

North Dakota Foundation Seedstocks Project

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February 22, 2011

TO: County Extension Agents, Area Extension Agents, Research Center Directors, County Crop Improvement Association Presidents, NDCISA Directors, NDAA Seed Committee
RE: **New Variety Releases for the Spring of 2011**
FROM: Dale Williams, Foundation Seedstocks

The following new NDAES developed varieties will be available for distribution to the County Seed Increase Program in the spring of 2011 (performance information attached):

[‘Prosper’ Hard Red Spring Wheat - - see attached data – tested as exp. # ND808](#)

[‘Newburg’ white Oat - - see attached data – tested as exp. # ND030365](#)

Note: Prosper is a joint release with Minnesota with traditional County Seed Increase Agreement terms. Newburg oat will be licensed exclusive to the North Dakota Crop Improvement & Seed Association for increase and distribution by Dakota Select Seed (DSS). You have to be a member of DSS to produce seed of Newburg as part of the County Seed Increase program and terms and procedures are slightly different.

Foundation [Celebration and Tradition Barley](#) will also be available to the County Crop Improvement Seed Increase Program in the spring of 2011. **(Reminder: Foundation seed of these maintenance varieties will be available to CCIA increase growers under the modified maintenance Seed Increase Agreement.**

Prices of Foundation Seed and related information: (See attached data)

<u>Variety</u>	<u>Price/bu</u>	<u>Research Fee/Royalty*</u>
Prosper HRSW	\$22.00	\$0.30/bu (Research Fee)
Newburg white Oat	\$14.80	\$.25/bu (Research Fee) <u>Must be a member of Dakota Select Seed</u>
Celebration Barley	\$13.65/\$12.65	\$0.50/bu Royalty
Tradition Barley	\$11.55/\$12.55	\$0.30/bu Royalty

*Royalty/Research Fees are paid on Registered and Certified Seed Sales and collected directly from the seed increase grower.

This information will also be posted on the FSS Web page at: www.ndfss.com

Note: **[DEADLINE for requesting seed is March 4, 2011.](#)**

Allocation Meeting will be scheduled as soon as possible in early March with notices of allocation sent to the counties and posted.

Please e-mail Paulette (paulette.neva@ndsu.edu) or Gonzalo (gonzalo.rojas@ndsu.edu) ASAP but **NO LATER than March 4, 2011 to request an allocation for your county. **Please request the specific number of bushels you would like (mandatory for Tradition and Celebration).** Call if you have questions.**

Cc: Dr. Ken Grafton, Mr. Dale Zetocha, Dr. Rich Horsley, Mr. Steve Sebesta
Dr. Gonzalo Rojas-Cifuentes, Ms Paulette Neva, Dr. Joel Ransom, Dr. Hans Kandel

HRSW ND808 for release

M. Mergoum et al., 2011

Adaptation:

- Adapted to the Eastern ND and Western MN same as Faller
- **Overall, Very high grain yield** (similar to Faller) with improved yield potential under normal weather conditions.
- Semi dwarf-Conventional height; medium early (similar to Steele-ND and Barlow)
- Medium to good straw strength similar or slightly better than Faller

Quality:

- Protein: Average similar or slightly better than Faller
- Milling: Excellent with very high flour extraction
- Baking: Good baking properties similar to Faller
- Test weight: Average similar to Faller

Diseases resistance:

- Overall good leaf diseases package better than Faller: Resistant/Medium resistant to leaf and stem rusts; resistant to septoria and medium resistant to bacterial leaf streak.
- Medium resistant to scab similar to Alsen and Faller

ND808 is intended to provide growers in Eastern ND and Western MN in the future a good alternative (such as Faller) to high yielding cultivars with relatively low quality.

Table 1

Performance of HRSW ND808 and checks Statewide during the 2006-08 period (up 80 Sites)

