

North Carolina State University

POSTEMERGENCE YELLOW NUTSEDGE CONTROL IN A NONCROPLAND AREA USING PLATEAU 2AS

Trial ID: 02-P1

Study Dir.: LEON WARREN

Location: BLADEN COUNTY

Investigator: Crop Science Department

Overall Moisture Conditions: MAY 4.09"; JUN 2.65"; JUL 4.04"

Closest Weather Station: ELIZABETHTOWN

Distance: 4

Unit: MI

APPLICATION DESCRIPTION

	A
Application Date:	05-23-02
Time of Day:	4:00 PM
Application Method:	SPRAY
Application Timing:	POST
Applic. Placement:	BROFOL
Air Temp., Unit:	78 F
% Relative Humidity:	46
Wind Velocity, Unit:	0.9 MPH
Dew Presence (Y/N):	N
Soil Temp., Unit:	85 F
Soil Moisture:	SLIDRY
% Cloud Cover:	0

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	NONE NONE
Stage Scale:	NONE

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	CYPES 5-8 LEAF
Stage Scale:	4-7 INCH
Density, Unit:	1-5 FT2
Weed 2 Code, Stage:	DIGSA 2LF-2TILL
Stage Scale:	0.5-2 INCH
Density, Unit:	<1-5 FT2
Weed 3 Code, Stage:	CMIRA VINING
Stage Scale:	4-6 INCH
Density, Unit:	1 YD2

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APPLICATION EQUIPMENT

	A
Appl. Equipment:	BACSPR
Operating Pressure:	42 PSI
Nozzle Type:	FLAT FAN
Nozzle Size:	XR11002VS
Nozzle Spacing, Unit:	18 IN
Boom Length, Unit:	72 IN
Boom Height, Unit:	18 IN
Ground Speed, Unit:	3 MPH
Carrier:	WATER
Spray Volume, Unit:	20 GPA
Propellant:	COMCO2
Tank Mix (Y/N):	Y

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Weed Code								CYPES	CYPES		
Rating Data Type								P-INJURY	P-INJURY		
Rating Unit								PERCENT	PERCENT		
Rating Date								06-06-02	06-13-02		
Trt-Eval Interval								14 DA-A	21 DA-A		
ARM Action Codes								P	P		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code		
1	PLATEAU X-77 SPREADER	2.0	AS L	2.0	FL OZ/A 0.25 % V/V			MAY 23 A MAY 23 A		17.5 a	25.0 b
2	PLATEAU X-77 SPREADER	2.0	AS L	3.0	FL OZ/A 0.25 % V/V			MAY 23 A MAY 23 A		21.3 a	42.5 a
3	PLATEAU X-77 SPREADER	2.0	AS L	4.0	FL OZ/A 0.25 % V/V			MAY 23 A MAY 23 A		22.5 a	40.0 ab
4	PLATEAU X-77 SPREADER	2.0	AS L	6.0	FL OZ/A 0.25 % V/V			MAY 23 A MAY 23 A		25.0 a	55.0 a
5	PLATEAU X-77 SPREADER	2.0	AS L	8.0	FL OZ/A 0.25 % V/V			MAY 23 A MAY 23 A		21.3 a	53.8 a
6	CHECK									0.0 b	0.0 c
LSD (P=.05)								8.02	16.65		
Standard Deviation								5.32	11.05		
CV								29.71	30.67		
Bartlett's X2								3.418	4.383		
P(Bartlett's X2)								0.49	0.357		
Replicate F								0.147	4.125		
Replicate Prob(F)								0.9300	0.0256		
Treatment F								11.706	14.089		
Treatment Prob(F)								0.0001	0.0001		

Means followed by same letter do not significantly differ (P=.05, LSD)

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Trial ID: 02-P1

Study Dir.: LEON WARREN

Location: BLADEN COUNTY

Investigator: Crop Science Department

Weed Code								CYPES	CYPES		
Rating Data Type								P-CONTROL	P-CONTROL		
Rating Unit								PERCENT	PERCENT		
Rating Date								07-03-02	07-17-02		
Trt-Eval Interval								41 DA-A	55 DA-A		
ARM Action Codes								P	P		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code		
1	PLATEAU X-77 SPREADER	2.0	AS L	2.0	FL OZ/A 0.25 % V/V			MAY 23 A MAY 23 A		78.8 b	50.0 b
2	PLATEAU X-77 SPREADER	2.0	AS L	3.0	FL OZ/A 0.25 % V/V			MAY 23 A MAY 23 A		93.3 a	83.3 a
3	PLATEAU X-77 SPREADER	2.0	AS L	4.0	FL OZ/A 0.25 % V/V			MAY 23 A MAY 23 A		96.5 a	91.8 a
4	PLATEAU X-77 SPREADER	2.0	AS L	6.0	FL OZ/A 0.25 % V/V			MAY 23 A MAY 23 A		95.5 a	96.5 a
5	PLATEAU X-77 SPREADER	2.0	AS L	8.0	FL OZ/A 0.25 % V/V			MAY 23 A MAY 23 A		92.8 a	93.3 a
6	CHECK									0.0 c	0.0 c
LSD (P=.05)								8.18	16.84		
Standard Deviation								5.43	11.18		
CV								7.13	16.17		
Bartlett's X2								6.943	8.027		
P(Bartlett's X2)								0.139	0.091		
Replicate F								0.612	2.848		
Replicate Prob(F)								0.6176	0.0727		
Treatment F								194.391	46.025		
Treatment Prob(F)								0.0001	0.0001		

