

South Dakota Agricultural Experiment Station  
South Dakota State University  
Plant Science Department

Release of 'Forefront' Hard Red Spring Wheat

'Forefront' is a hard red spring wheat cultivar developed and released in 2011 by the South Dakota Agricultural Experiment Station. It was derived as a single spike from within an F<sub>4</sub> population (FN1700-155/FN1500-074/Walworth) that was originally created in spring 2001. During early generation advancement Select was tested as population 23775T and as SD3997 within South Dakota State University Preliminary Yield Trials (2005) and Advanced Yield Trials (AYT) from 2006 through 2011. Forefront was tested in the Uniform Regional Spring Wheat Nursery (URN) during 2009 and 2010 as well as the South Dakota Crop Performance Testing (CPT) trials in 2008 through 2011. Forefront was also evaluated by the Wheat Quality Council in 2011. Coverage under the United States Plant Variety Protection Act will be sought.

Points of note associated with Forefront include:

- 1 Good yield potential
- 2 High test weight
- 3 Good grain protein concentration
- 4 Early heading date
- 5 A good level of Fusarium Head Blight (FHB) resistance
- 6 Resistant to moderately resistant ratings for both leaf and stem rust

When compared over 36 South Dakota AYT location-years, (6 locations, 6 years) Forefront, 'Briggs', 'Granger', 'Brick', 'Select', 'Steele-ND' and 'Knudson' all produced statistically similar amounts of grain (approximately 49.5 bushels per acre). Over these location-years, however, all seven cultivars produced less grain than, 'Traverse' (52.1 bu/ac). Test weight of Forefront (57.8 lb/bu) was statistically similar to Brick (58.3), Select (57.6) and Steele-ND (57.3 lb/bu), though significantly greater than the remaining cultivars. Grain protein concentration of Forefront (15.3%) was statistically similar to Steele-ND (15.3%) and Briggs (15.2%). All were significantly higher than Traverse (14.4%). Forefront (36.4 in.) is similar in height to Granger (35.8 in.) and Traverse (35.2 in.). Its heading date is approximately 2.0 days later than Brick.

Several field studies designed to measure FHB resistance levels among AYT, URN, and CPT entries have shown that Forefront is moderately resistant. Greenhouse and field tests have revealed that Forefront was resistant or moderately resistant when inoculated with regionally prominent leaf and stem rust races.

Tests carried out at the USDA Spring Wheat Quality Laboratory in Fargo, ND, have demonstrated that most milling and baking quality parameters associated with Forefront are similar to Granger and Steele-ND, but superior to those of Traverse.