Variety	DH	HT	18 0-9	4 %	9 %	38 grams	80 lbs/bu	80 bu/ac	78 %	1 seeds/ft ²
	Lodge	HT	Tbstone	Leaf Dis	KWT	TW	Yield	Protein	Shatter	
Alsen	1.1	31.1	8.0	19.1	28.5	59.9	49.8	15.4	40	
Briggs	1.9	31.5	8.5	23.6	29.7	59.8	53.5	15.2	0	
Dapps	1.7	35.4	16.7	20.9	28.8	58.3	50.8	16.3	14	
Faller	1.1	30.8	8.4	9.1	30.0	58.4	56.3	14.7	0	
Fryer	1.3	31.5	7.5	13.8	28.3	59.3	52.5	14.8	58	
Glenn	1.2	33.1	7.5	21.0	28.9	61.9	52.1	15.4	2	
Granger	1.7	33.3	16.7	18.5	33.2	59.6	52.9	14.9	96	
Granite	0.3	29.9	3.3	16.7	26.5	60.6	52.1	16.2	26	
Howard	1.3	32.1	9.5	15.9	28.9	59.8	54.4	14.9	0	
Kelby	1.2	27.8	7.7	27.1	28.2	60.1	52.2	15.4	6	
Knudson	1.0	29.5	8.5	11.2	30.4	59.7	54.1	14.8	14	
ND808	1.2	32.4	0.2	22.6	29.9	58.6	59.9	14.8	4	
Barlow	1.5	32.7	16.2	24.2	28.6	60.2	54.3	15.2	8	
Parshall	0.9	35.3	2.5	24.5	27.6	59.8	53.0	15.2	2	
Reeder	1.2	31.6	4.8	25.0	28.6	59.0	53.0	15.0	2	
Rush	0.4	30.6	0.5	33.3	28.4	60.9	52.3	15.6	52	
Steele-NI	1.6	32.2	9.4	18.0	29.0	59.7	53.7	15.2	8	
Traverse	1.3	33.2	7.8	26.2	28.1	57.5	57.7	14.3	102	

Table 2

Performance of HRSW ND808 and checks during the 2006-08 period across the Eastern region of ND (up 30 Sites)
 Sites reported: >

Variety	DH	HT	inches	0-9	Lodge	Tbstone	%	Leaf Dis	%	KWT	grams	TW	lbs/bu	Yield	bu/ac	Protein	%	seeds/ft ²	Shatter
Alsen	57	33.5	1.5	8.0	24.7	31.6	60.9	61.2	15.0	40									
Briggs	56	33.2	2.3	8.5	31.3	34.4	60.7	65.6	14.9	0									
Dapps	58	37.5	1.8	16.7	28.9	33.3	59.9	61.3	15.9	14									
Faller	59	33.4	1.5	8.4	12.1	34.7	60.4	74.1	14.2	0									
Flyer	58	33.6	1.7	7.5	19.2	31.0	60.0	64.2	14.5	58									
Glenn	56	35.5	1.1	7.5	24.9	32.3	63.0	64.7	15.2	2									
Granger	58	35.9	2.1	16.7	25.2	37.8	60.7	65.2	14.5	96									
Granite	62	32.3	0.2	3.3	25.0	30.0	61.7	64.9	15.5	26									
Howard	58	34.7	1.7	9.5	17.3	32.6	61.4	68.7	14.6	0									
Kelby	56	29.4	1.3	7.7	34.1	32.1	60.7	63.7	15.0	6									
Knudson	59	31.9	1.4	8.5	14.3	32.8	60.4	67.4	14.2	14									
ND808	60	34.7	1.6	0.2	22.6	34.2	60.5	76.3	14.3	4									
Barlow	57	34.6	1.8	16.2	24.2	32.2	61.3	66.9	14.9	8									
Parshall	59	38.1	0.8	2.5	34.3	31.4	61.2	64.8	14.7	2									
Reeder	59	35.0	1.5	4.8	35.9	31.3	59.8	64.5	14.5	2									
Rush	57	32.7	0.5	0.5	34.9	31.6	61.3	65.8	15.0	52									
Steele-ND	58	34.6	2.0	9.4	23.0	32.5	61.1	66.6	14.9	8									
Traverse	56	35.1	1.7	7.8	27.7	32.3	58.8	71.8	13.9	102									
Trooper	57	29.8	0.8	2.0	33.6	34.7	61.3	67.6	13.9	0									

Table 3

Performance of HRSW ND808 and checks Statewide during the 2009-10 period (> 30 Sites)

