Winter weed and cotton response to A1719.

Trial ID: C4-05 Study Dir.: Stanley Culpepper Location: Ponder 5132 Investigator: Stanley Culpepper

Reps: 4 Plots: 12 by 21 feet

Spray vol: 14.8 gal/ac Mix size: 1.5 liters (min 1.2964)

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Lot Code
87.099	ml	Roundup WeatherMax 5.5 L	
95.017	ml	A1719 L	
14.061	ml	NIS L	
95.017	ml	Gramoxone Max 3 SL	
15.834	ml	Weedar 4 L	

- * 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 1.5 liters (mix size basis).
- * Product amount calculations increased 25 % for overage adjustment.
- * 'Per volume' calculations use spray volume= 14.8 gal/ac, mix size= 1.5 liters.

Trial Comments

OBJECTIVE: Evaluate A1719 as a burndown mixture with Roundup or Gramoxone and to evaluate plantback response by cotton.

Primrose Response:

- 1. Roundup provided poor control.
- 2. A1719 mixed with WeatherMax did not improve control above that noted by WeatherMax alone for the first three weeks after treatment; however, at 30 days after treatment A1719 mixed with WeatherMax was 20 to 21% more effective than WeatherMax alone. Adding more surfactant to the WeatherMax + A1719 mixture did not improve control.
- 3. Mixing A1719 with Gramoxone did not improve control compared to Gramoxone alone.
- 4. Weedar was much more effective than A1719 when mixed with WeatherMax for control of primrose up until 49 days after treatment in which it was only slightly more effective.

Cotton Response:

1. Visual cotton response and plant stands were not impacted by burndown treatments.

Winter weed and cotton response to A1719.

Trial ID: C4-05 Study Dir.: Stanley Culpepper Location: Ponder 5132 Investigator: Stanley Culpepper

Weed Code	OEOLA	OEOLA	OEOLA	OEOLA	OEOLA			
Crop Code						cotton	cotton	cotton
Rating Data Type	control	control	control	control	control	injury	injury	injury
Rating Unit	percent		•	•	•		•	
Rating Date				May-05-05				
Trt-Eval Interval	6 DA-A	13 DA-A	22 DA-A	30 DA-A	49 DA-A	30 DA-A	37 DA-A	49 DA-A
	ate							
No. Name Rate U	nit 1	2	3	4	5	6	7	8
1 Roundup WeatherMax 22 o	/a 18	31	70	60	75	0	0	0
2 Roundup WeatherMax 22 o	⁄a 26	34	69	80	92	0	0	0
A1719 32 o	/a							
NIS 0.25 %	v/v							
3 Gramoxone Max 32 o	⁄a 70	69	75	82	87	0	0	0
NIS 0.25 %	v/v							
4 Gramoxone Max 32 o	/a 70	70	78	78	83	0	0	0
A1719 32 o	⁄a							
5 non-treated	0	0	0	0	0	0	0	0
6 Roundup WeatherMax 22 o	/a 28	39	75	81	94	0	0	0
A1719 16 o	⁄/a							
7 Gramoxone Max 32 o	/a 71	73	80	87	85	0	0	0
A1719 16 o	/a							
NIS 0.25 %	v/v							
8 Roundup WeatherMax 22 o	/a 60	65	94	99	100	0	0	0
Weedar 1 p	/a							
LSD (P=.05)	7.5	10.2	11.4	14.6	5.9	0.0	0.0	0.0
Standard Deviation	5.1	6.9	7.8	9.9	4.0	0.0	0.0	0.0
CV	11.95	14.61	11.5	14.0	5.18	0.0	0.0	0.0

