

NORTH DAKOTA STATE UNIVERSITY
Williston Research Extension Center

Hard Red Spring Wheat Irrigated Variety Trial

WREC, Nesson Valley, ND 2017

Variety	Origin	Year of release	Plant height (in)	Days to head (DAP+)	Lodging (0-9*)	Protein† (%)	Test weight (lb/bu)	Yield		
								2017 (bu/a)	2-Yr Avg (bu/a)	3-Yr Avg (bu/a)
LCS Iguacu	Limagrain	2014	35	57	0	15.2	60.4	115.6	98.7	97.8
Croplan HRSW 3530	Croplan	2015	36	57	0	15.1	59.3	103.9	96.7	97.5
Croplan HRS 3419	Croplan	2014	33	60	0	14.6	58.4	105.5	103.8	94.9
Prosper	NDSU	2011	36	52	0	15.3	60.1	113.8	98.6	94.2
Velva	NDSU	2011	36	55	0	15.5	59.5	101.6	91.9	94.0
Reeder	NDSU	1999	37	57	0	15.4	60.9	108.6	94.6	93.4
Elgin-ND	NDSU	2012	37	53	0	15.6	60.1	103.5	96.7	93.2
SY Soren	Syngenta	2011	30	53	0	15.6	61.2	111.3	94.3	92.0
Faller	NDSU	2007	34	55	0	14.4	59.5	116.9	98.0	91.8
Bolles	U of MN	2015	34	56	0	15.0	60.0	107.6	93.5	89.0
Mott	NDSU	2009	34	57	0	14.7	59.8	102.7	91.2	88.7
Rollag	U of MN	2011	33	55	0	15.2	61.6	108.8	91.6	88.2
WB-Mayville	Westbred	2011	30	52	0	15.1	60.4	113.5	91.0	88.1
Barlow	NDSU	2009	36	51	1	15.3	61.9	101.8	89.2	88.1
Prevail	SDSU	2014	35	52	0	15.3	59.8	106.1	90.1	87.9
Linkert	U of MN	2013	31	55	0	15.3	60.6	111.3	91.5	87.1
Steele-ND	NDSU	2004	36	54	0	14.8	61.1	107.0	91.5	86.5
Glenn	NDSU	2005	37	51	0	15.5	63.0	98.3	84.0	83.1
Prestige	Pulse-USA	2015	34	61	0	14.5	59.1	105.2	104.8	-
SY Ingmar	Syngenta	2014	32	54	0	15.3	60.4	111.4	98.0	-
MS Chevelle	Meridian	2014	32	53	0	14.4	58.8	109.2	97.8	-
LCS Prime	Limagrain	2015	34	51	0	15.2	61.3	116.3	96.9	-
LCS Nitro	Limagrain	2015	32	59	0	15.3	59.2	104.8	96.1	-

WB Digger	Westbred	2009	35	59	0	14.5	59.1	106.2	92.0	-
SY Valda	Syngenta	2015	30	53	0	15.9	60.0	112.4	91.3	-
ND-VitPro	NDSU	2017	36	53	0	15.0	61.5	102.7	90.1	-
Redstone	Pulse-USA	2014	34	50	0	15.6	59.3	109.9	89.7	-
Focus	SDSU	2015	38	50	0	15.2	61.7	110.9	88.9	-
Egan	MSU	2014	34	54	0	15.7	58.8	96.5	88.6	-
LCS Anchor	Limagrain	2016	31	53	0	15.7	60.8	108.4	86.6	-
WB9312	Westbred	2016	32	53	0	15.8	59.7	116.6	-	-
TCG-Spitfire	21 st Century Genetics	2015	32	57	0	14.7	59.6	115.9	-	-
SY Rockford	Syngenta	2016	36	58	0	15.1	58.9	115.4	-	-
Surpass	SDSU	2016	33	50	0	15.6	59.4	110.3	-	-
LCS Trigger	Limagrain	2016	38	61	0	15.6	58.5	108.7	-	-
MS Camaro	Meridian	2016	31	52	0	15.0	60.7	107.4	-	-
TCG-Wildfire	21 st Century Genetics	2015	38	57	1	15.0	60.4	103.6	-	-
Croplan HRS 3504	Croplan	2015	29	56	0	14.5	58.6	103.2	-	-
TCG-Climax	21 st Century Genetics	2017	35	59	0	15.3	62.1	100.8	-	-
LCS Rebel	Limagrain	2017	37	52	1	15.0	61.3	98.8	-	-
TCG-Cornerstone	21 st Century Genetics	2015	30	56	0	15.3	60.2	97.1	-	-
Boost	SDSU	2016	35	57	0	14.9	59.4	96.1	-	-
Mean			34.0	54.5	0.0	15.2	60.2	107.3	93.6	90.9
C.V. (%)			-	-	-	7.08	1.09	8.32	-	-
LSD (5%)			-	-	-	NS	0.91	12.44	-	-
LSD (10%)			-	-	-	1.26	0.77	10.42	-	-

Location: Latitude 48 9.9222'N; Longitude 103 6.132'W; Elevation 1902 ft

Previous crop: Pea

Planted: 5-1-2017

Harvested: 8-16-2017

Residue at planting: Conventional till

Soil type: Lihen Loamy Fine Sand

Plot size: 87.5 ft²

Soil test to (0-6"): P=20 ppm; K=206 ppm; pH=7.8; OM=2.5%

(0-24"): NO₃-N=54 lb/a

Applied fertilizer in lb/a broadcast: 319 lbs of Urea (46-0-0)

Yield goal: 90 bu/a

Planting population: 1.5 million seeds/a

Herbicides applied: Wolverine Advance 1.7 pt/a (5/30/2017)

Fungicides applied: Prosaro 421 SC 8 oz/A (6/29/2017)

Rainfall: 5.75 in (5/1/2017 - 8/16/2017)

Irrigation: 12.65 in (5/1/2017 - 8/16/2017)

†Days after planting

*0: no lodging - 9: plants lying flat on ground

†Protein content adjusted to a 12% moisture