**Carrington 2014 HRSW Variety Trial Irrigated**

Rank	Variety	Days to Head	Plant Height	Plant Lodge	Grain Protein	1000 KWT	Test Weight	Grain Yield
			inch	0 to 9	%	gms	lbs/bu	bu/ac
1	MS Stingray	55.5	37.0	3.3	12.1	33.9	57.8	85.8
2	Faller	53.5	36.3	2.8	13.8	38.9	60.3	85.4
3	Samson	52.5	32.6	2.5	14.0	33.7	59.6	82.8
4	Croplan HRS 3419	56.5	35.0	1.3	12.6	31.1	58.8	76.8
5	Prosper	53.0	35.2	2.0	12.8	39.4	60.2	74.3
6	LCS Powerplay	52.5	32.0	2.5	13.1	36.0	60.6	72.5
7	WB-Digger	54.0	36.4	3.8	15.0	36.6	59.0	71.6
8	SY Rowyn	49.0	32.6	4.3	13.9	30.2	60.1	70.2
9	Croplan HRS 3361	53.3	35.0	2.3	14.3	35.5	59.6	70.0
10	ND 901CL Plus	51.5	38.9	1.3	15.8	33.5	59.6	69.7
11	WB9507	49.8	35.1	1.8	13.6	42.2	58.9	69.5
12	Brick	46.8	34.4	3.3	14.1	35.6	61.2	69.1
13	Prevail (SD 4178)	49.8	34.6	1.8	13.5	37.0	59.7	68.7
15	Focus	47.0	38.1	2.0	13.8	35.5	61.1	68.3
16	Jenna	54.8	33.5	4.3	14.7	36.8	58.6	68.3
17	WB-Mayville	48.8	30.9	2.5	14.7	38.2	59.9	68.3
18	Glenn	49.5	38.0	2.5	14.8	34.1	62.3	68.2
19	LCS Iguacu	55.0	34.8	3.5	12.0	32.2	59.8	67.5
20	Steele-ND	49.8	35.0	3.0	14.6	35.7	61.3	67.4
21	AP 605CL	51.5	36.0	2.5	13.7	31.3	60.1	67.4
22	Elgin-ND (ND 818)	51.3	36.7	3.8	14.7	30.8	59.3	67.1
23	MS Chevelle	49.5	31.0	3.3	13.1	32.3	59.8	67.1
24	ND 899	48.3	36.1	2.5	14.0	32.0	60.2	67.0
25	SY Tyra	52.5	30.5	3.0	13.7	33.6	60.5	65.8
26	Norden	52.0	32.3	2.3	14.3	32.1	61.2	65.4
27	SY Soren	50.5	30.6	2.3	14.4	31.4	60.6	65.3
28	Advance	53.5	33.7	3.8	13.4	32.8	59.4	65.0
29	RB07	52.5	32.4	3.3	14.2	31.6	58.9	64.6
30	MN08165-8	54.3	35.0	4.3	17.1	33.4	58.1	64.6
31	Select	47.0	34.2	2.3	13.7	36.2	61.5	64.6
32	Duclair	50.0	32.5	2.3	13.6	36.8	59.8	63.9
33	Croplan HRS 3378	53.5	33.2	2.8	13.5	30.2	59.8	63.8
34	Briggs	48.3	33.0	3.0	14.3	37.5	60.2	63.7
35	Barlow	48.3	35.9	4.0	15.4	32.5	60.0	63.5
36	Alpine	52.0	34.2	2.8	13.4	33.5	58.6	62.6
37	LCS Breakaway	50.0	30.6	1.5	14.1	35.2	61.8	62.6
38	Brennan	51.8	29.6	2.3	14.6	32.9	59.8	62.5
39	Linkert	52.5	30.1	1.3	15.3	38.5	59.2	62.3
40	Vantage	53.8	32.6	1.8	14.6	32.4	61.9	61.8
<b>41</b>	<b>Forefront</b>	<b>47.5</b>	<b>38.6</b>	<b>2.3</b>	<b>14.2</b>	<b>34.6</b>	<b>59.9</b>	<b>61.7</b>
42	Velva	53.5	34.2	2.5	13.7	35.2	58.7	61.3
43	LCS Albany	57.5	30.2	3.8	13.0	29.2	58.9	61.3
44	Howard	49.3	33.3	2.3	13.7	37.8	61.1	59.8
45	Rollag	50.5	29.5	0.8	14.1	37.6	60.9	59.5
46	Alsen	49.5	34.3	2.3	14.5	35.0	60.6	59.2
47	Freyr	50.5	34.5	2.8	13.9	32.5	59.4	58.3
48	Breaker	53.3	33.2	3.3	13.9	35.1	60.8	58.3
49	Kelby	50.3	32.0	2.8	15.2	31.3	59.4	58.1
50	SY Ingmar	50.8	29.4	2.0	13.5	33.5	61.2	55.4
	MEAN	51.3	34.1	2.7	14.1	34.6	60.1	65.9
	C.V.%	2.7	6.3	56.1	7.4	6.3	1.2	14.9
	LSD.10	1.6	2.5	NS	1.2	2.5	0.8	11.4
	LSD.05	1.9	3.0	NS	1.5	3.0	1.0	13.6
	LSD.01	2.5	3.9	NS	1.9	4.0	1.3	17.8
	#REPS	4	4	4	4	4	4	4

