

Performance of hard red spring wheat cultivars with and without fungicide¹ on yield and agronomic traits at Steele County, ND, 2018.

Cultivar	Heading Date	Lodging		Height		Leaf Disease		Test Weight		FHB Index		Protein		Yield			
		No Fung	Fung	No Fung	Fung	No Fung	Fung	No Fung	Fung	No Fung	Fung	No Fung	Fung	No Fung	Fung	Avg.	2-yr Avg.
		----(1-9)----		----(cm)----		----(%)----		----(lb/bu)----		----(%)----		----(%)----		------(bu/acre)-----			
AAC Brandon	6/23	1.0	1.3	80.5	82.2	10.7	3.9	61.6	61.5	0.0	0.3	16.0	15.7	77.9	79.9	78.9	--
AAC Goodwin	6/24	1.3	2.0	81.8	82.7	6.7	6.8	62.7	63.1	0.0	0.2	15.4	15.3	84.4	86.7	85.5	--
AAC Penhold	6/25	1.0	1.0	71.0	71.2	8.7	3.3	60.6	61.5	0.3	0.0	15.2	15.1	77.1	80.4	78.7	--
Ambush	6/22	1.0	1.0	78.3	78.8	8.0	13.7	62.1	61.9	0.1	0.0	15.9	15.7	82.0	80.1	81.1	72.7
Barlow	6/21	1.3	1.3	84.5	87.5	15.3	6.8	62.3	62.6	0.2	0.0	15.5	15.1	74.3	75.6	75.0	70.6
Bolles	6/24	1.0	1.0	84.5	83.3	10.0	7.7	61.9	61.9	0.1	0.2	16.6	17.0	73.5	77.5	75.5	70.9
Boost	6/25	1.0	1.0	84.7	81.7	6.3	2.3	61.3	62.2	0.2	0.0	15.4	15.3	82.3	83.6	83.0	75.7
Caliber	6/24	1.0	1.0	63.0	63.2	5.7	6.9	60.8	61.6	0.1	0.3	15.7	15.5	68.6	72.4	70.5	68.1
Elgin ND	6/22	2.0	2.7	92.7	93.2	12.3	16.1	60.6	61.1	0.1	0.0	15.0	15.0	77.1	77.3	77.2	72.6
Faller	6/23	1.0	1.0	84.3	82.3	10.0	7.1	62.2	61.4	0.2	0.1	14.8	14.8	87.6	89.3	88.5	76.3
Glenn	6/21	1.0	1.0	88.0	88.8	9.7	7.1	62.6	63.1	0.0	0.6	16.0	15.8	68.5	72.4	70.4	68.1
HRS 3100	6/23	1.0	1.0	77.0	77.8	6.5	7.7	61.0	61.5	0.0	0.0	14.9	14.7	79.9	84.9	82.4	73.8
HRS 3419	6/29	1.0	1.0	78.8	79.7	13.0	9.0	61.9	61.9	0.3	0.0	13.9	13.9	84.1	92.1	88.1	73.9
HRS 3504	6/24	1.0	1.0	72.3	75.0	8.0	10.7	60.7	62.0	0.0	0.2	14.7	14.7	81.5	88.8	85.2	72.3
HRS 3530	6/24	1.0	1.0	85.0	87.5	8.3	7.3	61.8	62.1	0.0	0.1	15.8	15.7	88.7	91.0	89.9	78.0
HRS 3616	6/23	1.0	1.0	76.5	77.0	9.7	15.7	60.0	60.4	0.2	0.0	16.2	16.2	77.3	76.4	76.8	70.1
HRS 3888	6/23	1.0	1.0	76.7	77.7	11.0	10.2	60.8	61.2	0.0	0.0	15.4	15.1	80.7	79.9	80.3	--
Lang	6/25	1.0	1.7	85.3	85.7	7.3	6.5	63.0	63.3	0.7	0.0	15.9	15.6	76.5	77.0	76.8	72.0
Lanning	6/26	1.0	1.0	77.2	75.8	13.7	14.0	60.7	60.5	0.4	0.1	16.1	16.0	78.5	77.6	78.1	--
LCS Breakaway	6/21	1.0	1.0	73.5	74.7	10.0	11.0	62.5	62.3	0.1	0.1	15.7	15.5	78.0	84.8	81.4	72.4
LCS Cannon	6/20	1.0	1.0	76.3	78.5	14.3	7.7	62.9	62.2	0.0	0.1	15.3	15.2	84.9	85.4	85.1	--
