

## General Weed Control in Winter Wheat.

01-5C-S120

**OBJECTIVE:** Evaluate overall weed control with various herbicides in winter wheat.

**SUMMARY:** Substantial wheat injury ranging from 37 to 38% was observed with Everest and Olympus at 14 days after treatment (DAT). Wheat injury decreased only slightly by 28 DAT with 33 and 28% injury from Everest and Olympus, respectively. Injury was less than 5% from all other treatments.

No herbicide treatment controlled greater than 53% of wild garlic at 14 DAT. Wild garlic control was not evaluated 28 DAT because a heavy infestation of Carolina foxtail had reduced the wild garlic population. Carolina foxtail control 28 DAT was fair from Harmony Extra, Harmony GT, and Everest, and good (93 to 99%) from Olympus and Maverick.

Wheat yield ranged from 61 to 75 bu/A in herbicide treated plots. Despite good control of Carolina foxtail, the Olympus treated plots yielded similar to the nontreated check, possibly due to the crop injury observed from this treatment.

### HERBICIDES

EVEREST 70 WG  
HARMONY EXTRA 75 WG  
HARMONY GT 75 WG  
MAVERICK 75 WG  
OLYMPUS 70 WG  
PEAK 57 WG  
SENCOR 75 WG  
WEEDAR 64 3.8 EC

### WEEDS

foxtail, Carolina  
garlic, wild

### CROP

wheat, winter

Bryan Young

PLANT, SOIL AND GENERAL AGRICULTURE DEPARTMENT

SOUTHERN ILLINOIS UNIVERSITY

## General Weed Control in Winter Wheat.

Project Code: 01-5C-S120      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: 3-7-01**Objective:**

Evaluate overall weed control with various herbicides in winter wheat.

Weed Code	Common Name	Scientific Name
1. ALLVI	garlic, wild	Allium vineale L.
2. ALOCA	foxtail, Carolina	Alopecurus carolinianus Walt.
3. LAMAM	henbit	Lamium amplexicaule L.

Crop 1:	TRZAW wheat, winter	Variety:	P25R26
Planting Method:	Seeded	Planting Date:	10-20-00
Rate:	85 lb/A	Depth:	1.0 IN
Row Spacing:	7.5 IN		

Plot Width, Unit:	10 FT	Plot Length, Unit:	30 FT	Reps:	3
Tillage Type:	Reduced-Till	Study Design:	Randomized complete block		
Previous Crop, Year:	GLXMA, 2000				
Field Prep./Maintenance:	N 110 LB/A, P205 0 LB/A, K20 0 LB/A - see note				

Soil Name:	Weir	% OM:	1.7	pH:	5.4	CEC:	6
Texture:	Silt loam	Fert. Level:	P1: 74 LB/A, K: 132 LB/A				

**APPLICATION DESCRIPTION**

	<b>A</b>
Application Date:	4-4-01
Time of Day:	12:00
Application Method:	Spray
Application Timing:	SPRING
Applic. Placement:	BROFOL
Wind Velocity, Unit:	3 MPH
Soil Moisture:	ABONOR
% Cloud Cover:	80

**CROP STAGE AT EACH APPLICATION**

	<b>A</b>
Crop 1 Code, Stage:	TRZAW F5
Height, Unit:	4-6 IN

**WEED STAGE AT EACH APPLICATION**

	<b>A</b>
Weed 1 Code:	ALLVI
Stage(leaves):	3-4
Height(inches):	4-6
Density:	High
Weed 2 Code:	ALOCA
Stage(leaves):	3-4
Height(inches):	3-5
Density:	Medium
Weed 3 Code:	LAMAM
Stage(leaves):	10+
Height(inches):	0-3
Density:	Medium

## APPLICATION EQUIPMENT

A

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

NOTES: HARVESTED 6-19-01, 7 ROWS X 27 FT.

110 lb/A N applied 30 and 80 lb/A in fall and spring, respectively.

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Weed Code	TRZAW	TRZAW	TRZAW	TRZAW	ALLVI	ALOCA	ALOCA
Crop Code	Test wt.	Yield	Injury	Injury	Control	Control	Control
Rating Data Type	lb/bu	bu/A	Percent	Percent	Percent	Percent	Percent
Rating Unit	6-19-01	6-19-01	4-18-01	5-2-01	4-18-01	4-18-01	5-2-01
Rating Date			14 DA-A	28 DA-A	14 DA-A	14 DA-A	28 DA-A
Trt-Eval Interval							

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	TRZAW Test wt.	TRZAW Yield	TRZAW Injury	TRZAW Injury	ALLVI Control	ALOCA Control	ALOCA Control
1	NONTREATED									59.1	67	0	0	0	0	0
2	HARMONY EXTRA	75	WG	0.0235	LB A/A	0.5	OZ/A	SPRING	A	59.5	75	0	0	53	42	75
2	ACTIVATOR 90	100	LIQ	0.5	% V/V	0.5	%V/V	SPRING	A							
3	HARMONY GT	75	WG	0.0235	LB A/A	0.5	OZ/A	SPRING	A	59.9	72	0	0	47	50	57
3	ACTIVATOR 90	100	LIQ	0.5	% V/V	0.5	%V/V	SPRING	A							
4	EVEREST	70	WG	0.027	LB A/A	0.62	OZ/A	SPRING	A	58.2	61	37	33	35	40	60
4	ACTIVATOR 90	100	LIQ	0.5	% V/V	0.5	%V/V	SPRING	A							
5	OLYMPUS	70	WG	0.04	LB A/A	0.91	OZ/A	SPRING	A	57.8	66	38	28	40	45	93
5	ACTIVATOR 90	100	LIQ	0.5	% V/V	0.5	%V/V	SPRING	A							
6	MAVERICK	75	WG	0.03125	LB A/A	0.67	OZ/A	SPRING	A	59.9	75	0	3	43	77	99
6	ACTIVATOR 90	100	LIQ	0.5	% V/V	0.5	%V/V	SPRING	A							
7	SENCOR	75	WG	0.188	LB A/A	4	OZ/A	SPRING	A	59.6	73	0	0	0	0	0
7	ACTIVATOR 90	100	LIQ	0.5	% V/V	0.5	%V/V	SPRING	A							
8	PEAK	57	WG	0.0178	LB A/A	0.5	OZ/A	SPRING	A	59.8	62	2	0	38	0	0
8	ACTIVATOR 90	100	LIQ	0.5	% V/V	0.5	%V/V	SPRING	A							
9	WEEDAR 64	3.8	EC	0.7125	LB A/A	1.5	PT/A	SPRING	A	59.0	72	0	0	40	0	0
9	ACTIVATOR 90	100	LIQ	0.5	% V/V	0.5	%V/V	SPRING	A							
LSD (P=.05)										1.85	13.6	3.0	3.8	22.5	14.2	25.8
Replicate F										6.753	3.941	0.308	2.286	4.354	1.289	3.035
Replicate Prob(F)										0.0075	0.0406	0.7394	0.1339	0.0309	0.3062	0.0763
Treatment F										1.557	1.406	269.615	112.286	6.706	37.923	24.399
Treatment Prob(F)										0.2145	0.2668	0.0001	0.0001	0.0006	0.0001	0.0001

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Trial Comments

- 1. Protocol: SIU - BGY.
- 2. DA-A = days after SPRING application.
- 3. Harvested 6-19-01, (7) 7.5 inch rows x 27 ft.