

University of Georgia

TOBACCO RESPONSE TO SOIL APPLIED GARLON 3A (TRICLOPYR)

Trial ID: TB-02-21 Study Dir.: JM MOORE
 Location: PONDER FARM Investigator: Eric P. Prostko

GENERAL TRIAL INFORMATION

Study Director: JM MOORE **Title:** _____
Affiliation: _____ **Postal Code:** _____

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

Trial Status: E **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. _____ **2.** _____

Crop 1: NIOTA TOBACCO **Variety:** K-326 **Planting Date:** Apr-12-21
Planting Method: TRANSPLANT **Rate:** 12 PLANT/PLOT **Depth:** 1 IN
Perennial Age: _____ **Row Spacing:** _____ **Seed Bed:** _____
Soil Temperature: _____ **Soil Moisture:** OPTIMUM **Emergence Date:** _____

Plot Width, Unit: 6 FT **Plot Length, Unit:** 25 FT **Reps:** 4

Site Type: _____ **Study Design:** RACOBL
Tillage Type: CONVENTIONAL
Trial Initiation Comments: 300 LBS/A 5-15-30 PREPLANT;

Previous: Crops	Pesticides	Year
1. FALLOW		2020

MAINTENANCE

Field Prep./Maintenance: _____

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

SOIL DESCRIPTION

Texture: SAND **% OM:** 0.62 **% Sand:** 92 **% Silt:** 6 **% Clay:** 2
pH: 6.0 **CEC:** 2.9 **Soil Name:** FUQUAY **Fertility Level:** GOOD

MOISTURE CONDITIONS

On: Date	Time	Amount	Unit	Type	Interval	Unit
1.	Apr-6-21	0.5	IN	SPRINKLER - LATERAL MOVE		
2.	Apr-9-21	0.27	IN	RAINFALL		
3.	Apr-10-21	0.05	IN	RAINFALL		
4.	Apr-11-21	0.08	IN	RAINFALL		
5.	Apr-12-21	0.3	IN	RAINFALL		
6.	Apr-16-21	0.3	IN	SPRINKLER - LATERAL MOVE		
7.	Apr-17-21	0.1	IN	RAINFALL		
8.	Apr-18-21	0.01	IN	RAINFALL		
9.	Apr-24-21	6.0	IN	RAINFALL		
10.	May-3-21	0.1	IN	RAINFALL		
11.	May-4-21	1.15	IN	RAINFALL		
12.	May-11-21	0.15	IN	RAINFALL		
13.	May-17-21	0.25	IN	SPRINKLER - LATERAL MOVE		
14.	May-24-21	0.5	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:	Apr-5-21	_____	_____	_____	_____	_____	_____
Time of Day:	7:40 AM	_____	_____	_____	_____	_____	_____
Application Method:	BROADCAST	_____	_____	_____	_____	_____	_____
Application Timing:	PPI	_____	_____	_____	_____	_____	_____
Applic. Placement:	SOIL	_____	_____	_____	_____	_____	_____
Air Temp., Unit:	47 F	_____	_____	_____	_____	_____	_____
% Relative Humidity:	85	_____	_____	_____	_____	_____	_____
Wind Velocity, Unit:	1 MPH	_____	_____	_____	_____	_____	_____
Dew Presence (Y/N):	Y	_____	_____	_____	_____	_____	_____
Water Hardness:	--	_____	_____	_____	_____	_____	_____
Soil Temp., Unit:	54 F	_____	_____	_____	_____	_____	_____
Soil Moisture:	OPTIMUM	_____	_____	_____	_____	_____	_____
% Cloud Cover:	0	_____	_____	_____	_____	_____	_____

		CROP STAGE AT EACH APPLICATION					
		A	B	C	D	E	F
Crop 1	Stage: NIOTA	_____	_____	_____	_____	_____	_____
	Stage Scale:	_____	_____	_____	_____	_____	_____
	Height, Unit:	_____	_____	_____	_____	_____	_____

		WEED STAGE AT EACH APPLICATION					
		A	B	C	D	E	F
Weed 1	Stage:	_____	_____	_____	_____	_____	_____
	Stage Scale:	_____	_____	_____	_____	_____	_____
	Density, Unit:	_____	_____	_____	_____	_____	_____

