

MSU Soil Fertility Research Program

RED WINTER WHEAT AS AFFECTED BY STARTER N AND PLANTING DATE

Trial ID: WHT04-14.15 Location: Campus Trial Year: 2014
 Investigator: Kurt Steinke
 Project ID: Starter N

Crop Code	TRZAW							
Crop Name	Winter wheat							
Crop Variety	Red Dragon							
Description	yield							
Rating Date	Jul-16-2015							
Rating Type	YIELD							
Rating Unit	BU							
Crop Stage Scale	HARVEST							
ARM Action Codes	TY1							
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage	6
TABLE OF R MEANS								
Replicate 1								84.9
Replicate 2								90.8
Replicate 3								102.3
Replicate 4								96.6
TABLE OF A (Planting Date) MEANS								
1 Late Sept								91.4 a
2 Early Oct								97.0 a
3 Late October								92.6 a
LSD P=.10								14.52
Standard Deviation								14.95
CV								15.96
TABLE OF B (Nitrogen) MEANS								
1 NO Starter								93.8 a
1	Urea 46-0-0	46 GR		90 lb ai/a	196 lb/a		GRNUP	
2 Starter								93.6 a
2	Urea 46-0-0	46 GR		25 lb ai/a	54.3 lb/a		FALL	
2	Urea 46-0-0	46 GR		90 lb ai/a	196 lb/a		GRNUP	
LSD P=.10								7.66
Standard Deviation								10.23
CV								10.92
TABLE OF A (Planting Date) B (Nitrogen) MEANS								
1 Late Sept								91.8 a
1 NO Starter								
1	Urea 46-0-0	46 GR		90 lb ai/a	196 lb/a		GRNUP	
2 Early Oct								99.8 a
1 NO Starter								
1	Urea 46-0-0	46 GR		90 lb ai/a	196 lb/a		GRNUP	
3 Late October								89.7 a
1 NO Starter								
1	Urea 46-0-0	46 GR		90 lb ai/a	196 lb/a		GRNUP	
1 Late Sept								90.9 a
2 Starter								
2	Urea 46-0-0	46 GR		25 lb ai/a	54.3 lb/a		FALL	
2	Urea 46-0-0	46 GR		90 lb ai/a	196 lb/a		GRNUP	
2 Early Oct								94.3 a
2 Starter								
2	Urea 46-0-0	46 GR		25 lb ai/a	54.3 lb/a		FALL	
2	Urea 46-0-0	46 GR		90 lb ai/a	196 lb/a		GRNUP	
3 Late October								95.5 a
2 Starter								
2	Urea 46-0-0	46 GR		25 lb ai/a	54.3 lb/a		FALL	
2	Urea 46-0-0	46 GR		90 lb ai/a	196 lb/a		GRNUP	
LSD P=.10								13.26
Standard Deviation								10.23
CV								10.92

Means followed by same letter do not significantly differ (P=.10, LSD)

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COMPLETE SPLIT-PLOT AOV For TRZAW Winter wheat Red Dragon yield Jul-16-2015 YIELD BU HARVEST TY1 (Data Column 6)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	23	3561.458458				
R	3	1009.172962	336.390987	3.214	0.0758	
A	2	140.149839	70.074920	0.314	0.7421	14.5
ERROR A	6	1340.605367	223.434228			
B	1	0.291057	0.291057	0.003	0.9591	7.7
AB	2	129.189443	64.594722	0.617	0.5608	13.3
ERROR B	9	942.049789	104.672199			

Crop Code

TRZAW, BCER, Triticum aestivum (winter), = US

Rating Type

YIELD = yield

Rating Unit

BU = bushel

ARM Action Codes

TY1 = $8.642858 * [5] * (100 - [3]) / 86.5$