

MSU Soil Fertility Research Program

DEVELOPING NITROGEN RATE AND TIMING STRATEGIES TO IMPROVE SOFT RED WINTER WHEAT PRODUCTION, 2012-13.

Trial ID: WHT01-12.13 Location: INGHAM CO, DIETZ FARM Trial Year: 2013
 Protocol ID: WHT01-12.13 Investigator: Kurt Steinke
 Project ID: Study Director: Andy Chomas
 Sponsor Contact: Dr. Kurt Steinke

Crop Code Crop Name	TRZAW Winter wheat	TRZAW Winter wheat	TRZAW Winter wheat	TRZAW Winter wheat	TRZAW Winter wheat	TRZAW Winter wheat
Crop Variety Description	Red Ruby chloropyll	Red Ruby lodging	Red Ruby chloropyll	Red Ruby lodging	Red Ruby	Red Ruby
Rating Date	Jul-2-2013	Jul-9-2013	Jul-9-2013	Jul-16-2013	Jul-18-2013	Jul-18-2013
Rating Type	CHLCON	LODGIN	CHLCON	lodging	YIELD	YIELD
Rating Unit					moisture	testweig
Crop Stage Scale		1-9				
Trt No.	13	14	15	16	17	18
Treatment Name						
Rate						
Unit						
5 Urea 46-0-0	206.0 a	0.0 a	124.0 a	1.0 a	13.545 a	59.545 a
180 lb ai/a						
Urea 46-0-0						
16 lb ai/a						
14 Urea 46-0-0	277.0 a	0.0 a	136.8 a	0.0 a	13.658 a	60.325 a
180 lb ai/a						
Palisade						
12 fl oz/a						
NIS						
0.25 % v/v						
Urea 46-0-0						
16 lb ai/a						
LSD (P=.05)	177.34	0.00	27.87	3.18	0.6264	1.4094
Standard Deviation	78.82	0.00	12.39	1.41	0.2784	0.6264
CV	32.64	0.0	9.5	282.84	2.05	1.05
Bartlett's X2	0.038	0.0	0.603	0.0	0.733	0.169
P(Bartlett's X2)	0.846	.	0.437	.	0.392	0.681

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Crop Code	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW
Crop Name	Winter wheat	Winter wheat	Winter wheat	Winter wheat	Winter wheat	Winter wheat
Crop Variety	Red Ruby	Red Ruby	Red Ruby	Red Ruby	Red Ruby	Red Ruby
Description			whole plant sa>	whole plant sa>	whole plant sa>	whole plant sa>
Rating Date	Jul-18-2013	Jul-18-2013	Apr-26-2013	Apr-26-2013	Apr-26-2013	Apr-26-2013
Rating Type	YIELD	YIELD	N_percent	P_percent	K_percent	CA_percent
Rating Unit	pounds	BU				
Crop Stage Scale						
Trt No.	19	20	21	22	23	24
Treatment Name						
Rate						
Rate Unit						
5 Urea 46-0-0 180 lb ai/a Urea 46-0-0 16 lb ai/a	7.623 a	92.3 a	4.5050 a	0.3813 a	3.6250 a	0.3370 a
14 Urea 46-0-0 180 lb ai/a Palisade 12 fl oz/a NIS 0.25 % v/v Urea 46-0-0 16 lb ai/a	7.307 a	88.3 a	4.7815 a	0.4370 a	3.6903 a	0.3525 a
LSD (P=.05)	1.9513	24.40	0.66237	0.07720	0.50765	0.13977
Standard Deviation	0.5554	6.95	0.29438	0.03431	0.22562	0.06212
CV	7.44	7.69	6.34	8.39	6.17	18.02
Bartlett's X2	0.026	0.032	0.292	0.331	0.016	0.0
P(Bartlett's X2)	0.873	0.857	0.589	0.565	0.901	0.995