

Department of Crop Science

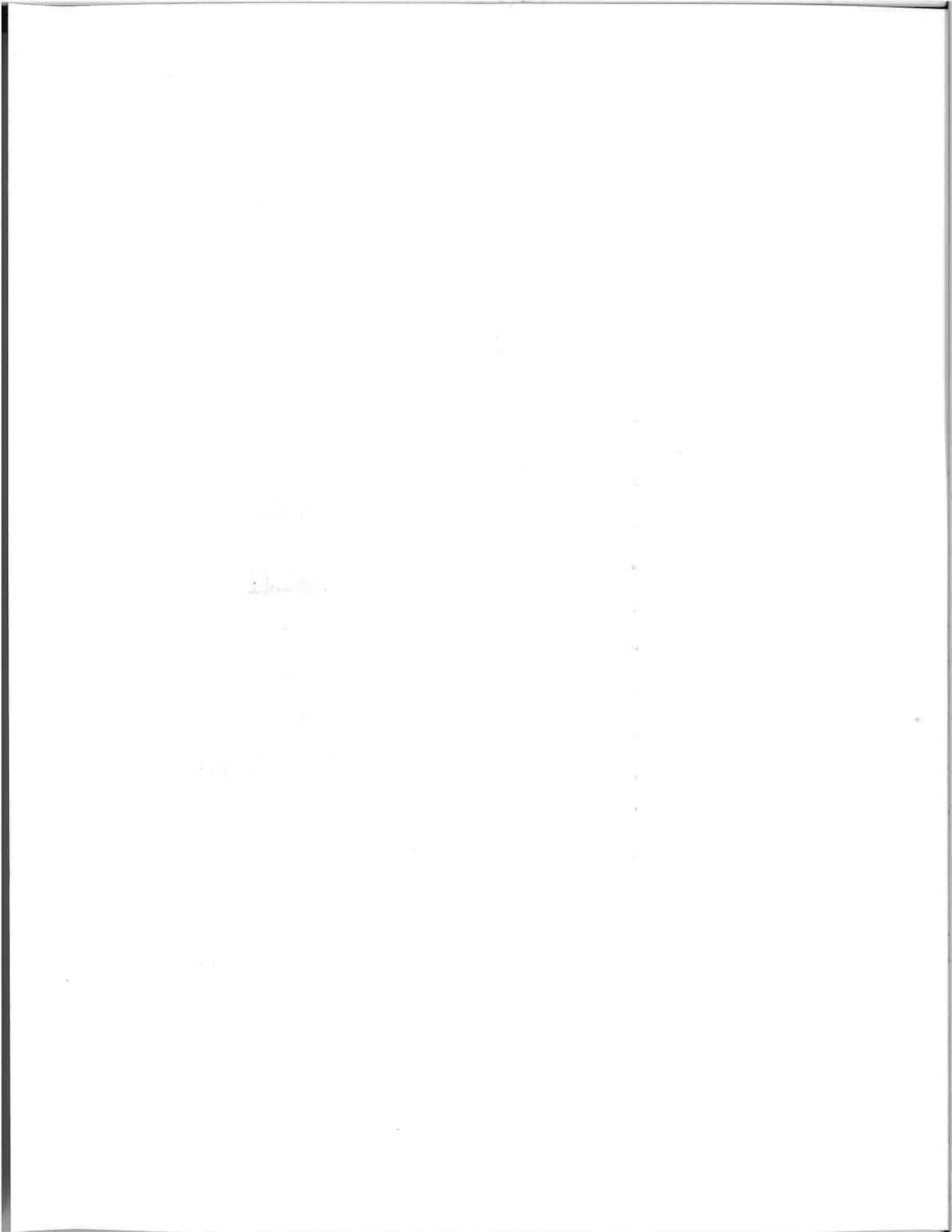
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## 1993 PROGRESS REPORT

# ONTARIO REGIONAL TESTS



**OATS  
BARLEY  
SPRING WHEAT  
WINTER WHEAT  
WINTER BARLEY**



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Prepared by the Ontario Cereal Crops Committee from tests conducted by representatives of the following organizations:

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The Regional Trials reported in this book are coordinated by Dr. L.A. Hunt and Dr. D.E. Falk, Crop Science Department, OAC, University of Guelph under the mandate of the OMAF Cereals Project (Program 20). Glen Meatherall, and Zorka Szlavnic conduct the data analysis, prepare and distribute the Progress Reports which are the basis for recommendations in OMAF Publication 296.

## INTRODUCTION

In 1993, Regional Tests of spring barley, oats, wheat, winter wheat and winter barley were conducted in cooperation with the members of the Ontario Soil and Crop Improvement Association, commercial plant breeders, CAT Colleges and Agriculture Canada. Certified seed for registered cultivars was generously provided by W.G. Thompson and Sons Ltd., U.C.O., First Line Seeds and Alex Connell.

### SPRING CEREALS

Reliable test data were obtained from 12 machine planted and harvested locations for spring barley, and 11 for oats across the province in 1993. This year the 3rd year entries in the Registration trials were also included in the Regional Tests so that two years of data would be available by the time cultivars would be commercially available in Ontario. The yields in 1993 were lower than the 1992 yields with barley averaging 5.17 t/ha and oats averaging 4.55 t/ha across the test locations. Area V had the highest average yields for barley and for oats. Area I had the lowest barley and oat yields.

**Spring Barley.** Across the province, the highest yielding two-rowed barley cultivar was Lester at 4.57 t/ha. This was followed by AC Sterling (4.46 t/ha), Symko (4.38 t/ha) and Morrison (4.39 t/ha). In the major barley growing region, Lester (4.41 t/ha) was highest yielding in Area II and AC Sterling (5.06 t/ha) in Area IV. The highest yielding six-rowed barley across the province was Chapais (4.82 t/ha) followed by AC Nadia (4.71 t/ha) and AC Stephen (4.69 t/ha). AC Stephen was highest yielding in Area II (4.95 t/ha) and in Area IV Chapais yielded the highest (5.89 t/ha). The overall yields were highest in Area V (5.18 t/ha) with Codac and AC Nadia both yielding 5.72 t/ha. In the two year average (1992-93), Chapais (5.37 t/ha) was highest overall, followed by AC Stephen (5.16 t/ha), and AC Nadia (5.03 t/ha); the highest two-rowed barley was Lester (4.96 t/ha). Some scald was also noted, particularly on two-rowed cultivars, there was more mildew than usual with the six-rowed cultivars generally being more susceptible. The resistance in OAC Kippen, and other lines with the Mlg gene, appears to be breaking down. There was very little BYDV in 1993 and diseases overall did not cause too much yield loss.

**Oats.** Reliable data were obtained from 11 sites in 1993. Hulless oats are reported separately from covered oats in the Tables with the overall average for hulless oats being 2.84 t/ha and covered oats being 4.55 t/ha. The highest yielding hulless oat was AC Lotta and AC Hill at 3.22 t/ha and the highest yielding covered oat was AC Rigodon (4.84 t/ha). In the major oat growing region, the highest yielding oats in Area II were AC Stewart (4.01 t/ha), Robert (3.72 t/ha) and hulless AC Lotta (2.48). In Area IV, AC Hunter (5.47 t/ha) and AC Rigodon (5.19 t/ha) and hulless AC Hill (2.99) were highest yielding. In the two-year average (1992-93), AC Rigodon (4.98 t/ha) and hulless AC Lotta (3.25 t/ha) were highest yielding.

**Common Spring Wheat.** Yield data were obtained from 5 locations in 1993, 3 from Area II, 1 from Area III and V respectively. The overall average yield was 3.47 for the province. Grandin, a hard red spring wheat developed at North Dakota State University ranked first with a yield of 3.95 t/ha with Roblin a close second at 3.86 t/ha. Grandin also had the highest test weight and kernel weight as well as the lowest score for mildew among the registered varieties. Norseman had the lowest leaf rust and septoria scores.

**Spring Durum Wheat.** Medora, the only registered durum wheat grown in the Recommendation Trial, had an average yield of 398, higher than all other wheats grown in the test. Medora also had the highest thousand kernel weight.

**Fall Pastry Wheat.** There were a total of 8 sites reporting yield in 1993, 1 from Area I, 5 from Area II, and 2 from Area III. The average yield of the Recommendation Trial was 4.30 t/ha. Casey had the highest yield in Area I, Harus in Area 2 and Zavitz in Area III and in the overall Provincial average. Harus had the highest test weight. Zavitz had the highest thousand kernel weight as well as the lowest leaf rust scores. Annette had the best resistance to mildew, Karena and AC Ron had the lowest septoria scores, Ena had the lowest head blight scores and Casey had the best ratings for BYDV.

