University of Georgia

Transplant Onion Tolerance to Goal 2 XL and Goal 4 F.

Trial ID: Onion9-05 Study Dir.: Stanley Culpepper
Location: VORF Investigator: Stanley Culpepper

Reps: 4 Plots: 6 by 20 feet
Spray vol: 14.8 gal/ac Mix size: 1 liters (min .61734)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Plot No. By Rep 1	2	3	4
1	Goal 2 XL	2	EC	1.5	pt/a	POST	A	12.67 ml/mx	101	205	302	403
	Pendimax	3.3	EC	2	pt/a	POST	A	16.89 ml/mx				
2	Goal 2 XL	2	EC	3	pt/a	POST	A	25.34 ml/mx	102	201	305	401
	Pendimax	3.3	EC	2	pt/a	POST	A	16.89 ml/mx				
3	Goal 4F	4	F	0.75	pt/a	POST	A	6.334 ml/mx	103	204	303	405
	Pendimax	3.3	EC	2	pt/a	POST	A	16.89 ml/mx				
4	Goal 4 F	2	EC	1.5	pt/a	POST	A	12.67 ml/mx	104	203	304	402
	Pendimax	3.3	EC	2	pt/a	POST	A	16.89 ml/mx				
5	No treatment								105	202	301	404

Sort Order: Treatment

Product quantities required for listed treatments and applications in one trial:

Amount*	Unit	Treatment Name	Lot Code
47.503	ml	Goal 2 XL 2 EC	
84.451	ml	Pendimax 3.3 EC	
7.917	ml	Goal 4F 4 F	
15.834	ml	Goal 4 F 2 EC	

* 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 1 liters (mix size basis).
* Product amount calculations increased 25 % for overage adjustment.

Trial Comments

OBJECTIVE: Compare onion response to Goal 2 XL and Goal 4 F.

Visual Crop Response:
1. Injury at 6 and 18 days after treatment were similar when comparing Goal rates and formulations.
2. By 33 days after treatment, new onion growth was more vigorous when treated with the lower rates of Goal as compared to higher rates. Essentially no differences in Goal formulations were noted. Similar trends were noted at 65 and 100 days after application.

Onion Stand (# of onions in 8 row feet):
1. No treatment impacted onion stand as compared to the non-treated control.

Onion Yield (lbs of onions in 5 row feet):
1. Onion yields were increased 400 to 600% when treated with Goal plus Pendimax as compared to the non-treated control. Again no statistical difference was noted when comparing Goal rates or formulations.

Cutleaf Eveningprimrose Control:
1. All Goal plus Pendimax programs provided complete season long control.

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Trt No.	Treatment Name	Rate	Rate Unit	1	2	3	4	5	6	7	8
	Weed Code								OEOLA	OEOLA	
	Crop Code			onion	onion	onion	onion	onion			onion
	Rating Data Type			injury	injury	injury	injury	injury	control	control	stand
	Rating Unit			percent	percent	percent	percent	percent	percent	percent	#/8'
	Rating Date			Dec-27-04	Jan-08-05	Jan-23-05	Feb-24-05	Mar-31-05	Feb-24-05	Mar-31-05	Mar-31-05
	Trt-Eval Interval			6 DA-A	-348 DA-	33 DA-A	65 DA-A	100 DA-A	65 DA-A	100 DA-A	100 DA-A
1	Goal 2 XL	1.5	pt/a	10	9	6	10	10	100	100	25
	Pendimax	2	pt/a								
2	Goal 2 XL	3	pt/a	11	11	16	16	16	100	100	23
	Pendimax	2	pt/a								
3	Goal 4F	0.75	pt/a	10	9	5	10	8	100	100	25
	Pendimax	2	pt/a								
4	Goal 4 F	1.5	pt/a	11	9	11	13	14	100	100	24
	Pendimax	2	pt/a								
5	No treatment			0	0	2	0	0	0	0	25
LSD (P=.05)				1.9	4.1	3.2	1.9	6.3	0.0	0.0	7.0
Standard Deviation				1.2	2.6	2.1	1.3	4.1	0.0	0.0	4.5
CV				14.82	34.67	26.01	13.18	42.28	0.0	0.0	18.66

