		Tı	anspl	ant (Onion	Respon	ise tc) Various Ra	ates c	of Va	lor A	fter	Transplant.
Tri Loc	al ID: Oni <u>ation: V</u> OR	on4-0! <u>F</u>	5			2 Inv	Study <u>resti</u> g	Dir.: Stan Jator: Stan	ley Cı <u>ley C</u> ı	ulpep <u>ulpe</u> p	per		
Rep	eps: 4 Plots: 6 by 20 feet												
Spra	<u>ıy vol: 14.8 g</u> a	al/ac		Mix si	ze: 1 l	iters (mir	<u>1.6173 ו</u>	4)					
Trt	Treatment	Form	Form		Rate	Grow	Appl	Amt Product	Plot N	o. By	Rep		
No.	Name	Conc	Туре	Rate	Unit	Stg	Code	to Measure	1	2	3	4	
1	Valor	51	WDG	1	oz/a	at trans	А	0.506 g/mx	101	204	308	406	
2	Valor	51	WDG	1.5	oz/a	at trans	Α	0.759 g/mx	102	201	307	404	
3	Valor	51	WDG	2	oz/a	at trans	Α	1.012 g/mx	103	207	306	403	
4	Valor	51	WDG	2.5	oz/a	at trans	A	1.265 g/mx	104	206	305	407	
5	Valor	51	WDG	3	oz/a	at trans	А	1.518 g/mx	105	203	309	408	
6	Valor	51	WDG	1	oz/a	at trans	A	0.506 g/mx	106	209	301	409	
	Prowl H20	3.8	L	1	qt/a	at trans	Α	16.89 ml/mx					
7	Valor	51	WDG	1.5	oz/a	at trans	Α	0.759 g/mx	107	208	302	401	
	Prowl H20	3.8	L	1	qt/a	at trans	А	16.89 ml/mx					
8	Goal	2	L	1	qt/a	at trans	Α	16.89 ml/mx	108	205	303	405	
	Prowl H20	3.8	L	1	qt/a	at trans	Α	16.89 ml/mx					
9	Non-treated								109	202	304	402	

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Lot Code
7.907	g	Valor 51 WDG	
63.338	ml	Prowl H20 3.8 L	
21.113	ml	Goal 2 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 onion and weed response to Valor herbicide programs.

Visual Onion Response:

- 1. As in the past, initial injury is burn however by late-season injury is a response to stunting.
- 2. At late-season, onions were stunted 6 to 12% by Valor at 1 to 1.5 oz/A. Greater stunting was noted with 2, 2.5, and 3 oz/A of Valor.
- 3. Mixing Prowl with Valor did not increase onion injury.

Weed Response:

- 1. Henbit and swinecress control was excellent throughout the season with all herbicide programs.
- 2. Early and mid-season control of primrose was excellent with all herbicide programs.
- 3. By late-season, Valor at 1 oz/A with or without Prowl were the only programs providing less than 92% control.

Onion Stands:

1. Valor at 2.5 and 3 oz/A reduced onion stands.

CONCLUSIONS:

1. We need to get 1.5 oz/A of Valor in the program but figure out how to eliminate the 6 to 12% stunting noted at harvest. Work on sequential applications.

	Trans	olant Onion	n Response	e to Vario	ous Rates	of Valor	After Tra	ansplant.		
Trial ID: Onion4 Location: VORF	4-05		St Inve	udy Dir.: stigator:	Stanley Stanley	Culpepper Culpepper				
Weed Code								LAMAM	LAMAM	
Crop Code		onion	onion	onion	onion	onion	onion			
Rating Data Type		injury	injury	injury	injury	injury	injury	control	control	
Rating Unit		percent	percent	percent	percent	percent	percent	percent	percent	
Rating Date		Dec-21-04	Dec-27-04	Jan-08-04	Jan-23-04	Feb-25-05	Mar-31-05	Feb-25-05	Mar-31-05	
Trt-Eval Interval		14 DA-A	20 DA-A	-334 DA-	-319 DA-	80 DA-A	114 DA-A	80 DA-A	114 DA-A	
Trt Treatment	Rate ate Unit	1	2	3	4	5	6	7	8	
1 Valor	1 oz/a	. 5	- 8	3	. 3	12	6	100	100	
2 Valor	1.5 oz/a	5	11	4	4	12	8	100	100	
3 Valor	2 oz/a	7	13	10	11	30	19	100	100	
4 Valor	2.5 oz/a	6	12	11	9	28	26	100	100	
5 Valor	3 oz/a	12	15	11	11	37	31	100	100	
6 Valor Prowl H20	1 oz/a 1 qt/a	9	13	7	7	14	10	100	100	
7 Valor Prowl H20	1.5 oz/a 1 qt/a	4	6	0	4	6	5	100	100	
8 Goal Prowl H20	1 qt/a 1 qt/a	18	17	11	6	21	12	100	100	
9 Non-treated		0	0	0	0	0	0	0	0	
LSD (P=.05)		5.7	5.6	4.9	6.6	13.3	7.7	0.0	0.0	
Standard Deviation		3.9	3.8	3.3	4.5	9.1	5.3	0.0	0.0	
CV		54.03	36.52	54.26	75.8	51.53	41.48	0.0	0.0	

