0.0
								209	0.0	99.0	99.0	99.0	10.0	0.0
								304	0.0	99.0	99.0	99.0	10.0	0.0
								Mean =	3.3	99.0	99.0	99.0	11.7	0.0
3	ACURON	3.44	CS	80.0	oz/a	PRE	A	103	0.0	99.0	99.0	99.0	10.0	0.0
	AATREX	4	L	32.0	oz/a	PRE	A	204	0.0	99.0	99.0	99.0	0.0	10.0
								301	0.0	99.0	95.0	99.0	10.0	0.0
								Mean =	0.0	99.0	97.7	99.0	6.7	3.3
4	ACURON	3.44	CS	80.0	oz/a	PRE	A	104	0.0	99.0	95.0	99.0	0.0	0.0
	STATUS	56	WG	5.0	oz/a	POST	B	213	0.0	99.0	99.0	99.0	15.0	10.0
	TOUCHDOWN TOTAL	4.17	SL	30.0	oz/a	POST	B	310	0.0	99.0	99.0	99.0	10.0	0.0
	N-PAK AMS			2.5	% v/v	POST	B							
								Mean =	0.0	99.0	97.7	99.0	8.3	3.3
5	ANTHEM ATZ	4.5	SC	30.0	oz/a	PRE	A	105	0.0	99.0	99.0	99.0	0.0	0.0
								203	0.0	99.0	99.0	99.0	10.0	0.0
								309	0.0	99.0	95.0	99.0	0.0	0.0
								Mean =	0.0	99.0	97.7	99.0	3.3	0.0
6	SURESTART II	4.25	SC	28.0	oz/a	PRE	A	106	0.0	99.0	99.0	99.0	0.0	0.0
								202	0.0	99.0	99.0	99.0	0.0	0.0
								303	0.0	99.0	99.0	99.0	0.0	10.0
								Mean =	0.0	99.0	99.0	99.0	0.0	3.3
7	VERDICT	5.57	EC	11.0	oz/a	PRE	A	107	0.0	99.0	99.0	99.0	0.0	0.0
								208	0.0	99.0	99.0	99.0	10.0	10.0
								305	0.0	99.0	99.0	99.0	10.0	0.0
								Mean =	0.0	99.0	99.0	99.0	6.7	3.3
8	CORVUS	2.63	SC	3.33	oz/a	PRE	A	108	0.0	99.0	95.0	99.0	0.0	0.0
								212	0.0	99.0	99.0	99.0	0.0	10.0
								308	0.0	99.0	50.0	99.0	0.0	0.0
								Mean =	0.0	99.0	81.3	99.0	0.0	3.3
9	AATREX	4	L	32.0	oz/a	PRE	A	109	0.0	99.0	99.0	99.0	10.0	10.0
	ACURON	3.44	CS	64.0	oz/a	POST	B	205	0.0	99.0	0.0	99.0	10.0	0.0
	TOUCHDOWN TOTAL	4.17	SL	32.0	oz/a	POST	B	313	0.0	99.0	0.0	99.0	0.0	10.0
	N-PAK AMS			2.5	% v/v	POST	B							
								Mean =	0.0	99.0	33.0	99.0	6.7	6.7
10	ACURON	3.44	CS	40.0	oz/a	PRE	A	110	0.0	99.0	99.0	99.0	10.0	0.0
	ACURON	3.44	CS	40.0	oz/a	POST	B	201	0.0	99.0	99.0	99.0	10.0	0.0
	NIS			0.25	% v/v	POST	B	302	0.0	99.0	95.0	99.0	10.0	0.0
	N-PAK AMS			2.5	% v/v	POST	B							
								Mean =	0.0	99.0	97.7	99.0	10.0	0.0
11	ACURON	3.44	CS	40.0	oz/a	PRE	A	111	0.0	99.0	99.0	99.0	0.0	10.0
	HALEX GT	4.38	CS	58.0	oz/a	POST	B	207	0.0	99.0	99.0	99.0	10.0	0.0
	NIS			0.25	% v/v	POST	B	306	0.0	99.0	95.0	99.0	10.0	0.0
	N-PAK AMS			2.5	% v/v	POST	B							
								Mean =	0.0	99.0	97.7	99.0	6.7	3.3
12	ACURON	3.44	CS	64.0	oz/a	PRE	A	112	0.0	99.0	99.0	99.0	0.0	0.0
	TOUCHDOWN TOTAL	4.17	SL	32.0	oz/a	POST	B	210	0.0	99.0	99.0	99.0	10.0	0.0
	AATREX	4	L	32.0	oz/a	POST	B	311	0.0	99.0	75.0	99.0	0.0	0.0
	N-PAK AMS			2.5	% v/v	POST	B							
								Mean =	0.0	99.0	91.0	99.0	3.3	0.0
13	DUAL II MAGNUM	7.62	EC	16.0	oz/a	PRE	A	113	0.0	99.0	99.0	0.0	10.0	10.0
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	B	211	0.0	99.0	99.0	65.0	10.0	0.0
	AATREX	4	L	64.0	oz/a	POST	B	307	0.0	99.0	75.0	30.0	10.0	10.0
								Mean =	0.0	99.0	91.0	31.7	10.0	6.7

