

## Callisto Adjuvant Study.

01-10C-W110

**OBJECTIVE:** Evaluate various adjuvants with Callisto.

**SUMMARY:** Overall weed control was highest when Callisto was combined with Destiny MSO at 0.67% v/v plus Activator 90 at 0.33% v/v plus 28% UAN.

### HERBICIDE / ADJUVANTS

CALLISTO 4 SC  
 28% UAN 100 LIQ  
 ACTIVATOR 90 100 LIQ  
 AG DYNAMICS 1 100 LIQ  
 AR 200-TM  
 AR 581-1P 100 DRY  
 AR-A 100 LIQ  
 AR-B 100 DRY  
 DE 500-TM  
 DE-A 100 DRY  
 DE-B 100 DRY  
 DESTINY MSO 100 LIQ  
 PRIME OIL COC 100 LIQ  
 SE 581-1P 100 DRY

### WEEDS

cocklebur, common  
 morningglory, species  
 ragweed, common

### CROP

non-crop

Bryan Young

PLANT, SOIL AND GENERAL AGRICULTURE DEPARTMENT

SOUTHERN ILLINOIS UNIVERSITY

## Callisto Adjuvant Study.

Project Code: 01-10C-W110      Location: Belleville Research Center

Investigator: Bryan Young, Assistant Professor, Southern Illinois University

City State Zip Country:            Belleville      IL 62221 USA  
Trial Status: Final                    Initiation Date: 5-11-01**Objective:**

Evaluate various adjuvants with Callisto.

Weed Code	Common Name	Scientific Name
1. XANST	cocklebur, common	Xanthium strumarium L.
2. AMBEL	ragweed, common	Ambrosia artemisiifolia L.
3. IPOSS	morningglory, species	Ipomoea sp.

Crop 1:                    NONE      non-crop

Plot Width, Unit: 10	FT	Plot Length, Unit: 24	FT	Reps: 3
Tillage Type: Reduced-Till		Study Design: Randomized complete block		
Previous Crop, Year: ZEAMX, 2000				
Field Prep./Maintenance: N 0 LB/A, P205 50 LB/A, K20 150 LB/A				

Soil Name: Weir	% OM: 2.0	pH: 6.1	CEC: 11
Texture: Silt loam	Fert. Level: P1: 65 LB/A, K: 240 LB/A		

**APPLICATION DESCRIPTION**

	A
Application Date:	6-18-01
Time of Day:	19:30
Application Method:	Spray
Application Timing:	4"W
Applic. Placement:	BROFOL
Air Temp., Unit:	84 F
% Relative Humidity:	50
Wind Velocity, Unit:	3-5 MPH
Dew Presence (Y/N):	N
Soil Moisture:	BELNOR
% Cloud Cover:	0

**CROP STAGE AT EACH APPLICATION**

	A
Crop 1 Code, Stage:	NONE

**WEED STAGE AT EACH APPLICATION**

	A
Weed 1 Code:	XANST
Stage(leaves):	3-5
Height(inches):	2-4
Density:	Medium
Weed 2 Code:	AMBEL
Stage(leaves):	5-7
Height(inches):	2-6
Density:	Medium
Weed 3 Code:	IPOSS
Stage(leaves):	5-7
Height(inches):	3-4
Density:	Low

## APPLICATION EQUIPMENT

A

Appl. Equipment: CO2 sprayer  
Operating Pressure: 40 PSI  
Nozzle Type: Flat fan  
Nozzle Size: 8002  
Boom Length, Unit: 7.5 FT  
Spray Volume, Unit: 20 GPA

NOTES: NOT HARVESTED.



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Trial Comments

1. Protocol: SIU - BGY (trts 1-5 + 10); Rosens (trts 6-9).
2. Blanket application of Select 0.094 lbai/A + COC 1.0% v/v, applied 6-28-01.
3. DA-A = days after 4<sup>th</sup>W application.