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Winter weed and cotton response to NUP mixtures.

Trial ID: C2-05
 Location: Ponder farm

Study Dir.: Culpepper
 Investigator: Stanley Culpepper

Reps: 3 Plots: 6 by 25 feet
 Spray vol: 14.8 gal/ac Mix size: 1 liters (min .57876)

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Grow Unit	Appl Stg	Amt Code	Product to Measure	Plot No. By Rep		
									1	2	3
1	NUP 3E 04	L		40 oz/a		A		21.11 ml/mx	101	205	322
2	NUP 12E 04	L		40 oz/a		A		21.11 ml/mx	102	209	319
3	NUP 3C 02	L		32 oz/a		A		16.89 ml/mx	103	208	312
4	NUP 12A 04	L		32 oz/a		A		16.89 ml/mx	104	206	307
5	NUP 2F 02	L		26 oz/a		A		13.72 ml/mx	105	211	308
6	NUP 12K 04	L		26 oz/a		A		13.72 ml/mx	106	224	317
7	NUP 12C 04	L		26 oz/a		A		13.72 ml/mx	107	203	314
8	NUP 1B 05	L		26 oz/a		A		13.72 ml/mx	108	219	303
9	NUP 3C 02	L		24 oz/a		A		12.67 ml/mx	109	222	315
	NUP 2F 02	L		26 oz/a		A		13.72 ml/mx			
10	NUP 3C 02	L		24 oz/a		A		12.67 ml/mx	110	221	316
	NUP 2F 02	L		16 oz/a		A		8.446 ml/mx			
11	NUP 3C 02	L		24 oz/a		A		12.67 ml/mx	111	204	324
	NUP 12K 04	L		26 oz/a		A		13.72 ml/mx			
12	NUP 3C 02	L		24 oz/a		A		12.67 ml/mx	112	210	313
	NUP 12K 04	L		16 oz/a		A		8.446 ml/mx			
13	NUP 3C 02	L		24 oz/a		A		12.67 ml/mx	113	218	321
	NUP 12C 04	L		26 oz/a		A		13.72 ml/mx			
14	NUP 3C 02	L		24 oz/a		A		12.67 ml/mx	114	216	311
	NUP 12C 04	L		16 oz/a		A		8.446 ml/mx			
15	NUP 3C 02	L		24 oz/a		A		12.67 ml/mx	115	202	320
	NUP 1B 05	L		26 oz/a		A		13.72 ml/mx			
16	NUP 3C 02	L		24 oz/a		A		12.67 ml/mx	116	213	302
	NUP 1B 05	L		16 oz/a		A		8.446 ml/mx			
17	NUP 3C 02	L		24 oz/a		A		12.67 ml/mx	117	220	306
	NUP 1A 05	L		16 oz/a		A		8.446 ml/mx			
18	NUP 10 A 04	L		24 oz/a		A		12.67 ml/mx	118	217	304
19	NUP 3C 02	L		24 oz/a		A		12.67 ml/mx	119	223	305
	Clarity	L		6 oz/a		A		3.167 ml/mx			
20	non-treated control								120	212	318
21	Roundup WeatherMax	5.5 L		22 oz/a		A		11.61 ml/mx	121	201	309
22	Roundup WeatherMax	5.5 L		22 oz/a		A		11.61 ml/mx	122	214	310
	Weedar	L		0.5 pt/a		A		4.223 ml/mx			
23	Roundup WeatherMax	5.5 L		22 oz/a		A		11.61 ml/mx	123	215	323
	Weedar	L		1 pt/a		A		8.445 ml/mx			
24	Roundup WeatherMax	5.5 L		22 oz/a		A		11.61 ml/mx	124	207	301
	Weedar	L		1.5 pt/a		A		12.67 ml/mx			

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Lot Code
26.394	ml	NUP 3E 04 L	
26.394	ml	NUP 12E 04 L	
179.477	ml	NUP 3C 02 L	
21.115	ml	NUP 12A 04 L	

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Reps: 3 Plots: 6 by 25 feet
 Spray vol: 14.8 gal/ac Mix size: 1 liters (min .57876)

Trt No.	Tr> N>	Form Conc	Form Type	Plot No. By Rep
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Product quantities required for listed treatments and applications in one trial:

Amount*	Unit	Treatment Name	Lot Code
44.869	ml	NUP 2F 02 L	
44.869	ml	NUP 12K 04 L	
44.869	ml	NUP 12C 04 L	
44.869	ml	NUP 1B 05 L	
10.557	ml	NUP 1A 05 L	
15.836	ml	NUP 10 A 04 L	
3.959	ml	Clarity L	
58.066	ml	Roundup WeatherMax 5.5 L	
31.669	ml	Weedar 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 radish and cotton response to several glyphosate/2,4-D combinations applied at burndown.

