

University of Georgia

Winter weed and cotton response to NUP mixtures.

Trial ID: C3-05

Study Dir.: Culpepper

Location: Jones Farm

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	

University of Georgia

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
---------	--------	-----------	-----------	-----------------

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 primrose response to several glyphosate/2,4-D combinations.

RESULTS:

Primrose response:

1. At 8 days after treatment, all treatments except NUP 3 C 02, NUP 12 A 04, NUP 10 A 04, Roundup alone, and Roundup plus only 0.5 pt/A of Weedar provided 58 to 68% control.
2. By 24 days after treatment, greater than 80% control was noted with 11 treatments (NUP 12 E 04, NUP 12 C 04, NUP 3 C 02 + NUP 12 K 04, NUP 3 C 02 + NUP 12 C 04, NUP 3 C 02 + NUP 1 B 05, and all Roundup + Weedar combinations). NUP 12 C 04 was the only product providing greater than 90% control.
3. By 29 days after treatment, greater than 84% control was noted with all treatments except NUP 3 C 02 + NUP 2 F 02, NUP 10 A 04, NUP 3 C 02 + Clarity, and Roundup WeatherMax.

Toadflax response:

1. Toadflax was controlled effectively with only 3 treatments providing less than 95% control (NUP 12K 04, NUP 12C 04, NUP 1B 05).

University of Georgia

Winter weed and cotton response to NUP mixtures.

Trial ID: C3-05

Study Dir.: Culpepper

Location: Jones Farm

Investigator: Stanley Culpepper

Weed Code	OEOLA cotton control	OEOLA cotton control	OEOLA cotton control	OEOLA cotton control	LINAR cotton control	LINAR cotton control			
Rating Data Type	%	%	%	%	%	%			
Rating Unit	Apr-19-05	Apr-29-05	May-05-05	May-10-05	Apr-19-05	Apr-29-05			
Rating Date	8 DA-A	18 DA-A	24 DA-A	29 DA-A	8 DA-A	18 DA-A			
Trt-Eval Interval									
Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5	6
1	NUP 3E 04	40	oz/a	65	67	77	90	50	95
2	NUP 12E 04	40	oz/a	67	78	83	91	50	95
3	NUP 3C 02	32	oz/a	23	57	62	87	42	95
4	NUP 12A 04	32	oz/a	52	59	67	93	47	95
5	NUP 2F 02	26	oz/a	62	61	69	94	38	95
6	NUP 12K 04	26	oz/a	63	63	76	85	43	83
7	NUP 12C 04	26	oz/a	67	73	92	99	43	83
8	NUP 1B 05	26	oz/a	58	63	75	92	33	70
9	NUP 3C 02 NUP 2F 02	24 26	oz/a oz/a	66	54	73	87	50	95
10	NUP 3C 02 NUP 2F 02	24 16	oz/a oz/a	63	67	72	81	50	95
11	NUP 3C 02 NUP 12K 04	24 26	oz/a oz/a	66	77	88	92	50	95
12	NUP 3C 02 NUP 12K 04	24 16	oz/a oz/a	67	70	80	88	50	95
13	NUP 3C 02 NUP 12C 04	24 26	oz/a oz/a	66	73	83	87	50	95
14	NUP 3C 02 NUP 12C 04	24 16	oz/a oz/a	68	66	80	90	50	96
15	NUP 3C 02 NUP 1B 05	24 26	oz/a oz/a	68	76	89	88	52	95
16	NUP 3C 02 NUP 1B 05	24 16	oz/a oz/a	67	68	80	88	52	95
17	NUP 3C 02 NUP 1A 05	24 16	oz/a oz/a	68	70	71	87	52	95
18	NUP 10 A 04	24	oz/a	32	48	47	63	42	95
19	NUP 3C 02 Clarity	24 6	oz/a oz/a	64	65	64	76	50	95
20	non-treated control			0	0	0	0	0	0
21	Roundup WeatherMax	22	oz/a	13	46	48	65	38	95
22	Roundup WeatherMax Weedar	22 0.5	oz/a pt/a	55	67	85	90	50	96
23	Roundup WeatherMax Weedar	22 1	oz/a pt/a	62	75	82	89	50	96
24	Roundup WeatherMax Weedar	22 1.5	oz/a pt/a	66	80	88	94	50	95
LSD (P=.05)				12.6	15.2	13.4	13.7	11.4	7.4
Standard Deviation				7.7	9.2	8.1	8.3	6.9	4.5
CV				13.64	14.49	11.22	10.01	15.39	5.04

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

University of Georgia

Winter weed and cotton response to NUP mixtures.

Trial ID: C3-05
Location: Jones Farm

Study Dir.: Culpepper
Investigator: Stanley Culpepper

GENERAL TRIAL INFORMATION

Study Director: Stanley Culpepper Title: Ext. Weed Science
Affiliation: Univ. of Georgia
Postal Code: 31794

Investigator: Stanley Culpepper Title: Ext. Weed Science
Affiliation: Univ. of Georgia
Postal Code: 31794

TRIAL LOCATION

City: TyTy Trial Status: completed
State/Prov.: GA Trial Reliability: good
Postal Code: 31794 Initiation Date: Apr-11-05
Country: USA 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	
2.	LINAR	toadflax	
3.			

Crop 1: . non-crop Variety: .
Planting Date: _____ Planting Method: _____
Rate: _____ Depth: _____ Perennial Age: _____
Row Spacing: _____ Spacing Within Row: _____ Seed Bed: _____
Soil Temperature: _____ Soil Moisture: _____ Emergence Date: _____

SITE AND DESIGN

Plot Width, Unit: 6 FT Plot Length, Unit: 25 FT Reps: 3
Site Type: on farm
Tillage Type: no tillage Study Design: RANDOMIZED COMPLETE BLOCK

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

University of Georgia

MAINTENANCE

Field Prep./Maintenance:

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

SOIL DESCRIPTION

% Sand: 95	% OM: 0.67	Texture: sand
% Silt: 2	pH: 5.8	Soil Name: Tifton sandy loam
% Clay: 3	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
Application Date:	Apr-11-05
Time of Day:	8 am
Application Method:	broadcast
Application Timing:	burndown
Applic. Placement:	overtop
Air Temp., Unit:	64 F
% Relative Humidity:	55
Wind Velocity, Unit:	1 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	66 F
Soil Moisture:	wet
% Cloud Cover:	0

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	.
Stage Scale:	.
Height, Unit:	

University of Georgia

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	OEOLA burndown
Stage Scale:	18-24inch
Density, Unit:	12 ydsq
Weed 2 Code, Stage:	LINAR burndown
Stage Scale:	20-24inch
Density, Unit:	2 ydsq
Weed 3 Code, Stage:	
Stage Scale:	
Density, Unit:	

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