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

Wee	ed Code			COPSS	COPSS	OEOLA	OEOLA	OEOLA	
Cro	p Code								onion
Rati	ing Data Type	;		control	control	control	control	control	stand cts
Rat	ing Unit			percent	percent	percent	percent	percent	#/8'
Rati	ng Date			Feb-25-05	Mar-31-05	Feb-25-05	Mar-31-05	May-17-05	Mar-31-05
Trt-I	Eval Interval			80 DA-A	114 DA-A	80 DA-A	114 DA-A	161 DA-A	114 DA-A
Trt	Treatment		Rate						
No.	Name	Rate	Unit	9	10	11	12	13	14
1	Valor	1	oz/a	100	100	100	99	88	29
2	Valor	1.5	oz/a	100	100	100	100	100	27
3	Valor	2	oz/a	100	100	100	100	99	24
4	Valor	2.5	oz/a	100	100	100	100	100	20
5	Valor	3	oz/a	100	100	100	100	100	21
6	Valor	1	oz/a	100	100	99	98	84	26
	Prowl H20	1	qt/a						
7	Valor	1.5	oz/a	100	100	100	100	98	29
	Prowl H20	1	qt/a						
8	Goal	1	qt/a	100	100	100	100	92	24
	Prowl H20	1	qt/a						
9	Non-treated			0	0	0	0	0	27
LSE) (P=.05)			0.0	0.0	1.0	2.8	10.0	4.7
Star	ndard Deviati	on		0.0	0.0	0.7	1.9	6.9	3.2
CV				0.0	0.0	0.75	2.14	8.12	12.92

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

Mar-03-06 (ONION4-05)

University of Georgia

	Transplant Onion Respo	onse to Various Rates of Valor After Transp	lant.
Trial ID: Onior	14-05	Study Dir.: Stanley Culpepper	
Location: VORF	Ir	nvestigator: Stanley Culpepper	
	GENERAL TRIAI	L INFORMATION	
Study Director: Affiliation: Postal Code:	Stanley Culpepper University of Georgia 31973	Title: Ex. weed science	
Investigator: Affiliation: Postal Code:	Stanley Culpepper University of Georgia 31793	Title: Ex. weed science	
	TRIAL I	LOCATION	
City: Vi	dalia	Trial Status: completed	
State/Prov.: GA	7	Trial Reliability: excellent	
Postal Code: 31	.794	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	R/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 Desc	cription:	
		· • · · · ·	
Objective:			
Conclusions:			

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	OEOLA	cutleaf eveningprimrose	
2.	LAMAM	henbit	
3.	COPSS	swinecress	

Crop 1: ALLCE ONION Planting Date: Dec-03-04	Variety: Grannex 33 PRR Planting Method: transplant
Rate: 3 ft D	epth: 1 in Perennial Age:
Row Spacing: 15 inch Spa	cing Within Row: 4 inch Seed Bed: flat
Soil Temperature: 66 F So	il Moisture: irrigated Emergence Date:
	SITE AND DESIGN
Plot Width, Unit: 6 FT	Plot Length, Unit: 20 FT Reps: 4
Site Type: research statio	n
Tillage Type: conventional	Study Design: RANDOMIZED COMPLETE BLOCK
Trial Initiation Comments:	

 Previous Crops
 Previous Pesticides
 Year

 1.

MAINTENANCE

Field Prep./Maintenance:

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

%	Sand:	86	% OM:	0.47
%	silt:	10	pH:	5.8
%	Clay:	4	CEC:	

SOIL DESCRIPTION Texture: loamy sand

5.8 Soil Name: _____ ____ Fert. Level: _____

ADDITIONAL	MEASURED	ELEMEN	ITS
Element	Quant	ity	Unit

MOISTURE CONDITI	ONS
------------------	-----

	Date	Time	Amount	Unit	Туре	Interval	Unit
1.							

Overall Moisture Conditions: .		
Closest Weather Station:	Distance:	Unit:

APPLICATION DESCRIPTION

	A
Application Date:	Dec-07-04
Time of Day:	10 am
Application Method:	Broadcast
Application Timing:	at trans
Applic. Placement:	overtop
Air Temp., Unit:	72 F
% Relative Humidity:	64
Wind Velocity, Unit:	4 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	66 F
Soil Moisture:	moist
% Cloud Cover:	0

CROP STAGE AT EACH APPLICATION

	A	
Crop 1 Code, Stage:	ALLCE at trans	
Stage Scale:	transplan	
Height, Unit:	3 inch	

Site Description Page 6 of 6

University of Georgia

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	OEOLA at trans
Stage Scale:	not up
Density, Unit:	15 ydsq
Weed 2 Code, Stage:	LAMAM at trans
Stage Scale:	not up
Stage Scale: Density, Unit:	not up 3 ydsq
Stage Scale: Density, Unit: Weed 3 Code, Stage:	not up 3 ydsq COPSS at trans
Stage Scale: Density, Unit: Weed 3 Code, Stage: Stage Scale:	not up 3 ydsq COPSS at trans not up

APPLICATION EQUIPMENT

	A
Appl. Equipment:	backpack
Operating Pressure:	23
Nozzle Type:	flat fan
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