

MSU Soil Fertility Research Program
VARIETAL RESPONSE TO FUNGICIDE AND NITROGEN APPLICATIONS ON WINTER WHEAT
 Trial ID: WHT07-18.19 Location: SVRF Trial Year: 2018
 Investigator: Kurt Steinke
 Project ID: SteinChilver

Crop Code						TRZAW
Crop Name						Winter wheat
Description						Yield
Rating Date						Jul-24-2019
Rating Type						YIELD
Rating Unit						bu/ac
Crop Stage Scale						HARVEST
ARM Action Codes						TY1
Number of Decimals						1
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Growth Unit Stage
						4
TABLE OF R MEANS						
Replicate 1						92.5
Replicate 2						81.3
Replicate 3						81.3
Replicate 4						85.2
TABLE OF A (Variety) MEANS						
1 Ambassador						79.6 a
2 Dyno 9242W						84.4 a
3 Pioneer 25R40						91.4 a
4 Starburst						84.8 a
LSD P=.05						9.24
Standard Deviation						17.33
CV						20.37
TABLE OF B (Fungicide) MEANS						
1 No Fungicide						81.8 b
2	Prosaro	L		6.5 fl oz/a	6.5 fl oz/a	FKS10
2	Induce (NIS)	L		0.25 % v/v	0.25 % v/v	FKS10
3	Stratego YLD	L		4 fl oz/a	4 fl oz/a	FKS9
3	Induce (NIS)	L		0.125 % v/v	0.125 % v/v	FKS9
3	Prosaro	L		6.5 fl oz/a	6.5 fl oz/a	FKS10
3	Induce (NIS)	L		0.25 % v/v	0.25 % v/v	FKS10
LSD P=.05						3.32
Standard Deviation						7.88
CV						9.26
TABLE OF C (Fertilizer) MEANS						
1	Urea 46-0-0	46 GR		80 lb ai/a	174 lb/a	GRNUP
2						
3						
LSD P=.05						3.08
Standard Deviation						7.57
CV						8.90
TABLE OF A (Variety) B (Fungicide) MEANS						
1 Ambassador 1 No Fungicide						71.4 e
2 Dyno 9242W 1 No Fungicide						83.4 cd

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
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Rating Type							YIELD		
Rating Unit							bu/ac		
Crop Stage Scale							HARVEST		
ARM Action Codes							TY1		
Number of Decimals							1		
Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	
									4
3	Pioneer 25R40								88.0 bc
1	No Fungicide								
4	Starburst								84.5 cd
1	No Fungicide								
1	Ambassador								84.1 cd
2	Prosaro	L		6.5 fl oz/a		6.5 fl oz/a		FKS10	
2	Induce (NIS)	L		0.25 % v/v		0.25 % v/v		FKS10	
2	Dyno 9242W								83.3 cd
2	Prosaro	L		6.5 fl oz/a		6.5 fl oz/a		FKS10	
2	Induce (NIS)	L		0.25 % v/v		0.25 % v/v		FKS10	
3	Pioneer 25R40								91.5 ab
2	Prosaro	L		6.5 fl oz/a		6.5 fl oz/a		FKS10	
2	Induce (NIS)	L		0.25 % v/v		0.25 % v/v		FKS10	
4	Starburst								80.5 d
2	Prosaro	L		6.5 fl oz/a		6.5 fl oz/a		FKS10	
2	Induce (NIS)	L		0.25 % v/v		0.25 % v/v		FKS10	
1	Ambassador								83.3 cd
3	Stratego YLD	L		4 fl oz/a		4 fl oz/a		FKS9	
3	Induce (NIS)	L		0.125 % v/v		0.125 % v/v		FKS9	
3	Prosaro	L		6.5 fl oz/a		6.5 fl oz/a		FKS10	
3	Induce (NIS)	L		0.25 % v/v		0.25 % v/v		FKS10	
2	Dyno 9242W								86.6 bcd
3	Stratego YLD	L		4 fl oz/a		4 fl oz/a		FKS9	
3	Induce (NIS)	L		0.125 % v/v		0.125 % v/v		FKS9	
3	Prosaro	L		6.5 fl oz/a		6.5 fl oz/a		FKS10	
3	Induce (NIS)	L		0.25 % v/v		0.25 % v/v		FKS10	
3	Pioneer 25R40								94.7 a
3	Stratego YLD	L		4 fl oz/a		4 fl oz/a		FKS9	
3	Induce (NIS)	L		0.125 % v/v		0.125 % v/v		FKS9	
3	Prosaro	L		6.5 fl oz/a		6.5 fl oz/a		FKS10	
3	Induce (NIS)	L		0.25 % v/v		0.25 % v/v		FKS10	
4	Starburst								89.4 abc
3	Stratego YLD	L		4 fl oz/a		4 fl oz/a		FKS9	
3	Induce (NIS)	L		0.125 % v/v		0.125 % v/v		FKS9	
3	Prosaro	L		6.5 fl oz/a		6.5 fl oz/a		FKS10	
3	Induce (NIS)	L		0.25 % v/v		0.25 % v/v		FKS10	
LSD P=.05									6.64
Standard Deviation									7.88
CV									9.26
TABLE OF A (Variety) C (Fertilizer) MEANS									

