

Performance of winter wheat varieties, with and without fungicide¹ on yield and agronomic traits, Prosper, 2011.

Varieties	Heading Date		Plant Height		1000 K Weight		Protein		Test Weight		Yield	
	No Fung	Fung	No Fung	Fung	No Fung	Fung	No Fung	Fung	No fung	Fung	No Fung	Fung
	Date		(cm)		(gm)		(%)		(lb/bu)		(bu/a)	
Accipiter	6/22	6/22	82.7	89.0	25.5	28.6	13.2	12.8	50.1	53.0	27.7	37.6
Art	6/9	6/10	81.0	88.0	27.8	26.1	15.0	14.6	49.6	51.0	24.8	34.4
Boomer	6/15	6/17	85.0	87.3	25.3	27.4	14.5	15.1	48.1	51.0	21.5	32.6
CDC Falcon	6/16	6/17	83.3	87.0	20.1	26.4	15.0	13.7	47.8	51.3	22.1	30.1
Carter	6/17	6/16	78.7	75.7	26.0	20.4	15.1	14.9	48.7	50.7	21.8	30.2
Darrell	6/14	6/14	90.0	91.3	28.4	29.2	14.3	14.3	49.7	52.9	28.3	40.8
Decade	6/17	6/16	85.7	84.3	27.3	29.4	15.0	14.3	47.3	50.1	25.6	36.5
Expedition	6/10	6/10	94.3	86.3	28.4	33.1	13.9	13.2	51.0	54.1	29.5	47.8
Hawken	6/11	6/8	77.3	79.3	28.4	29.5	15.8	14.9	49.2	51.2	18.2	35.7
Ideal	6/17	6/17	81.7	90.3	23.9	27.5	13.1	14.1	49.6	51.1	30.4	34.2
Jerry	6/16	6/17	95.7	93.3	28.6	27.9	14.4	14.0	49.9	52.4	31.6	44.6
Lyman	6/11	6/12	87.7	93.7	29.8	34.2	14.4	14.1	52.3	53.8	33.7	38.0
Millennium	6/16	6/16	92.3	98.3	23.1	29.8	13.9	14.2	51.0	52.0	32.4	40.9
Overland	6/14	6/15	87.0	92.0	25.6	30.3	14.4	14.0	50.8	53.5	32.4	49.2
Peregrine	6/18	6/17	100.0	99.7	27.8	27.2	12.9	13.5	52.5	53.7	34.9	39.3
Radiant	6/19	6/18	98.0	97.0	23.8	27.5	12.7	12.7	49.3	51.1	28.7	33.5
Striker	6/18	6/17	82.0	81.3	23.3	24.7	13.9	14.0	46.5	51.2	17.0	35.4
SY Wolf	6/14	6/14	81.0	82.3	27.6	29.1	14.8	13.2	50.0	52.6	34.6	48.7
WB Matlock	6/19	6/18	85.7	87.3	29.3	28.3	14.1	14.3	51.2	53.9	26.5	45.9
Wesley	6/9	6/16	85.7	83.3	28.1	28.6	14.5	14.1	46.4	49.7	26.9	31.0
Yellowstone	6/22	6/18	85.7	89.3	20.4	24.7	14.6	13.8	43.0	47.6	12.1	28.1
Mean	6/15	6/15	86.7	88.4	26.1	28.1	14.3	14.0	49.2	51.8	26.7	37.8
c.v.	0.0		9.7		15.3		6.2		4.1		25.4	
LSD 0.05	1.3		13.6		6.9		1.4		3.3		13.1	

1-Fungicides consisted of Stratego at 4 fl oz/acre at the 4 lf stage and Prosaro at 6.5 fl oz/acre at Feekes 10.51

joel.ransom@ndsu.edu

Effect of winter wheat variety and fungicide¹ on lodging and disease development, Prosper ND, 2011.

Varieties	Lodging		FHB Severity ²		DON ³	
	No Fung	Fung	No Fung	Fung	No Fung	Fung
	(0-9)		(%)		(ppm)	
Accipiter	2.3	2.3	6.8	1.7	8.3	4.1
Art	6.0	5.0	11.9	1.3	1.5	1.1
Boomer	6.3	3.3	5.7	4.3	4.1	3.6
CDC Falcon	2.7	2.3	13.8	10.1	4.9	4.2
Carter	6.7	5.3	0.7	0.1	1.5	1.0
Darrell	4.7	4.7	8.3	0.5	1.7	2.3
Decade	4.3	3.7	5.3	0.4	3.5	5.5
Expedition	6.3	3.7	8.2	0.5	2.7	1.7
Hawken	4.7	5.0	17.8	6.2	1.8	0.8
Ideal	4.0	4.7	4.0	3.7	3.6	3.4
Jerry	4.7	4.3	2.8	0.1	3.7	2.7
Lyman	8.0	6.3	0.9	4.1	1.1	1.5
Millennium	5.3	4.0	6.2	0.7	2.0	2.1
Overland	6.7	5.3	8.2	0.3	2.4	1.6
Peregrine	4.3	3.7	1.5	0.6	3.7	2.7
Radiant	1.3	1.0	8.5	3.6	9.3	6.4
Striker	3.7	2.0	17.8	7.6	9.0	6.1
SY Wolf	2.7	1.7	21.1	4.5	4.6	1.9
WB Matlock	2.7	4.3	3.2	0.4	4.0	1.7
Wesley	3.0	3.3	9.8	6.8	4.1	3.2
Yellowstone	3.7	2.0	11.5	6.5	6.5	6.7
Mean	4.5	3.7	8.3	3.0	4.0	3.0
c.v.	46.0		126.0		56.4	
LSD 0.05	3.0		11.2		3.2	

1-Fungicides consisted of Stratego at 4 fl oz/acre at the 4 lf stage and Prosaro at 6.5 fl oz/acre at Feekes 10.51

2- FHB Field Severity = Fusarium Head Blight severity (percent heads infected by the percent of spikelets infected).

3- DON = deoxynivalenol or Vomitoxin which is produced by the Fusarium fungus that causes FHB.