**Fall Pastry Wheat.** There were a total of 8 sites reporting yield in 1993, 1 from Area I, 5 from Area II, and 2 from Area III. The average yield of the Recommendation Trial was 4.30 t/ha. Casey had the highest yield in Area I, Harus in Area 2, and Zavitz in Area III and in the overall Provincial average. Harus had the highest test weight. Zavitz had the highest thousand kernel weight as well as the lowest leaf rust scores. Annette had the best resistance to mildew, Karena and AC Ron had the lowest septoria scores, Ena had the lowest head blight scores and Casey had the best ratings for BYDV.

**Fall Red Wheat.** Yield data were obtained from the same sites as the pastry wheat test. Fundulea had the highest yield in all test areas as well as the lowest scores for BYDV. Lucas had the highest test weight and thousand kernel weight and the lowest incidence of mildew. Ruby had the best score for leaf rust and Karat topped the 1993 test for head blight resistance.

## GROWING CONDITIONS

The autumn of 1992 was wet in most districts resulting in a lower winter cereal acreage being sown. However, the winter conditions were favourable, resulting in good winter survival of crops in all locations.

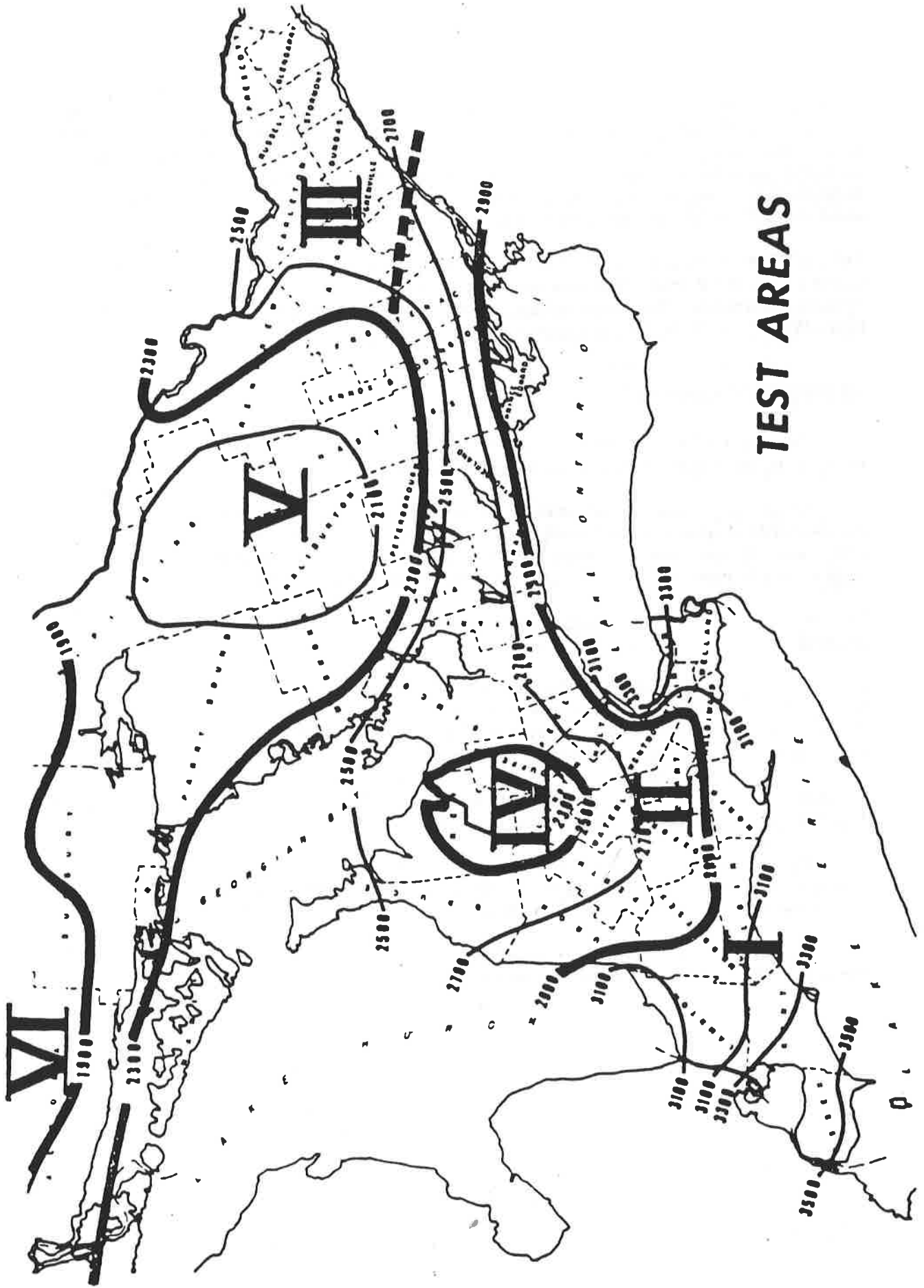
Spring sowing conditions were generally wet for most spring cereals. After a fairly cool spring, the remainder of the growing season had slightly below average temperatures and a higher amount of precipitation than normal. July was hot and humid with frequent thunderstorms. Yields tended to be slightly below average, while the overall quality was good. Harvest dates were generally 3-7 days later in most of the province.

The testing areas for the Regional Testing program in Ontario are outlined by using the enclosed heat unit map as a guide.

- Test Area I - Southwest of the 2900 heat unit lines
- Test Area II - West of Frontenac, between the 2900 and 2300 heat unit lines.
- Test Area III - East of Frontenac, between the 2900 and 2300 heat unit lines.
- Test Area IV - The Dundalk plain (Grey, Dufferin and Wellington) within the 2500 heat unit lines.
- Test Area V - Northern Ontario between the 2300 and 1900 heat unit lines.
- Test Area VI - Northern Ontario - north of the 1900 heat unit lines

The results of the 1993 tests and the average performance of cultivars over the past several years are published in this report. The long term averages of Regional Tests are combined with other tests to form the basis of variety recommendations for different areas of Ontario.

For specific recommendations in your area, consult the Ontario Ministry of Agriculture and Food Publication 296 - "1994 Field Crop Recommendations for Ontario".



# TEST AREAS

## DESCRIPTION OF CULTIVARS IN REGIONAL TESTS, 1993

### BARLEY

- AC Sirius (QB 243.13) - a two-rowed, rough awned barley developed by Agriculture Canada at Ste-Foy from a cross AB53-4/Rodeo//OB440/Rodeo. Registered in 1993.
- AC Sterling (AB 128-5) - a two-rowed, rough awned barley developed by Agriculture Canada, Charlottetown from the cross Micmac/K75-10/2/Rodeo. Registered in 1993.
- Albany - two-rowed, rough awned, barley developed by Agriculture Canada, Charlottetown, P.E.I. from the cross of Summit/I.B.6-3 (rh). Large kernels with a midseason maturity. Resistant to mildew. Registered in 1987.
- Frin (MB-88-3) - a two-rowed, rough awned barley introduced by C & M Seeds. Pedigree not revealed. Registered in 1992.
- Lester (TBR 579-5) - a two-rowed, rough awned barley developed by W.G. Thompson from the cross UPBS60/UPBS66//Rodeo. Registered in 1990.
- Morrison - two-rowed, rough awned, barley developed by Agriculture Canada, Ottawa from the cross Rodeo/Gitane. Registered in 1989.
- Symko - two-rowed, rough awned, barley developed by Agriculture Canada, Ottawa from the cross Rodeo/Gitane. Registered in 1989.
- Wellington (MB 89-4) - a two-rowed, rough awned barley tested by C & M Seeds from the breeding line FR4064-85. Registered in 1993.
- C8830 - a two-rowed, rough awned barley sponsored by Coop Federee from the cross Hockey//Havila/Apex. Not registered for sale in Canada.
- C8832 - a two-rowed, rough-awned barley sponsored by Coop Federee from the cross Hockey//Havila/Apex. Not registered for sale in Canada.
- AC Burman (OB907-33) - a six-rowed, smooth awned barley developed by Agriculture Canada, Ottawa, from a cross of Leger/Bruce//2\* Leger. AC Burman is being marketed by C & M Seeds. Registered in 1991.
- AC Nadia (QB 232.7) - a six-rowed smooth awned barley developed by Agriculture Canada, Ste-Foy and marketed by Semican Atlantic, from the cross Leger/QB173.26. Registered in 1993.
- AC Stephen - a six-rowed smooth awned barley developed by Agriculture Canada, Ottawa from the cross (OB956-13) OAC Kippen/Leger. Registered in 1992.
- Bella (OS85-08.92) - a six-rowed, rough awned barley developed by Semico from a cross of Loyala/Trent. Registered in 1992.
- Chapais - six-rowed, rough awned, barley developed by Agriculture Canada, Ste. Foy from the cross QB58.14/Beacon//BT904. Registered in 1988.
- Codac - a six-rowed, rough awned barley introduced by OAC from the Western Six-Row