## Dickinson 2014 HRSW Variety Trial

Rank	Variety	Days to Head	Seeds per Pound	Plant Height in	Test Weight lbs/bu	Protein %	----- Grain Yield-----			----- Average Yield-----	
							2012	2013	2014	2	3
							-----bu/ac-----			-----bu/ac-----	
1	WB-Digger	65	12,113	34	56.8	10.9	73.7	48.4	96.0	72.2	72.7
2	Velva	66	12,013	34	55.2	12.3	78.3	45.7	96.0	70.8	73.3
3	Faller	67	11,348	36	55.9	11.9	76.5	48.0	95.1	71.6	73.2
4	Jenna	68	11,341	33	56.2	12.2	76.9	49.3	93.3	71.3	73.2
5	WB-Mayville	64	11,541	28	55.5	12.0	71.4	39.1	93.2	66.2	67.9
6	Croplan 3378	65	13,040	31	56.9	11.6	--	--	92.7	--	--
7	Alpine	67	12,202	34	55.9	12.6	71.8	39.6	92.6	66.1	68.0
8	LCS Pro	65	10,695	37	56.6	11.7	--	--	92.2	--	--
9	LCS Powerplay	64	11,826	31	56.5	12.4	75.2	50.0	92.2	71.1	72.5
10	Howard	65	12,040	36	55.4	12.7	73.4	43.4	91.2	67.3	69.3
11	LCS Albany	67	13,700	33	55.9	11.4	72.6	42.4	91.2	66.8	68.7
12	Barlow	64	12,006	36	57.4	12.5	78.6	38.2	91.1	64.6	69.3
13	WB-9879CLP	66	12,834	32	52.2	12.8	--	46.1	90.8	68.5	--
14	Sy Tyra	66	12,856	29	56.2	11.9	70.2	45.0	90.8	67.9	68.7
15	Sy 605 CL	64	12,979	36	55.1	13.2	78.0	35.5	89.8	62.7	67.8
16	WB9507	66	11,072	34	54.1	11.8	--	--	89.0	--	--
17	Elgin-ND	66	12,306	37	55.8	12.7	69.5	48.5	88.9	68.7	69.0
18	LCS Breakaway	64	12,068	31	58.0	12.3	70.1	40.8	88.9	64.8	66.6
19	Prosper	67	11,693	35	56.4	11.5	68.0	46.6	88.7	67.7	67.8
20	Duclair	65	11,799	33	54.6	12.1	--	42.9	88.5	65.7	--
21	Breaker	66	12,022	33	58.8	11.8	68.3	46.1	88.4	67.3	67.6
22	Sy Ingmar	66	13,516	30	56.9	12.7	--	--	88.3	--	--
23	Advance	66	12,442	33	57.6	11.7	71.1	43.1	88.1	65.6	67.4
