

Aim and Prowl H2O in Soybean Burndown.

Project Code: 04-5B-S75      Location: Belleville Research Center  
Investigator: Bryan Young

Investigator: Bryan Young, Associate Professor, Southern Illinois University

City State Zip Country:      Belleville      IL 62221 USA  
Trial Status: Final      Updated:      8-31-04

Objective:

Evaluate Aim for enhancement in speed of burndown and Prowl H2O for residual control in no-till.

Weed Code	Common Name	Scientific Name
1. HORPU	barley, little	Hordeum pusillum Nutt.
2. CAPBP	shepherdspurse	Capsella bursa-pastoris (L.) Medicus
3. CARPA	bittercress, smallflowered	Cardamine parviflora L.
4. ALOCA	foxtail, Carolina	Alopecurus carolinianus Walt.
5. ALLVI	garlic, wild	Allium vineale L.
6. CERVU	chickweed, mouseear	Cerastium vulgatum L.
7. GGGAN	grasses, annual	
8. ERICA	horseweed	Conyza canadensis (L.) Crong.
9. AMBEL	ragweed, common	Ambrosia artemisiifolia L.
10. SETFA	foxtail, giant	Setaria faberi Herrm.
11. PANDI	panicum, fall	Panicum dichotomiflorum Michx.

Crop 1:	GLXMA soybean	Variety:	Asgrow 4403 RR
Planting Method:	Seeded	Planting Date:	5-13-04
Rate:	75 lb/A	Depth:	1.0 IN
Row Spacing:	15 IN		

Plot Width, Unit:	10 FT	Plot Length, Unit:	27 FT	Reps:	3
Tillage Type:	No-Till	Study Design:	Randomized complete block		
Previous Crop, Year:	GLXMA, 2003				

Field Prep./Maintenance: N 0 LB/A, P2O5 50 LB/A, K2O 100 LB/A

Soil Name:	Stoy	% OM:	1.6	pH:	6.1	CEC:	7
Texture:	Silt loam	Fert. Level:	P1: 93 LB/A, K: 429 LB/A				

APPLICATION DESCRIPTION

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Application Date:	4-23-04
Time of Day:	10:00
Application Method:	Spray
Application Timing:	21EPP
Applic. Placement:	BROFOL
Air Temp., Unit:	54 F
% Relative Humidity:	98
Wind Velocity, Unit:	0 MPH
Soil Moisture:	ABONOR

CROP STAGE AT EACH APPLICATION

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

WEED STAGE AT EACH APPLICATION

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Weed 1 Code:	HORPU
Stage(leaves):	10+
Height(inches):	4-6
Density:	Medium
Weed 2 Code:	CAPBP
Stage(leaves):	10+
Height(inches):	6-14
Density:	Medium
Weed 5 Code:	ALLVI
Stage(leaves):	3-4
Height(inches):	6-14
Density:	Medium



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Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	HORPU	HORPU	CAPBP	CAPBP	CARPA	CARPA	ALOCA	ALOCA	ALLVI	ALLVI	CERVU	CERVU	GGGAN	ERICA	AMBEL
						Control	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control
						Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
						4-30-04	5-14-04	4-30-04	5-14-04	4-30-04	5-14-04	4-30-04	5-14-04	4-30-04	5-14-04	4-30-04	5-14-04	6-3-04	6-3-04	6-3-04
						7 DA-A	21 DA-A	7 DA-A	21 DA-A	7 DA-A	21 DA-A	7 DA-A	21 DA-A	7 DA-A	21 DA-A	7 DA-A	21 DA-A	3 WAP	3 WAP	3 WAP

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code																
1	NONTREATED									0	0	0	0	0	0	0	0	0	0	0	0				
2	AIM	2	EW	0.008	LB A/A	0.51	FL OZ/A	21EPP	A	0	0	17	0	33	50	0	0	25	25	50	50	0	93	0	
2	2,4-D LV4	3.8	EC	0.475	LB AE/A	1	PT/A	21EPP	A																
2	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	21EPP	A																
3	AIM	2	EW	0.008	LB A/A	0.51	FL OZ/A	21EPP	A	90	100	90	100	90	100	90	100	50	50	90	100	0	98	0	
3	ROUNDUP W-MAX	4.5	SL	0.77	LB AE/A	22	FL OZ/A	21EPP	A																
3	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	21EPP	A																
4	AIM	2	EW	0.008	LB A/A	0.51	FL OZ/A	21EPP	A	90	100	90	100	90	100	90	100	50	50	90	100	0	99	0	
4	ROUNDUP W-MAX	4.5	SL	0.77	LB AE/A	22	FL OZ/A	21EPP	A																
4	2,4-D LV4	3.8	EC	0.24	LB AE/A	0.5	PT/A	21EPP	A																
4	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	21EPP	A																
5	ROUNDUP W-MAX	4.5	SL	0.77	LB AE/A	22	FL OZ/A	21EPP	A	90	100	90	100	90	100	90	100	0	50	90	100	86	99	10	
5	PROWL	3.3	EC	1.24	LB A/A	3	PT/A	21EPP	A																
5	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	21EPP	A																
6	ROUNDUP W-MAX	4.5	SL	0.77	LB AE/A	22	FL OZ/A	21EPP	A	90	100	90	100	90	100	90	100	17	50	90	100	88	96	10	
6	PROWL H2O	3.8	CS	1.19	LB A/A	2.5	PT/A	21EPP	A																
6	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	21EPP	A																
LSD (P=.05)										0.0	0.0	10.7	0.0	10.7	0.0	0.0	0.0	21.4	0.0	0.0	0.0	11.4	5.8	19.1	
Replicate F										0.000	0.000	1.000	0.000	1.000	0.000	0.000	0.000	1.000	0.000	0.000	0.000	0.000	0.705	0.823	0.455
Replicate Prob(F)										1.0000	1.0000	0.4019	1.0000	0.4019	1.0000	1.0000	1.0000	0.4019	1.0000	1.0000	1.0000	0.5171	0.4666	0.6472	
Treatment F										0.000	0.000	156.064	0.000	133.504	0.000	0.000	0.000	11.050	0.000	0.000	0.000	153.421	462.591	0.727	
Treatment Prob(F)										1.0000	1.0000	0.0001	1.0000	0.0001	1.0000	1.0000	1.0000	0.0008	1.0000	1.0000	1.0000	0.0001	0.0001	0.6187	

Trial Comments

1. Protocol: FMC, BASF.
2. Ratings: WC 7 and 21 DAT and 3 WAP (Prowl trts only).
3. Blanket application of Roundup WeatherMax at 0.77 lbae/A was applied to all plots, 7.5 ft wide, on 6-17-04.
4. DA-A = Days after 21 EPP application.
5. GGGAN = Annual grasses including SETFA and PANDI.