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Description							Yield
Rating Date							Jul-24-2019
Rating Type							YIELD
Rating Unit							bu/ac
Crop Stage Scale							HARVEST
ARM Action Codes							TY1
Number of Decimals							1
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Rate	Growth Unit Stage
							4
1	Ambassador						78.0 a
1	Urea 46-0-0	46 GR		80 lb ai/a	174 lb/a	GRNUP	
2	Dyno 9242W						81.5 a
1	Urea 46-0-0	46 GR		80 lb ai/a	174 lb/a	GRNUP	
3	Pioneer 25R40						86.8 a
1	Urea 46-0-0	46 GR		80 lb ai/a	174 lb/a	GRNUP	
4	Starburst						85.6 a
1	Urea 46-0-0	46 GR		80 lb ai/a	174 lb/a	GRNUP	
1	Ambassador						79.5 a
2							
2	Dyno 9242W						85.1 a
2							
3	Pioneer 25R40						92.0 a
2							
4	Starburst						79.8 a
2							
1	Ambassador						81.5 a
3							
2	Dyno 9242W						86.6 a
3							
3	Pioneer 25R40						95.4 a
3							
4	Starburst						89.0 a
3							
LSD P=.05							6.16
Standard Deviation							7.57
CV							8.90
TABLE OF B (Fungicide) C (Fertilizer) MEANS							
1	No Fungicide						83.8 bc
1	Urea 46-0-0	46 GR		80 lb ai/a	174 lb/a	GRNUP	
2	Prosaro	L		6.5 fl oz/a	6.5 fl oz/a	FKS10	81.5 c
2	Induce (NIS)	L		0.25 % v/v	0.25 % v/v	FKS10	
1	Urea 46-0-0	46 GR		80 lb ai/a	174 lb/a	GRNUP	

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Crop Name						Winter wheat		
Description						Yield		
Rating Date						Jul-24-2019		
Rating Type						YIELD		
Rating Unit						bu/ac		
Crop Stage Scale						HARVEST		
ARM Action Codes						TY1		
Number of Decimals						1		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate Unit	Growth Stage	
								4
3	Stratego YLD	L		4 fl oz/a	4 fl oz/a		FKS9	83.5 bc
3	Induce (NIS)	L		0.125 % v/v	0.125 % v/v		FKS9	
3	Prosaro	L		6.5 fl oz/a	6.5 fl oz/a		FKS10	
3	Induce (NIS)	L		0.25 % v/v	0.25 % v/v		FKS10	
1	Urea 46-0-0	46	GR	80 lb ai/a	174 lb/a		GRNUP	
1	No Fungicide							80.4 c
2								
2	Prosaro	L		6.5 fl oz/a	6.5 fl oz/a		FKS10	83.4 bc
2	Induce (NIS)	L		0.25 % v/v	0.25 % v/v		FKS10	
2								
3	Stratego YLD	L		4 fl oz/a	4 fl oz/a		FKS9	88.4 ab
3	Induce (NIS)	L		0.125 % v/v	0.125 % v/v		FKS9	
3	Prosaro	L		6.5 fl oz/a	6.5 fl oz/a		FKS10	
3	Induce (NIS)	L		0.25 % v/v	0.25 % v/v		FKS10	
2								
1	No Fungicide							81.2 c
3								
2	Prosaro	L		6.5 fl oz/a	6.5 fl oz/a		FKS10	89.6 a
2	Induce (NIS)	L		0.25 % v/v	0.25 % v/v		FKS10	
3								
3	Stratego YLD	L		4 fl oz/a	4 fl oz/a		FKS9	93.6 a
3	Induce (NIS)	L		0.125 % v/v	0.125 % v/v		FKS9	
3	Prosaro	L		6.5 fl oz/a	6.5 fl oz/a		FKS10	
3	Induce (NIS)	L		0.25 % v/v	0.25 % v/v		FKS10	
3								
LSD P=.05						5.34		
Standard Deviation						7.57		
CV						8.90		
TABLE OF A (Variety) B (Fungicide) C (Fertilizer) MEANS								
1 Ambassador								
1 No Fungicide								
1	Urea 46-0-0	46	GR	80 lb ai/a	174 lb/a		GRNUP	74.6 a
2 Dyno 9242W								
1 No Fungicide								
1	Urea 46-0-0	46	GR	80 lb ai/a	174 lb/a		GRNUP	83.8 a
3 Pioneer 25R40								
1 No Fungicide								
1	Urea 46-0-0	46	GR	80 lb ai/a	174 lb/a		GRNUP	84.2 a

