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Primrose responds to glufosinate formulations.

Trial ID: C15-05 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 Unit	Grow Stg	Appl Code	Amt Product to Measure	Plot No. By Rep 1	2	3	4
1	Untreated								101	206	301	401
2	AE F039866 00 SL25 T3	2.8	SL	22.9	oz/a	BD	A	12.09 ml/mx	102	203	307	407
3	Ignite	2	SL	32	oz/a	BD	A	16.89 ml/mx	103	204	308	408
4	AE F039866 00 SL25 T3	2.8	SL	28.6	oz/a	BD	A	15.1 ml/mx	104	202	303	403
5	Ignite	2	SL	40	oz/a	BD	A	21.11 ml/mx	105	207	302	402
6	Ignite	2	SL	32	oz/a	BD	A	16.89 ml/mx	106	208	306	406
	Roundup Generic	4	L	32	oz/a	BD	A	16.89 ml/mx				
7	Roundup Generic	4	L	32	oz/a	BD	A	16.89 ml/mx	107	205	304	404
8	AE F039866 00 SL25 T3	2.8	SL	22.9	oz/a	BD	A	12.09 ml/mx	108	201	305	405
	Roundup Generic	4	L	32	oz/a	BD	A	16.89 ml/mx				

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Lot Code
49.092	ml	AE F039866 00 SL25 T3 2.8 SL	
68.623	ml	Ignite 2 SL	
63.345	ml	Roundup Generic 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.

Trial Comments

OBJECTIVE: Compare glufosinate formulations on cutleaf eveningprimrose.

Primrose response:
1. No differences in glufosinate formulations were noted.
2. Glufosinate smoked primrose.
3. Roundup provided poor control.
4. Glufosinate/Roundup mixtures provided excellent control.

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Trt No.	Treatment Name	Rate	Rate Unit	1	2	3
	Weed Code			OEOLA	OEOLA	OEOLA
	Rating Data Type			control	control	control
	Rating Unit			percent	percent	percent
	Rating Date			Apr-29-05	May-05-05	May-15-05
	Trt-Eval Interval			3 DA-A	9 DA-A	19 DA-A
1	Untreated			0	0	0
2	AE F039866 00 SL25 T3	22.9	oz/a	56	99	99
3	Ignite	32	oz/a	61	99	99
4	AE F039866 00 SL25 T3	28.6	oz/a	58	99	99
5	Ignite	40	oz/a	56	99	99
6	Ignite	32	oz/a	58	99	99
	Roundup Generic	32	oz/a			
7	Roundup Generic	32	oz/a	0	21	35
8	AE F039866 00 SL25 T3	22.9	oz/a	58	99	99
	Roundup Generic	32	oz/a			
	LSD (P=.05)			8.0	1.3	2.1
	Standard Deviation			5.4	0.9	1.4
	CV			12.6	1.15	1.84

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

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Location: Jones Farm 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: Tifton **Trial Status:** completed
State/Prov.: GA **Trial Reliability:** excellent
Postal Code: 31794 **Initiation Date:** Apr-26-05
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:** . **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

	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: .
Closest Weather Station: _____ **Distance:** _____ **Unit:** __

APPLICATION DESCRIPTION

	A
Application Date:	Apr-26-05
Time of Day:	2 pm
Application Method:	broadcast
Application Timing:	burndown
Applic. Placement:	on soil
Air Temp., Unit:	73 F
% Relative Humidity:	38
Wind Velocity, Unit:	2 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	72 F
Soil Moisture:	wet
% Cloud Cover:	0

CROP STAGE AT EACH APPLICATION

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

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	OEOLA burndown
Stage Scale:	25",podse
Density, Unit:	12 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