		APPLICATION EQUIPMENT					
		A	B	C	D	E	F
Appl. Equipment:	BACKPACK	_____	_____	_____	_____	_____	_____
Operating Pressure:	36	_____	_____	_____	_____	_____	_____
Nozzle Type:	AIXR	_____	_____	_____	_____	_____	_____
Nozzle Size:	11002	_____	_____	_____	_____	_____	_____
Nozzle Spacing, Unit:	20 IN	_____	_____	_____	_____	_____	_____
Nozzles/Row:	_____	_____	_____	_____	_____	_____	_____
Band Width, Unit:	_____	_____	_____	_____	_____	_____	_____
Boom Length, Unit:	60 IN	_____	_____	_____	_____	_____	_____
Boom Height, Unit:	20 IN	_____	_____	_____	_____	_____	_____
Ground Speed, Unit:	3.5 MPH	_____	_____	_____	_____	_____	_____
Incorporation Equip.:	_____	_____	_____	_____	_____	_____	_____
Hours to Incorp.:	_____	_____	_____	_____	_____	_____	_____
Incorp. Depth, Unit:	_____	_____	_____	_____	_____	_____	_____
Carrier:	WATER	_____	_____	_____	_____	_____	_____
Spray Volume, Unit:	15 GPA	_____	_____	_____	_____	_____	_____
Spray pH:	_____	_____	_____	_____	_____	_____	_____
Propellant:	CO2	_____	_____	_____	_____	_____	_____
Tank Mix (Y/N):	—	_____	_____	_____	_____	_____	_____

Trt No	Treatment Application Comment
_____	_____

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Trial ID:	TB-02-21	Study Dir.:	JM MOORE
Location:	PONDER FARM	Investigator:	Eric P. Prostko

Weed Code						
Crop Code		-----	-----	-----		
Part Rated		Niota	Niota	Niota		
Rating Data Type		Plant, -	Plant, -	Plant, -		
Rating Unit		Stunting	Stand	Stunting		
Rating Date		%	#/plot	%		
Trt-Eval Interval		May-4-21	May-4-21	May-12-21		
		29 DA-A	29 DA-A	37 DA-A		
Trt No.	Treatment Name	Form	Form	Rate	Appl Unit	Code
1	NTC			0.0		b
2	GARLON	3 SL		32.0	oz/a	A
3	GARLON	3 SL		6.4	oz/a	A
4	GARLON	3 SL		3.2	oz/a	A
5	GARLON	3 SL		0.64	oz/a	A
6	GARLON	3 SL		0.32	oz/a	A
LSD P=.10				6.26		
Standard Deviation				5.05		
CV				65.49		
Grand Mean				7.71		
Bartlett's X2^				8.194		
P(Bartlett's X2)				0.146		

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 ^Calculated from residual.

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Trial ID:	TB-02-21	Study Dir.:	JM MOORE			
Location:	PONDER FARM	Investigator:	Eric P. Prostko			
Randomized Complete Block (RCB) AOV For ----- Niota Plant Stunting % May-4-21 29 DA-A (Data Column 1)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	23	5098.958333				
Replicate	3	61.458333	20.486111	0.804	0.5110	
Treatment	5	4655.208333	931.041667	36.531	0.0001	
Error	15	382.291667	25.486111			
Randomized Complete Block (RCB) AOV For ----- Niota Plant Stand #/plot May-4-21 29 DA-A (Data Column 2)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	23	22.625000				
Replicate	3	0.791667	0.263889	0.468	0.7090	
Treatment	5	13.375000	2.675000	4.744	0.0085	
Error	15	8.458333	0.563889			
Randomized Complete Block (RCB) AOV For ----- Niota Plant Stunting % May-12-21 37 DA-A (Data Column 3)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	23	1462.500000				
Replicate	3	87.500000	29.166667	1.522	0.2496	
Treatment	5	1087.500000	217.500000	11.348	0.0001	
Error	15	287.500000	19.166667			
<u>Crop Code</u>						
Niota = TOBACCO, FLUE-CURED / NICOTIANA TABACUM L.						
<u>Part Rated</u>						
Plant = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)						

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Weed Code					-----	-----	-----	
Crop Code					Niota	Niota	Niota	
Part Rated					Plant, -	Plant, -	Plant, -	
Rating Data Type					Stunting	Stand	Stunting	
Rating Unit					%	#/plot	%	
Rating Date					May-4-21	May-4-21	May-12-21	
Trt-Eval Interval					29 DA-A	29 DA-A	37 DA-A	
Trt	Treatment	Form	Form	Rate	Appl			
No.	Name	Conc	Type	Rate	Unit	Code	Plot	
								1
								2
								3
1	NTC						101	0.0
							204	0.0
							302	0.0
							403	0.0
							Mean =	0.0
2	GARLON	3	SL	32.0	oz/a	A	102	50.0
							206	35.0
							305	40.0
							406	30.0
							Mean =	38.8
3	GARLON	3	SL	6.4	oz/a	A	103	0.0
							201	0.0
							303	10.0
							405	0.0
							Mean =	2.5
4	GARLON	3	SL	3.2	oz/a	A	104	0.0
							205	0.0
							301	0.0
							404	0.0
							Mean =	0.0
5	GARLON	3	SL	0.64	oz/a	A	105	0.0
							203	0.0
							306	10.0
							402	0.0
							Mean =	2.5
6	GARLON	3	SL	0.32	oz/a	A	106	0.0
							202	0.0
							304	0.0
							401	10.0
							Mean =	2.5

Crop Code
 Niota = TOBACCO, FLUE-CURED / NICOTIANA TABACUM L.

Part Rated
 Plant = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)