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Rating Date							Jul-24-2019
Rating Type							YIELD
Rating Unit							bu/ac
Crop Stage Scale							HARVEST
ARM Action Codes							TY1
Number of Decimals							1
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Unit	Growth Stage
							4
4	Starburst						92.9 a
1	No Fungicide						
1	Urea 46-0-0	46	GR	80 lb ai/a	174 lb/a	GRNUP	
1	Ambassador						78.8 a
2	Prosaro	L		6.5 fl oz/a	6.5 fl oz/a	FKS10	
2	Induce (NIS)	L		0.25 % v/v	0.25 % v/v	FKS10	
1	Urea 46-0-0	46	GR	80 lb ai/a	174 lb/a	GRNUP	
2	Dyno 9242W						80.9 a
2	Prosaro	L		6.5 fl oz/a	6.5 fl oz/a	FKS10	
2	Induce (NIS)	L		0.25 % v/v	0.25 % v/v	FKS10	
1	Urea 46-0-0	46	GR	80 lb ai/a	174 lb/a	GRNUP	
3	Pioneer 25R40						87.9 a
2	Prosaro	L		6.5 fl oz/a	6.5 fl oz/a	FKS10	
2	Induce (NIS)	L		0.25 % v/v	0.25 % v/v	FKS10	
1	Urea 46-0-0	46	GR	80 lb ai/a	174 lb/a	GRNUP	
4	Starburst						78.5 a
2	Prosaro	L		6.5 fl oz/a	6.5 fl oz/a	FKS10	
2	Induce (NIS)	L		0.25 % v/v	0.25 % v/v	FKS10	
1	Urea 46-0-0	46	GR	80 lb ai/a	174 lb/a	GRNUP	
1	Ambassador						80.5 a
3	Stratego YLD	L		4 fl oz/a	4 fl oz/a	FKS9	
3	Induce (NIS)	L		0.125 % v/v	0.125 % v/v	FKS9	
3	Prosaro	L		6.5 fl oz/a	6.5 fl oz/a	FKS10	
3	Induce (NIS)	L		0.25 % v/v	0.25 % v/v	FKS10	
1	Urea 46-0-0	46	GR	80 lb ai/a	174 lb/a	GRNUP	
2	Dyno 9242W						79.9 a
3	Stratego YLD	L		4 fl oz/a	4 fl oz/a	FKS9	
3	Induce (NIS)	L		0.125 % v/v	0.125 % v/v	FKS9	
3	Prosaro	L		6.5 fl oz/a	6.5 fl oz/a	FKS10	
3	Induce (NIS)	L		0.25 % v/v	0.25 % v/v	FKS10	
1	Urea 46-0-0	46	GR	80 lb ai/a	174 lb/a	GRNUP	
3	Pioneer 25R40						88.4 a
3	Stratego YLD	L		4 fl oz/a	4 fl oz/a	FKS9	
3	Induce (NIS)	L		0.125 % v/v	0.125 % v/v	FKS9	
3	Prosaro	L		6.5 fl oz/a	6.5 fl oz/a	FKS10	
3	Induce (NIS)	L		0.25 % v/v	0.25 % v/v	FKS10	
1	Urea 46-0-0	46	GR	80 lb ai/a	174 lb/a	GRNUP	