LCS Rebel	6/21	1.0	1.3	86.2	84.7	7.3	7.0	62.7	62.4	0.1	0.2	15.5	15.6	85.5	85.8	85.7	75.8
LCS Trigger	6/28	1.0	1.0	80.3	81.3	10.7	7.0	62.5	62.1	0.0	0.0	12.9	12.8	93.2	93.4	93.3	78.7
Linkert	6/23	1.0	1.0	69.8	68.5	6.0	3.9	61.6	61.5	1.5	0.3	16.0	15.8	74.7	72.6	73.6	67.5
MS Barracuda	6/21	1.0	1.0	74.8	73.5	13.0	15.7	61.3	61.8	0.3	0.9	16.0	16.0	82.5	85.7	84.1	--
MS Camaro	6/22	1.0	1.0	71.3	72.0	12.3	13.9	61.9	61.8	0.7	0.5	15.1	15.1	71.3	78.3	74.8	68.6
MS Chevelle	6/22	1.0	1.0	77.2	74.8	9.3	12.7	61.0	60.7	0.2	0.2	14.5	14.3	82.0	84.4	83.2	74.6
ND VitPro	6/22	1.0	1.0	82.8	80.7	6.3	5.1	62.7	63.1	0.2	0.0	15.8	15.6	70.9	72.6	71.8	69.2
Prosper	6/25	1.0	1.7	86.3	86.3	4.5	2.9	62.1	61.9	0.3	0.0	14.8	14.7	90.0	91.8	90.9	78.8
Rollag	6/23	1.0	1.0	73.2	74.0	7.3	6.3	62.5	62.9	0.0	0.0	16.2	16.1	74.2	74.4	74.3	67.6
Shelly	6/25	1.0	1.0	75.7	74.5	12.7	11.7	62.4	63.0	0.2	0.2	14.7	14.8	85.0	85.0	85.0	75.8
Surpass	6/20	1.0	1.3	81.2	78.2	7.7	5.4	61.2	61.8	0.1	0.1	15.5	15.1	80.7	84.0	82.3	69.8
SY Ingmar	6/24	1.0	1.0	71.0	72.8	4.8	4.1	62.6	63.0	0.0	0.0	15.6	15.5	75.5	81.0	78.3	66.2
SY Rockford	6/26	1.0	1.0	76.7	74.8	20.0	21.3	59.9	59.9	0.0	0.0	15.4	15.2	78.2	77.9	78.1	--
SY Soren	6/22	1.0	1.0	69.7	69.5	8.3	10.3	61.7	61.7	0.0	0.5	15.3	15.2	75.6	73.9	74.7	72.1
SY Valda	6/23	1.0	1.0	71.0	73.8	9.3	6.1	62.2	62.4	0.0	0.0	15.1	14.9	87.5	90.8	89.2	72.2
TCG-Climax	6/28	1.0	1.0	78.7	83.0	11.7	12.3	63.4	64.2	0.4	0.0	16.2	16.1	80.6	83.0	81.8	71.3
TCG-Glenville	6/22	1.0	1.0	64.8	66.2	11.3	7.3	63.1	63.0	0.1	0.2	15.8	15.8	69.0	72.8	70.9	--
TCG-Spittfire	6/26	1.0	1.0	71.5	74.7	4.2	3.8	60.7	61.3	0.2	0.0	14.5	14.6	84.7	93.9	89.3	75.3
WB9479	6/23	1.0	1.0	70.7	69.7	14.0	23.1	61.5	62.4	0.2	0.2	16.1	15.8	79.0	81.6	80.3	72.0
WB9590	6/22	1.0	1.0	67.7	68.3	11.0	10.4	62.8	62.2	0.1	0.0	15.7	15.5	86.9	89.4	88.2	73.7
WB9653	6/23	1.0	1.0	72.3	73.3	7.0	6.3	61.5	62.1	0.0	0.0	14.6	14.5	89.7	93.9	91.8	79.2
WB9719	6/25	1.0	1.0	73.5	72.3	6.3	4.9	63.8	63.8	0.3	0.0	14.8	14.9	91.2	91.6	91.4	78.5
Mean		1.0	1.0	71.0	70.9	9.6	11.2	62.4	62.6	0.1	0.1	15.3	15.2	86.7	89.1	87.9	72.8
CV		29.2		3.1		63.0		1.2		243.1		1.3		3.5		3.5	
LSD 0.05		0.5		3.8		9.1		1.2		0.7		0.3		4.5		3.2	

¹Fungicide consisted of ProstarTM at 6.5 fl oz/acre + NIS 2 pt/100 gal at Feekes 10.51