- (BT490) Registration test. The line was developed by the Crop Development Center, Saskatoon, from the cross Diamond/Duke. Registered in 1993.
- Etienne - six-rowed, smooth awned, barley developed by W.G. Thompson from the cross of Perth/R10-501. Registered in 1988.
- Leger - six-rowed, smooth awned, barley developed by the Agriculture Canada, Ottawa from the cross Trent/Vanier. It has high yield, long but strong straw. Susceptible to new races of mildew. Registered in 1982.
- OAC Kippen - six-rowed, semi-rough awned, barley developed by OAC, University of Guelph from a cross of OB141-1/Perth. High yielding, good hectolitre weight, similar to Leger in height, lodging resistance and maturity. Resistant to new races of smut, susceptible to old races of smut. Tolerance to most foliar diseases. Registered in 1987.
- Sabina - six-rowed, rough awned, barley developed by King Agro from the cross QB167.21/OB193.11. Registered in 1989.
- TB 891-6 - a six-rowed barley developed by W.G. Thompson from the cross Vanier/Keystone//421/3/3-51. Registered in 1992.
- BT 934 - a six-rowed barley from the cross Laurier/Loyola//York/3/Perth/4/Leger. W.G. Thompson maintains breeder seed of this variety. In the process of being registered in 1994.
- GB 8901 - a six-rowed smooth awned doubled haploid barley developed by OAC, University of Guelph. Not registered for sale in Canada.
- OB 967-34 - a six-rowed smooth awned barley developed by Agriculture Canada, Ottawa from the cross Leger/OAC Kippen. Not registered for sale in Canada.
- TBC 57-40 - a six-rowed smooth awned barley developed by W.G. Thompson from the cross Mingo/OB 339-1//QB 203-4. Not registered for sale in Canada.
- OS88-10.23 - a six-rowed smooth awned barley sponsored by Semico from the cross OB 339-1/Bedford. Not registered for sale in Canada.
- DB 68 - a six-rowed rough awned barley developed by Agriculture Canada, Charlottetown from the cross Chapais/QB 198.39. Not registered for sale in Canada.

**BARLEY**  
**MEAN YIELDS IN DIFFERENT AREAS\*, 1993**

	I (2)**		II (3)		III (1)		IV (2)		V (3)		VI (1)		PROVINCE*** (12)		
	t/ha	RANK	t/ha	RANK	t/ha	RANK	t/ha	RANK	t/ha	RANK	t/ha	RANK	t/ha	lbs/a	bu/a
AC Sirius	3.00	11	4.05	19	3.69	18	4.56	25	4.95	20	4.71	21	4.21	3758	78.3
AC Sterling	3.17	5	4.14	17	4.08	11	5.06	10	5.19	15	4.86	15	4.45	3974	82.8
Albany	2.78	21	3.76	24	3.59	21	4.45	27	4.77	23	4.76	19	4.03	3600	75.0
Frin	2.98	13	3.93	22	3.46	23	4.54	26	4.25	27	4.94	14	4.00	3569	74.4
Lester	3.45	1	4.41	9	3.44	25	5.00	11	5.41	12	5.10	12	4.57	4084	85.1
Morrison	2.96	16	3.92	23	3.46	23	4.93	14	5.43	11	5.37	5	4.39	3917	81.6
Symko	2.87	18	3.95	20	3.75	16	4.87	17	5.59	6	4.75	20	4.38	3911	81.5
Wellington	2.86	19	3.47	26	3.33	26	5.08	8	4.46	26	4.96	13	3.99	3566	74.3
C8830	2.82	20	3.29	27	3.23	27	4.60	24	4.88	22	5.13	11	3.98	3550	74.0
C8832	3.21	3	3.61	25	3.91	13	4.81	18	5.37	13	5.51	2	4.37	3897	81.2
AC Burman	2.93	17	4.74	2	4.56	1	5.08	8	5.16	16	4.85	17	4.59	4102	85.5
AC Nadia	2.75	22	4.16	15	4.36	5	5.72	3	5.72	3	5.59	1	4.71	4204	87.6
AC Stephen	3.15	6	4.95	1	4.23	8	5.40	7	4.95	20	5.23	9	4.69	4185	87.2
Bella	2.97	14	4.34	11	3.47	22	4.76	22	5.45	9	4.17	27	4.37	3903	81.3
Chapais	3.08	7	4.72	3	4.30	7	5.89	2	5.61	5	4.60	24	4.82	4301	89.6
Codac	3.08	7	3.95	20	3.73	17	4.80	19	5.72	3	4.42	26	4.41	3937	82.0
Etienne	2.75	22	4.66	5	4.17	9	5.53	4	5.05	18	4.68	22	4.54	4058	84.5
Leger	2.65	26	4.28	14	4.08	11	4.95	12	5.48	8	5.45	3	4.50	4019	83.7
OAC Kippen	2.97	14	4.32	13	3.89	14	4.77	21	5.44	10	4.68	22	4.44	3968	82.7
Sabina	2.66	25	4.16	15	3.69	18	4.95	12	5.09	17	4.80	18	4.29	3830	79.8
TB 891-6	3.00	11	4.46	8	3.87	15	4.90	15	4.73	25	4.59	25	4.32	3856	80.3
BT 934	3.04	9	4.36	10	4.31	6	4.80	19	4.77	23	5.27	7	4.39	3916	81.6
GB 8901	2.36	27	4.08	18	3.68	20	4.70	23	5.35	14	5.29	6	4.28	3824	79.7
OB 967-34	3.03	10	4.71	4	4.50	2	5.44	5	4.96	19	5.27	7	4.64	4145	86.4
TBC 57-40	3.32	2	4.34	11	4.13	10	4.88	16	5.54	7	4.86	15	4.58	4092	85.3
OS88-10.23	2.73	24	4.54	7	4.45	3	5.41	6	6.38	1	5.43	4	4.91	4384	91.3
DB 68	3.19	4	4.57	6	4.43	4	5.92	1	6.01	2	5.23	9	4.97	4179	87.1
Mean	2.95	-	4.22	-	3.92	-	5.03	-	5.25	-	4.98	-	4.44	3963	82.6

\* See attached map; \*\*No. of locations; \*\*\* Weighted average

**BARLEY**  
**MEAN YIELDS IN DIFFERENT AREAS\*, 1993**

	I (2)**		II (3)		III (1)		IV (2)		V (3)		VI (1)		PROVINCE*** (12)		
	t/ha	RANK	t/ha	RANK	t/ha	RANK	t/ha	RANK	t/ha	RANK	t/ha	RANK	t/ha	lbs/a	bu/a
AC Sirius	3.00	6	4.05	13	3.69	12	4.56	17	4.95	14	4.71	13	4.21	3758	78.3
AC Sterling	3.17	2	4.14	12	4.08	6	5.06	7	5.19	10	4.86	8	4.46	3979	82.9
Albany	2.78	15	3.76	18	3.59	14	4.45	19	4.77	16	4.76	11	4.03	3600	75.0
Frin	2.98	8	3.93	16	3.46	16	4.54	18	4.25	19	4.94	7	4.00	3569	74.4
Lester	3.45	1	4.41	6	3.44	18	5.00	8	5.41	9	5.10	5	4.57	4084	85.1
Morrison	2.96	11	3.92	17	3.46	16	4.93	11	5.43	8	5.37	3	4.39	3917	81.6
Symko	2.87	13	3.95	14	3.75	10	4.87	13	5.59	4	4.75	12	4.38	3911	81.5
Wellington	2.86	14	3.47	19	3.33	19	5.08	5	4.46	18	4.96	6	3.99	3566	74.3
AC Burman	2.93	12	4.74	2	4.56	1	5.08	5	5.16	11	4.85	9	4.59	4102	85.5
AC Nadia	2.75	16	4.16	10	4.36	2	5.72	2	5.72	1	5.59	1	4.71	4204	87.6
AC Stephen	3.15	3	4.95	1	4.23	4	5.40	4	4.95	14	5.23	4	4.69	4185	87.2
Bella	2.97	9	4.34	7	3.47	15	4.76	16	5.45	6	4.17	19	4.37	3903	81.3
Chapais	3.08	4	4.72	3	4.30	3	5.89	1	5.61	3	4.60	16	4.82	4301	89.6
Codiac	3.08	4	3.95	14	3.73	11	4.80	14	5.72	1	4.42	18	4.41	3937	82.0
Etienne	2.75	16	4.66	4	4.17	5	5.53	3	5.05	13	4.68	14	4.54	4058	84.5
Leger	2.65	19	4.28	9	4.08	6	4.95	9	5.48	5	5.45	2	4.50	4019	83.7
OAC Kippen	2.97	9	4.32	8	3.89	8	4.77	15	5.44	7	4.68	14	4.44	3968	82.7
Sabina	2.66	18	4.16	10	3.69	12	4.95	9	5.09	12	4.80	10	4.29	3830	79.8
TB 891-6	3.00	6	4.46	5	3.87	9	4.90	12	4.73	17	4.59	17	4.32	3856	80.3
Mean	2.95	-	4.23	-	3.85	-	5.01	-	5.18	-	4.87	-	4.41	3934	82.0

