

University of Georgia

Wild radish response to glyphosate plus 2,4-D, Harmony Extra, or Express.

Trial ID: C6-05

Study Dir.: Culpepper

Location: Ponder 5151

Investigator: Stanley Culpepper

Reps: 3

Plots: 6 by 20 feet

Spray vol: 14.8 gal/ac

Mix size: 1 liters (min .46301)

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Plot No. By Rep		
									1	2	3
1	Roundup WeatherMax	5.5	L	22	oz/a		A	11.61 ml/mx	101	206	308
2	Roundup WeatherMax	5.5	L	22	oz/a		A	11.61 ml/mx	102	207	304
	Weedar	4	L	16	oz/a		A	8.446 ml/mx			
3	Roundup WeatherMax	5.5	L	22	oz/a		A	11.61 ml/mx	103	202	309
	Weedar	4	L	24	oz/a		A	12.67 ml/mx			
4	Roundup WeatherMax	5.5	L	22	oz/a		A	11.61 ml/mx	104	201	306
	Express	75	DF	0.33	oz/a		A	0.167 g/mx			
5	Roundup WeatherMax	5.5	L	22	oz/a		A	11.61 ml/mx	105	209	302
	Express	75	DF	0.165	oz/a		A	.08349 g/mx			
6	Roundup WeatherMax	5.5	L	22	oz/a		A	11.61 ml/mx	106	208	303
	Express	75	DF	0.0825	oz/a		A	.04175 g/mx			
7	Roundup WeatherMax	5.5	L	22	oz/a		A	11.61 ml/mx	107	205	301
	Harmony Extra	75	DF	0.5	oz/a		A	0.253 g/mx			
8	Roundup WeatherMax	5.5	L	22	oz/a		A	11.61 ml/mx	108	204	307
	Harmony Extra	75	DF	0.25	oz/a		A	0.1265 g/mx			
9	Roundup WeatherMax	5.5	L	22	oz/a		A	11.61 ml/mx	109	203	305
	Harmony Extra	75	DF	0.125	oz/a		A	.06325 g/mx			

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Lot Code
130.649	ml	Roundup WeatherMax 5.5 L	
26.394	ml	Weedar 4 L	
0.365	g	Express 75 DF	
0.553	g	Harmony Extra 75 DF	

* '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 wild radish and cotton response to Harmony Extra, Express, and Weedar applied at burndown.

Wild Radish Response:

- At 15 DAT, Harmony or Express mixed with Roundup improved control at least 11% compared to Roundup alone.
- At 30 DAT, the greatest level of control was noted with Harmony or Express mixed with Roundup.
- Control by Roundup and Roundup plus 2,4-D was also excellent, but less effective than Express or Harmony mixtures.

Cotton Response:

- At 12 to 14 day after emergence, treatments had no impact on plant stand.
- Seed cotton was extremely uniform and no differences in yield were noted.

GENERAL COMMENTS:

- The control was maintained weed free by applying Roundup at the 1 leaf stage, Roundup plus Dual at the 5 leaf stage, and Direx plus MSMA at layby.

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Weed Code		RAPRA	RAPRA	RAPRA	GOSHI	GOSHI	GOSHI		
Crop Code		cotton	cotton	cotton	injury	seed yld	seed yld		
Rating Data Type		control	control	control	percent	lb/plot	lb/A		
Rating Unit		percent	percent	percent					
Rating Date		Apr-15-05	Apr-19-05	May-05-05	May-17-05	Sep-28-05	Sep-28-05		
Trt-Eval Interval		11 DA-A	15 DA-A	31 DA-A	43 DA-A	177 DA-A	177 DA-A		
ARM Action Codes							TY1		
# Subsamples, Dec.							1		
Trt No.	Treatment Name	Rate	Rate Unit	1	2	3	4	5	6
1	Roundup WeatherMax	22 oz/a		58	78	89	0	11	3966.4
2	Roundup WeatherMax Weedar	22 oz/a 16 oz/a		57	73	90	0	11	4130.9
3	Roundup WeatherMax Weedar	22 oz/a 24 oz/a		55	73	94	0	12	4334.2
4	Roundup WeatherMax Express	22 oz/a 0.33 oz/a		60	93	99	0	11	4169.7
5	Roundup WeatherMax Express	22 oz/a 0.165 oz/a		63	91	96	0	11	4109.2
6	Roundup WeatherMax Express	22 oz/a 0.0825 oz/a		67	93	99	0	11	4077.7
7	Roundup WeatherMax Harmony Extra	22 oz/a 0.5 oz/a		60	89	99	0	11	4143.0
8	Roundup WeatherMax Harmony Extra	22 oz/a 0.25 oz/a		62	91	98	0	11	4087.4
9	Roundup WeatherMax Harmony Extra	22 oz/a 0.125 oz/a		60	89	97	0	11	3982.1
LSD (P=.05)				5.5	6.8	5.2	0.0	1.8	665.68
Standard Deviation				3.2	4.0	3.0	0.0	1.1	384.57
CV				5.24	4.62	3.16	0.0	9.35	9.35

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

Column 6: TY1 = 363.0*[5]

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

SOIL DESCRIPTION

% Sand: 94 % OM: 1.3 Texture: sand
 % Silt: 2 pH: 5.9 Soil Name: Tifton sandy loam
 % Clay: 4 CEC: _____ Fert. Level: _____

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

No.	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: irrigated

Closest Weather Station: _____ Distance: _____ Unit: __

APPLICATION DESCRIPTION

	A
Application Date:	Apr-04-05
Time of Day:	10 am
Application Method:	broadcast
Application Timing:	burndown
Applic. Placement:	over weed
Air Temp., Unit:	71 F
% Relative Humidity:	44
Wind Velocity, Unit:	1 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	72 F
Soil Moisture:	wet
% Cloud Cover:	0

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	GOSHI preplant
Stage Scale:	not up
Height, Unit:	0 inch

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	RAPRA preplant
Stage Scale:	20"60%pod
Density, Unit:	4 ydsq

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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