

**NDSU Carrington Research Extension Center
2017 Variety Trial Data**

Hard Red Winter Wheat - Direct Seeded

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Variety	Disease ³		Heading Date	Plant Height in.	Lodge	--- Grain Protein ---			Test Weight lb/bu	----- Grain Yield -----			
	Lower Canopy %	Flag Leaf %				2017	3-yr. Avg. ⁵ %	KWT g/1000		No Fungicide	2017 Fungicide	2-yr. Avg. ⁴ bu/ac	3-yr. Avg. ⁵ bu/ac
Jerry	74.2	20.3	6/9	24.7	1.2	14.83	13.6	34.44	60.1	43.5	45.8	55.2	61.9
Decade	68.3	23.0	6/9	22.7	1.2	15.74	14.5	29.96	60.2	26.6	31.5	47.8	56.4
Lyman	76.7	41.7	6/8	23.9	2.0	17.69	15.1	31.69	57.6	9.9	34.9	45.7	52.9
Ideal	65.0	18.3	6/10	22.5	0.7	14.67	13.0	29.57	59.7	38.2	31.0	47.5	58.0
Overland	58.3	19.0	6/8	25.7	1.3	15.91	14.0	29.99	59.1	31.4	39.6	47.8	56.5
SY Wolf	74.2	6.3	6/9	24.4	1.0	14.84	13.5	32.82	61.2	44.2	50.1	53.5	59.8
WB Matlock	73.3	43.7	6/8	24.3	1.7	14.38	13.2	31.06	59.9	60.3	50.7	56.6	61.9
Peregrine	75.0	7.0	6/9	27.1	1.3	13.44	12.2	31.71	62.4	47.9	42.9	54.6	62.2
Accipiter	70.0	20.3	6/8	23.6	1.8	13.00	12.2	29.70	62.4	48.2	54.6	56.7	62.8
Moats	45.8	7.7	6/9	26.3	1.8	13.34	12.7	30.95	62.3	45.5	49.2	55.8	59.4
Flourish	58.3	20.3	6/8	25.1	1.0	14.84	13.5	33.71	61.2	33.1	42.3	49.9	54.9
AC Broadview	65.0	25.7	6/9	23.0	1.3	13.85	12.5	31.81	60.6	41.6	38.4	53.0	61.0
AC Emerson	66.7	19.7	6/8	26.2	0.5	15.49	14.0	26.53	61.1	34.4	38.0	49.4	57.4
AC Gateway	50.0	11.0	6/8	23.8	0.3	14.38	13.6	32.03	61.8	45.9	40.9	48.4	53.9
CDC Chase	60.0	15.0	6/8	27.6	0.8	13.35	--	31.19	62.7	42.7	53.7	55.6	--
Redfield	50.8	24.3	6/8	24.1	1.7	14.00	--	33.83	61.6	42.5	55.1	57.2	--
Ruth	40.8	31.0	6/8	23.6	1.3	15.85	--	29.45	58.9	35.1	35.1	--	--
Mean	58.7	21.8	6/9	24.5	1.2	14.74	--	31.52	60.6	40.0	42.5	--	--
C.V. (%)	33.9	49.6	0.7	11.9	48.1	7.1	--	5.6	2.1	18.7	18.7	--	--
LSD (0.05) ¹							--			-----2.4-----		--	--
LSD (0.05) ²	22.8	17.6	1.0	3.3	0.7	1.19	--	2.04	1.4	8.9	8.9	--	--
LSD (0.10) ²	19.1	14.7	1.0	2.8	0.6	1.00		1.68	1.2	7.3	7.3		

Planting Date = September 17, 2016; Harvest Date = July 25; Previous Crop = Flax; Fungicide = Proline applied at heading

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	Lower Canopy %	Flag Leaf %				2017	3-yr. Avg. ⁵	KWT g/1000		No Fungicide	2017 Fungicide	2-yr. Avg. ⁴	3-yr. Avg. ⁵
WB4614	52.5	15.7	6/9	23.8	0.3	15.51	--	31.03	61.3	33.8	38.7	53.5	--
SY Monument	66.7	19.0	6/8	24.8	0.8	13.83	--	32.88	59.7	43.9	30.8	--	--
SY Sunrise	41.7	28.3	6/11	22.0	0.5	16.16	--	30.53	58.9	37.7	37.7	--	--
Northern	27.5	24.3	6/11	23.0	1.7	14.27	--	35.37	61.5	44.1	47.3	--	--
Loma	40.0	60.0	6/11	22.4	2.0	15.19	--	29.56	58.9	35.0	36.9	--	--
Oahe	55.0	12.3	6/8	25.7	0.8	15.01	--	31.21	60.0	39.8	35.3	--	--
Keldin	52.5	9.0	6/9	27.0	1.2	12.75	--	41.13	62.3	55.8	60.4	--	--
Mean	58.7	21.8	6/9	24.5	1.2	14.74	--	31.52	60.6	40.0	42.5	--	--
C.V. (%)	33.9	49.6	0.7	11.9	48.1	7.1	--	5.6	2.1	18.7	18.7	--	--
LSD (0.05) ¹							--			-----2.4-----		--	--
LSD (0.05) ²	22.8	17.6	1.0	3.3	0.7	1.19	--	2.04	1.4	8.9	8.9	--	--
LSD (0.10) ²	19.1	14.7	1.0	2.8	0.6	1.00	--	1.68	1.2	7.3	7.3	--	--

Planting Date = September 17, 2016; Harvest Date = July 25; Previous Crop = Flax; Fungicide = Proline applied at heading

¹This represents the LSD value between columns

²This represents the LSD value within columns

³Leaf Disease Assessment:

** Values expressed as percent of leaf area affected by leaf spot diseases, primarily tan spot and with some septoria.

** Lower Canopy: Assessment of leaf spot diseases present on lower canopy leaves (2 and 3 leaves below flag), rated at initial heading.

** Flag Leaf: Assessment of leaf spot diseases present on flag leaves, rated at early to medium dough stage.

⁴ Two-year average is for 2015 and 2017 as 2016 trial experienced significant hail; average is for fungicide application.

⁵ Three-year average is for 2014, 2015 and 2017 as 2016 trial experienced significant hail; average is for fungicide application.