## Control of Volunteer Roundup Ready Corn.

01-11A-W40

OBJECTIVE: Compare Select and Assure II for control of volunteer Roundup Ready corn.

SUMMARY: Select plus Prime Oil and Select plus Roundup Ultra Max controlled 99% of 8

inch volunteer Roundup Ready Corn. Similarly, Select plus Prime Oil and Assure II plus Roundup Ultra Max controlled 99% of 12 inch volunteer Roundup Ready corn. However, at 28 days after treatment, Select plus Roundup Ultra Max controlled only 63% of 12 inch volunteer corn. Adding Activator-90 to Select plus Roundup Ultra Max increased 12 inch volunteer corn control to 90%.

HERBICIDES WEEDS CROP

ASSURE II 0.88 EC ROUNDUP ULTRA MAX 3.7 SL SELECT 2 EC corn, volunteer

corn, field as an assay

**Bryan Young** 

PLANT, SOIL AND GENERAL AGRICULTURE DEPARTMENT
SOUTHERN ILLINOIS UNIVERSITY

Control of Volunteer Roundup Ready Corn.

Project Code: 01-11A-W40 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: 4-25-01

Objective:

Compare Select and Assure II for control of volunteer Roundup Ready corn.

Weed Code Common Name Scientific Name

1. ZEAMX corn, volunteer Zea mays L.

 Crop 1:
 ZEAMX
 corn, field
 Variety:
 DK 626 RR

 Planting Method:
 Seeded
 Planting Date:
 5-11-01

 Rate:
 28000
 S/A
 Depth:
 1.5 IN

Row Spacing: 30 IN

Plot Width, Unit: 10 FT Plot Length, Unit: 26 FT Reps: 3
Tillage Type: Reduced-Till Study Design: Randomized complete block

Previous Crop, Year: GLXMA, 2000

Field Prep./Maintenance: N 150 LB/A, P205 0 LB/A, K20 150 LB/A

 Soil Name:
 Weir
 % OM:
 1.5
 pH:
 6.0
 CEC:
 12

 Texture:
 Silt loam
 Fert. Level:
 P1:
 81 LB/A, K:
 247 LB/A

APPLICATION DESCRIPTION

Α В 6-1-01 6-8-01 Application Date: Time of Day: 16:00 8:00 Application Method: Spray Spray 8 "CN 12"CN Application Timing: BROFOL BROFOL Applic. Placement: 72 Air Temp., Unit: 68 % Relative Humidity: 50 80

Wind Velocity, Unit: 5 MPH 0-3 MPH
Soil Moisture: ABONOR ABONOR

CROP STAGE AT EACH APPLICATION

A B Crop 1 Code, Stage: ZEAMX V4 ZEAMX V6

Height, Unit: 8 IN 10-12 ZEAM

WEED STAGE AT EACH APPLICATION

 M
 B

 Weed 1 Code:
 ZEAMX
 ZEAMX

 Stage(leaves):
 4
 6

 Height(inches):
 8
 10-12

 Density:
 Medium
 Medium

APPLICATION EQUIPMENT

Α в CO2 sprayer CO2 sprayer Appl. Equipment: Operating Pressure: 40 PSI 40 PSI Nozzle Type: Flat fan Flat fan 8002 8002 Nozzle Size: Boom Length, Unit: 7.5 FT 7.5 FT

20

GPA

20

GPA

NOTES: NOT HARVESTED.

Spray Volume, Unit:

Project Code: 01-11A-W40

Location: Belleville Research Center

 Weed Code
 ZEAMX
 ZEAMX

 Rating Data Type
 Control
 Control

 Rating Unit
 Percent
 Percent

 Trt-Eval Interval
 14 DAT
 28 DAT

Trt-Eval Interval 14 DAT 28 DAT												
	Treatment Name		Form Type		Rate Unit		Prod Unit	Grow Stg	Appl Code			
1	NONTREATED									0	0	
2	SELECT PRIME OIL COC AMS	100	EC LIQ DRY	1.0	LB A/A PT/A LB A/A	1	PT/A	8"CN 8"CN 8"CN	Α	99	99	
3	SELECT ROUNDUP ULTRA MAX AMS	3.7	EC SL DRY	0.58	LB A/A LB AE/A LB A/A	20	OZ/A	8"CN 8"CN 8"CN	Α	99	99	
4	SELECT PRIME OIL COC AMS	100	EC LIQ DRY	1.0	LB A/A PT/A LB A/A	1	PT/A	12"CN 12"CN 12"CN	В	99	99	
5	SELECT ROUNDUP ULTRA MAX AMS	3.7	EC SL DRY	0.58	LB A/A LB AE/A LB A/A	20	OZ/A	12"CN 12"CN 12"CN	В	67	63	
6	SELECT ROUNDUP ULTRA MAX ACTIVATOR 90 AMS	3.7 100	EC SL LIQ DRY	0.58 0.125	LB A/A LB AE/A % V/V LB A/A	20 0.125	OZ/A %V/V	12"CN 12"CN 12"CN 12"CN	B B	93	90	
7	ASSURE II ROUNDUP ULTRA MAX AMS		EC SL DRY	0.58	LB A/A LB AE/A LB A/A	20	OZ/A	12"CN 12"CN 12"CN	В	99	99	
LSE	) (P=.05)									9.8	5.1	
Rep Tre	olicate F olicate Prob(F) atment F atment Prob(F)										1.170 0.3435 500.574 0.0001	

8-13-01 (01-11A-W40) Southern Illinois University

Control of Volunteer Roundup Ready Corn.

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Trial Comments

- 1. Protocol: Valent.
- 2. Blanket PRE application of Bicep II Magnum at 2.1 qt/A to all plots including nontreated on 5-14-01.
- 3. DAT = days after treatment.
  - 14 days after 8"CN and 12"CN applications was on 6-15-01 and 6-22-01, respectively. 28 days after 8"CN and 12"CN applications was on 6-29-01 and 7-6-01, respectively.