

2011 Winter Wheat Variety Trial - Continuously Cropped - No-till

Mandan

Cooperator: USDA-ARS, Northern Great Plains Research Lab., Mandan

This trial was partially funded by Ducks Unlimited, Bismarck

Variety	----- No Foliar Fungicide -----				----- Foliar Fungicide*-----				Grain Yield		Average Yield	
	Plant Ht	Test Weight	Grain Pro	Grain Yield	Plant Ht	Test Weight	Grain Pro	Grain Yield	2009	2010	2 yr	3 yr
	inch	lbs/bu	%	bu/A	inch	lbs/bu	%		----- bushels per acre -----			
Decade	34	50.6	12.9	25.0	33	51.4	12.9	30.0	92.3	49.6	39.8	57.3
Overland	33	50.5	12.3	22.8	35	52.9	12.5	34.0	84.4	51.4	42.7	56.6
Lyman	33	--	13.4	14.7	35	52.2	13.7	25.8	87.5	47.3	36.6	53.5
Millennium	39	49.9	12.4	17.6	36	52.9	12.3	33.0	77.7	51.1	42.0	53.9
Art	33	49.4	12.8	20.7	32	51.9	13.1	31.9	80.4	44.7	38.3	52.3
Peregrine	34	51.9	12.6	19.3	34	52.1	12.8	22.7	86.0	44.5	33.6	51.1
Boomer	36	--	13.0	9.6	33	50.1	13.6	22.1	81.8	48.3	35.2	50.7
Wesley	32	--	13.5	12.6	32	48.8	13.8	19.6	81.7	50.1	34.8	50.5
Hawken	31	48.7	12.7	17.1	26	50.4	13.8	20.1	83.2	45.9	33.0	49.7
Darrell	37	--	13.0	13.7	33	50.9	13.3	21.9	77.1	48.9	35.4	49.3
Radiant	39	--	12.1	13.6	36	51.5	12.6	20.6	85.7	38.4	29.5	48.2
Accipiter	36	--	12.6	13.5	36	51.6	12.5	19.2	80.8	44.4	31.8	48.1
Jerry	33	--	13.5	9.3	35	50.0	13.7	19.7	76.3	47.0	33.4	47.7
Falcon	34	--	13.2	13.7	36	51.1	12.3	23.9	78.7	40.7	32.2	47.8
Striker	28	--	13.3	11.1	32	51.5	13.2	22.4	74.0	41.4	31.9	45.9
Yellowstone	34	--	13.0	2.7	32	46.8	13.3	11.4	75.7	47.5	29.4	44.9
Carter	31	--	13.4	12.0	33	50.5	13.7	19.5		40.0	29.8	
SY Wolf	29	52.3	11.7	31.9	33	51.7	12.7	32.2				
SY503CL2	31	--	13.2	16.0	33	52.3	12.2	31.2				
Expedition	33	48.2	12.8	18.3	34	52.0	13.2	29.4				
WB Matlock	32	--	13.3	13.8	34	52.9	13.8	21.4				
Ideal	33	50.1	12.6	17.4	34	51.8	12.4	31.5				
Trial Mean	33	49.6	12.9	15.4	33	51.1	13.1	23.5	81.3	45.1	--	--
C.V. %	--	--	--	--	6.4	1.9	2.7	24.2	7.1	15.4	--	--
LSD .05	--	--	--	--	4	1.6	0.6	9.3	8.1	9.8	--	--
LSD .01	--	--	--	--	4	2.1	0.8	12.4	10.8	12.9	--	--

*Foliar fungicides: 5 oz/A Stratego applied on June 4 (jointing) and 8.2 oz/A Prostaro on July 1 (flowering).

Planting Date: September 28, 2010

Harvest Date: August 22, 2011

Seeding Rate: 1 million live seeds / acre (approx. 1.4 bu/A).

Previous Crop: hrsw.

Note: The 2011 trial sustained severe foliar and head disease infestations. The 2010 trial sustained significant nitrogen deficiency causing relatively poor yields.