24	Samson	65	12,805	29	54.0	11.9	71.9	51.5	87.6	69.5	70.3
25	MS Stingray	70	12,280	35	54.4	11.0	--	--	87.4	--	--
26	Norden	66	12,806	32	58.1	12.1	69.9	45.0	87.4	66.2	67.4
27	Linkert	66	11,226	30	57.0	13.7	66.1	41.2	87.2	64.2	64.8
28	Mott	67	12,685	38	57.0	12.5	67.3	46.4	87.0	66.7	66.9
29	Sy Rowyn	64	13,743	32	57.0	12.7	69.9	39.2	87.0	63.1	65.4
30	Sy Soren	66	12,754	30	57.0	12.4	68.0	44.7	86.9	65.8	66.5
31	Focus	68	11,581	34	57.7	13.4	--	--	86.8	--	--
32	Rolag	64	12,046	31	57.5	13.2	68.2	42.1	86.5	64.3	65.6
33	WB-Gunnison	65	11,215	32	57.7	11.4	66.7	40.9	86.4	63.7	64.7
34	Glenn	65	11,992	36	55.2	11.7	77.8	39.9	86.0	62.9	67.9
35	Prevail	65	12,244	34	56.0	12.9	61.6	42.5	85.3	63.9	63.1
36	Brennan	64	12,578	29	55.9	12.5	72.8	40.8	84.9	62.9	66.2
37	Croplan 3361	66	12,583	32	55.9	11.7	--	--	83.9	--	--
38	Vantage	70	13,254	34	56.2	13.1	63.3	39.2	83.1	61.1	61.8
39	Select	62	12,532	38	58.5	12.3	63.6	44.3	82.4	63.3	63.4
40	Kelby	63	12,926	30	56.8	13.8	65.5	37.3	81.3	59.3	61.4
41	LCS Nitro	66	12,388	31	55.6	10.9	--	--	80.9	--	--
<b>42</b>	<b>Forefront</b>	<b>63</b>	<b>11,867</b>	<b>37</b>	<b>57.1</b>	<b>12.7</b>	<b>68.8</b>	<b>44.0</b>	<b>80.0</b>	<b>62.0</b>	<b>64.3</b>
43	Steele-ND	63	11,961	36	58.2	12.7	71.1	40.7	79.9	60.3	63.9
45	ND901CL Plus	66	12,458	38	55.9	13.0	69.8	42.3	79.5	60.9	63.9
46	LCS Iguaçú	67	12,134	32	54.6	10.6	--	45.9	78.2	62.1	--
47	Croplan 3419	70	12,996	34	54.9	11.6	--	--	69.8	--	--
48	RB07	63	12,841	30	50.6	13.1	75.3	39.6	61.1	50.3	58.7
	Trial Mean	65	12,187	34	56.4	12.3	70.6	43.5	86.1	--	--
	CV %	1.2	5.8	4.1	1.9	6.4	--	12.9	5.4	--	--
	LSD 0.10	1	829	2	1.2	1.1	--	6.6	5.5	--	--

