

Evaluation of No-Till vs Reduced-Till Wheat with and without Fungicides.

00-23E

OBJECTIVE: Evaluate effects of tillage systems with and without a fungicide.

SUMMARY: Quadris reduced the incidence of sceptoria by 8% in no-till and by 13% in reduced-till, compared with the nontreated. No glume blotch was observed with any treatment. There were no significant differences in yield due to fungicide or tillage. Yield ranged from 72 to 76 bu/A.

FUNGICIDE

QUADRIS 2.08 SC

WEEDS

none

CROP

WHEAT, WINTER

Ronald Krausz

PLANT, SOIL AND GENERAL AGRICULTURE DEPARTMENT

SOUTHERN ILLINOIS UNIVERSITY

Evaluation of No-Till vs Reduced-Till Wheat with and without Fungicides.

Project Code: 00-23E Location: Belleville Research Center

Investigator: Bryan Young, Assistant Professor, Southern Illinois University

Crop 1:	TRZAW WHEAT, WINTER	Variety:	P25R26	
Planting Method:	SEEDED	Planting Date:	10-13-99	
Rate:	100 LB/A	Depth:	1.0 IN	
Row Spacing:	7.0 IN			
Plot Width, Unit:	10 FT	Plot Length, Unit:	120 FT	Reps: 5
Tillage Type:	SEE NOTE	Study Design:	SPLIT-PLOT	
Previous Crop, Year:	GLXMA, 1999			
Soil Name:	RUSHVILLE	% OM: 1.8	pH: 6	CEC: 7
Texture:	SILT LOAM	P ₁ : 69 LB/A,	K: 278 LB/A	

APPLICATION DESCRIPTION

A
 Application Date: May-10-00
 Time of Day: 11:00
 Application Method: SPRAY
 Application Timing: F10
 Applic. Placement: BROFOL
 Air Temp., Unit: 65 F
 % Relative Humidity: 80
 Wind Velocity, Unit: 0 MPH
 Soil Moisture: NORMAL

CROP STAGE AT EACH APPLICATION

A
 Crop 1 Code, Stage: TRZAW F10.2
 Height, Unit: 35 IN

WEED STAGE AT EACH APPLICATION

A
 Weed 1 Code: NA

APPLICATION EQUIPMENT

A
 Appl. Equipment: CO₂ SPRAY
 Operating Pressure: 40 PSI
 Nozzle Type: FLAT FAN
 Nozzle Size: 8002
 Boom Length, Unit: 10 FT
 Spray Volume, Unit: 18 GPA

NOTES:

TILLAGES ARE NO-TILL AND REDUCED-TILL.

Harvested Jun-23-00, 4.375 by 99 ft.

TABLE. EVALUATION OF NO-TILL VS REDUCED-TILL WHEAT WITH AND WITHOUT FUNGICIDES. PROJECT CODE:00-23E

TREATMENT	FORM.	RATE	UNIT	PROD	RATE	TIME	APPL	APPL	TRZAW				
									DISEASE		MOISTURE	TEST	YIELD
									DA F10	28			
21	28	%	LB/BU	BU/A									
1 NO-TILL									10	10	12.2	51.9	72
1 NO FUNGICIDE													
2 NO-TILL									2	2	12.4	52.9	76
2 QUADRIS	2.08 SC	0.125	LB A/A	0.48	PT/A	F10	A						
3 REDUCED-TILL									15	15	12.4	52.9	75
3 NO FUNGICIDE													
4 REDUCED-TILL									2	2	12.5	53.1	76
4 QUADRIS	2.08 SC	0.125	LB A/A	0.48	PT/A	F10	A						
LSD									0	0	0.31	0.8	4
P									1.0	1.0	0.4	0.02	0.2

1. PROTOCOL = SIU/RFK.

2. RATING DATES:

21 DA F10, AND 28 DA F10 ON MAY-31-00, AND JUN-6-00, RESPECTIVELY.