

University of Georgia

Seeded turnip green response to Dual Magnum PRE and POST.

Trial ID: Veg23-11
Location: Tift Co.

Study Dir.: Stanley Culpepper
Investigator: Stanley Culpepper

Use 1 liters(s) per treatment mixture to spray 15 gal/ac
Plots: 6 by 25 feet

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	No herbicide								101	203	307	403
2	Dual Magnum	7.64	L	12	oz/a	PRE	A	6.249 ml/mx	102	210	301	408
3	Dual Magnum	7.64	L	24	oz/a	PRE	A	12.5 ml/mx	103	209	303	404
4	Dual Magnum	7.64	L	12	oz/a	crack	B	6.249 ml/mx	104	208	305	402
5	Dual Magnum	7.64	L	24	oz/a	crack	B	12.5 ml/mx	105	206	302	409
6	Dual Magnum	7.64	L	12	oz/a	full cot	C	6.249 ml/mx	106	201	304	406
7	Dual Magnum	7.64	L	24	oz/a	full cot	C	12.5 ml/mx	107	202	309	411
8	Dual Magnum	7.64	L	12	oz/a	1-2 lf	D	6.249 ml/mx	108	205	311	410
9	Dual Magnum	7.64	L	24	oz/a	1-2 lf	D	12.5 ml/mx	109	211	306	407
10	Dual Magnum	7.64	L	12	oz/a	3-4 lf	E	6.249 ml/mx	110	207	310	401
11	Dual Magnum	7.64	L	24	oz/a	3-4 lf	E	12.5 ml/mx	111	204	308	405

Sort Order: Treatment

Trial Comments

OBJECTIVE: Determine if Dual Magnum can be used in turnip greens.

VISUAL INJURY:

1. Dual applied to greens at PRE, crack, full cotyledon, and 1-2 leaf caused severe injury (>20%).
2. Dual applied to 3 to 4 leaf greens caused at most 2 and 7% injury with 12 or 24 oz/A, respectively.
3. Rate of Dual greatly impacted injury but turnip green stage of growth was more important.

PLANT STAND:

1. Dual applied at 12 oz/A did not reduce plant stand except when applied PRE.
2. Dual applied at 24 oz/A reduced plant stand when applied PRE, crack, or full cotyledon.

PLANT LEAF DIAMETER:

1. Dual did not reduce plant growth when applied to turnip at the 1-2 or 3-4 leaf stages. Measurements were taken just prior to the first cutting.

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Weed Code	BRSRP	BRSRP	BRSRP	BRSRP	BRSRP	AVG10PLA
Crop Code						BRSRP
Rating Data Type	INJURY	INJURY	INJURY	INJURY	#/FT	DIAMETER
Rating Unit	%	%	%	%	#	CM
Rating Date	4/21/2011	4/26/2011	4/30/2011	5/6/2011	5/6/2011	5/6/2011
Crop Stage						AVERAGE
Assessed By	SC	SC	SC	SC		
Trt-Eval Interval	3 DA-B	5 DA-C	4 DA-D	6 DA-E	6 DA-E	6 DA-E
ARM Action Codes						T1

Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5	6	18	
1	No herbicide			0.0	c 0.0	f 0.0	e 0.0	f	7.250	ab	30.15 a
2	Dual Magnum	12	oz/a	3.3	c 8.0	e 21.3	d 14.8	de	6.250	bc	25.70 b-e
3	Dual Magnum	24	oz/a	82.0	a 87.5	a 88.8	a 72.5	a	1.438	e	20.43 f
4	Dual Magnum	12	oz/a	4.5	c 21.5	d 30.0	d 33.8	bc	7.000	abc	24.23 c-f
5	Dual Magnum	24	oz/a	47.5	b 50.0	b 65.0	b 42.0	b	4.438	d	23.40 def
6	Dual Magnum	12	oz/a	0.0	c 33.3	c 45.8	c 25.8	cd	7.500	ab	20.33 f
7	Dual Magnum	24	oz/a	0.0	c 38.8	c 72.5	b 37.8	bc	5.500	cd	21.60 ef
8	Dual Magnum	12	oz/a	0.0	c 0.0	f 22.5	d 9.3	ef	8.000	a	29.35 ab
9	Dual Magnum	24	oz/a	0.0	c 0.0	f 27.5	d 7.5	ef	7.750	ab	27.60 a-d
10	Dual Magnum	12	oz/a	0.0	c 0.0	f 0.0	e 2.0	ef	7.750	ab	30.95 a
11	Dual Magnum	24	oz/a	0.0	c 0.0	f 0.0	e 7.0	ef	7.500	ab	28.15 abc
LSD (P=.05)				5.11	6.98	11.03	12.97	.	1.5332		4.270
Standard Deviation				3.54	4.84	7.64	8.99	.	1.0619		2.957
CV				28.38	22.26	22.52	39.18	.	16.6		11.54
Bartlett's X2				3.486	4.745	10.066	30.262	.	12.654		12.438
P(Bartlett's X2)				0.323	0.314	0.185	0.001*	.	0.179		0.257
Replicate F				2.250	1.822	0.502	0.222		0.153		0.812
Replicate Prob(F)				0.1029	0.1645	0.6839	0.8805		0.9270		0.4974
Treatment F				232.848	138.470	64.406	24.154		13.842		6.916
Treatment Prob(F)				0.0001	0.0001	0.0001	0.0001		0.0001		0.0001