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Rating Type							YIELD
Rating Unit							bu/ac
Crop Stage Scale							HARVEST
ARM Action Codes							TY1
Number of Decimals							1
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Rate	Growth Unit Stage
							4
4	Starburst						85.4 a
3	Stratego YLD	L		4 fl oz/a	4 fl oz/a	FKS9	
3	Induce (NIS)	L		0.125 % v/v	0.125 % v/v	FKS9	
3	Prosaro	L		6.5 fl oz/a	6.5 fl oz/a	FKS10	
3	Induce (NIS)	L		0.25 % v/v	0.25 % v/v	FKS10	
1	Urea 46-0-0	46	GR	80 lb ai/a	174 lb/a	GRNUP	
1	Ambassador						67.9 a
1	No Fungicide						
2							
2	Dyno 9242W						82.8 a
1	No Fungicide						
2							
3	Pioneer 25R40						93.1 a
1	No Fungicide						
2							
4	Starburst						77.9 a
1	No Fungicide						
2							
1	Ambassador						87.0 a
2	Prosaro	L		6.5 fl oz/a	6.5 fl oz/a	FKS10	
2	Induce (NIS)	L		0.25 % v/v	0.25 % v/v	FKS10	
2							
2	Dyno 9242W						83.7 a
2	Prosaro	L		6.5 fl oz/a	6.5 fl oz/a	FKS10	
2	Induce (NIS)	L		0.25 % v/v	0.25 % v/v	FKS10	
2							
3	Pioneer 25R40						89.8 a
2	Prosaro	L		6.5 fl oz/a	6.5 fl oz/a	FKS10	
2	Induce (NIS)	L		0.25 % v/v	0.25 % v/v	FKS10	
2							
4	Starburst						73.2 a
2	Prosaro	L		6.5 fl oz/a	6.5 fl oz/a	FKS10	
2	Induce (NIS)	L		0.25 % v/v	0.25 % v/v	FKS10	
2							
1	Ambassador						83.5 a
3	Stratego YLD	L		4 fl oz/a	4 fl oz/a	FKS9	
3	Induce (NIS)	L		0.125 % v/v	0.125 % v/v	FKS9	
3	Prosaro	L		6.5 fl oz/a	6.5 fl oz/a	FKS10	
3	Induce (NIS)	L		0.25 % v/v	0.25 % v/v	FKS10	
2							

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							TRZAW/ Winter wheat Yield Jul-24-2019 YIELD bu/ac HARVEST TY1 1	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Rate	Growth Unit Stage	
								4
2	Dyno 9242W							88.8 a
3	Stratego YLD	L		4 fl oz/a	4 fl oz/a		FKS9	
3	Induce (NIS)	L		0.125 % v/v	0.125 % v/v		FKS9	
3	Prosaro	L		6.5 fl oz/a	6.5 fl oz/a		FKS10	
3	Induce (NIS)	L		0.25 % v/v	0.25 % v/v		FKS10	
2								
3	Pioneer 25R40							93.2 a
3	Stratego YLD	L		4 fl oz/a	4 fl oz/a		FKS9	
3	Induce (NIS)	L		0.125 % v/v	0.125 % v/v		FKS9	
3	Prosaro	L		6.5 fl oz/a	6.5 fl oz/a		FKS10	
3	Induce (NIS)	L		0.25 % v/v	0.25 % v/v		FKS10	
2								
4	Starburst							88.2 a
3	Stratego YLD	L		4 fl oz/a	4 fl oz/a		FKS9	
3	Induce (NIS)	L		0.125 % v/v	0.125 % v/v		FKS9	
3	Prosaro	L		6.5 fl oz/a	6.5 fl oz/a		FKS10	
3	Induce (NIS)	L		0.25 % v/v	0.25 % v/v		FKS10	
2								
1	Ambassador							71.9 a
1	No Fungicide							
3								
2	Dyno 9242W							83.6 a
1	No Fungicide							
3								
3	Pioneer 25R40							86.8 a
1	No Fungicide							
3								
4	Starburst							82.8 a
1	No Fungicide							
3								
1	Ambassador							86.6 a
2	Prosaro	L		6.5 fl oz/a	6.5 fl oz/a		FKS10	
2	Induce (NIS)	L		0.25 % v/v	0.25 % v/v		FKS10	
3								
2	Dyno 9242W							85.2 a
2	Prosaro	L		6.5 fl oz/a	6.5 fl oz/a		FKS10	
2	Induce (NIS)	L		0.25 % v/v	0.25 % v/v		FKS10	
3								