Hettinger 2014 HRSW Variety Trial

Rank	Variety	Days to	Plant	Plant	Test	Grain	----- Grain Yield -----			Average Yield	
		Head	Height	Lodge	Weight	Protein	2012	2013	2014	2 yr	3 yr
		*	inches	0-9**	lbs/bu	%	----- Bushels per acre -----				
1	Croplan HRS 3419	75	35	0	60.2	11.8	--	--	97.9	--	--
2	MS-Stingray	75	38	0	58.7	10.5	--	70.9	95.9	83.4	--
3	LCS Albany	73	37	1	59.1	12.2	--	75.7	95.4	85.6	--
4	LNR10125	73	34	2	58.9	11.3	--	--	94.4	--	--
5	Faller	74	38	1	61.1	11.9	68.8	54.4	94.1	74.3	72.4
6	WB-9507	71	37	2	58.7	12.2	--	--	92.8	--	--
7	WB-Digger	73	38	1	59.9	12.7	83.5	75.8	92.5	84.2	83.9
8	MS-Chevelle	71	34	2	60.2	10.7	--	--	91.3	--	--
9	Samson	72	33	0	59.2	11.8	79.2	70.4	90.1	80.3	79.9
10	Croplan 14-98	71	36	0	60.2	13.3	--	--	90.1	--	--
11	Croplan HRS 3378	72	35	0	60.9	12.1	--	--	89.6	--	--
12	Advance	72	36	2	61.5	12.7	84.9	67.8	89.0	78.4	80.6
13	Elgin-ND	72	40	0	60.8	13.4	77.0	66.7	88.5	77.6	77.4
14	LCS Iguacu	73	34	0	59.8	11.1	--	69.1	88.2	78.7	--
15	Croplan HRS 3361	73	36	0	60.1	11.7	--	--	88.2	--	--
16	Prevail	71	39	1	61.0	12.2	84.1	66.4	87.2	76.8	79.2
17	Jenna	74	35	1	60.0	13.0	72.0	67.7	86.5	77.1	75.4
18	LCS Breakaway	71	34	0	62.2	13.5	--	69.6	86.4	78.0	--
19	Prosper	76	39	0	60.7	11.7	76.6	63.0	86.3	74.7	75.3
20	SY Soren	72	33	0	61.3	13.4	82.2	72.2	86.2	79.2	80.2
21	SY Tyra	74	31	0	60.4	11.8	82.5	66.0	85.7	75.9	78.1
22	Velva	73	36	0	59.2	13.0	79.1	68.0	85.7	76.9	77.6
<b>23</b>	<b>Forefront</b>	<b>69</b>	<b>41</b>	<b>2</b>	<b>61.2</b>	<b>13.2</b>	<b>75.7</b>	<b>64.9</b>	<b>85.2</b>	<b>75.1</b>	<b>75.3</b>
24	SY-Rowyn	71	35	2	60.3	12.0	83.7	69.5	85.0	77.3	79.4
25	Breaker	74	36	0	61.5	13.2	76.2	69.0	84.5	76.8	76.6
26	Rollag	72	34	1	61.6	13.7	80.4	63.9	84.2	74.1	76.2
27	RB07	71	35	1	60.1	13.3	79.5	62.7	84.1	73.4	75.4
28	Focus	69	42	1	61.6	12.9	--	--	83.6	--	--
29	Norden	72	34	0	62.3	12.5	76.5	65.8	83.5	74.7	75.3
30	WB-9879CLP+	72	34	1	59.5	12.3	--	--	83.4	--	--
31	SY 605CL	71	38	0	62.0	14.1	80.3	71.8	83.1	77.5	78.4
32	LCS Powerplay	73	35	2	60.8	12.4	--	69.8	82.9	76.4	--
33	Select	68	39	1	62.7	12.7	73.1	66.0	82.6	74.3	73.9
34	SY Ingmar	72	33	0	61.3	13.2	--	--	82.1	--	--
35	Sabin	73	38	3	60.3	13.8	82.7	65.4	81.2	73.3	76.4
36	Steele-ND	73	39	2	61.3	13.6	72.2	67.3	80.9	74.1	73.5
37	Linkert	74	34	0	60.8	14.2	80.4	61.0	80.5	70.8	74.0
38	Brennan	72	34	0	60.0	12.5	79.9	69.8	80.4	75.1	76.7
39	Howard	73	38	1	61.5	12.9	73.0	69.9	80.3	75.1	74.4
40	Barlow	71	39	0	60.9	13.8	71.5	68.2	80.1	74.2	73.3
41	WB-Mayville	71	33	0	59.6	13.2	76.6	62.6	79.7	71.2	73.0
42	Mott	75	39	0	60.8	12.9	73.2	65.0	78.9	72.0	72.4
43	Glenn	72	39	0	62.4	14.5	71.4	60.2	77.1	68.7	69.6
44	Vantage	77	35	0	61.1	14.9	67.6	60.0	75.4	67.7	67.7
45	ND 901 CL Plus	73	40	0	60.0	14.9	69.0	55.7	73.5	64.6	66.1
46	WB-Gunnison	71	35	3	60.0	12.6	70.3	51.8	73.4	62.6	65.2
	Trial Mean	72	37	1	60.7	12.8	42.1	75.9	84.8	--	--
	C.V. %	1.4	3.4	105.4	0.7	3.7	6.6	4.6	5.2	--	--
	LSD 10%	1	1	1	0.5	0.5	3.5	4.1	5.2	--	--

