

## General Burndown Study.

00-16-W60

**OBJECTIVE:** Evaluate the efficacy of glyphosate burndown products.

**SUMMARY:** All herbicide treatments controlled at least 95% of fall panicum at 28 days after treatment (DAT) except Roundup Custom plus Salvo plus LI 700 (72%). Common waterhemp control was greatest with Engame and ETK-2350 (80%) and least with Roundup Custom plus Salvo plus LI 700 (57%). In contrast, Roundup Custom plus Salvo plus LI 700 and ETK-2350 provided the greatest control of morningglory species. Engame, Roundup Custom plus LI 700, and Roundup Custom plus LI 700 plus Take-up controlled only 63 to 68% of morningglory species.

### HERBICIDES

ENGAME 1.3 SL  
 ETK-2350 1.5 SL  
 ROUNDUP CUSTOM 4 SL  
 SALVO 5 EC  
 LI 700 100 LIQ  
 TAKE-UP 100 LIQ

### WEEDS

MORNINGGLORY, IVYLEAF  
 MORNINGGLORY, PITTED  
 MORNINGGLORY, SPECIES  
 PANICUM, FALL  
 WATERHEMP, COMMON

### CROP

NON-CROP

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SOUTHERN ILLINOIS UNIVERSITY

General Burndown Study.

Project Code: 00-16-W60 Location: Belleville Research Center

Investigator: Bryan Young, Assistant Professor, Southern Illinois University

Weed Code	Common Name	Scientific Name
1. PANDI	PANICUM, FALL	PANICUM DICHOTOMIFLORUM MICHX.
2. AMATA	WATERHEMP, COMMON	AMARANTHUS RUDIS SAUER
3. IPOLA	MORNINGGLORY, PITTED	IPOMOEA LACUNOSA L.
4. IPOHE	MORNINGGLORY, IVYLEAF	IPOMOEA HEDERACEA (L.) JACQ.
5. IPOSS	MORNINGGLORY, SPECIES	IPOMOEA SP.

Crop 1: NONE NON-CROP

Plot Width, Unit: 10 FT  
Tillage Type: NO-TILL  
Previous Crop, Year: TRZAW, 2000

Plot Length, Unit: 30 FT  
Study Design: RCB  
Fertilizer applied: N 0 LB/A,

Reps: 3  
P<sub>2</sub>O<sub>5</sub> 0 LB/A, K<sub>2</sub>O 0 LB/A

Soil Name: EBBERT  
Texture: SILT LOAM

% OM: 1.8  
P<sub>1</sub>: 79 LB/A,

pH: 6.5  
K: 375 LB/A  
CEC: 14

#### APPLICATION DESCRIPTION

A  
Application Date: Jul-10-00  
Time of Day: 12:30  
Application Method: SPRAY  
Application Timing: BD  
Applic. Placement: BROFOL  
Air Temp., Unit: 86 F  
% Relative Humidity: 90  
Wind Velocity, Unit: 2-4 MPH  
Soil Moisture: NORMAL

#### CROP STAGE AT EACH APPLICATION

A  
Crop 1 Code, Stage: NA  
Height, Unit: NA

#### WEED STAGE AT EACH APPLICATION

A  
Weed 1 Code: PANDI  
Stage(leaves): 6-10  
Height(inches): 8-10  
Density: LOW

Weed 2 Code: AMATA  
Stage(leaves): 5-10  
Height(inches): 4-32  
Density: HIGH

Weed 3 Code: IPOLA  
Stage(leaves): 8-10  
Height(inches): 10-36  
Density: MEDIUM

Weed 4 Code: IPOHE  
Stage(leaves): 8-10  
Height(inches): 10-30  
Density: MEDIUM

#### APPLICATION EQUIPMENT

A  
Appl. Equipment: CO<sub>2</sub> SPRAY  
Operating Pressure: 40 PSI  
Nozzle Type: FLAT FAN  
Nozzle Size: 8002  
Boom Length, Unit: 7.33 FT  
Spray Volume, Unit: 20 GPA

#### NOTES:

Not harvested.