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Crop Stage Scale							HARVEST
ARM Action Codes							TY1
Number of Decimals							1
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Unit	Growth Stage
							4
3	Pioneer 25R40						96.7 a
2	Prosaro	L		6.5 fl oz/a	6.5 fl oz/a	FKS10	
2	Induce (NIS)	L		0.25 % v/v	0.25 % v/v	FKS10	
3							
4	Starburst						89.8 a
2	Prosaro	L		6.5 fl oz/a	6.5 fl oz/a	FKS10	
2	Induce (NIS)	L		0.25 % v/v	0.25 % v/v	FKS10	
3							
1	Ambassador						86.0 a
3	Stratego YLD	L		4 fl oz/a	4 fl oz/a	FKS9	
3	Induce (NIS)	L		0.125 % v/v	0.125 % v/v	FKS9	
3	Prosaro	L		6.5 fl oz/a	6.5 fl oz/a	FKS10	
3	Induce (NIS)	L		0.25 % v/v	0.25 % v/v	FKS10	
3							
2	Dyno 9242W						91.2 a
3	Stratego YLD	L		4 fl oz/a	4 fl oz/a	FKS9	
3	Induce (NIS)	L		0.125 % v/v	0.125 % v/v	FKS9	
3	Prosaro	L		6.5 fl oz/a	6.5 fl oz/a	FKS10	
3	Induce (NIS)	L		0.25 % v/v	0.25 % v/v	FKS10	
3							
3	Pioneer 25R40						102.6 a
3	Stratego YLD	L		4 fl oz/a	4 fl oz/a	FKS9	
3	Induce (NIS)	L		0.125 % v/v	0.125 % v/v	FKS9	
3	Prosaro	L		6.5 fl oz/a	6.5 fl oz/a	FKS10	
3	Induce (NIS)	L		0.25 % v/v	0.25 % v/v	FKS10	
3							
4	Starburst						94.6 a
3	Stratego YLD	L		4 fl oz/a	4 fl oz/a	FKS9	
3	Induce (NIS)	L		0.125 % v/v	0.125 % v/v	FKS9	
3	Prosaro	L		6.5 fl oz/a	6.5 fl oz/a	FKS10	
3	Induce (NIS)	L		0.25 % v/v	0.25 % v/v	FKS10	
3							
LSD P=.05							10.67
Standard Deviation							7.57
CV							8.90

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MSU Soil Fertility Research Program
 VARIETAL RESPONSE TO FUNGICIDE AND NITROGEN APPLICATIONS ON WINTER WHEAT
 Trial ID: WHT07-18.19 Location: SVRF Trial Year: 2018
 Investigator: Kurt Steinke
 Project ID: SteinChilver

COMPLETE SPLIT-PLOT AOV For TRZAW Winter wheat Yield Jul-24-2019 YIELD bu/ac HARVEST TY1 1 (Data Column 4) Missing values in column 4 results in unbalanced data, Least Squares Analysis is preferred							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.05)	
Total	142	18456.749609					
R	3	2996.743337	998.914446	16.087	0.0001		
A	3	2527.254185	842.418062	2.807	0.1004	9.2	
ERROR A	9	2701.433621	300.159291				
B	2	1077.544472	538.772236	8.676	0.0015	3.3	
AB	6	972.883764	162.147294	2.611	0.0431	6.6	
ERROR B	24	1490.311464	62.096311				
C	2	710.465039	355.232519	6.200	0.0033	3.1	
AC	6	500.471133	83.411855	1.456	0.2059	6.2	
BC	4	768.973378	192.243344	3.355	0.0142	5.3	
ABC	12	642.596911	53.549743	0.935	0.5182	10.7	
ERROR C	71	4068.072307	57.296793				
FACTORIAL/POOLED ERROR AOV For TRZAW Winter wheat Yield Jul-24-2019 YIELD bu/ac HARVEST TY1 1 (Data Column 4) Missing values in column 4 results in unbalanced data, Least Squares Analysis is preferred							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.05)	
Total	142	18456.749609					
R	3	2996.743337	998.914446	12.577	0.0001		
A	3	2527.254185	842.418062	10.607	0.0001	4.2	
B	2	1077.544472	538.772236	6.784	0.0017	3.6	
AB	6	972.883764	162.147294	2.042	0.0666	7.2	
C	2	710.465039	355.232519	4.473	0.0137	3.6	
AC	6	500.471133	83.411855	1.050	0.3975	7.2	
BC	4	768.973378	192.243344	2.421	0.0530	6.2	
ABC	12	642.596911	53.549743	0.674	0.7725	12.5	
ERROR 104		8259.817392	79.421321				

Crop Code
 TRZAW, BCER, Triticum aestivum, Winter wheat = US
Rating Type
 YIELD = yield
Rating Unit
 bu/ac = bushels per acre
ARM Action Codes
 TY1 = 6.914286*[1]*(100-@MVAVGREP([2]))/86.5

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.