

Annual Morningglory Control with S-3153.

00-10C-W110

OBJECTIVE: Evaluate the addition of S-3153 to 2,4-D, Accent, Aatrex, Beacon, and Clarity for increased morningglory control in corn.

SUMMARY: Corn injury with S-3153 plus Prime Oil was 21% at 3 days after treatment (DAT). Tank mixing Aatrex with S-3153 plus Prime Oil increased corn injury to 25%. Corn injury at 3 DAT was only 9% from S-3153 plus Impressive DB. By 28 DAT, corn injury was 5% or less from all treatments. Tank mixing S-3153 with Accent increased control of morningglory species, common cocklebur, velvetleaf, and common ragweed compared to Accent alone. Control of velvetleaf, common cocklebur and common ragweed was improved with the addition of S-3153 to Aatrex compared to Aatrex alone. Combining S-3153 with Beacon increased control of morningglory species compared to Beacon alone. Tank mixing Impressive DB with S-3153 in place of Prime Oil reduced control of morningglory species, common cocklebur, and common ragweed. S-3153 plus Prime Oil provided greater control of common ragweed than Aim plus Prime Oil.

Corn yield ranged from 103 bu/A in nontreated plots to 168 bu/A. An increase in corn yield was observed in plots treated with S-3153 plus Aatrex compared to plots treated with Aatrex alone

HERBICIDES

AATREX 90 WG
ACCENT 75 WG
AIM 40 WG
BEACON 75 WG
CLARITY 4 EC
DISTINCT 70 WG
S-3153 57.6 WG
WEEDONE 638 2.8 EC
IMPRESSIVE DB 100 DRY

WEEDS

COCKLEBUR, COMMON
MORNINGGLORY, SPECIES
RAGWEED, COMMON
VELVETLEAF

CROP

CORN, FIELD

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PLANT, SOIL AND GENERAL AGRICULTURE DEPARTMENT

SOUTHERN ILLINOIS UNIVERSITY

Annual Morningglory Control with S-3153.

Project Code: 00-10C-W110 Location: Belleville Research Center

Investigator: Bryan Young, Assistant Professor, Southern Illinois University

Weed Code	Common Name	Scientific Name
1. IPOSS	MORNINGGLORY, SPECIES	IPOMOEA SP.
2. ABUTH	VELVETLEAF	ABUTILON THEOPHRASTI MEDIK.
3. XANST	COCKLEBUR, COMMON	XANTHIUM STRUMARIUM L. SSP. STRUMARIUM
4. AMBEL	RAGWEED, COMMON	AMBROSIA ARTEMISIIFOLIA L.

Crop 1:	ZEAMX CORN, FIELD	Variety:	P33G28 LL
Planting Method:	SEEDED	Planting Date:	May-4-00
Rate:	28000 S/A	Depth:	1.5 IN
Row Spacing:	30 IN		

Plot Width, Unit:	10 FT	Plot Length, Unit:	30 FT	Reps:	3
Tillage Type:	REDUCED-TILL	Study Design:	RCB		
Previous Crop, Year:	GLXMA, 1999	Fertilizer applied:	N 150 LB/A,	P ₂ O ₅ 0 LB/A,	K ₂ O 0 LB/A

Soil Name:	WEIR	% OM:	2.4	pH:	6.1	CEC:	11
Texture:	SILT LOAM	P ₁ :	78 LB/A,	K:	413 LB/A		

APPLICATION DESCRIPTION

A
 Application Date: Jun-2-00
 Time of Day: 10:00
 Application Method: SPRAY
 Application Timing: 8"MG
 Applic. Placement: BROFOL
 Air Temp., Unit: 80 F
 % Relative Humidity: 80
 Wind Velocity, Unit: 5-7 MPH
 Soil Moisture: NORMAL
 % Cloud Cover: 25

CROP STAGE AT EACH APPLICATION

A
 Crop 1 Code, Stage: ZEAMX V5
 Height, Unit: 10-12 IN

WEED STAGE AT EACH APPLICATION

A
 Weed 1 Code: IPOSS
 Stage(leaves): 7-9
 Height(inches): 5-6
 Density: MEDIUM
 Weed 2 Code: ABUTH
 Stage(leaves): 4-6
 Height(inches): 4-8
 Density: MEDIUM
 Weed 3 Code: XANST
 Stage(leaves): 4-6
 Height(inches): 4-6
 Density: MEDIUM

APPLICATION EQUIPMENT

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

NOTES:

Harvested Oct-02-00 (2) 30 inch rows by 21 ft.