Sites reported: >		33	38	10	1	8	20	38	38	38	38
Variety	Occur	DH	HT	Lodge	Tbstone	Leaf Dis	KWT	TW	Yield	Protein	
Alsen	25	59.4	32.0	0.9	0.5	7.9	33.4	60.9	61.5	15.0	
Barlow	38	58.1	34.0	1.5	1.3	5.7	34.0	61.4	67.7	14.4	
Dapps	13	57.8	36.5	1.8	0.3	7.8	34.1	60.1	63.2	15.6	
Faller	38	61.0	33.3	1.9	0.0	8.9	35.8	59.8	71.7	13.7	
Glenn	38	57.7	34.8	1.4	0.0	11.7	33.6	63.0	63.3	14.7	
Howard	38	59.5	33.7	2.3	0.8	8.5	34.3	61.1	67.4	14.2	
ND 808	38	61.3	33.1	1.9	0.3	5.1	36.3	60.0	71.1	13.8	
Parshall	12	58.2	35.9	2.5		5.7	31.7	61.7	60.0	14.9	
Reeder	26	61.1	32.0	0.4	1.8	7.1	33.7	60.7	62.8	14.5	
Steele-ND	38	59.1	33.8	2.3	1.3	11.2	34.6	61.2	65.1	14.5	

Table 4

Performance of HRSW ND808 and checks in Eastern ND during the 2009-10 period (> 13 Sites)

Sites reported: >		13	13	4	1	5	13	13	13	13
Variety	Occur	DH	HT	Lodge	Tbstone	Leaf Dis	TW	Yield	Protein	
Barlow	13	56.3	36.7	1.6	1.3	6.6	60.6	76.0	14.2	
Dapps	6	55.8	39.7	1.1	0.3	11.6	59.1	68.9	15.2	
Faller	13	58.8	36.7	2.7	0.0	11.6	59.4	83.2	13.4	
Glenn	13	55.6	38.0	1.7	0.0	16.3	62.4	70.4	14.3	
Howard	13	57.7	37.1	3.3	0.8	9.9	60.2	77.0	13.9	
Mott	6	58.5	37.6	0.3	0.8	8.2	60.0	71.5	14.1	
ND 808	13	59.4	36.2	2.8	0.3	5.7	59.5	82.9	13.5	
Parshall	5	53.9	39.0			5.0	61.0	68.9	14.2	
Reeder	6	56.1	35.0	0.8	1.8	11.8	59.1	71.7	14.4	
Steele-ND	13	57.2	36.9	2.7	1.3	14.4	60.2	73.4	14.2	

Table 5

Performance of HRSW ND808 and checks Statewide during the 2006-10 period (>98 Sites)

Variety	DH	HT	Lodge	Tbstone	Leaf Dis	KWT	TW	Yield	Protein	Shatter
Alsen	59.8	31.9	1.3	0.3	8.4	30.5	60.2	56.5	15.2	40.0
Barlow	58.4	33.6	1.5	1.8	6.1	31.6	60.8	63.0	14.8	8.0
Dapps	58.2	35.8	1.9	1.2	7.7	29.7	58.9	57.3	16.1	14.0
Faller	61.3	32.5	1.6	0.1	8.0	32.9	58.9	65.6	14.1	0.0
Glenn	57.9	34.3	1.3	0.1	10.5	31.5	62.3	59.6	15.0	2.0
Howard	59.7	33.3	2.0	1.4	8.3	31.7	60.4	62.7	14.5	0.0
ND 808	61.6	32.7	1.6	0.2	5.3	33.5	59.2	65.7	14.2	4.0
Parshall	59.4	35.3	1.1	1.5	8.4	27.3	60.2	54.1	15.2	2.0
Reeder	60.9	32.0	0.8	2.5	8.4	30.9	59.6	57.6	14.9	2.0
Steele-ND	59.5	33.5	2.2	1.5	10.0	32.2	60.4	61.2	14.8	8.0

Table 6

Performance of HRSW ND808 and checks in Eastern ND during the 2006-10 period (>38 Sites)

Sites reported: >		22	22	7	3	6	22	22	22	20	1
Variety	Occur	DH	HT	Lodge	Tbstone	Leaf Dis	TW	Yield	Protein	Shatter	
Alsen	15	57.2	34.1	0.9	0.3	9.0	60.4	64.3	14.7	40.0	
Barlow	22	56.3	35.9	1.7	1.8	5.7	60.9	73.5	14.4	8.0	
Dapps	15	56.9	38.2	1.9	1.2	8.2	59.5	66.5	15.5	14.0	
Faller	22	59.0	35.2	2.5	0.1	9.8	59.7	79.0	13.6	0.0	
Glenn	22	55.7	37.0	1.3	0.1	13.9	62.6	68.9	14.5	2.0	
Howard	22	57.8	36.1	2.8	1.4	8.5	60.8	74.8	14.0	0.0	
ND 808	22	59.6	35.2	2.3	0.2	5.0	59.9	80.2	13.7	4.0	
Parshall	14	56.4	38.1	0.6	1.5	5.5	61.2	66.1	14.4	2.0	
Reeder	15	57.4	34.5	1.2	2.5	9.5	59.6	66.7	14.4	2.0	
Steele-ND	22	57.5	36.1	2.4	1.5	12.2	60.6	71.5	14.4	8.0	

Table: 8

Performance of ND808 HRSW in Spring Wheat Uniform Regional Nursery
2-Year Means Summary, 2009-2010 (28 location-year).