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.							AMAPA ----- - C CONTROL PERCENT Apr-24-15	A.GRASS ----- CONTROL PERCENT Apr-24-15	RAPRA ----- CONTROL PERCENT Apr-24-15	----- ZEAMA PLANT - STUNTING PERCENT May-11-15	AMAPA ----- CONTROL PERCENT May-11-15	ANNUAL GRASS CONTROL PERCENT May-11-15
Trt Treatment No. Name	Form Form Conc Type	Rate Rate Unit	Grow Stg	Appl Code	Plot	7	8	9	10	11	12	
1 NTC					101 206 312 Mean =	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	
2 ACURON	3.44 CS	80.0 oz/a	PRE	A	102 209 304 Mean =	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	15.0 0.0 10.0 8.3	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	
3 ACURON AATREX	3.44 CS 4 L	80.0 oz/a 32.0 oz/a	PRE PRE	A A	103 204 301 Mean =	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	15.0 0.0 0.0 5.0	99.0 99.0 99.0 99.0	99.0 70.0 99.0 89.3	
4 ACURON STATUS TOUCHDOWN TOTAL N-PAK AMS	3.44 CS 56 WG 4.17 SL	80.0 oz/a 5.0 oz/a 30.0 oz/a 2.5 % v/v	PRE POST POST POST	A B B B	104 213 310 Mean =	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	0.0 10.0 0.0 3.3	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	
5 ANTHEM ATZ	4.5 SC	30.0 oz/a	PRE	A	105 203 309 Mean =	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	0.0 10.0 0.0 3.3	99.0 99.0 99.0 99.0	99.0 95.0 80.0 91.3	
6 SURESTART II	4.25 SC	28.0 oz/a	PRE	A	106 202 303 Mean =	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	0.0 0.0 0.0 0.0	95.0 99.0 95.0 96.3	85.0 99.0 75.0 86.3	
7 VERDICT	5.57 EC	11.0 oz/a	PRE	A	107 208 305 Mean =	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	0.0 0.0 10.0 3.3	65.0 85.0 99.0 83.0	85.0 85.0 99.0 89.7	
8 CORVUS	2.63 SC	3.33 oz/a	PRE	A	108 212 308 Mean =	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	0.0 10.0 0.0 3.3	50.0 65.0 99.0 71.3	99.0 85.0 90.0 91.3	
9 AATREX ACURON TOUCHDOWN TOTAL N-PAK AMS	4 L 3.44 CS 4.17 SL	32.0 oz/a 64.0 oz/a 32.0 oz/a 2.5 % v/v	PRE POST POST POST	A B B B	109 205 313 Mean =	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	
10 ACURON ACURON NIS N-PAK AMS	3.44 CS 3.44 CS	40.0 oz/a 40.0 oz/a 0.25 % v/v 2.5 % v/v	PRE POST POST POST	A B B B	110 201 302 Mean =	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	10.0 10.0 0.0 6.7	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	
11 ACURON HALEX GT NIS N-PAK AMS	3.44 CS 4.38 CS	40.0 oz/a 58.0 oz/a 0.25 % v/v 2.5 % v/v	PRE POST POST POST	A B B B	111 207 306 Mean =	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	0.0 0.0 10.0 3.3	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	
12 ACURON TOUCHDOWN TOTAL AATREX N-PAK AMS	3.44 CS 4.17 SL 4 L	64.0 oz/a 32.0 oz/a 32.0 oz/a 2.5 % v/v	PRE POST POST POST	A B B B	112 210 311 Mean =	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	10.0 0.0 0.0 3.3	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	
13 DUAL II MAGNUM ROUNDUP P-MAX AATREX	7.62 EC 5.5 SL 4 L	16.0 oz/a 32.0 oz/a 64.0 oz/a	PRE POST POST	A B B	113 211 307 Mean =	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	

