

MSU Soil Fertility Research Program
VARIETAL RESPONSE TO FUNGICIDE AND NITROGEN APPLICATIONS ON WINTER WHEAT
 Trial ID: WHT07-17.18 Location: SVRF Trial Year: 2017
 Investigator: Kurt Steinke
 Project ID: SteinChilver

Crop Code							TRZAW
Crop Name							Winter wheat
Description							bu/ac
Rating Date							Jul-19-2018
Rating Type							YIELD
Rating Unit							BU
ARM Action Codes							TY1
Number of Decimals							0
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Rate	Growth Unit Stage
							6
TABLE OF R MEANS							
Replicate 1							86
Replicate 2							88
Replicate 3							93
Replicate 4							90
TABLE OF A (Variety) MEANS							
1 Ambassador							87 a
2 Dyno 9242W							92 a
3 Pioneer 25R40							88 a
4 Starburst							90 a
LSD P=.05							4.1
Standard Deviation							7.7
CV							8.6
TABLE OF B (Fungicide) MEANS							
1 No Fungicide							87 b
2	Prosaro	L		6.5 fl oz/a	6.5 fl oz/a	FKS10	90 a
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	91 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	
LSD P=.05							2.0
Standard Deviation							4.8
CV							5.4
TABLE OF C (Fertilizer) MEANS							
1	Urea 46-0-0	46 GR		80 lb ai/a	174 lb/a	GRNUP	89 a
2							90 a
3							89 a
LSD P=.05							1.7
Standard Deviation							4.2
CV							4.7
TABLE OF A (Variety) B (Fungicide) MEANS							
1 Ambassador 1 No Fungicide							85 a
2 Dyno 9242W 1 No Fungicide							90 a

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
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							TRZAW/ Winter wheat
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							Jul-19-2018
							YIELD
							BU
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							0
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Rate	Growth Unit Stage
							6
3	Pioneer 25R40						86 a
1	No Fungicide						
4	Starburst						88 a
1	No Fungicide						
1	Ambassador						87 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	Dyno 9242W						94 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	Pioneer 25R40						90 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	
4	Starburst						90 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	Ambassador						88 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	Dyno 9242W						93 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	Pioneer 25R40						88 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						94 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	
LSD P=.05							4.1
Standard Deviation							4.8
CV							5.4
TABLE OF A (Variety) C (Fertilizer) MEANS							

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Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Rate	Growth Unit Stage
							6
1	Ambassador						87 a
1	Urea 46-0-0	46	GR	80 lb ai/a	174 lb/a	GRNUP	
2	Dyno 9242W						92 a
1	Urea 46-0-0	46	GR	80 lb ai/a	174 lb/a	GRNUP	
3	Pioneer 25R40						88 a
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4	Starburst						88 a
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1	Ambassador						86 a
2							
2	Dyno 9242W						94 a
2							
3	Pioneer 25R40						89 a
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4	Starburst						92 a
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1	Ambassador						87 a
3							
2	Dyno 9242W						90 a
3							
3	Pioneer 25R40						88 a
3							
4	Starburst						91 a
3							
LSD P=.05							3.4
Standard Deviation							4.2
CV							4.7
TABLE OF B (Fungicide) C (Fertilizer) MEANS							
1	No Fungicide						87 a
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	90 a
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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Rating Type						YIELD		
Rating Unit						BU		
ARM Action Codes						TY1		
Number of Decimals						0		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Rate Unit	Growth Stage	
								6
3	Stratego YLD	L		4 fl oz/a	4 fl oz/a		FKS9	90 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	
1	Urea 46-0-0	46	GR	80 lb ai/a	174 lb/a		GRNUP	
1	No Fungicide							88 a
2								
2	Prosaro	L		6.5 fl oz/a	6.5 fl oz/a		FKS10	91 a
2	Induce (NIS)	L		0.25 % v/v	0.25 % v/v		FKS10	
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1	No Fungicide							87 a
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2	Prosaro	L		6.5 fl oz/a	6.5 fl oz/a		FKS10	90 a
2	Induce (NIS)	L		0.25 % v/v	0.25 % v/v		FKS10	
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3	Stratego YLD	L		4 fl oz/a	4 fl oz/a		FKS9	91 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								3.0
Standard Deviation								4.2
CV								4.7
TABLE OF A (Variety) B (Fungicide) C (Fertilizer) MEANS								
1	Ambassador							84 a
1	No Fungicide							
1	Urea 46-0-0	46	GR	80 lb ai/a	174 lb/a		GRNUP	
2	Dyno 9242W							91 a
1	No Fungicide							
1	Urea 46-0-0	46	GR	80 lb ai/a	174 lb/a		GRNUP	
3	Pioneer 25R40							86 a
1	No Fungicide							
1	Urea 46-0-0	46	GR	80 lb ai/a	174 lb/a		GRNUP	