Line	Yield Bu/Ac	Test Wt. Lb/Bu	Heading d from 6-1	Height cm	Lodging 0-9	Protein %
ND808	71.0	59.9	30.5	86.8	1.0	14.2
Verde	63.8	59.4	28.8	82.6	0.7	14.0
2375	62.2	60.0	26.9	85.3	2.2	14.0
Rollag (MN05214-3)	61.5	61.0	27.2	78.8	0.8	14.8
Keene	59.3	60.3	27.5	98.3	2.1	14.3
Chris	46.2	58.5	29.5	102.2	5.1	15.0
Marquis	45.4	58.9	30.3	104.5	3.9	14.4
Mean	62.3	59.7	27.5	87.3	1.5	14.5

Table 15a

Quality traits of ND808 and common hard red spring wheat varieties grown in ND in 2005-2010 (35 locations).

Variety	Ck	Vt	Fall	Wheat Flour		Wet Flour		Flour Peak		Mix		Farino Bake		Mix Dough		Loaf		CrumbCrust		
				no	%	prot	%	Ext	Gluten	ash	time	min	tol	BU	class	abs	time	hand	vol	GT
	lb/bu	%	sec	%	prot	%	%	%	min	min	min	1-8	%	min	1-10	cc	1-10	1-10	1-10	1-10
ND808	59.2	71	414	14.2	13.3	70.9	35.4	0.53	8.3	14.5	30	5.3	64.4	3.02	10	1000	8.6	9.1	9.9	9.0
Alsén	x	60.1	81	15.2	14.3	68.8	37.2	0.55	10.1	17.0	27	6.0	65.3	3.21	10	1018	8.3	8.2	10.0	9.0
Faller	x	58.7	69	14.1	13.3	71.2	35.1	0.53	9.3	15.7	29	5.6	63.9	3.21	10	1014	8.6	9.3	10.0	8.9
Glenn	x	62.5	88	15.2	14.3	68.0	36.9	0.51	10.0	20.4	25	6.5	65.3	3.54	10	1056	8.3	8.7	9.9	8.9
Howard	x	60.0	75	14.8	14.0	69.6	37.7	0.51	8.2	15.0	31	5.5	66.1	3.17	10	1006	8.5	8.3	10.0	9.4
Reeder	x	59.4	77	14.9	13.9	68.4	38.7	0.50	6.9	12.1	32	5.2	64.3	2.62	10	979	8.4	7.8	10.0	9.3
Steele-ND	x	59.9	73	15.1	14.2	69.2	38.4	0.51	8.1	14.1	32	5.4	66.4	3.18	10	1015	8.5	8.2	10.0	9.3
Avg of Checks		60.1	77	14.9	14.0	69.2	37.3	0.52	8.8	15.7	29	5.7	65.2	3.16	10	1015	8.4	8.4	10.0	9.1

Number of locations/years = 35

Quality traits of ND808 and common hard red spring wheat varieties grown in ND in 2005-2008 (28 locations)

