

Hard Red Spring Wheat Irrigated Variety Trial - NDSU

WREC, Nesson Valley, ND 2017

Variety	Origin	Plant height (in)	Days to head (DAP+)	Protein† (%)	Test weight (lb/bu)	Yield		
						2017 (bu/a)	2-Yr Avg (bu/a)	3-Yr Avg (bu/a)
LCS Iguacu	Limagrain	35	57	13.6	60.4	115.6	98.7	97.8
Croplan HRSW 3530	Croplan	36	57	15.3	59.3	103.9	96.7	97.5
Croplan HRS 3419	Croplan	33	60	14.3	58.4	105.5	103.8	94.9
Prosper	NDSU	36	52	14.5	60.1	113.8	98.6	94.2
Velva	NDSU	36	55	15.3	59.5	101.6	91.9	94.0
Reeder	NDSU	37	57	15.5	60.9	108.6	94.6	93.4
Elgin-ND	NDSU	37	53	15.3	60.1	103.5	96.7	93.2
SY Soren	Syngenta	30	53	15.1	61.2	111.3	94.3	92.0
Faller	NDSU	34	55	14.6	59.5	116.9	98.0	91.8
Bolles	U of MN	34	56	17.0	60.0	107.6	93.5	89.0
Mott	NDSU	34	57	16.2	59.8	102.7	91.2	88.7
Rollag	U of MN	33	55	15.3	61.6	108.8	91.6	88.2
WB-Mayville	Westbred	30	52	15.1	60.4	113.5	91.0	88.1
Barlow	NDSU	36	51	15.8	61.9	101.8	89.2	88.1
Prevail	SDSU	35	52	14.3	59.8	106.1	90.1	87.9
Linkert	U of MN	31	55	15.5	60.6	111.3	91.5	87.1
Steele-ND	NDSU	36	54	15.4	61.1	107.0	91.5	86.5
Glenn	NDSU	37	51	16.4	63.0	98.3	84.0	83.1
Prestige	Pulse-USA	34	61	14.4	59.1	105.2	104.8	-
SY Ingmar	Syngenta	32	54	15.1	60.4	111.4	98.0	-
MS Chevelle	Meridian	32	53	14.4	58.8	109.2	97.8	-
LCS Prime	Limagrain	34	51	14.4	61.3	116.3	96.9	-
LCS Nitro	Limagrain	32	59	13.6	59.2	104.8	96.1	-
WB Digger	Westbred	35	59	15.0	59.1	106.2	92.0	-
SY Valda	Syngenta	30	53	14.7	60.0	112.4	91.3	-
ND-VitPro	NDSU	36	53	15.7	61.5	102.7	90.1	-
Redstone	Pulse-USA	34	50	15.4	59.3	109.9	89.7	-
Focus	SDSU	38	50	15.9	61.7	110.9	88.9	-
Egan	MSU	34	54	17.0	58.8	96.5	88.6	-
LCS Anchor	Limagrain	31	53	15.7	60.8	108.4	86.6	-
WB9312	Westbred	32	53	12.9	59.7	116.6	-	-
TCG-Spitfire	21 st Century Genetics	32	57	13.7	59.6	115.9	-	-
SY Rockford	Syngenta	36	58	14.8	58.9	115.4	-	-
Surpass	SDSU	33	50	14.6	59.4	110.3	-	-
LCS Trigger	Limagrain	38	61	13.7	58.5	108.7	-	-
MS Camaro	Meridian	31	52	15.8	60.7	107.4	-	-
TCG-Wildfire	21 st Century Genetics	38	57	14.8	60.4	103.6	-	-
Croplan HRS 3504	Croplan	29	56	14.4	58.6	103.2	-	-
TCG-Climax	21 st Century Genetics	35	59	17.2	62.1	100.8	-	-
LCS Rebel	Limagrain	37	52	16.0	61.3	98.8	-	-
TCG-Cornerstone	21 st Century Genetics	30	56	15.2	60.2	97.1	-	-
Boost	SDSU	35	57	15.7	59.4	96.1	-	-
Mean		34.0	54.5	15.11	60.2	107.3	93.6	90.9
C.V. (%)		-	-	2.76	1.09	8.32	-	-
LSD (5%)		-	-	0.58	0.91	12.44	-	-
LSD (10%)		-	-	0.49	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