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ARM Action Codes							TY1
Number of Decimals							0
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Rate	Growth Unit Stage
							6
4	Starburst						85 a
1	No Fungicide						
1	Urea 46-0-0	46	GR	80 lb ai/a	174 lb/a	GRNUP	
1	Ambassador						88 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						95 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						88 a
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1	Urea 46-0-0	46	GR	80 lb ai/a	174 lb/a	GRNUP	
1	Ambassador						89 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	
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Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Rate	Growth Unit Stage
							6
4	Starburst						90 a
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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						83 a
1	No Fungicide						
2							
2	Dyno 9242W						91 a
1	No Fungicide						
2							
3	Pioneer 25R40						89 a
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2	Induce (NIS)	L		0.25 % v/v	0.25 % v/v	FKS10	
2							
2	Dyno 9242W						95 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							
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1	Ambassador						87 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	
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ARM Action Codes							TY1
Number of Decimals							0
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Rate	Growth Unit Stage
							6
2	Dyno 9242W						97 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						87 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	
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4	Starburst						95 a
3	Stratego YLD	L		4 fl oz/a	4 fl oz/a	FKS9	
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2							
1	Ambassador						88 a
1	No Fungicide						
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2	Dyno 9242W						88 a
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3	Pioneer 25R40						84 a
1	No Fungicide						
3							
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3							
1	Ambassador						85 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	
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LSD P=.05							5.9
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COMPLETE SPLIT-PLOT AOV For TRZAW Winter wheat bu/ac Jul-19-2018 YIELD BU TY1 0 (Data Column 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 (.05)
Total	122	4549.795911				
R	3	970.029244	323.343081	13.864	0.0001	
A	3	679.343612	226.447871	3.855	0.0502	4
ERROR A	9	528.619599	58.735511			
B	2	324.632453	162.316226	6.960	0.0041	2
AB	6	126.948636	21.158106	0.907	0.5063	4
ERROR B	24	559.743730	23.322655			
C	2	37.041024	18.520512	1.065	0.3523	2
AC	6	142.375983	23.729331	1.365	0.2468	3
BC	4	11.585499	2.896375	0.167	0.9544	3
ABC	12	282.575127	23.547927	1.354	0.2189	6
ERROR C	51	886.901003	17.390216			
FACTORIAL/POOLED ERROR AOV For TRZAW Winter wheat bu/ac Jul-19-2018 YIELD BU TY1 0 (Data Column 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 (.05)
Total	122	4549.795911				
R	3	970.029244	323.343081	13.750	0.0001	
A	3	679.343612	226.447871	9.630	0.0001	2
B	2	324.632453	162.316226	6.903	0.0017	2
AB	6	126.948636	21.158106	0.900	0.4991	4
C	2	37.041024	18.520512	0.788	0.4583	2
AC	6	142.375983	23.729331	1.009	0.4250	4
BC	4	11.585499	2.896375	0.123	0.9738	3
ABC	12	282.575127	23.547927	1.001	0.4551	7
ERROR	84	1975.264332	23.515052			

Crop Code

TRZAW, BCER, Triticum aestivum, Winter wheat = US

Rating Type

YIELD = yield

Rating Unit

BU = bushel

ARM Action Codes

TY1 = 9.219048*[C1]*(100-@MVAVGREP([C2]))/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.