Variety	Ck	Vt	Fall	Wheat Flour		Wet Flour		Flour Peak		Mix		Farino Bake		Mix Dough		Loaf		CrumbCrust		
				no	%	prot	%	Ext	Gluten	ash	time	min	tol	BU	class	abs	time	hand	vol	GT
	lb/bu	%	sec	%	prot	%	%	%	min	min	min	1-8	%	min	1-10	cc	1-10	1-10	1-10	1-10
ND808	58.6	73	426	14.5	13.6	71.0	35.6	0.53	8.0	16.7	26	5.7	64.2	3.11	10	1017	8.6	8.9	9.9	9.2
Alsén	x	59.6	81	15.5	14.4	68.7	37.5	0.54	10.4	18.8	23	6.5	64.9	3.25	10	1019	8.3	8.3	10.0	9.3
Faller	x	58.1	70	14.4	13.6	71.3	35.2	0.53	9.5	18.2	26	6.1	63.8	3.30	10	1026	8.6	9.2	9.9	9.2
Glenn	x	62.2	85	15.4	14.4	68.0	37.1	0.51	9.9	23.1	20	7.0	65.1	3.52	10	1062	8.4	8.7	10.0	9.3
Howard	x	59.4	75	15.1	14.2	70.0	38.0	0.51	7.6	16.2	28	5.9	66.3	3.21	10	1008	8.6	8.2	10.0	9.5
Reeder	x	58.7	78	15.1	14.0	68.4	38.7	0.50	7.3	13.9	29	5.6	64.1	2.63	10	990	8.4	7.8	10.0	9.5
Steele-ND	x	59.4	74	15.3	14.4	69.3	38.7	0.51	7.5	15.0	28	5.8	66.4	3.24	10	1010	8.5	8.3	9.9	9.3
Avg of Checks		59.6	77	15.1	14.2	69.3	37.5	0.52	8.7	17.5	26	6.1	65.1	3.19	10	1019	8.5	8.4	10.0	9.3

Number of locations/years = 28

Table 16a

Quality traits of ND808 and common hard red spring wheat varieties grown in Eastern ND in 2005-2010 (18 locations).

Variety	Ck	Vit	Fall	Wheat		Flour		Wet		Flour		Peak		Mix		Farino		Bake		Mix		Dough		Loaf		Crumb		
				weight	kern	no	prot	prot	Ext	Gluten	ash	time	min	tol	BU	class	abs	time	min	hand	vol	GT	color	color	Sym			
	lb/bu	%	sec	%	%	%	%	%	%	min	min	min	min	min	min	min	min	min	min	min	min	min	min	min	min	min	min	min
ND808	59.9	59	413	13.3	12.3	71.2	32.5	0.56	5.3	10.0	36	4.4	64.1	2.93	10	952	8.5	9.1	9.9	8.8								
Alsien	x	60.4	73	407	14.4	13.5	69.3	34.6	0.57	7.5	13.0	32	5.6	64.9	3.18	10	993	8.3	8.1	9.9	8.9							
Faller	x	59.6	55	412	13.2	12.4	71.7	32.3	0.54	6.2	11.4	36	4.8	63.6	3.26	10	958	8.6	9.2	9.9	8.6							
Glenn	x	63.0	82	400	14.6	13.6	67.9	34.9	0.53	7.8	16.8	29	5.9	65.6	3.71	10	1023	8.3	8.7	10.0	9.0							
Howard	x	60.9	58	410	14.0	13.1	70.1	35.3	0.53	6.4	11.1	37	4.9	65.6	3.22	10	966	8.3	8.3	10.0	9.2							
Reeder	x	59.5	69	418	14.0	12.9	68.9	35.1	0.51	5.8	9.2	40	4.4	63.4	2.69	9	961	8.4	7.8	9.9	9.3							
Steele-ND	x	60.6	56	426	14.3	13.3	69.5	35.9	0.52	5.9	10.0	36	4.7	66.0	3.13	10	994	8.3	8.0	10.0	9.2							
Avg of Checks		60.7	65	412	14.1	13.1	69.6	34.7	0.53	6.6	11.9	35	5.1	64.8	3.20	10	983	8.4	8.4	10.0	9.0							

Number of locations/years = 18

166

Quality traits of ND808 and common hard red spring wheat varieties grown in Eastern ND in 2005-2008 (12 locations).