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

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Weed Code				harvest
Crop Code				onion
Rating Data Type				lbs
Rating Unit				5'
Rating Date				May-18-05
Trt-Eval Interval				148 DA-A
Trt No.	Treatment Name	Rate	Rate Unit	9
1	Goal 2 XL	1.5	pt/a	6
	Pendimax	2	pt/a	
2	Goal 2 XL	3	pt/a	4
	Pendimax	2	pt/a	
3	Goal 4F	0.75	pt/a	6
	Pendimax	2	pt/a	
4	Goal 4 F	1.5	pt/a	6
	Pendimax	2	pt/a	
5	No treatment			1
LSD (P=.05)				2.8
Standard Deviation				1.5
CV				31.53

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

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Trial ID: Onion9-05 Study Dir.: Stanley Culpepper
Location: VORF Investigator: Stanley Culpepper

GENERAL TRIAL INFORMATION

Study Director: Stanley Culpepper **Title:** Ex. weed science
Affiliation: University of Georgia
Postal Code: 31793

Investigator: Stanley Culpepper **Title:** Ex.weed science
Affiliation: University of Georgia
Postal Code: 31793

TRIAL LOCATION

City: Toombs County **Trial Status:** completed
State/Prov.: GA **Trial Reliability:** good
Postal Code: _____ **Initiation Date:** Dec-03-04
Country: U.S.A. **Planned Completion Date:** _____
E-Longitude of LL Corner °: _____ **N-Latitude of LL Corner °:** _____
Altitude of LL Corner: _____ **Unit:** _____ **Angle y-axis to North °:** _____
Directions:

COOPERATOR/LANDOWNER

Cooperator: _____ **Country:** _____
Org: _____ **Phone No:** _____
Address 1: _____ **Fax No:** _____
Address 2: _____
City: _____
State/Prov: _____
Postal Code: _____

Conducted Under GLP (Y/N): N **Conducted Under GEP (Y/N):** N
Guidelines: _____ **Guideline Description:** _____

Objective:

Conclusions:

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	OEOLA	cutleaf eveningprimrose	

Crop 1: ALLCE onion **Variety:** Grannex 33 PRR
Planting Date: Dec-03-04 **Planting Method:** transplant
Rate: 3 foot **Depth:** 1 in **Perennial Age:** ____ _____
Row Spacing: 15 inch **Spacing Within Row:** 4 inch **Seed Bed:** flat
Soil Temperature: 66 F **Soil Moisture:** irrigated **Emergence Date:** _____

SITE AND DESIGN

Plot Width, Unit: 6 FT **Plot Length, Unit:** 20 FT **Reps:** 4
Site Type: research station
Tillage Type: conventional **Study Design:** RANDOMIZED COMPLETE BLOCK

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

MAINTENANCE

Field Prep./Maintenance:

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

SOIL DESCRIPTION

% Sand: 86 **% OM:** 0.47 **Texture:** loamy sand
% Silt: 10 **pH:** 5.8 **Soil Name:** _____
% Clay: 4 **CEC:** _____ **Fert. Level:** _____

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

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

APPLICATION DESCRIPTION

	A
Application Date:	Dec-21-04
Time of Day:	1:00pm
Application Method:	Broadcast
Application Timing:	POST
Applic. Placement:	overtop
Air Temp., Unit:	62 G
% Relative Humidity:	20
Wind Velocity, Unit:	1 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	53 F
Soil Moisture:	wet
% Cloud Cover:	0

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	ALLCE POST
Stage Scale:	new leaf
Height, Unit:	6 inch

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	OEOLA POST
Stage Scale:	<0.25 in
Density, Unit:	18 ydsq

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APPLICATION EQUIPMENT

	A
Appl. Equipment:	backpack
Operating Pressure:	flat fan
Nozzle Type:	23
Nozzle Size:	11002
Nozzle Spacing, Unit:	18 inch
Nozzles/Row:	
Band Width, Unit:	
Boom Length, Unit:	4.5 feet
Boom Height, Unit:	15 inch
Ground Speed, Unit:	3 mph
Incorporation Equip.:	
Hours to Incorp.:	
Incorp. Depth, Unit:	
Carrier:	water
Spray Volume, Unit:	14.8 GPA
Spray pH:	
Propellant:	CO2
Tank Mix (Y/N):	Y

Trt No	Treatment Application Comment