Aim used for Burndown in No-till Soybean.

00-11A-W85

OBJECTIVE: Evaluate the speed of activity of Roundup Ultra and Gramoxone burndown

programs with the addition of Aim and Take-up in no-till soybean.

SUMMARY: Aim alone controlled 8 to 38% of broadleaf weeds at 7 days after treatment

(DAT). Tank mixing Aim with Roundup Ultra or Roundup Ultra plus

Weedone 638 increased giant ragweed control at 7 DAT. In general, tank mixing Aim with Roundup Ultra or Gramaxone Extra did not increase or decrease control of horseweed or common ragweed. Take-up did not speed the activity of Roundup Ultra or Gramoxone Extra or improve overall

weed control.

HERBICIDES WEEDS CROP

AIM 40 WG GRAMOXONE EXTRA 2.5 SL ROUNDUP ULTRA 3 SL WEEDONE 638 2.8 EC TAKE-UP 100 LIQ FOXTAIL, GIANT GARLIC, WILD HORSEWEED RAGWEED, COMMON RAGWEED, GIANT ALL WEEDS **SOYBEAN**

Bryan Young

PLANT, SOIL AND GENERAL AGRICULTURE DEPARTMENT
SOUTHERN ILLINOIS UNIVERSITY

Aim used for Burndown in No-till Soybean.

Project Code: 00-11A-W85 Location: Belleville Research Center

Investigator: Bryan Young, Assistant Professor, Southern Illinois University

Weed Code Common Name RAGWEED, COMMON HORSEWEED 1. 2. 3. AMBEL **ERICA** RAGWEED, GIANT GARLIC, WILD FOXTAIL, GIANT WEEDS, GENERALLY **AMBTR** ALLVI SETFA 4. 5. 6. TTTTT

GLXMA SOYBEAN SEEDED 75 LB/A Crop 1:

Planting Method: Rate:

30 IN Row Spacing:

Plot Width, Unit: 10 FT Tillage Type: Previous Crop, Year: NO-TILL **ZEAMX**, 1999

Soil Name: WEIR SILT LOAM Texture:

APPLICATION DESCRIPTION

May-15-00 10:00 Application Date: Time of Day: Application Method: **SPRAY** Application Timing: EPP₁4 Applic. Placement: Air Temp., Unit: **BROFOL** 66 F % Relative Humidity: 30 Wind Velocity, Unit: 2-3 MPH Soil Moisture: NORMAL % Cloud Cover:

CROP STAGE AT EACH APPLICATION

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

WEED STAGE AT EACH APPLICATION

A AMBEL Weed 1 Code: Stage(leaves): Height(inches): 4-6 **MEDIUM** Density:

Weed 2 Code: **ERICA** Stage(leaves): Height(inches): 10+ 2-9 LOW Density:

AMBTR Weed 3 Code: Stage(leaves): 10+ Height(inches): 7-8 MEDIUM Density:

Weed 4 Code: ALLVI Stage(leaves): 3-4 21-30 Height(inches): Density: HIGH

SETFA 2-3 Weed 5 Code: Stage(leaves): Height(inches): Density: **MEDIUM**

APPLICATION EQUIPMENT

CO₂ SPRAY 40 PSI FLAT FAN Appl. Equipment: Operating Pressure: Nozzle Type: 8002 Nozzle Size: Boom Length, Unit: Spray Volume, Unit: 7.33 FT 20 GPA

NOTES:

Not harvested.

Scientific Name AMBROSIA ARTEMISIIFOLIA L. CONYZA CANADENSIS (L.) CRONG. AMBROSIA TRIFIDA L. ALLIUM VINEALE L.

SETARIA FABERI HERRM.

Variety: **AG 4301 RR/STS** May-24-00

Planting Date: 1.0 IN Depth:

Plot Length, Unit: 26 FT Reps: 3

Study Design: RCB Fertilizer applied: N 0 LB/A, P₂O₅ 0 LB/A, K₂O 0 LB/A

CEC: 76

% OM: 2.2 P₁: 76 LB/A, pH: 6 K: 349 LB/A

TABLE. AIM USED FOR BURNDOWN IN NO-TILL SOYBEAN. PROJECT CODE:00-11A-W85

						TTTTT			C	ONTRO	L, DAYS AFTER EPP14					
				APPL	APPL	NECROSIS	SETFA 7 14		ALLVI		ERICA		AMBEL		AMBTR	
TREATMENT	FORM.	RATE UNIT	PROD RATE	TIME	CODE	3 DA EPP14			7 14		7 14		7 14		7 14	
						%	%	%	%	%	%	%	%	%	%	%
1 NONTREATED						0	0	0	0	0	0	0	0	0	0	0
2 WEEDONE 638	2.8 EC	0.475 LB A/A	1.36 PT/A	EPP14	Α	42	99	99	12	22	75	98	75	99	60	92
2 ROUNDUP ULTRA	3 SL	0.375 LB AE/A	1.0 PT/A	EPP14	Α											
2 AMS	100 DRY	2.0 % W/W	17.0 LB/100 GAL	EPP14	Α											
3 GRAMOXONE EXTRA	2.5 SL	0.78 LB A/A	2.5 PT/A	EPP14	Α	95	99	99	47	52	98	99	99	99	97	98
3 PRIME OIL COC	100 LIQ	1.0 % V/V	1.0 %V/V	EPP14	Α											
4 ROUNDUP ULTRA	3 SL	0.5625 LB AE/A	1.5 PT/A	EPP14	Α	20	99	99	13	27	78	99	77	99	45	78
4 AMS	100 DRY	2.0 % W/W	17.0 LB/100 GAL	EPP14	Α											
5 AIM	40 WG	0.008 LB A/A	0.32 OZ/A	EPP14	Α	62	99	99	15	50	80	96	88	99	90	99
5 WEEDONE 638	2.8 EC	0.475 LB A/A	1.36 PT/A	EPP14	Α											
5 ROUNDUP ULTRA	3 SL	0.375 LB AE/A	1.0 PT/A	EPP14	Α											
5 AMS	100 DRY	2.0 % W/W	17.0 LB/100 GAL	EPP14	Α											
6 AIM	40 WG	0.008 LB A/A	0.32 OZ/A	EPP14	Α	96	99	99	55	57	96	99	99	99	96	99
6 GRAMOXONE EXTRA	2.5 SL	0.78 LB A/A	2.5 PT/A	EPP14	Α											
6 PRIME OIL COC	100 LIQ	1.0 % V/V	1.0 %V/V	EPP14	Α											
7 AIM	40 WG	0.008 LB A/A	0.32 OZ/A	EPP14	Α	57	99	99	17	20	70	98	73	84	63	60
7 ROUNDUP ULTRA	3 SL	0.5625 LB AE/A	1.5 PT/A	EPP14	Α											
7 AMS	100 DRY	2.0 % W/W	17.0 LB/100 GAL	EPP14	Α											
8 AIM	40 WG	0.004 LB A/A	0.16 OZ/A	EPP14	Α	50	99	99	17	25	67	99	67	83	67	72
8 ROUNDUP ULTRA	3 SL	0.5625 LB AE/A	1.5 PT/A	EPP14	Α											
8 AMS	100 DRY	2.0 % W/W	17.0 LB/100 GAL	EPP14	Α											
9 WEEDONE 638	2.8 EC	0.475 LB A/A	1.36 PT/A	EPP14	Α	48	99	99	12	25	72	99	83	99	70	83
9 ROUNDUP ULTRA	3 SL	0.375 LB AE/A	1.0 PT/A	EPP14	Α											
9 AMS	100 DRY	2.0 % W/W	17.0 LB/100 GAL	EPP14	Α											
9 TAKE-UP	100 LIQ	1.5 PT/A	1.5 PT/A	EPP14	Α											
10 GRAMOXONE EXTRA	2.5 SL	0.78 LB A/A	2.5 PT/A	EPP14	Α	96	99	99	47	55	98	99	98	99	97	96
10 PRIME OIL COC	100 LIQ	1.0 % V/V	1.0 %V/V	EPP14	Α											
10 TAKE-UP	100 LIQ	1.5 PT/A	1.5 PT/A	EPP14	Α											

(CONTINUED)

TABLE. AIM USED FOR BURNDOWN IN NO-TILL SOYBEAN. PROJECT CODE:00-11A-W85 (CONTINUED)

				APPL	APPL	TTTTT NECROSIS	CONTROL, DAYS AFTER EPP14									
							SETFA		ALLVI		ERICA		AMBEL		AMBTR	
TREATMENT	FORM.	RATE UNIT	PROD RATE	TIME	CODE	3 DA EPP14	7	14	7	14	7	14	7	14	7	14
						%	%	%	%	%	%	%	%	%	%	%
11 ROUNDUP ULTRA	3 SL	0.5625 LB AE/A	1.5 PT/A	EPP14	Α	22	99	99	20	20	85	99	85	99	65	83
11 AMS	100 DRY	2.0 % W/W	17.0 LB/100 GAL	EPP14	Α											
11 TAKE-UP	100 LIQ	1.5 PT/A	1.5 PT/A	EPP14	Α											
12 AIM	40 WG	0.008 LB A/A	0.32 OZ/A	EPP14	Α	62	0	0	10	20	10	0	17	3	38	27
12 PRIME OIL COC	100 LIQ	1.0 % V/V	1.0 %V/V	EPP14	Α											
13 AIM	40 WG	0.008 LB A/A	0.32 OZ/A	EPP14	Α	43	2	0	10	13	8	0	13	3	15	10
13 AMS	100 DRY	2.0 % W/W	17.0 LB/100 GAL	EPP14	Α											
14 AIM	40 WG	0.008 LB A/A	0.32 OZ/A	EPP14	Α	50	2	0	10	13	17	12	25	5	33	33
14 PRIME OIL COC	100 LIQ	1.0 % V/V	1.0 %V/V	EPP14	Α											
14 TAKE-UP	100 LIQ	1.5 PT/A	1.5 PT/A	EPP14	Α											
LSD						7	2	0	12	23	10	6	12	17	14	30
Р						0.01	0.01	1.0	0.01 (0.01	0.01	0.01	0.01	0.01	0.01	0.01

^{1.} PROTOCOL: FMC AND MALKEM INT.

^{2.} TTTTT = WEEDS GENERALLY.

^{3.} BLANKET APPLICATION OF ROUNDUP ULTRA + AMS, 1.0 QT/A + 17 LB/100 GAL AT 4-6"W APPLIED TO TREATMENTS 12, 13, AND 14 ON JUN-8-00.

^{4.} BLANKET APPLICATION OF ROUNDUP ULTRA + AMS, 1.0 QT/A + 17 LB/100 GAL AT 4-6"W APPLIED TO TREATMENTS 2-11 ON JUN-19-00.

^{5.} RATING DATES:

³ DA EPP14, 7 DA EPP14, AND 14 DA EPP14 ON MAY-18-00, MAY-22-00, AND MAY-29-00, RESPECTIVELY.