Wild Radish Response:

1) At 9 days after treatment, control by most treatments ranged from 63 to 70% control. A tendency for less control was noted with NUP 3 C 02, NUP 2 F 02, NUP 12 K 04, and with NUP 1 B 05.

2) By 29 days after treatment, control by most treatments including WeatherMax alone exceeded 84% control. The trend for less effective treatments included NUP 3E 04, NUP 12A 04, NUP 2F 02, NUP 12K 04, NUP 1B 05, NUP 10A 04, and NUP 3C 02 + Clarity.

Cotton Stand Counts:

1) Stand counts were taken right at emergence to determine if treatments delayed emergence. No treatment differences were noted.

Visual Cotton Injury:

1) No treatment visually injured cotton.

Cotton Yield:

1) The trial will be harvested.

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Weed Code	RAPRA	RAPRA	RAPRA	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI		
Crop Code	GOSHI	GOSHI	GOSHI	stand cts	injury	injury	injury	injury		
Rating Data Type	control	control	control	#/6'row	%	%	%	%		
Rating Unit	%	%	%							
Rating Date	Apr-15-05	Apr-19-05	May-05-05	May-06-05	May-17-05	May-24-05	Jun-02-05			
Trt-Eval Interval	9 DA-A	13 DA-A	29 DA-A	30 DA-A	41 DA-A	48 DA-A	48 DA-A			
Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5	6	7
1	NUP 3E 04	40	oz/a	60	67	79	13	0	0	0
2	NUP 12E 04	40	oz/a	71	77	91	13	0	0	0
3	NUP 3C 02	32	oz/a	58	76	91	14	0	0	0
4	NUP 12A 04	32	oz/a	64	77	83	16	0	0	0
5	NUP 2F 02	26	oz/a	55	63	83	11	0	0	0
6	NUP 12K 04	26	oz/a	58	63	75	14	0	0	0
7	NUP 12C 04	26	oz/a	70	74	90	12	0	0	0
8	NUP 1B 05	26	oz/a	58	70	75	11	0	0	0
9	NUP 3C 02 NUP 2F 02	24 26	oz/a oz/a	62	72	93	15	0	0	0
10	NUP 3C 02 NUP 2F 02	24 16	oz/a oz/a	63	71	90	11	0	0	0
11	NUP 3C 02 NUP 12K 04	24 26	oz/a oz/a	63	68	91	10	0	0	0
12	NUP 3C 02 NUP 12K 04	24 16	oz/a oz/a	63	71	90	14	0	0	0
13	NUP 3C 02 NUP 12C 04	24 26	oz/a oz/a	69	71	96	16	0	0	0
14	NUP 3C 02 NUP 12C 04	24 16	oz/a oz/a	66	75	91	13	0	0	0
15	NUP 3C 02 NUP 1B 05	24 26	oz/a oz/a	67	67	90	14	0	0	0
16	NUP 3C 02 NUP 1B 05	24 16	oz/a oz/a	65	66	87	15	0	0	0
17	NUP 3C 02 NUP 1A 05	24 16	oz/a oz/a	66	72	90	11	0	0	0
18	NUP 10 A 04	24	oz/a	63	67	73	14	0	0	0
19	NUP 3C 02 Clarity	24 6	oz/a oz/a	65	70	79	13	0	0	0
20	non-treated control			0	0	0	12	0	0	0
21	Roundup WeatherMax	22	oz/a	65	78	85	12	0	0	0
22	Roundup WeatherMax Weedar	22 0.5	oz/a pt/a	63	70	90	12	0	0	0
23	Roundup WeatherMax Weedar	22 1	oz/a pt/a	65	70	92	10	0	0	0
24	Roundup WeatherMax Weedar	22 1.5	oz/a pt/a	63	72	91	14	0	0	0
LSD (P=.05)				8.1	11.0	12.6	6.6	0.0	0.0	0.0
Standard Deviation				4.9	6.6	7.6	4.0	0.0	0.0	0.0
CV				8.01	9.8	9.15	31.2	0.0	0.0	0.0

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

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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: .

Closest Weather Station: _____ Distance: _____ Unit: ____

APPLICATION DESCRIPTION

	A
Application Date:	Apr-06-05
Time of Day:	2 pm
Application Method:	broadcast
Application Timing:	burndown
Applic. Placement:	overtop
Air Temp., Unit:	64 F
% Relative Humidity:	70
Wind Velocity, Unit:	3 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	60 F
Soil Moisture:	moist
% Cloud Cover:	100

CROP STAGE AT EACH APPLICATION

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

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	RAPRA burndown
Stage Scale:	20", pods
Density, Unit:	5 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:	4
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