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Seeded Onion Response to Various Application Timings of Prowl H20.

Trial ID: Onion6-05 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	Dacthal	6	L	4	lb ai/a	PRE	A	45.04 ml/mx	101	204	303	401
2	Dacthal	6	L	4	lb ai/a	PRE	A	45.04 ml/mx	102	206	301	403
	Prowl H20	3.8	L	1	pt/a	POST1	B	8.445 ml/mx				
3	Dacthal	6	L	4	lb ai/a	PRE	A	45.04 ml/mx	103	201	306	405
	Prowl H20	3.8	L	2	pt/a	POST1	B	16.89 ml/mx				
4	Dacthal	6	L	4	lb ai/a	PRE	A	45.04 ml/mx	104	205	302	406
	Prowl H20	3.8	L	1	pt/a	POST2	C	8.445 ml/mx				
5	Dacthal	6	L	4	lb ai/a	PRE	A	45.04 ml/mx	105	202	305	404
	Prowl H20	3.8	L	2	pt/a	POST2	C	16.89 ml/mx				
6	Dacthal	6	L	4	lb ai/a	PRE	A	45.04 ml/mx	106	203	304	402
	Prowl H20	3.8	L	1	pt/a	POST1	B	8.445 ml/mx				
	Prowl H20	3.8	L	1	pt/a	POST2	C	8.445 ml/mx				

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Lot Code
337.802	ml	Dacthal 6 L	
84.451	ml	Prowl H20 3.8 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: Evaluate potential for Prowl H20 to be applied in seeded onion prior to the 2-leaf stage of growth.

Onion Response:
1. Applying Prowl H20 at 1pt/A to spike onion caused only 4 to 5% injury which was transient and short lived. Increasing the rate of Prowl to 2 pt/A only slightly increased injury.
2. Applying Prowl H20 at 1 or 2 pt/A to 1 leaf onion caused essentially no injury.
3. Prowl H20 at 1 pt/A applied to spike onion followed by another 1 pt/A of Prowl H20 applied at 1 leaf onion caused only 4 to 8% injury which was transient and short lived.
4. Primrose was not controlled so plots were discontinued.

Primrose control:
1. Prowl applied prior to primrose emergence provided fair to good control for up to one month.

GENERAL COMMENTS:
Dacthal misses Eclipta

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Trt No.	Treatment Name	Rate	Rate Unit	1	2	3	4	5
	Weed Code						OEOLA	OEOLA
	Crop Code			onion	onion	onion		
	Rating Data Type			injury	injury	injury	control	control
	Rating Unit			percent	percent	percent	percent	percent
	Rating Date			Oct-29-04	Nov-22-04	Dec-07-04	Oct-29-04	Nov-22-04
	Trt-Eval Interval			24 DA-A	48 DA-A		24 DA-A	48 DA-A
1	Dacthal	4	lb ai/a	0	0	0	0	0
2	Dacthal	4	lb ai/a	4	5	0	73	69
	Prowl H20	1	pt/a					
3	Dacthal	4	lb ai/a	12	10	0	88	73
	Prowl H20	2	pt/a					
4	Dacthal	4	lb ai/a	0	3	0	0	36
	Prowl H20	1	pt/a					
5	Dacthal	4	lb ai/a	0	3	0	0	31
	Prowl H20	2	pt/a					
6	Dacthal	4	lb ai/a	4	8	0	68	64
	Prowl H20	1	pt/a					
	Prowl H20	1	pt/a					
	LSD (P=.05)			3.7	3.4	0.0	10.2	14.8
	Standard Deviation			2.5	2.2	0.0	6.8	9.8
	CV			76.27	46.87	0.0	17.87	21.68

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

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Trial ID: Onion6-05 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: Vidalia **Trial Status:** completed
State/Prov.: GA **Trial Reliability:** good
Postal Code: 31794 **Initiation Date:** Oct-05-04
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: Oct-05-04 **Planting Method:** seeded
Rate: 4 per ft **Depth:** 0.15 in **Perennial Age:** ____ _____
Row Spacing: 15 inch **Spacing Within Row:** 3 inch **Seed Bed:** flat
Soil Temperature: 75 F **Soil Moisture:** irrigated **Emergence Date:** Oct-13-04

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

APPLICATION DESCRIPTION

	A	B	C
Application Date:	Oct-05-04	Oct-14-04	Oct-29-04
Time of Day:	10:00am	9:30am	8:40am
Application Method:	Broadcast	Broadcast	Broadcast
Application Timing:	PRE	POST 1	POST 2
Applic. Placement:	on soil	overtop	overtop
Air Temp., Unit:	83 F	66 F	71 F
% Relative Humidity:	35	44	26
Wind Velocity, Unit:	2 mph	3 mph	0 mph
Dew Presence (Y/N):	n	n	n
Water Hardness:			
Soil Temp., Unit:	75 F	68 F	69 F
Soil Moisture:	fair	moist	fair
% Cloud Cover:	15	0	100

CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	ALLCE PRE	ALLCE POST 1	ALLCE POST 2
Stage Scale:	not up	spike	1-2 leaf
Height, Unit:	0 inch	0.75 inch	1.5 inch

WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code, Stage:	OEOLA PRE	OEOLA POST 1	OEOLA
Stage Scale:	not up	0.025inch	1 inch
Density, Unit:	0 ydsq	4	15

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APPLICATION EQUIPMENT

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

Trt No	Treatment Application Comment