\* See attached map, \*\* No. of locations; \*\*\* Weighted average

**BARLEY**  
**DATA EXPRESSED RELATIVE TO LOCATION MEANS, 1993**

Cultivar	I	II	III	IV	V	VI	PROVINCE
AC Sirius	102	96	96	91	96	97	95
AC Sterling	108	98	106	101	100	100	101
Albany	94	89	93	89	92	98	91
Frin	101	93	90	91	82	101	91
Lester	117	104	89	100	104	105	104
Morrison	100	93	90	98	105	110	99
Symko	97	93	97	97	108	98	99
Wellington	97	82	86	101	86	102	91
AC Burman	99	112	118	101	100	100	104
AC Nadia	93	98	113	114	110	115	107
AC Stephen	107	117	110	108	95	107	106
Bella	100	103	90	95	105	86	99
Chapais	104	112	112	117	108	94	109
Codac	104	93	97	96	110	91	100
Etienne	93	110	108	110	98	96	103
Leger	90	101	106	99	106	112	102
OAC Kippen	101	102	101	95	105	96	101
Sabina	90	98	96	99	98	99	97
TB 891-6	102	105	101	98	91	94	98
Mean yield t/ha	2.95	4.23	3.85	5.01	5.18	4.87	4.41

**BARLEY**  
**MEAN YIELDS IN DIFFERENT AREAS\*, 1992-93**

	I (4)*		II (6)		III (7)		IV (4)		V (7)		VI (2)		PROVINCE*** (30)		
	t/ha	RANK	t/ha	RANK	t/ha	RANK	t/ha	RANK	t/ha	RANK	t/ha	RANK	t/ha	lbs/a	bu/ac
AC Sirius	3.54	4	4.34	9	5.05	12	4.98	14	5.48	17	4.73	14	4.78	4264	88.8
AC Sterling	3.38	8	4.34	9	5.22	8	5.19	7	5.65	11	4.69	15	4.86	4339	90.4
Albany	3.02	18	3.87	19	5.00	16	4.70	19	5.56	15	4.85	13	4.59	4099	85.4
Frin	3.06	17	4.10	15	5.07	10	5.05	10	5.11	18	5.06	6	4.62	5121	85.8
Lester	3.47	5	4.54	4	5.28	4	5.05	10	5.82	6	4.94	10	4.96	4432	92.3
Morrison	3.45	6	4.15	12	5.26	5	4.99	13	5.64	12	4.96	9	4.83	4310	89.8
Symko	3.42	7	4.18	11	5.26	5	4.71	18	5.90	4	4.60	17	4.83	4312	89.8
Wellington	3.34	11	4.00	18	5.00	16	5.26	6	5.08	19	4.92	11	4.63	4131	86.1
AC Burman	3.38	8	4.44	8	5.01	15	5.06	9	5.59	14	5.00	7	4.82	4304	89.7
AC Nadia	3.31	13	4.14	13	5.36	3	5.49	4	6.09	3	5.32	2	5.03	4489	93.5
AC Stephen	3.85	1	5.00	1	5.24	7	5.87	1	5.52	16	5.26	4	5.16	4604	95.9
Bella	3.61	2	4.46	5	4.95	19	5.09	8	5.78	9	4.45	19	4.85	4331	90.2
Chapais	3.60	3	4.84	2	5.66	1	5.83	2	6.29	1	5.30	3	5.37	4793	99.9
Codac	3.22	15	4.07	16	5.38	2	4.65	20	6.21	2	5.00	7	4.90	4376	91.2
Etienne	3.33	12	4.46	5	5.04	13	5.52	3	5.61	13	4.89	12	4.88	4359	90.8
Leger	3.21	16	4.12	14	5.06	11	4.90	17	5.82	6	5.34	1	4.80	4285	89.3
OAC Kippen	3.30	14	4.46	5	5.04	13	4.94	15	5.89	5	4.56	18	4.84	4325	90.1
Sabina	3.00	19	4.06	17	4.99	18	4.94	15	5.79	8	5.15	5	4.73	4224	88.0
TB 891-6	3.36	10	4.71	3	5.13	9	5.02	12	5.68	10	4.68	16	4.89	4368	91.0
Mean	3.36	-	4.33	-	5.16	-	5.12	-	5.71	-	4.93	-	4.86	4340	90.4

\* See attached map

\*\* No. of locations

\*\*\* Weighted average

**BARLEY**  
**DATA EXPRESSED RELATIVE TO LOCATION MEANS, 1992-93**

Cultivar	I	II	III	IV	V	VI	PROVINCE
AC Sirius	105	100	98	97	96	96	98
AC Sterling	101	100	101	101	99	95	100
Albany	90	89	97	92	97	98	94
Frin	91	95	98	99	90	103	95
Lester	103	105	102	99	102	100	102
Morrison	103	96	102	97	99	101	99
Symko	102	96	102	92	103	93	99
Wellington	99	92	97	103	89	100	95
AC Burman	101	102	97	99	98	101	99
AC Nadia	98	96	104	107	107	108	103
AC Stephen	114	115	102	115	97	107	106
Bella	107	103	96	99	101	90	100
Chapais	107	112	110	114	110	108	110
Codiac	96	94	104	91	109	102	101
Etienne	99	103	98	108	98	99	100
Leger	95	95	98	96	102	108	99
OAC Kippen	98	103	98	96	103	93	100
Sabina	89	94	97	96	101	105	97
TB 891-6	100	109	99	98	99	95	101
Mean yield t/ha	3.36	4.33	5.16	5.12	5.71	4.93	4.86

BARLEY

MEAN YIELDS IN DIFFERENT AREAS\*, 1991-93

	**** I (4)**		II (8)		III (11)		IV (5)		V (11)		VI (3)		PROVINCE*** (42)		
	t/ha	RANK	t/ha	RANK	t/ha	RANK	t/ha	RANK	t/ha	RANK	t/ha	RANK	t/ha	lbs/a	bu/a
AC Sirius	3.54	3	4.17	8	4.75	13	4.63	12	5.17	15	4.69	15	4.62	4121	85.9
Albany	3.02	15	3.92	16	4.72	15	4.62	11	5.19	14	4.87	12	4.53	4043	84.2
Frin	3.06	14	4.08	10	4.66	16	4.85	7	4.93	16	5.18	5	4.53	4043	84.2
Lester	3.47	4	4.38	4	4.89	6	4.86	6	5.41	10	5.08	10	4.80	4290	89.4
Morrison	3.45	5	4.02	13	4.87	7	4.70	9	5.33	12	5.11	8	4.69	4190	87.3
Symko	3.42	6	4.09	9	4.84	8	4.45	15	5.50	7	4.71	14	4.68	4179	87.1
AC Burman	3.38	7	4.32	7	4.74	14	4.75	8	5.43	9	5.11	8	4.74	4234	88.2
AC Nadia	3.31	10	3.99	14	5.01	3	5.02	4	5.74	2	5.20	4	4.86	4338	90.4
AC Stephen	3.85	1	4.84	1	4.93	5	5.50	2	5.21	13	5.12	7	4.96	4431	92.3
Chapais	3.60	2	4.77	2	5.22	1	5.54	1	5.74	2	5.34	2	5.16	4610	96.0
Codac	3.22	12	4.03	12	5.17	2	4.45	15	5.82	1	5.15	6	4.85	4331	90.2
Etiéne	3.33	9	4.36	5	4.78	10	5.11	3	5.40	11	4.98	11	4.78	4266	88.9
Leger	3.21	13	4.04	11	4.83	9	4.61	13	5.55	5	5.48	1	4.73	4224	88.0
OAC Kippen	3.30	11	4.33	6	4.77	12	4.67	10	5.60	4	4.81	13	4.76	4247	88.5
Sabina	3.00	16	3.94	15	4.78	10	4.61	13	5.51	6	5.23	3	4.65	4155	86.6
TB 891-6	3.36	8	4.55	3	4.96	4	4.88	5	5.48	8	4.69	15	4.84	4318	90.0
Mean	3.34	-	4.24	-	4.87	-	4.83	-	5.44	-	5.05	-	4.76	4251	88.6

