

# University of Georgia

## Cabbage response to Treflan, Command, and Dual Magnum as affected by time of irrigation.

Trial ID: Veg4-06

Study Dir.: Stanley Culpepper

Location: Ponder 5138

Investigator: Stanley Culpepper

Reps: 4

Plots: 6 by 15 feet

Spray vol: 14.8 gal/ac

Mix size: 1 liters (min .46301)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Code	Amt Product to Measure	Plot No. By Rep			
									1	2	3	4
1	Treflan Plant before watering	4 L	0.75	PT/A	PRE	A		6.334 ml/mx	101	203	306	405
2	Treflan Command Plant before watering	4 L 4 L	0.75 1	PT/A PT/A	PRE PRE	A A		6.334 ml/mx 8.445 ml/mx	102	206	303	404
3	Treflan Plant after watering	4 L	0.75	PT/A	PRE	A		6.334 ml/mx	103	202	305	401
4	Treflan Command Plant after watering	4 L 4 L	0.75 1	PT/A PT/A	PRE PRE	A A		6.334 ml/mx 8.445 ml/mx	104	207	301	402
5	Non-treated								105	204	302	403
6	Treflan Dual Magnum Plant before watering	4 L 4 L	0.75 1	PT/A PT/A	PRE PRE	A A		6.334 ml/mx 8.445 ml/mx	106	205	307	406
7	Treflan Dual Magnum Plant after watering	4 L 4 L	0.75 1	PT/A PT/A	PRE PRE	A A		6.334 ml/mx 8.445 ml/mx	107	201	304	407

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
47.503	ml	Treflan	4	L	
21.113	ml	Command	4	L	
21.113	ml	Dual Magnum	4	L	

\* '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: Determine cabbage response when Treflan, Command, and Dual are applied prior to planting.

#### VISUAL RESPONSE:

1. Cabbage cultivars responded similarly to herbicides.
2. Treflan caused no visual stunting when applied prior to watering and then transplanting.
3. Treflan stunted cabbage 6% when applied after watering and immediately before transplanting.
4. A clear trend was noted with more visual whitening from Command when applied immediately prior to transplanting as compared to applying before watering and then transplanting.
5. Cabbage response to Dual Magnum was similar regardless of application/irrigation timing.

#### COMMENTS:

1. Herbicides were all applied at one time. Plots needing to be transplanted prior to watering were transplanted immediately after herbicide application followed by an irrigation and then planting of those plots needing to be transplanted after watering.

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Weed Code		Blue	
Crop Code		Dynasty	Bravo
Rating Data Type		control	control
Rating Unit		percent	percent
Rating Date		Oct-03-05	Oct-03-05
Trt-Eval Interval		18 DA-A	18 DA-A
Trt No.	Treatment Name	Rate	Unit
		1	2
1	Treflan Plant before watering	0.75	PT/A
		0 b	0 c
2	Treflan Command Plant before watering	0.75 1	PT/A PT/A
		10 ab	14 ab
3	Treflan Plant after watering	0.75	PT/A
		6 ab	6 bc
4	Treflan Command Plant after watering	0.75 1	PT/A PT/A
		15 a	21 a
5	Non-treated		
		0 b	0 c
6	Treflan Dual Magnum Plant before watering	0.75 1	PT/A PT/A
		6 ab	8 bc
7	Treflan Dual Magnum Plant after watering	0.75 1	PT/A PT/A
		9 ab	9 bc
LSD (P=.05)		10.9	11.0
Standard Deviation		7.3	7.4
CV		112.97	91.83
Bartlett's X2		5.73	6.273
P(Bartlett's X2)		0.22	0.18

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

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of irrigation.**

Trial ID: Veg4-06 Study Dir.: Stanley Culpepper  
 Location: Ponder 5138 Investigator: Stanley Culpepper

**GENERAL TRIAL INFORMATION**

**Study Director:** Stanley Culpepper **Title:** Ext. Weed Science  
**Affiliation:** Univ. of Georgia  
**Postal Code:** 31794

**Investigator:** Stanley Culpepper **Title:** Ext. Weed Science  
**Affiliation:** Univ. of Georgia  
**Postal Code:** 31794

**TRIAL LOCATION**

**City:** TyTy **Trial Status:** completed  
**State/Prov.:** GA **Trial Reliability:** good  
**Postal Code:** 31794 **Initiation Date:** Sep-15-05  
**Country:** USA **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.			

**Crop 1:** BRSOL CABBAGE **Variety:** see data, two cultivar  
**Planting Date:** Sep-15-05 **Planting Method:** transplant wheel  
**Rate:** 1 ft **Depth:** 1 in **Perennial Age:** \_\_\_\_ \_\_\_\_  
**Row Spacing:** 3 ft **Spacing Within Row:** 12 inch **Seed Bed:** flat  
**Soil Temperature:** 92 F **Soil Moisture:** moist **Emergence Date:** \_\_\_\_\_

**SITE AND DESIGN**

**Plot Width, Unit:** 6 FT **Plot Length, Unit:** 15 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: 94      % OM: 1.0      Texture: sandy loam  
 % Silt: 4      pH: 6.3      Soil Name: \_\_\_\_\_  
 % Clay: 2      CEC: \_\_\_\_\_      Fert. Level: \_\_\_\_\_

**ADDITIONAL MEASURED ELEMENTS**

Element	Quantity	Unit

**MOISTURE CONDITIONS**

No.	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: \_\_\_\_\_

Closest Weather Station: \_\_\_\_\_ Distance: \_\_\_\_\_ Unit: \_\_\_\_\_

**APPLICATION DESCRIPTION**

	A
Application Date:	Sep-15-05
Time of Day:	11 am
Application Method:	broadcast
Application Timing:	PRE
Applic. Placement:	soil
Air Temp., Unit:	85 F
% Relative Humidity:	64
Wind Velocity, Unit:	2 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	90 F
Soil Moisture:	moist
% Cloud Cover:	20

**CROP STAGE AT EACH APPLICATION**

	A
Crop 1 Code, Stage:	BRSOL see
Stage Scale:	spray she
Height, Unit:	

**WEED STAGE AT EACH APPLICATION**

	A
Weed 1 Code, Stage:	
Stage Scale:	
Density, Unit:	

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## APPLICATION EQUIPMENT

	A
Appl. Equipment:	backpack
Operating Pressure:	23
Nozzle Type:	flat fan
Nozzle Size:	11002
Nozzle Spacing, Unit:	18 inch
Nozzles/Row:	2
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