Variety	Ck	Vit	Fall	Wheat		Flour		Wet		Flour		Peak		Mix		Farino		Bake		Mix		Dough		Loaf		Crumb	
				weight	kern	no	prot	prot	Ext	Gluten	ash	time	min	tol	BU	class	abs	time	min	hand	vol	GT	color	color	Sym		
	lb/bu	%	sec	%	%	%	%	%	min	min	min	min	min	min	min	min	min	min	min	min	min	min	min	min	min	min	min
ND808	59.7	56	427	13.4	12.5	71.4	32.4	0.55	5.3	11.1	33	4.8	64.0	3.06	10	963	8.5	9.0	10.0	9.0							
Alsien	x	60.5	68	424	14.5	13.4	69.4	34.6	0.55	8.0	14.6	28	6.1	64.7	3.17	10	978	8.3	8.3	9.9	9.3						
Faller	x	59.6	48	421	13.3	12.4	71.9	31.8	0.54	6.5	12.8	33	5.3	63.4	3.33	10	954	8.6	9.2	9.9	8.8						
Glenn	x	63.0	75	409	14.6	13.6	67.9	34.5	0.52	7.8	19.3	25	6.4	65.4	3.69	10	1018	8.4	8.7	10.0	9.3						
Howard	x	60.9	56	420	14.1	13.1	70.8	35.3	0.52	6.6	12.2	34	5.2	65.8	3.25	9	955	8.5	8.4	10.0	9.3						
Reeder	x	59.2	63	430	14.0	12.9	69.2	34.6	0.51	6.1	10.1	38	4.6	63.3	2.67	9	955	8.4	7.8	10.0	9.4						
Steele-ND	x	60.8	51	439	14.4	13.3	69.9	35.6	0.51	6.0	10.5	34	4.8	66.1	3.19	10	967	8.2	8.1	10.0	9.2						
Avg of Checks		60.7	60	424	14.1	13.1	69.9	34.4	0.52	6.8	13.2	32	5.4	64.8	3.22	10	971	8.4	8.4	10.0	9.2						

Number of locations/years = 12

ND030365 (Newburg)

ND030365 was developed from the cross HiFi/ND990232 made in 2000. ND990232 contributed resistance to stem rust race NA67 as well as crown rust resistance similar to HiFi. ND030365 has been evaluated in North Dakota Oat Variety Trials (NDOVT) and the Uniform Midseason Oat Performance Nursery (UMOPN) since 2007. It has been the highest yielding entry in the UMOPN each of the four years it has been entered. The grain yield performance in the NDOVT has been excellent.

ND030365 has not produced as consistently high of test weight as 'Rockford' in NDOVT and it does not exhibit as much lodging resistance as Rockford. ND030365 heads approximately one day earlier than Rockford and is similar to slightly taller than Rockford. ND030365 produces a similar proportion of kernels that pass through a 5/64" sieve relative to Souris, but produces grain with a greater kernel weight. Whole oat grain protein concentration (15.4%) of ND030365 is similar to other high yielding commercial oat cultivars and is generally higher than most Canadian cultivars. The groat percentage of ND030365 is similar to Rockford.

ND030365 exhibits good resistance to the prevalent races of crown rust and stem rust and would be the only commercial oat cultivar with resistance to prevalent races of crown rust and resistance to stem rust race NA67. Protection from NA67 is needed to correct a major vulnerability of the oat crop. ND030365 appears to have moderate tolerance to barley yellow dwarf virus, but is susceptible to loose smut.

2007-2010 ND Oat Variety Trial Data Summary†

Genotype	Grain Yield bu/a	Test Weight lb/bu	Lodge Score 0-9	Head > 31-May days	Plant Height cm	Kernels <5/64" propor.	Protein %	Groat %	Kernel Weight mg
ND030365	155	36.9	4.0	28.4	114	0.102	15.4	73.3	33.7
Beach	143	38.9	2.4	28.9	111	0.071	16.3	74.5	32.6
CDC Dancer	141	37.5	1.9	30.6	107	0.052	14.7	77.7	33.1
HiFi	146	37.0	3.0	29.7	109	0.088	16.1	72.9	32.3
Hystest	119	39.4	4.0	26.4	110	0.049	19.7	75.8	33.9
Jerry	130	38.8	3.7	26.7	107	0.082	17.1	72.6	31.7
Killdeer	147	36.8	3.5	28.0	97	0.054	14.8	73.4	31.8
Leggett			2.9	30.0	101	0.054	16.5	73.7	34.6
Minstrel			2.0	29.4	103	0.031	14.0	76.0	34.0
Morton	135	37.5	1.6	29.1	114	0.070	16.9	71.6	31.8
Otana	134	36.4	5.1	30.1	113	0.119	16.0	69.4	28.2
AC Pinnacle	154	35.8	3.4	31.2	106	0.041	14.4	73.8	32.3
Rockford	148	38.5	2.3	29.9	108	0.078	17.1	73.8	30.3
Souris	147	37.3	2.0	28.6	100	0.103	15.9	74.3	31.9
			7	7	7	9	9	9	9
	36 loc. 07-11	36 loc. 07-11	location 2010	location 2010	location 2010	location 2010	location 2010	location 2010	location 2010

†Additional date is available upon request