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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-11-15	AMAPA ----- CONTROL PERCENT Jun-12-15	ANNUAL GRASS CONTROL PERCENT Jun-12-15	----- ZEAMA PLOT - YIELD LBS/PLOT Aug-15-15	----- ZEAMA PLOT - YIELD BU/A Aug-15-15 TY1 - 0
Trt Treatment No. Name	Form Form Conc Type	Rate Rate Unit	Grow Stg	Appl Code	Plot		13	14	15	16	17
1 NTC					101		0.0	0.0	0.0	44.0	268
					206		0.0	0.0	0.0	43.0	262
					312		0.0	0.0	0.0	44.0	268
					Mean =		0.0	0.0	0.0	43.7	266
2 ACURON	3.44 CS	80.0 oz/a	PRE	A	102		99.0	99.0	90.0	44.0	268
					209		99.0	85.0	95.0	50.0	305
					304		99.0	99.0	95.0	47.0	287
					Mean =		99.0	94.3	93.3	47.0	287
3 ACURON AATREX	3.44 CS 4 L	80.0 oz/a 32.0 oz/a	PRE PRE	A A	103 204		99.0 85.0	95.0 75.0	70.0 50.0	46.0 45.0	280 274
					301		99.0	95.0	95.0	50.0	305
					Mean =		94.3	88.3	71.7	47.0	287
4 ACURON STATUS TOUCHDOWN TOTAL N-PAK AMS	3.44 CS 56 WG 4.17 SL	80.0 oz/a 5.0 oz/a 30.0 oz/a 2.5 % v/v	PRE POST POST POST	A B B B	104 213 310		99.0 99.0 99.0	95.0 95.0 99.0	95.0 95.0 85.0	41.0 44.0 46.0	250 268 280
					Mean =		99.0	96.3	91.7	43.7	266
5 ANTHEM ATZ	4.5 SC	30.0 oz/a	PRE	A	105		90.0	99.0	65.0	42.0	256
					203		85.0	95.0	95.0	45.0	274
					309		90.0	95.0	65.0	51.0	311
					Mean =		88.3	96.3	75.0	46.0	280
6 SURESTART II	4.25 SC	28.0 oz/a	PRE	A	106		99.0	80.0	75.0	44.0	268
					202		99.0	80.0	85.0	45.0	274
					303		99.0	75.0	60.0	47.0	287
					Mean =		99.0	78.3	73.3	45.3	276
7 VERDICT	5.57 EC	11.0 oz/a	PRE	A	107		65.0	70.0	70.0	44.0	268
					208		85.0	50.0	65.0	49.0	299
					305		99.0	65.0	90.0	48.0	293
					Mean =		83.0	61.7	75.0	47.0	287
8 CORVUS	2.63 SC	3.33 oz/a	PRE	A	108		99.0	40.0	85.0	41.0	250
					212		95.0	50.0	65.0	46.0	280
					308		90.0	95.0	85.0	50.0	305
					Mean =		94.7	61.7	78.3	45.7	278
9 AATREX ACURON TOUCHDOWN TOTAL N-PAK AMS	4 L 3.44 CS 4.17 SL	32.0 oz/a 64.0 oz/a 32.0 oz/a 2.5 % v/v	PRE POST POST POST	A B B B	109 205 313		99.0 99.0 99.0	99.0 99.0 99.0	99.0 99.0 90.0	38.0 47.0 44.0	232 287 268
					Mean =		99.0	99.0	96.0	43.0	262
10 ACURON ACURON NIS N-PAK AMS	3.44 CS 3.44 CS	40.0 oz/a 40.0 oz/a 0.25 % v/v 2.5 % v/v	PRE POST POST POST	A B B B	110 201 302		99.0 99.0 99.0	99.0 99.0 99.0	95.0 99.0 95.0	39.0 41.0 49.0	238 250 299
					Mean =		99.0	99.0	96.3	43.0	262
11 ACURON HALEX GT NIS N-PAK AMS	3.44 CS 4.38 CS	40.0 oz/a 58.0 oz/a 0.25 % v/v 2.5 % v/v	PRE POST POST POST	A B B B	111 207 306		99.0 99.0 99.0	99.0 99.0 99.0	99.0 95.0 99.0	42.0 46.0 50.0	256 280 305
					Mean =		99.0	99.0	97.7	46.0	280
12 ACURON TOUCHDOWN TOTAL AATREX N-PAK AMS	3.44 CS 4.17 SL 4 L	64.0 oz/a 32.0 oz/a 32.0 oz/a 2.5 % v/v	PRE POST POST POST	A B B B	112 210 311		99.0 99.0 99.0	95.0 65.0 90.0	95.0 95.0 65.0	43.0 50.0 46.0	262 305 280
					Mean =		99.0	83.3	85.0	46.3	283
13 DUAL II MAGNUM ROUNDUP P-MAX AATREX	7.62 EC 5.5 SL 4 L	16.0 oz/a 32.0 oz/a 64.0 oz/a	PRE POST POST	A B B	113 211 307		99.0 99.0 99.0	65.0 65.0 99.0	95.0 95.0 95.0	45.0 46.0 50.0	274 280 305
					Mean =		99.0	76.3	95.0	47.0	287

University of Georgia

ACURON FOR WEED CONTROL IN FIELD CORN

Trial ID: CN-12-15 Study Dir.: HENRY MCLEAN
Location: PONDER FARM Investigator: Eric P. Prostko

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