

Wheat Weed Control Programs.

Project Code: 06-Murphy-Wheat Location: Murphysboro, IL
Investigator: Bryan Young

Investigator: Bryan Young, Associate Professor, Southern Illinois University

City State Zip Country: Murphysboro IL 62966 USA
Trial Status: Final **Updated:** 7-5-06

Objective:

Evaluation of herbicide programs in wheat for control of downy brome.

Weed Code Common Name Scientific Name
1. BROTE brome, downy Bromus tectorum L.

Crop 1: TRZAW wheat, winter **Variety:** P25R78
Planting Method: Seeded **Planting Date:** 10-25-05
Rate: 1.3 mil. S/A **Depth:** 1.0 IN
Row Spacing: 7.5 IN **Seed Bed:** No-till
Soil Temperature: 58 F **Soil Moisture:** NORMAL

Plot Width, Unit: 10 FT **Plot Length, Unit:** 25 FT **Reps:** 3
Tillage Type: No-Till **Study Design:** Randomized complete block
Previous Crop, Year: GLXMA, 2005
Field Prep./Maintenance: N 27 LB/A, P205 69 LB/A, K20 0 LB/A applied at planting.

APPLICATION DESCRIPTION

	A	B
Application Date:	10-29-05	11-19-05
Time of Day:	18:00	9:30
Application Method:	Spray	Spray
Application Timing:	PRE	FALL
Applic. Placement:	BROFOL	BROFOL
Air Temp., Unit:	55 F	56 F
% Relative Humidity:	55	27
Wind Velocity, Unit:	0 MPH	5-7 MPH
Dew Presence (Y/N):	N	N
Soil Temp., Unit:	58 F	47 F
Soil Moisture:	NORMAL	ABONOR
% Cloud Cover:	0	0

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	TRZAW NA	TRZAW 1-2 L
Height, Unit:	NA NA	2-4 IN

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code:		BROTE
Stage(leaves):		2-3
Height(inches):		2-3
Density:		High

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	CO2 sprayer	CO2 sprayer
Operating Pressure:	40 PSI	40 PSI
Nozzle Type:	Flat fan	Flat fan
Nozzle Size:	8002	8002
Boom Length, Unit:	7.5 FT	7.5 FT
Spray Volume, Unit:	20 GPA	20 GPA

NOTES:

Wheat Weed Control Programs.

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Weed Code														
Crop Code														
Rating Data Type														
Rating Unit														
Rating Date														
Trt-Eval Interval														

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	TRZAW Injury Percent 12-3-05 14 DA-B	TRZAW Injury Percent 12-10-05 21 DA-B	TRZAW Injury Percent 3-1-06	BROTE Control Percent 12-10-05 21 DA-B	BROTE Control Percent 3-1-06
1	EVEREST	70	WG	0.0219	lb ai/a	0.5	oz/a	FALL	B	2	5	0	10	2
1	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	FALL	B					
2	EVEREST	70	WG	0.0219	lb ai/a	0.5	oz/a	FALL	B	2	5	0	15	0
2	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	FALL	B					
2	28% UAN	100	LIQ	2.0	qt/a	2	qt/a	FALL	B					
3	EVEREST	70	WG	0.0267	lb ai/a	0.61	oz/a	FALL	B	3	4	0	17	8
3	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	FALL	B					
4	EVEREST	70	WG	0.0267	lb ai/a	0.61	oz/a	FALL	B	1	5	0	15	5
4	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	FALL	B					
4	28% UAN	100	LIQ	2.0	qt/a	2	qt/a	FALL	B					
5	EVEREST	70	WG	0.0219	lb ai/a	0.5	oz/a	FALL	B	7	8	0	15	7
5	HARMONY GT	50	SG	0.0125	lb ai/a	0.4	oz/a	FALL	B					
5	EXPRESS	50	SG	0.00625	lb ai/a	0.2	oz/a	FALL	B					
5	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	FALL	B					
6	EVEREST	70	WG	0.0219	lb ai/a	0.5	oz/a	FALL	B	4	7	0	12	8
6	HARMONY GT	50	SG	0.0125	lb ai/a	0.4	oz/a	FALL	B					
6	EXPRESS	50	SG	0.00625	lb ai/a	0.2	oz/a	FALL	B					
6	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	FALL	B					
6	28% UAN	100	LIQ	2.0	qt/a	2	qt/a	FALL	B					
7	EVEREST	70	WG	0.0267	lb ai/a	0.61	oz/a	FALL	B	3	6	0	15	3
7	HARMONY GT	50	SG	0.0156	lb ai/a	0.5	oz/a	FALL	B					
7	EXPRESS	50	SG	0.0078	lb ai/a	0.25	oz/a	FALL	B					
7	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	FALL	B					
8	EVEREST	70	WG	0.0267	lb ai/a	0.61	oz/a	FALL	B	5	9	0	17	7
8	HARMONY GT	50	SG	0.0156	lb ai/a	0.5	oz/a	FALL	B					
8	EXPRESS	50	SG	0.0078	lb ai/a	0.25	oz/a	FALL	B					
8	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	FALL	B					
8	28% UAN	100	LIQ	2.0	qt/a	2	qt/a	FALL	B					
9	MAVERICK	75	WG	0.0314	lb ai/a	0.67	oz/a	FALL	B	5	7	0	15	70
9	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	FALL	B					
10	NONTREATED									0	0	0	0	0
11	ROUNDUP W-MAX	4.5	SL	0.56	lb ae/a	16	fl oz/a	PRE	A	0	0	0	95	78
12	OLYMPUS	70	WG	0.0402	lb ai/a	0.92	oz/a	FALL	B	3	7	0	13	3
12	ACTIVATOR 90	100	LIQ	0.5	% v/v	0.5	% v/v	FALL	B					
13	OLYMPUS	70	WG	0.0131	lb ai/a	0.3	oz/a	FALL	B	1	7	0	17	0
13	OSPNEY	4.5	WG	0.009	lb ai/a	3.2	oz/a	FALL	B					
13	ACTIVATOR 90	100	LIQ	0.5	% v/v	0.5	% v/v	FALL	B					
13	28% UAN	100	LIQ	4.0	pt/a	4	pt/a	FALL	B					
14	OLYMPUS	70	WG	0.0262	lb ai/a	0.6	oz/a	FALL	B	3	7	0	20	10
14	HARMONY EXTRA XP	75	WG	0.0234	lb ai/a	0.5	oz/a	FALL	B					
14	ACTIVATOR 90	100	LIQ	0.5	% v/v	0.5	% v/v	FALL	B					

LSD (P=.05)

4.8 3.3 0.0 7.0 11.3

Replicate F

2.022 26.659 0.000 0.709 0.563

Replicate Prob(F)

0.1527 0.0001 1.0000 0.5014 0.5763

Treatment F

1.457 5.802 0.000 83.722 43.187

Treatment Prob(F)

0.2002 0.0001 1.0000 0.0001 0.0001

Trial Comments

1. Protocol: DuPont, Bayer.
2. Ratings:
CI 14, 21 and 28 DA FALL application, and every 14 days if injury persists.
WC 21 and 42 DA FALL application and at grassy weed heading.
3. DA-B = Days after FALL application.
4. Not harvested.