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

Weed Code					
Crop Code			cotton	cotton	cotton
Rating Data Type			stand cts	stand cts	stand cts
Rating Unit			#/8 feet	#/8 feet	#/8 feet
Rating Date			May-02-05	May-06-05	May-09-05
Trt-Eval Interval			27 DA-A	31 DA-A	34 DA-A
Trt Treatment		Rate			
No. Name	Rate	Unit	9	10	11
1 Roundup WeatherMax	22	oz/a	27	29	29
2 Roundup WeatherMax	22	oz/a	29	29	34
A1719		oz/a			
NIS	0.25	% v/v			
3 Gramoxone Max	32	oz/a	27	29	33
NIS	-	% v/v			
4 Gramoxone Max	32	oz/a	28	29	32
A1719	_	oz/a			
5 non-treated			29	33	31
6 Roundup WeatherMax	22	oz/a	29	30	31
A1719		oz/a	20	00	0.
7 Gramoxone Max		oz/a	28	29	29
A1719		oz/a	20	29	29
NIS	_	02/a % √/√			
			24	200	20
8 Roundup WeatherMax		oz/a	31	29	33
Weedar	1	pt/a			
LSD (P=.05)		7.1	9.1	8.1	
Standard Deviation			4.8	6.2	5.5
CV			16.89	20.97	17.51

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

Mar-03-06 (C04-05) Site Description Page 4 of 6

University of Georgia

Offiversity of Deorgia							
Winter	weed and cotton response to A1719.						
Trial ID: C4-05	Study Dir.: Stanley Culpepper						
Location: Ponder 5132	Investigator: Stanley Culpepper						
GENERAL TR	TAL INFORMATION						
Study Director: Stanley Culpepper Affiliation: Univ. of Georgia Postal Code: 31794	Title: Ext. Weed Science						
Investigator: Stanley Culpepper Affiliation: Univ. of Georgia Postal Code: 31794	Title: Ext. Weed Science						
TRIA	LOCATION						
	Trial Status: completed Trial Reliability: good Initiation Date: Apr-05-05 Planned Completion Date: N-Latitude of LL Corner °: Angle y-axis to North °:						
COOPERA' Cooperator: Org: Address 1: Address 2: City: State/Prov: Postal Code:	-1						
Conducted Under GLP (Y/N): N Guidelines: Guideline De Objective: Conclusions:							
	ED DESCRIPTION						
Weed Code Common Name	Scientific Name						
1. OEOLA cutleaf eveningprimrose							

Weed	Code	Common Name	Scientific Name
1.	OEOLA	cutleaf eveningprimrose	

Crop 1: GOSHI cotton Variety: DP 444 B/RR Planting Date: Apr-19-05 Planting Method: no-till Rate: 3 per ft Depth: 0.5 in Perennial Age: _ Row Spacing: 36 inch Spacing Within Row: 0. . Seed Bed: flat
Soil Temperature: 79 F Soil Moisture: moist Emergence Date: Apr-28-05

SITE AND DESIGN

Plot Width, Unit: 12 FT Plot Length, Unit: 21 FT Reps: 4

Site Type: research station

Tillage Type: conventional Study Design: RANDOMIZED COMPLETE BLOCK

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

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

Soil Name: Tifton sandy loam

Fert. Level: __

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Туре	Interval	Unit
1.							

Overall Moisture Condition	s:	
Closest Weather Station:	Distance:	Unit:

APPLICATION DESCRIPTION

	A
Application Date:	Apr-05-05
Time of Day:	12 pm
Application Method:	broadcast
Application Timing:	burndown
Applic. Placement:	overtop
Air Temp., Unit:	72 F
% Relative Humidity:	43
Wind Velocity, Unit:	3 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	69 F
Soil Moisture:	moist
% Cloud Cover:	0

CROP STAGE AT EACH APPLICATION

	A	
Crop 1 Code, Stage:	GOSHI burndown	
Stage Scale:	prior	
Height, Unit:	0 inch	

WEED STAGE AT EACH APPLICATION

	A	
Weed 1 Code, Stage:	OEOLA burndown	
Stage Scale:	18"bloom	
Density, Unit:	4 ydsq	

APPLICATION EQUIPMENT

		A
Appl. Equipment:	backı	pack
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	r
Spray Volume, Unit:	14.8	GPA
Spray pH:		-
Propellant:	CO2	-
Tank Mix (Y/N):	Y	

Trt No	Treatment Application Comment