\* See attached map

\*\* No. of locations

\*\*\* Weighted average

\*\*\*\* 1992-93 data only

**BARLEY**  
**DATA EXPRESSED RELATIVE TO LOCATION MEANS, 1991-93**

Cultivar	*I	II	III	IV	V	VI	PROVINCE
AC Sirius	106	98	98	96	95	93	97
Albany	90	93	97	96	95	97	95
Frin	92	96	96	100	91	103	95
Lester	104	103	100	101	99	101	101
Morrison	103	95	100	97	98	101	99
Symko	102	96	99	92	101	93	98
AC Burman	101	102	97	98	100	101	100
AC Nadia	99	94	103	104	105	103	102
AC Stephen	115	114	101	114	96	101	104
Chapais	108	113	107	115	106	106	108
Codac	96	95	106	92	107	102	102
Etienne	100	103	98	106	99	99	100
Leger	96	95	99	95	102	109	99
OAC Kippen	99	102	98	97	103	95	100
Sabina	90	93	98	95	101	104	98
TB 891-6	100	107	102	101	101	93	102
Mean yield t/ha	3.34	4.24	4.87	4.83	5.44	5.05	4.76

\*1992-93 data only



**BARLEY**  
**MEAN YIELDS IN DIFFERENT AREAS\*, 1990-93**

	****I (5)**		II (11)		III (15)		IV (6)		V (15)		VI (4)		PROVINCE*** (56)		
	t/ha	RANK	t/ha	RANK	t/ha	RANK	t/ha	RANK	t/ha	RANK	t/ha	RANK	t/ha	lbs/a	bu/a
Albany	3.12	9	3.88	9	4.21	9	4.71	9	4.98	10	4.09	9	4.30	3839	80.0
Lester	3.47	3	4.25	3	4.31	4	4.99	3	5.14	8	4.31	6	4.52	4034	84.0
Morrison	3.54	1	3.98	8	4.27	8	4.76	7	5.13	9	4.36	4	4.44	3962	82.5
Symko	3.44	4	4.00	7	4.34	3	4.54	10	5.28	6	4.03	10	4.44	3968	82.7
AC Burman	3.35	5	4.18	5	4.14	10	4.91	4	5.38	3	4.34	5	4.51	4023	83.8
Chapais	3.49	2	4.70	1	4.48	1	5.63	1	5.66	1	4.71	1	4.89	4366	91.0
Etienne	3.25	6	4.32	2	4.31	4	5.29	2	5.29	5	4.23	7	4.58	4088	85.2
Leger	3.14	8	4.01	6	4.36	2	4.76	7	5.40	2	4.68	2	4.52	4040	84.2
OAC Kippen	3.17	7	4.21	4	4.28	7	4.83	6	5.37	4	4.18	8	4.51	4028	83.9
Sabrina	2.87	10	3.88	9	4.29	6	4.87	5	5.24	7	4.49	3	4.42	3942	82.1
Mean	3.29	-	4.14	-	4.30	-	4.93	-	5.29	-	4.34	-	4.51	4029	83.9

\* See attached map; \*\*No. of locations; \*\*\*Weighted average; \*\*\*\*1990, 1992-93 data only

**DATA EXPRESSED RELATIVE TO LOCATION MEANS, 1990-93**

Cultivar	*I	II	III	IV	V	VI	PROVINCE
Albany	95	94	98	96	94	94	95
Lester	106	103	100	101	97	99	100
Morrison	108	96	99	97	97	100	98
Symko	105	97	101	92	100	93	99
AC Burman	102	101	96	100	102	100	100
Chapais	106	113	104	114	107	108	108
Etienne	99	104	100	107	100	97	102
Leger	96	97	101	97	102	108	100
OAC Kippen	97	102	100	98	102	96	100
Sabrina	87	94	100	99	99	103	98
mean yield t/ha	3.29	4.14	4.30	4.93	5.29	4.34	4.51

\* 1990, 1992-93 data only

**TESTING AREA I  
BARLEY  
AGRONOMIC DATA, 1993**

Cultivar	Yield t/ha (2)*	hl/wt kg (2)	Kernel weight g/1000 (1)	Height cm (2)	Lodging 0-9 (2)	Maturity <sup>a</sup> days (1)	Leaf Rust 0-9 (1)
AC Sirius	3.00	61.1	37.7	77	1.3	90	2.0
AC Sterling	3.17	62.9	41.8	74	1.3	91	2.0
Albany	2.78	60.5	36.0	69	1.4	89	1.0
Frin	2.98	61.6	38.4	63	0.2	91	1.0
Lester	3.45	62.4	41.7	67	0.8	90	2.0
Morrison	2.96	62.4	37.0	70	1.3	91	3.0
Symko	2.87	62.6	36.4	75	0.8	91	2.0
Wellington	2.86	61.7	35.6	67	0.3	92	1.0
C8830	2.82	58.5	35.8	66	0.0	92	1.0
C8832	3.21	59.3	35.8	69	0.2	91	1.5
AC Burman	2.93	60.0	31.0	82	1.5	92	6.0
AC Nadia	2.74	59.4	31.3	80	0.5	93	4.0
AC Stephen	3.15	61.8	34.6	81	1.2	91	3.5
Bella	2.97	60.1	36.1	76	2.2	91	5.0
Chapais	3.08	56.4	40.5	70	1.8	92	5.5
Codac	3.08	56.1	33.1	73	1.7	92	5.0
Etienne	2.75	55.2	33.6	76	1.4	92	6.0
Leger	2.65	57.9	30.8	79	1.0	93	5.0
OAC Kippen	2.97	64.3	36.6	80	1.4	92	3.5
Sabina	2.66	61.4	32.9	75	0.7	92	5.0
TB 891-6	3.00	60.6	32.3	75	0.8	92	3.0
BT 934	3.04	60.7	32.7	77	0.9	92	5.0
GB 8901	2.36	55.9	34.0	80	1.1	94	6.5
OB 967-34	3.03	58.6	36.9	80	0.9	93	5.5
TBC 57-40	3.32	58.7	34.3	83	1.2	92	4.5
OS88-10.23	2.73	60.3	36.3	77	1.3	92	5.5
DB 68	3.19	56.2	37.8	74	0.9	94	2.0

<sup>a</sup> no. of days from seeding to maturity

\* no. of locations

**TESTING AREA I  
BARLEY  
AGRONOMIC DATA, 1992-93**

Cultivar	Yield t/ha (4)*	hl/wt kg (4)	Kernel weight g/1000 (3)	Height cm (4)	Lodging 0-9 (4)	Maturity <sup>a</sup> days** (1)
AC Sirius	3.54	61.6	36.6	82	2.9	90
AC Sterling	3.38	63.1	39.7	82	3.2	91
Albany	3.02	60.1	34.3	74	3.5	89
Frin	3.06	59.9	35.5	68	2.6	91
Lester	3.47	62.6	38.9	68	2.9	90
Morrison	3.45	63.3	37.5	71	2.4	91
Symko	3.42	64.0	37.8	82	2.6	91
Wellington	3.34	63.9	36.1	75	1.6	92
AC Burman	3.38	59.7	31.2	90	2.8	92
AC Nadia	3.31	58.7	31.6	87	1.8	93
AC Stephen	3.85	61.7	35.0	89	2.3	91
Bella	3.61	61.7	34.0	82	3.1	91
Chapais	3.60	57.5	39.2	83	2.6	92
Codac	3.22	55.0	31.5	80	3.3	92
Etienne	3.33	58.3	32.8	82	2.5	92
Leger	3.21	57.0	31.9	89	2.5	93
OAC Kippen	3.30	62.6	33.8	88	2.7	92
Sabina	3.00	60.5	32.0	84	2.3	92
TB 891-6	3.36	60.3	29.3	82	2.4	92