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Investigator: Crop Science Department

								DIGSA	DIGSA
								P-CONTROL	P-CONTROL
								PERCENT	PERCENT
								06-06-02	06-13-02
								14 DA-A	21 DA-A
								P	P
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Product Rate	Product Unit	Grow Stg	Appl Code
1	PLATEAU X-77 SPREADER	2.0	AS L	2.0	FL OZ/A 0.25 % V/V			MAY 23 A MAY 23 A	
								99.0 a	97.3 b
2	PLATEAU X-77 SPREADER	2.0	AS L	3.0	FL OZ/A 0.25 % V/V			MAY 23 A MAY 23 A	
								99.0 a	100.0 a
3	PLATEAU X-77 SPREADER	2.0	AS L	4.0	FL OZ/A 0.25 % V/V			MAY 23 A MAY 23 A	
								99.0 a	100.0 a
4	PLATEAU X-77 SPREADER	2.0	AS L	6.0	FL OZ/A 0.25 % V/V			MAY 23 A MAY 23 A	
								99.0 a	100.0 a
5	PLATEAU X-77 SPREADER	2.0	AS L	8.0	FL OZ/A 0.25 % V/V			MAY 23 A MAY 23 A	
								99.0 a	100.0 a
6	CHECK								
								0.0 b	0.0 c
LSD (P=.05)								0.00	1.62
Standard Deviation								0.00	1.07
CV								0.0	1.3
Bartlett's X2								0.0	0.0
P(Bartlett's X2)								0.00*	0.00*
Replicate F								0.000	1.000
Replicate Prob(F)								1.0000	0.4199
Treatment F								0.000	5723.892
Treatment Prob(F)								1.0000	0.0001

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								DIGSA	DIGSA
								P-CONTROL	P-CONTROL
								PERCENT	PERCENT
								07-03-02	07-17-02
								41 DA-A	55 DA-A
								P	P
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Product Rate	Product Rate	Grow Stg	Appl Code
1	PLATEAU X-77 SPREADER	2.0	AS L	2.0	FL OZ/A	0.25 % V/V		MAY 23 A MAY 23 A	
								85.0 b	75.0 b
2	PLATEAU X-77 SPREADER	2.0	AS L	3.0	FL OZ/A	0.25 % V/V		MAY 23 A MAY 23 A	
								100.0 a	93.8 a
3	PLATEAU X-77 SPREADER	2.0	AS L	4.0	FL OZ/A	0.25 % V/V		MAY 23 A MAY 23 A	
								100.0 a	94.8 a
4	PLATEAU X-77 SPREADER	2.0	AS L	6.0	FL OZ/A	0.25 % V/V		MAY 23 A MAY 23 A	
								100.0 a	98.8 a
5	PLATEAU X-77 SPREADER	2.0	AS L	8.0	FL OZ/A	0.25 % V/V		MAY 23 A MAY 23 A	
								100.0 a	99.5 a
6	CHECK								
								0.0 c	0.0 c
LSD (P=.05)								10.65	11.15
Standard Deviation								7.07	7.40
CV								8.75	9.61
Bartlett's X2								0.0	23.143
P(Bartlett's X2)								0.00*	0.001*
Replicate F								1.000	2.196
Replicate Prob(F)								0.4199	0.1309
Treatment F								128.333	109.766
Treatment Prob(F)								0.0001	0.0001

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Trial ID: 02-P1

Study Dir.: LEON WARREN

Location: BLADEN COUNTY

Investigator: Crop Science Department

Weed Code								CMIRA	CMIRA		
Rating Data Type								P-INJURY	INJURY		
Rating Unit								PERCENT	PERCENT		
Rating Date								06-06-02	06-13-02		
Trt-Eval Interval								14 DA-A	21 DA-A		
ARM Action Codes								P	P		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Product Rate	Product Rate	Grow Stg	Appl Code		
1	PLATEAU X-77 SPREADER	2.0	AS L	2.0	FL OZ/A 0.25 % V/V			MAY 23 A MAY 23 A		20.0 a	15.0 a
2	PLATEAU X-77 SPREADER	2.0	AS L	3.0	FL OZ/A 0.25 % V/V			MAY 23 A MAY 23 A		21.3 a	13.8 a
3	PLATEAU X-77 SPREADER	2.0	AS L	4.0	FL OZ/A 0.25 % V/V			MAY 23 A MAY 23 A		20.0 a	17.5 a
4	PLATEAU X-77 SPREADER	2.0	AS L	6.0	FL OZ/A 0.25 % V/V			MAY 23 A MAY 23 A		21.3 a	18.8 a
5	PLATEAU X-77 SPREADER	2.0	AS L	8.0	FL OZ/A 0.25 % V/V			MAY 23 A MAY 23 A		22.5 a	16.3 a
6	CHECK									0.0 b	0.0 b
LSD (P=.05)								4.83	8.65		
Standard Deviation								3.21	5.74		
CV								18.32	42.41		
Bartlett's X2								5.046	1.718		
P(Bartlett's X2)								0.168	0.787		
Replicate F								1.892	3.400		
Replicate Prob(F)								0.1743	0.0455		
Treatment F								28.946	5.716		
Treatment Prob(F)								0.0001	0.0038		