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

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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GENERAL TRIAL INFORMATION

Study Director: Stanley Culpepper Affiliation: UNIVERSITY OF GEORGIA Postal Code: 31793 Investigator: Stanley Culpepper Affiliation: UNIVERSITY OF GEORGIA Postal Code: 31793	Title: EXTENSION WEED SCIENCE Title: EXTENSION WEED SCIENCE
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TRIAL LOCATION

City: Omega State/Prov.: GEORGIA Country: USA	Trial Status: COMPLETED Trial Reliability: completed Initiation Date: 4/13/2011
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Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

Crop 1: BRSRR TURNIP Planting Date: 4/13/2012 Rate: 8 ft Row Spacing: 1 ft Soil Temperature: 92 F	Variety: SOUTHERN GREENS Planting Method: drilled Depth: 0.25 in Spacing Within Row: 1.5 inch Seed Bed: flat Soil Moisture: irrigated Emergence Date: 4/18/2011
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SITE AND DESIGN

Plot Width, Unit: 6 FT Site Type: Gibbs Patrick Farms Tillage Type: Conventional	Plot Length, Unit: 25 FT Study Design: RANDOMIZED COMPLETE BLOCK	Reps: 4
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SOIL DESCRIPTION

% Sand: 91 % Silt: 4 % Clay: 5	% OM: 1 pH: 6.6	Soil Name: loamy sand
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Overall Moisture Conditions: irrigated

APPLICATION DESCRIPTION

	A	B	C	D	E
Application Date:	4/13/2011	4/18/2011	4/21/2011	4/26/2011	4/30/2011
Time of Day:	4:30 PM	9:50 AM	10:00 AM	8:00 AM	10:00 AM
Application Method:	BROADCAST	BROADCAST	BROADCAST	BROADCAST	BROADCAST
Application Timing:	PRE	CRACKING	Full Cot	2 LEAF	5 LEAF
Applic. Placement:	ON SOIL	OVERTOP	OVERTOP	OVERTOP	OVERTOP
Air Temp., Unit:	84 F	66 F	79 F	71 F	79 F
% Relative Humidity:	38	62	73	70	20
Wind Velocity, Unit:	3.6 MPH	2 MPH	0 MPH	3 MPH	0 MPH
Dew Presence (Y/N):	N	Y	N	Y	Y
Soil Temp., Unit:	92.4 F	64 F	79 F	68 F	72 F
Soil Moisture:	DRY	WET	MOIST	MOIST	MOIST
% Cloud Cover:	0	0	0	0	0

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E
Crop 1 Code, Stage:	BRSRR	BRSRR	BRSRR	BRSRR	BRSRR
Stage Scale:	not up	60% EMERG	COT-1 LF	2 LEAF	5-6 LEAF
Height, Unit:	0 inch	0.06 IN	0.25 IN	1.5 IN	4 IN

APPLICATION EQUIPMENT

	A	B	C	D	E
Appl. Equipment:	BACKPACK	BACKPACK	BACKPACK	BACKPACK	BACKPACK
Operating Pressure:	26 PSI	26 PSI	26 PSI	26 PSI	26 PSI
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN
Nozzle Size:	11002	11002	11002	11002	11002
Nozzle Spacing, Unit:	18 IN	18 IN	18 IN	18 IN	18 IN
Nozzles/Row:	2	2	2	2	2
Boom Length, Unit:	4.5 FT	4.5 FT	4.5 FT	4.5 FT	4.5 FT
Boom Height, Unit:	15 IN	15 IN	15 IN	15 IN	15 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH	3 MPH	3 MPH
Carrier:	H2O	H2O	H2O	H2O	H2O
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA	15 GPA	15 GPA
Propellant:	CO2	CO2	CO2	CO2	CO2
Tank Mix (Y/N):	Y	Y	Y	Y	Y