

University of Georgia

Cutleaf eveningprimrose response to the most effective burndown options.

Trial ID: C10-05

Study Dir.: Culpepper

Location: Jones farm

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 Rate	Grow Unit	Appl Stg	Amt Code	Product to Measure	Plot No. By Rep			
									1	2	3	4
1	Roundup WeatherMax	4.5 L	L	22 oz/a	A	BD		11.61 ml/mx	101	203	307	410
2	Roundup WeatherMax	4.5 L	L	22 oz/a	A	BD		11.61 ml/mx	102	209	303	404
	Weedar	4 L	L	1 pt/a	A	BD		8.445 ml/mx				
3	Gramoxone	3 L	L	2 pt/a	A	BD		16.89 ml/mx	103	202	306	403
	Roundup WeatherMax	4.5 L	L	22 oz/a	A	BD		11.61 ml/mx				
	Direx	4 L	L	1.5 pt/a	A	BD		12.67 ml/mx				
4	Gramoxone	3 L	L	1.5 pt/a	A	BD		12.67 ml/mx	104	208	301	406
	Direx	4 L	L	1.5 pt/a	A	BD		12.67 ml/mx				
5	Gramoxone	3 L	L	2 pt/a	A	BD		16.89 ml/mx	105	206	309	408
	Direx	4 L	L	2 pt/a	A	BD		16.89 ml/mx				
6	Gramoxone	3 L	L	1.5 pt/a	A	BD		12.67 ml/mx	106	205	310	409
	Caparol	4 L	L	1.5 pt/a	A	BD		12.67 ml/mx				
7	Ignite	2 L	L	24 oz/a	A	BD		12.67 ml/mx	107	210	304	405
8	Ignite	2 L	L	32 oz/a	A	BD		16.89 ml/mx	108	201	302	401
9	Non-treated								109	207	308	407
10	Roundup WeatherMax	4.5 L	L	22 oz/a	A	BD		11.61 ml/mx	110	204	305	402
	Valor	51 WDG	WDG	1.5 oz/a	A	BD		0.759 g/mx				

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Lot Code
116.132	ml	Roundup WeatherMax 4.5 L	
21.113	ml	Weedar 4 L	
147.788	ml	Gramoxone 3 L	
105.563	ml	Direx 4 L	
31.669	ml	Caparol 4 L	
73.902	ml	Ignite 2 L	
1.898	g	Valor 51 WDG	

* '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.

* Adjusted for multiple applications in treatment list.

Trial Comments

OBJECTIVE: Determine the most effective method to control primrose in full bloom.

Primrose Response:

1. Roundup stopped growth of primrose but did not control any plants providing poor control.
2. Roundup + Weedar (took long time), Gramoxone + Direx, and Ignite at 32 oz/A provided essentially complete control.
3. Gramoxone + Direx was more effective than Gramoxone + Caparol, although control with Gramoxone + Caparol was very good.
4. Roundup + Valor was less effective than several other options; however, no adjuvant was included with this mixture and should have been.

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Weed Code	OEOLA control	OEOLA control	OEOLA control	OEOLA control	OEOLA control			
Rating Data Type	percent	percent	percent	percent	percent			
Rating Unit								
Rating Date	Apr-19-05	Apr-27-05	May-03-05	May-10-05	May-19-05			
Trt-Eval Interval	8 DA-A	16 DA-A	22 DA-A	29 DA-A	38 DA-A			
Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5
1	Roundup WeatherMax	22	oz/a	25	63	40	61	66
2	Roundup WeatherMax Weedar	22 1	oz/a pt/a	59	74	78	82	99
3	Gramoxone Roundup WeatherMax Direx	2 22 1.5	pt/a oz/a pt/a	31	91	96	99	99
4	Gramoxone Direx	1.5 1.5	pt/a pt/a	90	98	98	97	99
5	Gramoxone Direx	2 2	pt/a pt/a	94	98	97	98	99
6	Gramoxone Caparol	1.5 1.5	pt/a pt/a	89	93	90	90	90
7	Ignite	24	oz/a	95	96	94	94	91
8	Ignite	32	oz/a	97	99	98	97	99
9	Non-treated			0	0	0	0	0
10	Roundup WeatherMax Valor	22 1.5	oz/a oz/a	65	85	85	86	79
LSD (P=.05)				10.1	5.6	5.9	6.0	6.7
Standard Deviation				6.9	3.8	4.1	4.1	4.6
CV				10.74	4.81	5.26	5.13	5.61

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

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GENERAL TRIAL 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

TRIAL LOCATION

City: Tifton Trial Status: completed
State/Prov.: GA Trial Reliability: excellent
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	

Crop 1: none no crop Variety: .
Planting Date: _____ Planting Method: .
Rate: 0. . Depth: 0. . Perennial Age: 0. .
Row Spacing: 0. . Spacing Within Row: 0. . Seed Bed: .
Soil Temperature: 0. . Soil Moisture: wet Emergence Date: _____

SITE AND DESIGN

Plot Width, Unit: 6 FT Plot Length, Unit: 25 FT Reps: 4
Site Type: on farm
Tillage Type: none Study Design: RANDOMIZED COMPLETE BLOCK

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

MAINTENANCE

Field Prep./Maintenance:

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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: 5.8 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 .
Stage Scale:	..
Height, Unit:	0. .

WEED STAGE AT EACH APPLICATION

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