<sup>a</sup> no. of days from seeding to maturity

\* no. of locations

\*\* 1993 data only

**TESTING AREA I  
BARLEY  
AGRONOMIC DATA, 1991-93**

Cultivar	Yield t/ha** (4)*	hl/wt kg (5)	Kernel weight g/1000** (3)	Height cm (5)	Lodging 0-9 (5)	Maturity <sup>a</sup> days*** (2)
AC Sirius	3.54	62.2	36.6	82	2.7	87
Albany	3.02	60.3	34.3	74	3.1	88
Frin	3.06	61.2	35.5	68	2.2	88
Lester	3.47	62.5	38.9	70	2.5	88
Morrison	3.45	61.9	37.5	73	2.1	89
Symko	3.42	61.3	37.8	83	2.4	89
AC Burman	3.38	60.0	31.2	90	3.0	88
AC Nadia	3.31	59.1	31.6	87	1.7	91
AC Stephen	3.85	60.4	35.0	89	2.5	89
Chapais	3.60	58.1	39.2	80	2.4	90
Codac	3.22	56.3	31.5	79	2.9	89
Etienne	3.33	59.7	32.8	82	2.3	90
Leger	3.21	58.4	31.9	90	2.5	90
OAC Kippen	3.30	61.2	33.8	88	2.4	90
Sabina	3.00	61.2	32.0	84	2.2	90
TB 891-6	3.36	59.7	29.3	82	2.2	90

<sup>a</sup> no. of days from seeding to maturity; \*no. of locations; \*\*1992-93 data only; \*\*\* 1991 and 1993 data only

**AGRONOMIC DATA, 1990-93**

Cultivar	Yield t/ha** (5)*	hl/wt kg (6)	Kernel weight g/1000*** (3)	Height cm (6)	Lodging 0-9**** (5)	Maturity <sup>a</sup> days***** (3)
Albany	3.12	60.9	34.3	75	3.1	89
Lester	3.47	63.4	38.9	71	2.5	89
Morrison	3.54	63.0	37.5	73	2.1	90
Symko	3.44	62.5	37.8	82	2.4	90
AC Burman	3.35	60.2	31.2	90	3.0	89
Chapais	3.49	58.2	39.2	79	2.4	91
Etienne	3.25	60.0	32.8	82	2.3	91
Leger	3.14	58.9	31.9	89	2.5	91
OAC Kippen	3.17	61.9	33.8	88	2.4	91
Sabina	2.87	61.8	32.0	84	2.2	91

<sup>a</sup> no. of days from seeding to maturity; \* no. of locations; \*\* 1990, 1992-93 data only; \*\*\* 1992-93 data only; \*\*\*\* 1991-93 data only; \*\*\*\*\* 1990-91, 1993 data only

**TESTING AREA I  
BARLEY**  
Yield in kg per ha, 1993

Cultivar	Kent I	Lambton	Average			Rank
			t/ha	lb/a	bu/a	
AC Sirius	3467	2532	3.00	2679	55.8	11
AC Sterling	3426	2918	3.17	2830	59.0	5
Albany	3282	2278	2.78	2482	51.7	21
Frin	3176	2774	2.98	2661	55.4	13
Lester	3748	3154	3.45	3080	64.2	1
Morrison	3419	2501	2.96	2643	55.1	16
Symko	3099	2634	2.87	2563	53.4	18
Wellington	3397	2322	2.86	2554	53.2	19
C8830	3226	2413	2.82	2518	52.5	20
C8832	3488	2931	3.21	2866	59.7	3
AC Burman	2610	3240	2.93	2616	54.5	17
AC Nadia	2564	2935	2.75	2455	51.2	22
AC Stephen	3163	3141	3.15	2813	58.6	6
Bella	3268	2662	2.97	2652	55.2	14
Chapais	3515	2635	3.08	2750	57.3	7
Codac	3069	3084	3.08	2750	57.3	7
Etienne	2443	3052	2.75	2455	51.2	22
Leger	2216	3089	2.65	2366	49.3	26
OAC Kippen	2936	3004	2.97	2652	55.2	14
Sabina	2566	2760	2.66	2375	49.5	25
TB 891-6	2964	3039	3.00	2679	55.8	11
BT 934	2671	3415	3.04	2714	56.5	9
GB 8901	2211	2508	2.36	2107	43.9	27
OB 967-34	2600	3453	3.03	2705	56.4	10
TBC 57-40	3608	3024	3.32	2964	61.8	2
OS88-10.23	2545	2919	2.73	2438	50.8	24
DB 68	3160	3213	3.19	2848	59.3	4
Mean	3030	2875	2.95	2638	54.9	-
C.V. 5	9.6	10.8	-	-	-	-
LSD (0.05)	410	436	-	-	-	-

**TESTING AREA II  
BARLEY  
AGRONOMIC DATA, 1993**

Cultivar	Yield t/ha (3)*	hl/wt kg (3)	Kernel weight g/1000 (3)	Height cm (3)	Lodging 0-9 (2)	Maturity <sup>a</sup> days (1)	Mildew 0-9 (1)	Leaf Rust 0-9 (1)	Scald 0-9 (1)	BYDV 0-9 (2)
AC Sirius	4.05	61.7	42.9	89	3.5	79	0	2.5	3.0	4.8
AC Sterling	4.14	62.3	40.8	94	3.5	82	0	1.5	2.5	4.3
Albany	3.76	62.2	42.0	88	2.0	80	0	2.0	5.0	5.0
Frin	3.93	61.9	42.2	78	0.2	80	0	1.5	6.0	4.8
Lester	4.41	64.7	44.2	83	0.7	80	0	2.0	5.0	5.3
Morrison	3.92	64.2	40.8	88	0.9	81	0	3.0	4.0	4.0
Symko	3.95	63.2	40.3	91	5.8	81	0	3.0	4.5	4.5
Wellington	3.47	63.8	38.4	85	0.6	81	0	2.0	4.0	5.0
C8830	3.29	57.5	34.3	82	1.8	81	0	2.0	4.5	4.3
C8832	3.61	59.2	39.5	80	1.3	81	0	2.5	5.0	5.0
AC Burman	4.74	58.7	35.2	100	3.9	81	0	4.0	3.5	5.5
AC Nadia	4.16	58.6	36.5	96	2.3	81	5	3.5	2.0	5.3
AC Stephen	4.95	60.0	38.0	97	2.7	81	0	3.0	2.0	3.8
Bella	4.34	62.3	39.0	93	3.9	80	0	1.5	5.0	5.0
Chapais	4.72	59.2	43.4	83	2.9	80	0	3.0	3.0	5.3
Codac	3.95	55.8	34.5	92	3.8	80	6	2.5	2.0	5.3
Etienne	4.66	59.9	37.8	92	1.2	81	4	3.0	2.5	4.5
Leger	4.28	58.0	36.0	105	3.2	81	3	4.0	2.5	4.3
OAC Kippen	4.32	62.6	37.8	96	3.6	81	1	2.0	3.5	5.3
Sabina	4.16	60.7	39.5	97	3.3	81	2	3.5	5.0	4.3
TB 891-6	4.46	59.1	35.0	90	1.3	81	0	2.5	3.0	4.0
BT 934	4.36	58.1	35.9	93	1.2	80	0	2.0	3.0	5.0
GB 8901	4.08	56.1	36.7	97	3.5	81	4	4.0	3.5	4.5
OB 967-34	4.71	57.8	41.9	98	1.7	82	3	3.5	3.0	5.3
TBC 57-40	4.34	59.8	36.0	101	1.6	81	4	2.5	3.5	5.0
OS88-10.23	4.54	59.6	40.9	93	1.2	80	2	3.5	3.5	5.3
DB 68	4.57	57.5	40.4	85	5.2	82	2	3.5	3.5	3.3