Langdon 2014 HRSW Variety Trial

Rank	Variety	Days to Head	Plant Height	Foliar Necrosis	Test Weight	Protein	Grain Yield			Average Yield	
							2012	2013	2014	2	3
							bu/a				
		in	%	lbs/bu	%						
1	Faller	53.7	35.5	12.9	62.2	12.3	85.1	111.8	95.5	103.6	97.5
2	LCS Albany	55.0	34.8	8.9	61.9	11.7	78.6	105.2	95.2	100.2	93.0
3	MS Stingray	55.7	36.4	3.4	60.1	10.7	--	117.8	93.4	105.6	--
4	Prosper	53.4	35.9	6.1	62.4	12.4	83.7	109.7	92.9	101.3	95.4
5	Velva	55.0	36.1	6.4	61.2	12.5	72.2	99.0	92.6	95.8	87.9
6	Alpine	53.9	35.5	8.1	61.1	12.9	79.1	99.0	91.5	95.2	89.9
7	MS-Chevelle	51.0	32.7	14.3	62.1	12.5	--	--	91.2	--	--
8	LCS Nitro	56.0	34.3	8.3	61.5	11.8	--	--	91.0	--	--
9	LCS Iguacu	54.8	35.3	13.1	62.0	11.6	--	--	90.6	--	--
10	WB Digger	54.5	35.3	13.5	61.9	12.8	79.6	98.5	90.3	94.4	89.5
11	Elgin-ND	52.9	38.5	6.3	62.3	13.7	76.4	99.3	90.1	94.7	88.6
12	RB07	52.0	34.6	12.1	62.1	13.8	73.6	96.4	88.3	92.4	86.1
13	LCS Powerplay	52.6	34.0	10.3	62.4	13.4	75.4	100.7	88.1	94.4	88.1
14	SY Rowyn	53.3	32.6	17.9	62.2	12.9	78.7	94.7	87.0	90.9	86.8
15	Jenna	55.3	34.2	12.3	61.4	12.7	74.2	94.9	87.0	90.9	85.4
16	SY Ingmar	53.5	31.7	9.6	62.9	13.7	--	--	86.8	--	--
17	WB9507	51.8	34.4	13.9	60.4	13.1	--	--	86.8	--	--
18	Samson	53.6	32.1	16.4	60.9	12.5	71.5	91.5	86.3	88.9	83.1
19	Barlow	52.5	37.1	5.8	62.9	13.9	72.0	93.7	85.5	89.6	83.7
20	SY Soren	53.0	31.0	12.8	63.2	13.4	71.2	86.1	85.1	85.6	80.8
21	Rollag	52.8	32.5	13.2	63.0	14.1	70.2	83.0	85.1	84.0	79.4
22	Advance	54.5	34.4	4.6	62.6	12.6	81.0	96.5	84.9	90.7	87.5
23	Prevail	54.0	36.2	15.8	61.9	13.3	74.1	88.5	84.8	86.6	82.5
24	Cardale	52.0	35.8	14.7	61.4	13.8	--	--	83.7	--	--
25	Breaker	54.5	35.4	5.5	62.7	13.0	75.2	98.5	83.1	90.8	85.6
26	Linkert	54.0	29.5	4.4	62.2	13.6	69.9	81.4	81.7	81.5	77.7
27	Vantage	56.0	33.8	8.5	63.5	14.4	66.6	85.9	81.4	83.7	78.0
28	WB Mayville	51.0	32.8	35.1	61.4	13.6	70.2	86.0	81.4	83.7	79.2
29	Norden	51.5	32.7	16.1	63.2	13.2	72.6	89.7	80.5	85.1	80.9
30	Brennan	54.0	31.6	12.6	62.5	13.8	69.6	75.3	80.0	77.7	75.0
31	Brick	49.3	37.0	14.8	62.6	13.4	75.8	81.3	77.8	79.5	78.3
32	Select	51.3	35.9	15.9	62.6	13.7	78.2	84.0	77.3	80.6	79.8
33	LCS Breakaway	52.8	32.6	27.4	62.9	13.7	75.7	88.0	77.1	82.6	80.3
34	Glenn	52.3	37.2	5.8	64.0	14.4	68.3	90.9	75.8	83.3	78.3
<b>35</b>	<b>Forefront</b>	<b>52.0</b>	<b>38.8</b>	<b>6.7</b>	<b>62.1</b>	<b>13.8</b>	<b>77.5</b>	<b>88.7</b>	<b>74.3</b>	<b>81.5</b>	<b>80.2</b>
36	Focus	49.5	35.7	12.0	62.3	13.9	--	--	73.0	--	--
	Trial Mean	53.3	35.1	12.6	62.1	13.3	75.2	94.6	84.4	--	--
	C.V. %	1.8	4.0	57.1	0.7	4.2	3.8	4.3	5.6	--	--
	LSD 10%	1.1	1.6	12.1	0.5	0.7	3.3	4.8	5.5	--	--
	LSD 5%	1.3	1.9	14.5	0.7	0.8	4.0	5.7	6.6	--	--



