## MSU Soil Fertility Research Program

## RED WINTER WHEAT AS AFFECTED BY STARTER N AND PLANTING DATE

Trial ID: WHT08-15.16 Location: Campus Trial Year: 2014 Investigator: Kurt Steinke

Project ID: Starter N

Crop Code Crop Name					TRZAW Winter wheat
Crop Variety Description Rating Date Rating Type Rating Unit					Sunburst Yield Jul-11-2016 HARVEST BU
Trt Treatment No. Name	Form Form Conc Type		Other Other Rate Rate I		6
TABLE OF R ME Replicate 1	101.6				
Replicate 2					97.1
Replicate 3					97.0
Replicate 4					92.6
TABLE OF A (PI 1 Late Sept	anting Date)	MEANS			103.3 a
2 Late Octobe	r				90.9 b
LSD P=.10 Standard Deviati CV	ion				2.85 2.97 3.06
TABLE OF B (Ni 1 NO Starter 1 Urea 46-0-0	trogen) MEA 46 GR	ANS 90 lb ai/a	196 lb/a	GRNUP	97.4 a
2 Starter 2 Urea 46-0-0 2 Urea 46-0-0	46 GR 46 GR	25 lb ai/a 90 lb ai/a	54.3 lb/a 196 lb/a	FALL GRNUP	101.8 a
3 Starter 3 Urea 46-0-0 3 Urea 46-0-0	46 GR 46 GR	25 lb ai/a 65 lb ai/a	54.3 lb/a 141 lb/a	FALL GRNUP	92.1 b
LSD P=.10 Standard Deviati CV	ion				5.22 5.81 5.99
TABLE OF A (PI 1 Late Sept 1 NO Starter					103.8 a
1 Urea 46-0-0	46 GR	90 lb ai/a	196 lb/a	GRNUP	
2 Late Octobe 1 NO Starter 1 Urea 46-0-0	r 46 GR	90 lb ai/a	196 lb/a	GRNUP	90.9 a
1 Late Sept 2 Starter 2 Urea 46-0-0	46 GR	25 lb ai/a	54.3 lb/a	FALL	107.5 a
2 Urea 46-0-0	46 GR	90 lb ai/a	196 lb/a	GRNUP	

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Crop Codo					TRZAW
Crop Code Crop Name					Winter wheat
Crop Variety Description Rating Date Rating Type Rating Unit					Sunburst Yield Jul-11-2016 HARVEST BU
Trt Treatment No. Name	Form Form Conc Type		Other Other Rate Rate I		6
2 Late October 2 Starter					96.2 a
2 Urea 46-0-0 2 Urea 46-0-0	46 GR 46 GR	25 lb ai/a 90 lb ai/a	54.3 lb/a 196 lb/a	FALL GRNUP	
1 Late Sept 3 Starter					98.7 a
3 Urea 46-0-0 3 Urea 46-0-0	46 GR 46 GR	25 lb ai/a 65 lb ai/a	54.3 lb/a 141 lb/a	FALL GRNUP	
2 Late October 3 Starter					85.5 a
3 Urea 46-0-0 3 Urea 46-0-0	46 GR 46 GR	25 lb ai/a 65 lb ai/a	54.3 lb/a 141 lb/a	FALL GRNUP	
LSD P=.10 Standard Deviation	on				7.38 5.81 5.99

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Location: Campus Trial Year: 2014 Investigator: Kurt Steinke Trial ID: WHT08-15.16

Project ID: Starter N

	COMPLETE SPLIT-PLOT AOV For TRZAW Winter wheat Sunburst Yield Jul-11-2016 HARVEST BU (Data Column 6)							
Missing v	Missing values in column 6 results in unbalanced data, Least Squares Analysis is preferred							
Source	Source DF Sum of Squares Mean Square F Prob(F) LSD (.10)							
Total	22	1954.086225	•		` ,	, ,		
R	3	239.920765	79.973588	2.368	0.1266			
A	1	928.721591	928.721591	105.384	0.0020	2.9		
ERROR A	4 3	26.438271	8.812757					
В	2	383.136828	191.568414	5.672	0.0203	5.2		
AB	2	4.342516	2.171258	0.064	0.9381	7.4		
ERROR E	ERROR B 11 371.526254 33.775114							
FACTORI	FACTORIAL/POOLED ERROR AOV For TRZAW Winter wheat Sunburst Yield Jul-11-2016 HARVEST BU (Data Column							
6) Missing	6) Missing values in column 6 results in unbalanced data, Least Squares Analysis is preferred							
Source DF Sum of Squares Mean Square F Prob(F) LSD (.10)								
Total	22	1954.086225	·		` ,	` ,		
R	3	239.920765	79.973588 2	2.813 0.	0777			
Α	1	928.721591	928.721591 32	2.672 0.	0001	3.8		
В	2	383.136828	191.568414 6	3.739 0.	0089	4.7		
AB	2	4.342516	2.171258 (	0.076 0.	9268	6.6		
ERROR	14	397.964526	28.426038					

<u>Crop Code</u> TRZAW, BCER, Triticum aestivum (winter), = TRZAW, BCER, Triticum aestivum (winter),

Rating Unit
BU = bushel
ARM Action Codes
TY1 = 9.219048\*[3]\*(100-@MVAVGREP([4]))/86.5