

# University of Georgia

## Winter weed response to A1719.

Trial ID: C5-05  
 Location: Jones farm

Study Dir.: Culpepper  
 Investigator: Stanley Culpepper

Reps: 4                      Plots: 6 by 25 feet  
 Spray vol: 14.8 gal/ac      Mix size: 1 liters (min .77168)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	Appl Code	Amt to Measure	Plot No. By Rep			
									1	2	3	4
1	Roundup WeatherMax	5.5 L	L	22 oz/a	BD	A	11.61 ml/mx	101	206	303	402	
2	Roundup WeatherMax	5.5 L	L	22 oz/a	BD	A	11.61 ml/mx	102	207	301	408	
	A1719		L	32 oz/a	BD	A	16.89 ml/mx					
	NIS		L	0.25 % v/v	BD	A	2.5 ml/mx					
3	Gramoxone Max	3 SL	L	32 oz/a	BD	A	16.89 ml/mx	103	208	306	401	
	NIS		L	0.25 % v/v	BD	A	2.5 ml/mx					
4	Gramoxone Max	3 SL	L	32 oz/a	BD	A	16.89 ml/mx	104	201	302	403	
	A1719		L	32 oz/a	BD	A	16.89 ml/mx					
5	non-treated							105	203	305	406	
6	Roundup WeatherMax	5.5 L	L	22 oz/a	BD	A	11.61 ml/mx	106	205	308	404	
	A1719		L	16 oz/a	BD	A	8.446 ml/mx					
7	Gramoxone Max	3 SL	L	32 oz/a	BD	A	16.89 ml/mx	107	202	304	407	
	A1719		L	16 oz/a	BD	A	8.446 ml/mx					
	NIS		L	0.25 % v/v	BD	A	2.5 ml/mx					
8	Roundup WeatherMax	5.5 L	L	22 oz/a	BD	A	11.61 ml/mx	108	204	307	405	
	Weedar	4 L	L	1 pt/a	BD	A	8.445 ml/mx					

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Lot Code
58.066	ml	Roundup WeatherMax 5.5 L	
63.345	ml	A1719 L	
9.374	ml	NIS L	
63.345	ml	Gramoxone Max 3 SL	
10.556	ml	Weedar 4 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.

\* 'Per volume' calculations use spray volume= 14.8 gal/ac, mix size= 1 liters.

### Trial Comments

OBJECTIVE: Evaluate A1719 as a burndown in mixture with Roundup or Gramoxone.

Primrose response:

1. Roundup alone provided poor control.
2. A1719 mixed with WeatherMax did not improve control above that noted by WeatherMax alone for the first four weeks after treatment; however, at 43 days after treatment A1719 mixed with WeatherMax was 21 to 22% 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 the control of primrose.

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Weed Code	OEOLA control percent	OEOLA control percent	OEOLA control percent	OEOLA control percent	OEOLA control percent			
Rating Data Type	Apr-19-05	Apr-27-05	May-05-05	May-09-05	May-24-05			
Rating Unit	8 DA-A	16 DA-A	24 DA-A	28 DA-A	28 DA-A			
Rating Date								
Trt-Eval Interval								
Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5
1	Roundup WeatherMax	22 oz/a		22	56	38	60	60
2	Roundup WeatherMax A1719 NIS	22 oz/a 32 oz/a 0.25 % v/v		38	63	49	65	82
3	Gramoxone Max NIS	32 oz/a 0.25 % v/v		90	91	84	83	76
4	Gramoxone Max A1719	32 oz/a 32 oz/a		91	93	89	85	78
5	non-treated			0	0	0	0	0
6	Roundup WeatherMax A1719	22 oz/a 16 oz/a		17	60	40	62	81
7	Gramoxone Max A1719 NIS	32 oz/a 16 oz/a 0.25 % v/v		91	91	88	87	81
8	Roundup WeatherMax Weedar	22 oz/a 1 pt/a		51	75	74	91	99
LSD (P=.05)				6.9	3.9	5.6	5.2	8.8
Standard Deviation				4.7	2.6	3.8	3.5	6.0
CV				9.4	3.98	6.61	5.25	8.64

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: 95      % OM: 0.67      Texture: sand  
 % Silt: 2      pH: 5.6      Soil Name: Tifton sandy loam  
 % Clay: 3      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-11-05
Time of Day:	10 am
Application Method:	broadcast
Application Timing:	burndown
Applic. Placement:	overtop
Air Temp., Unit:	70 F
% Relative Humidity:	48
Wind Velocity, Unit:	2 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	68 F
Soil Moisture:	wet
% Cloud Cover:	0

**CROP STAGE AT EACH APPLICATION**

	A
Crop 1 Code, Stage:	none none
Stage Scale:	no crop
Height, Unit:	0 in

**WEED STAGE AT EACH APPLICATION**

	A
Weed 1 Code, Stage:	OEOLA burndown
Stage Scale:	22", bloom
Density, Unit:	8 ydsq

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## APPLICATION EQUIPMENT

	<b>A</b>
<b>Appl. Equipment:</b>	backpack
<b>Operating Pressure:</b>	23
<b>Nozzle Type:</b>	flat fan
<b>Nozzle Size:</b>	11002
<b>Nozzle Spacing, Unit:</b>	18 inch
<b>Nozzles/Row:</b>	2
<b>Band Width, Unit:</b>	
<b>Boom Length, Unit:</b>	4.5 feet
<b>Boom Height, Unit:</b>	15 inch
<b>Ground Speed, Unit:</b>	3 mph
<b>Incorporation Equip.:</b>	
<b>Hours to Incorp.:</b>	
<b>Incorp. Depth, Unit:</b>	
<b>Carrier:</b>	water
<b>Spray Volume, Unit:</b>	14.8 GPA
<b>Spray pH:</b>	
<b>Propellant:</b>	CO2
<b>Tank Mix (Y/N):</b>	Y

Trt No	Treatment Application Comment