North Central (Minot) 2014 HRSW Variety Trial

Rank	Variety	Days to Head	Plant Height	Lodging	Test Weight	Protein	Grain Yield				
							2012	2013	2014	2 Year	3 Year
		DAP <sup>1</sup>	inches	0-9 <sup>2</sup>	lbs/bu	%	-----bu/A-----				
1	LCS Albany	57	36	2	62.6	12.1	46.9	62.8	77.1	69.9	62.3
2	Faller	55	39	1	62.7	12.7	47.4	63.4	76.4	69.9	62.4
3	MS Stingray	59	39	1	62.3	10.9	--	61.7	75.1	68.4	--
4	Prosper	54	39	1	63.1	13.1	44.2	66.2	74.7	70.5	61.7
5	SY Rowyn	53	35	0	60.6	12.9	--	47.2	74.6	60.9	--
6	Prevail	51	38	0	61.1	13.8	52.4	47.3	74.1	60.7	57.9
8	Howard	53	41	1	61.8	14.4	51.1	54.0	72.0	63.0	59.1
10	Steele-ND	52	40	1	61.4	14.2	50.0	54.8	69.3	62.1	58.0
12	WB Digger	54	39	1	61.8	13.5	34.5	66.6	68.8	67.7	56.6
16	SY Ingmar	54	35	0	62.4	14.1	--	--	68.1	--	--
18	Jenna	56	35	0	61.9	14.3	36.2	53.0	67.5	60.3	52.2
20	Advance	54	38	1	62.4	12.4	55.5	59.1	67.1	63.1	60.5
21	Duclair	51	37	0	59.0	14.0	39.9	56.1	66.6	61.3	54.2
22	WB Mayville	51	31	0	61.1	14.1	42.8	49.2	66.6	57.9	52.9
23	Velva	54	40	0	59.6	13.8	50.6	54.5	66.2	60.4	57.1
25	WB Sampson	54	32	0	59.4	13.0	40.7	55.3	65.0	60.2	53.7
26	MS Chevelle	51	35	0	59.7	12.7	--	--	65.0	--	--
27	LCS Powerplay	52	36	1	61.4	13.9	52.6	58.3	65.0	61.6	58.6
29	WB Breaker	53	36	0	64.4	13.5	52.1	49.9	64.5	57.2	55.5
32	Rollag	53	35	0	61.5	14.0	51.0	54.1	63.2	58.6	56.1
33	LCS Breakaway	52	34	0	63.7	14.5	51.3	53.0	63.1	58.0	55.8
34	SY Soren	53	34	0	61.7	13.6	36.4	53.1	62.3	57.7	50.6
35	Elgin-ND	54	40	0	60.8	13.9	38.2	58.3	62.3	60.3	52.9
36	Barlow	50	38	0	61.1	14.4	50.8	54.5	62.2	58.3	55.8
38	Linkert	53	32	0	59.7	14.3	--	49.3	61.1	55.2	--
39	RB07	53	37	0	59.9	13.4	46.4	51.4	61.1	56.3	53.0
40	Fryer	52	38	0	60.0	13.8	45.6	51.1	60.9	56.0	52.5
41	Focus	49	40	0	63.1	14.2	--	--	60.7	--	--
42	Mott	54	40	0	61.1	13.6	47.4	56.6	60.6	58.6	54.9
43	SY605CL	51	39	0	59.0	13.3	37.8	55.6	60.4	58.0	51.3
44	WB Gunnison	54	34	0	62.5	13.0	37.6	45.7	60.2	52.9	47.8
45	LCS Iguacu	56	36	0	61.2	12.0	--	55.6	60.0	57.8	--
46	ND901CL Plus	52	40	0	60.4	14.6	43.1	52.8	59.9	56.4	51.9
51	Glenn	51	40	0	61.2	14.6	46.3	48.6	57.5	53.1	50.8
55	SY Tyra	53	32	0	60.6	13.2	47.4	56.9	56.7	56.8	53.7
57	Briggs	51	36	1	60.0	14.4	27.0	53.3	56.4	54.8	45.6
58	WB Vantage	56	35	0	63.3	14.4	44.9	51.5	56.3	53.9	50.9
<b>59</b>	<b>Forefront</b>	<b>50</b>	<b>41</b>	<b>0</b>	<b>60.6</b>	<b>13.5</b>	<b>43.4</b>	<b>48.3</b>	<b>55.8</b>	<b>52.0</b>	<b>49.2</b>
60	Alpine	54	38	0	60.0	12.8	36.4	51.2	55.7	53.5	47.8
61	Kelby	51	36	0	60.4	13.7	48.7	40.3	54.9	47.6	47.9
63	Norden	53	35	0	63.7	13.4	57.8	53.6	54.3	53.9	55.2
64	Brennan	53	33	0	59.7	14.7	48.1	45.4	54.1	49.7	49.2
65	Select	49	39	0	59.9	13.3	58.7	59.9	53.4	56.7	57.3
66	Choteau	53	37	1	57.2	13.6	46.5	44.3	52.6	48.5	47.8
	Mean	53	38	0	61.2	13.5	46.9	54.5	62.9	--	--
	C.V.%	2.3	3.9	179	1.7	6.8	8.2	6.4	11.3	--	--
	LSD 10%	1	2	1	1.2	1.1	4.5	4.1	8.3	--	--