<sup>a</sup> no. of days from seeding to maturity

\* no. of locations

**TESTING AREA II  
BARLEY  
AGRONOMIC DATA, 1992-93**

Cultivar	Yield t/ha (6)*	hl/wt kg (6)	Kernel weight g/1000 (6)	Height cm (6)	Lodging 0-9 (4)	Maturity <sup>a</sup> days (3)	Mildew 0-9 (3)	Leaf Rust 0-9 (3)
AC Sirius	4.34	62.3	41.9	88	2.2	86	0.5	2.8
AC Sterling	4.34	63.6	40.9	95	1.9	89	0.0	2.0
Albany	3.87	62.0	40.1	86	1.5	87	0.3	2.0
Frin	4.10	63.0	41.4	78	0.3	87	0.3	1.2
Lester	4.54	64.5	42.7	81	0.6	87	0.3	1.9
Morrison	4.15	64.6	40.7	85	0.9	88	0.5	2.6
Symko	4.18	64.1	40.2	89	3.3	88	0.5	3.3
Wellington	4.00	64.6	37.2	85	0.3	88	0.0	2.3
AC Burman	4.44	59.2	34.6	98	2.0	87	1.3	4.9
AC Nadia	4.14	58.6	34.0	94	1.2	87	3.7	4.4
AC Stephen	5.00	61.1	37.7	96	1.5	87	0.5	3.9
Bella	4.46	62.4	37.9	93	2.0	85	1.0	3.2
Chapais	4.84	59.3	42.0	80	1.7	86	0.3	2.9
Codac	4.07	56.8	35.0	91	3.0	87	3.8	3.8
Etienne	4.46	60.7	37.2	88	0.9	88	4.0	5.5
Leger	4.12	59.0	35.3	99	1.6	87	3.3	4.8
OAC Kippen	4.46	63.1	37.6	94	2.7	87	1.5	2.9
Sabina	4.06	61.1	37.3	98	2.3	88	1.5	5.5
TB 891-6	4.71	60.5	34.7	90	0.7	88	0.0	2.8

<sup>a</sup> no. of days from seeding to maturity

\* no. of locations

**TESTING AREA II  
BARLEY  
AGRONOMIC DATA, 1991-93**

Cultivar	Yield t/ha (8)*	hl/wt kg (8)	Kernel weight g/1000 (8)	Height cm (9)	Lodging 0-9 (5)	Maturity <sup>a</sup> days (5)	Leaf Rust 0-9 (5)
AC Sirius	4.17	62.3	41.9	83	2.7	86	2.5
Albany	3.92	62.4	40.5	81	1.9	87	2.1
Frin	4.08	63.2	41.5	73	0.5	87	1.5
Lester	4.38	64.3	43.0	77	1.7	86	2.2
Morrison	4.02	64.7	41.1	81	1.1	87	2.3
Symko	4.09	64.4	40.8	84	3.3	88	4.1
AC Burman	4.32	58.8	34.5	90	2.2	87	5.1
AC Nadia	3.99	58.4	34.2	85	1.3	87	4.1
AC Stephen	4.84	61.3	38.0	89	1.5	87	3.3
Chapais	4.77	59.6	42.3	75	1.8	86	2.4
Codac	4.03	56.1	35.0	85	3.1	87	3.9
Etienne	4.36	60.0	36.3	84	1.0	87	4.8
Leger	4.04	59.0	35.5	92	1.8	87	4.3
OAC Kippen	4.33	63.4	38.0	90	2.4	87	2.6
Sabina	3.94	60.5	37.0	89	2.2	87	4.9
TB 891-6	4.55	60.5	34.8	84	0.7	87	2.3

\* no. of days from seeding to maturity; \* no. of locations

**AGRONOMIC DATA, 1990-93**

Cultivar	Yield t/ha (11)*	hl/wt kg (11)	Kernel weight g/1000 (11)	Height cm (12)	Lodging 0-9 (7)	Maturity <sup>a</sup> days (6)	Leaf Rust 0-9 (6)
Albany	3.88	62.3	40.5	82	2.7	89	2.7
Lester	4.25	64.1	42.7	78	2.2	88	2.8
Morrison	3.98	64.4	41.0	82	2.1	89	2.9
Symko	4.00	64.8	40.5	86	3.8	90	4.7
AC Burman	4.18	59.0	34.5	90	2.8	88	5.7
Chapais	4.70	60.0	43.0	77	2.5	87	3.2
Etienne	4.32	60.1	36.2	85	1.8	89	5.5
Leger	4.01	58.8	35.1	93	2.7	89	5.1
OAC Kippen	4.21	62.8	37.4	91	3.1	89	3.6
Sabina	3.88	60.2	37.1	90	2.4	89	5.6

\* no. of days from seeding to maturity; \* no. of locations



**TESTING AREA II  
BARLEY  
Yield in kg per ha, 1993**

Cultivar	Oxford	Huron	Middlesex I	Average			Rank
				t/ha	lbs/a	bu/a	
AC Sirius	4091	4057	4006	4.05	3616	75.3	19
AC Sterling	3929	4769	3731	4.14	3696	77.0	17
Albany	4044	3501	3738	3.76	3357	69.9	24
Frin	4679	3525	3586	3.93	3509	73.1	22
Lester	4609	4371	4238	4.41	3938	82.0	9
Morrison	3933	4008	3818	3.92	3500	72.9	23
Symko	4326	3719	3803	3.95	3527	73.5	20
Wellington	3398	3531	3470	3.47	3098	64.5	26
C8830	3797	3030	3042	3.29	2938	61.2	27
C8832	3963	3224	3629	3.61	3223	67.1	25
AC Burman	4852	4817	4564	4.74	4232	88.2	2
AC Nadia	4441	4165	3868	4.16	3714	77.4	15
AC Stephen	5247	4926	4673	4.95	4420	92.1	1
Bella	4921	3827	4267	4.34	3875	80.7	11
Chapais	5241	4407	4506	4.72	4214	87.8	3
Codac	3761	3924	4165	3.95	3527	73.5	20
Etienne	4894	4878	4209	4.66	4161	86.7	5
Leger	4584	4069	4194	4.28	3821	79.6	14
OAC Kippen	4357	4262	4339	4.32	3857	80.4	13
Sabina	4555	4069	3868	4.16	3714	77.4	15
TB 891-6	4569	4576	4231	4.46	3982	83.0	8
BT 934	4735	4347	3992	4.36	3893	81.1	10
GB 8901	4214	4117	3919	4.08	3643	75.9	18
OB 967-34	4695	4974	4448	4.71	4205	87.6	4
TBC 57-40	4001	4697	4325	4.34	3875	80.7	11
OS88-10.23	4952	4443	4238	4.54	4054	84.5	7
DB 68	4680	4479	4542	4.57	4080	85.0	6
Mean	4425	4175	4053	4.22	3768	78.5	-
C.V. %	8.1	8.4	7.7	-	-	-	-
LSD (0.05)	503	496	443	-	-	-	-

**TESTING AREA III  
BARLEY  
AGRONOMIC DATA, 1993**

Cultivar	Yield t/ha (1)*	hl/wt kg (1)	Kernel weight g/1000 (1)	Height cm (1)	Lodging 0-9 (1)	Maturity <sup>a</sup> days (1)
AC Sirius	3.69	63.0	40.4	85	0.3	84
AC Sterling	4.08	64.0	46.0	79	0.0	85
Albany	3.59	62.5	44.0	74	0.0	86
Frin	3.46	59.0	37.6	70	0.3	85
Lester	3.44	63.5	45.2	72	0.0	85
Morrison	3.46	64.5	43.2	72	0.0	86
Symko	3.75	63.0	41.2	81	0.0	85
Wellington	3.33	61.8	36.4	66	0.0	88
C8830	3.23	58.9	32.8	63	0.0	88
C8832	3.91	60.5	42.8	78	0.3	85
AC Burman	4.56	58.9	28.8	87	0.8	85
AC Nadia	4.36	62.0	37.2	87	0.0	85
AC Stephen	4.23	61.0	34.8	81	0.3	85
Bella	3.47	63.0	34.8	79	0.5	85
Chapais	4.30	58.6	37.6	76	0.5	85
Codac	3.73	57.5	32.4	79	1.0	86
Etienne	4.17	61.0	34.4	83	0.0	86
Leger	4.08	60.7	34.4	91	1.0	85
OAC Kippen	3.89	63.8	36.0	88	0.3	85
Sabina	3.69	62.4	38.0	80	0.3	87
TB 891-6	3.87	61.0	33.6	78	0.0	85
BT 934	4.31	60.5	34.8	84	0.5	86
GB 8901	3.68	58.8	40.0	79	0.3	86
OB 967-34	4.50	59.5	35.6	87	0.5	86
TBC 57-40	4.13	62.5	35.6	86	0.3	85
OS88-10.23	4.45	62.5	40.0	77	0.0	85
DB 68	4.43	57.5	37.2	81	1.0	86

