

Evaluation of Wheat Yield Following Corn and Soybean in No-Till and Reduced-Till.

Project Code: 03-23N

Location: Belleville Research Center

**Investigator:** Bryan Young, Assistant Professor, Southern Illinois University

**City State Zip Country:** Belleville IL 62221 USA  
**Trial Status:** Final **Updated:** 7-21-03

**Objective:**

This study was designed to evaluate wheat yield following corn and soybean in no-till and reduced-till.

Weed Code	Common Name	Scientific Name
1.	STEME chickweed, common	Stellaria media (L.) Vill.
2.	LAMAM henbit	Lamium amplexicaule L.

**Crop 1:** TRZAW wheat, winter **Variety:** Pioneer 25R78  
**Planting Method:** Seeded **Planting Date:** 10-11-02  
**Rate:** 100 lb/A **Depth:** 1.0 IN  
**Row Spacing:** 7.5 IN

**Plot Width, Unit:** 10 FT **Plot Length, Unit:** 100 FT **Reps:** 7  
**Tillage Type:** See note **Study Design:** Split-plot  
**Previous Crop, Year:** See , note

**Field Prep./Maintenance:** N 110 LB/A, P205 0 LB/A, K20 0 LB/A  
 Nitrogen applied as 30 LB N/A on 10-8-02 and 80 LB N/A on 1-27-03.

**Soil Name:** Rushville **% OM:** 1.3 **pH:** 6.7 **CEC:** 10  
**Texture:** Silt loam **Fert. Level:** P1: 116 LB/A, K: 298 LB/A

**APPLICATION DESCRIPTION**

**Application Method:** NA **A**

**CROP STAGE AT EACH APPLICATION**

**Crop 1 Code, Stage:** TRZAW NA **A**  
**Height, Unit:** NA NA

**WEED STAGE AT EACH APPLICATION**

**Weed 1 Code:** NA **A**

**APPLICATION EQUIPMENT**

**Appl. Equipment:** NA **A**

**NOTES:**

Tillage was either no-till or reduced-till, see treatment list.  
 Previous crop was either corn or soybean, see treatment list.  
 Harvested Jul-2-03, (8) 7.5 inch rows by 90 ft.

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Weed Code	STEME	LAMAM			
Crop Code			TRZAW	TRZAW	TRZAW
Rating Data Type	Control	Control	Moisture	Test wt.	Yield
Rating Unit	Percent	Percent	Percent	lb/bu	bu/A
Rating Date	3-14-03	3-14-03	7-2-03	7-2-03	7-2-03
Trt-Eval Interval					

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Prod Rate	Prod Unit	Grow Stg	Appl Code
1	NO-TILL	71						
1	CORN	71			12.1		56.2	79
2	REDUCED-TILL	90						
2	CORN	90			11.9		56.7	93
3	NO-TILL	74						
3	SOYBEAN	74			12.1		56.5	91
4	REDUCED-TILL	90						
4	SOYBEAN	90			12.1		57.1	98
LSD (P=.05)		8.4			0.18		0.79	4.1
Replicate F		0.677			6.417		3.918	4.060
Replicate Prob(F)		0.6697			0.0009		0.0111	0.0095
Treatment F		13.005			1.614		1.970	32.521
Treatment Prob(F)		0.0001			0.2212		0.1547	0.0001

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#### Trial Comments

1. Protocol: SIU (RFK).
2. Harmoy Extra + Activator 90 at 0.023 lbai/A + 0.25% v/v applied across entire area to control winter annuals.