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								CMIRA	CMIRA		
								P-CONTROL	P-CONTROL		
								PERCENT	PERCENT		
								07-03-02	07-17-02		
								41 DA-A	55 DA-A		
								P	P		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Product Rate	Product Unit	Grow Stg	Appl Code		
1	PLATEAU X-77 SPREADER	2.0	AS L	2.0	FL OZ/A 0.25 % V/V			MAY 23 A MAY 23 A		0.0 a	0.0 a
2	PLATEAU X-77 SPREADER	2.0	AS L	3.0	FL OZ/A 0.25 % V/V			MAY 23 A MAY 23 A		6.3 a	0.0 a
3	PLATEAU X-77 SPREADER	2.0	AS L	4.0	FL OZ/A 0.25 % V/V			MAY 23 A MAY 23 A		0.0 a	0.0 a
4	PLATEAU X-77 SPREADER	2.0	AS L	6.0	FL OZ/A 0.25 % V/V			MAY 23 A MAY 23 A		0.0 a	0.0 a
5	PLATEAU X-77 SPREADER	2.0	AS L	8.0	FL OZ/A 0.25 % V/V			MAY 23 A MAY 23 A		0.0 a	0.0 a
6	CHECK									0.0 a	0.0 a
LSD (P=.05)								7.69	0.00		
Standard Deviation								5.10	0.00		
CV								489.9	0.0		
Bartlett's X2								0.0	0.0		
P(Bartlett's X2)								0.00*	0.00*		
Replicate F								1.000	0.000		
Replicate Prob(F)								0.4199	1.0000		
Treatment F								1.000	0.000		
Treatment Prob(F)								0.4509	1.0000		

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Trial ID: 02-P1

Study Dir.: LEON WARREN

Location: BLADEN COUNTY

Investigator: Crop Science Department

Weed Code								ECLAL	ECLAL		
Rating Data Type								P-CONTROL	P-CONTROL		
Rating Unit								PERCENT	PERCENT		
Rating Date								07-03-02	07-17-02		
Trt-Eval Interval								41 DA-A	55 DA-A		
ARM Action Codes								P	P		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code		
1	PLATEAU X-77 SPREADER	2.0	AS L	2.0	FL OZ/A 0.25 % V/V			MAY 23 A MAY 23 A		2.5 c	0.0 b
2	PLATEAU X-77 SPREADER	2.0	AS L	3.0	FL OZ/A 0.25 % V/V			MAY 23 A MAY 23 A		12.5 c	0.0 b
3	PLATEAU X-77 SPREADER	2.0	AS L	4.0	FL OZ/A 0.25 % V/V			MAY 23 A MAY 23 A		31.3 b	0.0 b
4	PLATEAU X-77 SPREADER	2.0	AS L	6.0	FL OZ/A 0.25 % V/V			MAY 23 A MAY 23 A		62.5 a	0.0 b
5	PLATEAU X-77 SPREADER	2.0	AS L	8.0	FL OZ/A 0.25 % V/V			MAY 23 A MAY 23 A		63.3 a	40.0 a
6	CHECK									0.0 c	0.0 b
LSD (P=.05)								16.84	22.46		
Standard Deviation								11.11	14.91		
CV								38.72	223.61		
Bartlett's X2								3.34	0.0		
P(Bartlett's X2)								0.503	0.00*		
Replicate F								0.632	1.000		
Replicate Prob(F)								0.6067	0.4199		
Treatment F								26.730	4.800		
Treatment Prob(F)								0.0001	0.0081		

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Trial Comments

05-23-02: TEST ESTABLISHED IN A NONCROPLAND AREA BEHIND SANDRA WILSON'S HOUSE/BARN

05-31-02: CYPES VERY SLIGHTLY YELLOWISH-GREEN AND CMIRA YELLOWISH-GREEN IN ALL TREATED PLOTS

- CYPES PRODUCING NEW ROOTS IN NONTREATED PLOTS BUT NONE EVIDENT IN TREATED PLOTS

- DIGSA DARK PURPLISH-GREEN APPEARANCE IN ALL TREATED PLOTS

06-06-02: TEST AREA EXTREMELY DRY

- DIGSA APPEARED TO BE COMPLETELY CONTROLLED IN ALL TREATED PLOTS WITH CYPES AND CMIRA SLIGHT YELLOWISH-GREEN

06-13-02: TEST AREA EXTREMELY DRY