<sup>a</sup> no. of days from seeding to maturity

\* no. of locations

**TESTING AREA III  
BARLEY  
AGRONOMIC DATA, 1992-93**

Cultivar	Yield t/ha (7)*	hl/wt kg (7)	Kernel weight g/1000 (6)	Height cm (7)	Lodging 0-9 (5)	Maturity <sup>a</sup> days (4)
AC Sirius	5.05	66.5	47.2	88	1.6	98
AC Sterling	5.22	67.6	46.5	90	2.5	99
Albany	5.00	67.4	48.8	83	1.5	100
Frin	5.07	66.4	48.3	79	1.3	99
Lester	5.28	67.5	50.9	81	2.2	99
Morrison	5.26	68.0	47.8	81	2.0	100
Symko	5.26	67.4	46.5	90	1.8	99
Wellington	5.00	68.9	45.7	82	0.5	100
AC Burman	5.01	62.8	38.3	99	1.7	99
AC Nadia	5.36	64.0	42.5	100	0.7	99
AC Stephen	5.24	63.1	41.1	98	1.8	99
Bella	4.95	64.7	42.2	93	1.6	99
Chapais	5.66	62.2	48.0	81	1.5	99
Codac	5.38	61.4	40.7	90	2.7	100
Etienne	5.04	63.6	40.5	92	1.7	100
Leger	5.06	64.0	41.5	100	1.6	99
OAC Kippen	5.04	65.3	42.0	98	2.5	99
Sabina	4.99	65.4	43.7	101	1.2	100
TB 891-6	5.13	64.8	39.8	93	1.4	99

<sup>a</sup> no. of days from seeding to maturity

\* no. of locations

**TESTING AREA III  
BARLEY  
AGRONOMIC DATA, 1991-93**

Cultivar	Yield t/ha (11)*	hl/wt kg (13)	Kernel weight g/1000 (11)	Height cm (12)	Lodging 0-9 (6)	Maturity* days (7)
AC Sirius	4.75	65.5	46.4	80	1.5	90
Albany	4.72	66.4	47.3	75	1.6	90
Frin	4.66	65.4	47.3	72	1.2	91
Lester	4.89	67.0	49.5	74	2.1	90
Morrison	4.87	67.5	47.3	74	1.8	91
Symko	4.84	67.1	46.3	81	1.7	91
AC Burman	4.74	61.9	37.4	89	1.7	91
AC Nadia	5.01	62.5	40.7	90	0.9	91
AC Stephen	4.93	62.2	40.0	88	1.7	91
Chapais	5.22	61.0	46.5	74	1.4	91
Codac	5.17	59.5	39.5	80	2.6	91
Etienne	4.78	62.7	39.5	84	1.7	91
Leger	4.83	62.4	39.8	91	1.5	91
OAC Kippen	4.77	64.3	40.9	90	2.5	91
Sabina	4.78	64.1	42.5	90	1.1	91
TB 891-6	4.96	63.4	38.4	83	1.4	91

\* no. of days from seeding to maturity; \* no. of locations

**AGRONOMIC DATA, 1990-93**

Cultivar	Yield t/ha (15)*	hl/wt kg (18)	Kernel weight g/1000 (16)	Height cm (16)	Lodging 0-9 (8)	Maturity* days (10)
Albany	4.21	64.9	45.9	75	2.0	91
Lester	4.31	65.8	47.6	74	2.9	91
Morrison	4.27	66.1	46.6	75	2.5	91
Symko	4.34	66.0	45.8	82	2.5	92
AC Burman	4.14	61.3	37.4	88	1.2	91
Chapais	4.48	60.1	46.1	74	1.0	91
Etienne	4.31	61.7	39.0	83	1.3	91
Leger	4.36	61.4	39.2	90	1.4	91
OAC Kippen	4.28	63.3	40.3	89	2.9	91
Sabina	4.29	63.2	42.0	89	1.3	92

\* no. of days from seeding to maturity; \* no. of locations

**TESTING AREA III  
BARLEY  
Yield in kg per ha, 1993**

Cultivar	Carleton I	Average			Rank
		t/ha	lbs/a	bu/a	
AC Sirius	3688	3.69	3295	68.6	18
AC Sterling	4075	4.08	3643	75.9	11
Albany	3585	3.59	3205	66.8	21
Frin	3457	3.46	3089	64.4	23
Lester	3437	3.44	3071	64.0	25
Morrison	3461	3.46	3089	64.4	23
Symko	3749	3.75	3348	69.8	16
Wellington	3326	3.33	2973	61.9	26
C8830	3232	3.23	2884	60.1	27
C8832	3914	3.91	3491	72.7	13
AC Burman	4561	4.56	4071	84.8	1
AC Nadia	4355	4.36	3893	81.1	5
AC Stephen	4230	4.23	3777	78.7	8
Bella	3471	3.47	3098	64.5	22
Chapais	4298	4.30	3839	80.0	7
Codac	3728	3.73	3330	69.4	17
Etienne	4165	4.17	3723	77.6	9
Leger	4076	4.08	3643	75.9	11
OAC Kippen	3888	3.89	3473	72.4	14
Sabina	3693	3.69	3295	68.6	18
TB 891-6	3871	3.87	3455	72.0	15
BT 934	4311	4.31	3848	80.2	6
GB 8901	3680	3.68	3286	68.5	20
OB 967-34	4495	4.50	4018	83.7	2
TBC 57-40	4133	4.13	3688	76.8	10
OS88-10.23	4450	4.45	3973	82.8	3
DB 68	4431	4.43	3955	82.4	4
Mean	3917	3.92	3500	72.9	-
C.V. %	9.4	-	-	-	-
LSD (0.05)	564	-	-	-	-

**TESTING AREA IV  
BARLEY  
AGRONOMIC DATA, 1993**

Cultivar	Yield t/ha (2)*	hl/wt kg (2)	Kernel weight g/1000 (2)	Height cm (2)	Lodging 0-9 (2)	Maturity* days (1)	Mildew 0-9 (1)	Leaf Rust 0-9 (1)	Scald 0-9 (1)
AC Sirius	4.56	62.4	41.8	88	0.1	89	0	7	4.3
AC Sterling	5.06	63.9	49.4	80	0.2	92	0	7	4.5
Albany	4.44	61.3	45.1	77	0.0	92	0	6	5.8
Frin	4.54	61.1	42.5	75	0.0	92	2	4	5.8
Lester	5.00	64.1	45.3	80	0.0	89	0	6	5.0
Morrison	4.93	66.1	45.1	83	0.0	92	0	7	3.5
Symko	4.86	63.0	42.1	85	2.4	92	0	8	5.8
Wellington	5.07	61.5	40.1	81	0.0	93	0	6	6.3
C8830	4.60	54.9	35.1	74	0.0	91	0	5	6.3
C8832	4.81	57.5	36.5	78	0.2	90	2	6	2.8
AC Burman	5.07	59.3	35.1	81	3.3	89	3	7	4.3
AC Nadia	5.72	59.4	36.2	103	0.3	92	3	8	0.0
AC Stephen	5.40	61.7	37.4	101	2.3	90	2	7	2.5
Bella	4.76	63.1	37.7	96	3.3	90	7	7	3.3
Chapais	5.88	58.8	42.2	92	0.9	91	6	6	1.3
Codac	4.80	54.0	34.9	89	2.8	90	5	7	1.0
Etienne	5.52	60.1	39.0	96	0.7	91	6	7	2.0
Leger	4.94	59.1	34.9	105	2.7	91	1	7	3.0
OAC Kippen	4.77	62.9	37.9	96	2.7	89	0	7	1.0
Sabina	4.95	59.1	36.2	103	1.4	91	0	7	3.5
TB 891-6	4.90	58.7	35.1	90	0.7	91	0	7	2.8
BT 934	4.79	58.5	35.3	101	1.2	92	6	6	2.5
GB 8901	4.70	56.6	34.8	101	2.8	91	4	6	5.5
OB 967-34	5.44	59.2	38.8	102	0.7	92	5	7	3.0
TBC 57-40	4.88	59.8	36.6	102	1.8	89	0	7	4.3
OS88-10.23	5.40	60.7	37.4	95	1.8	89	4	6	1.0
DB 68	4.17	55.7	38.5	85	0.9	93	2	6	2.8

\* no. of days from seeding to maturity

\* no. of locations

**TESTING AREA IV  
BARLEY  
AGRONOMIC DATA, 1992-93**

Cultivar	Yield t/ha (4)*	hl/wt kg (4)	Kernel weight g/1000 (4)	Height cm (4)	Lodging 0-9 (3)	Maturity <sup>a</sup> days (2)	Mildew 0-9 (2)	Scald 0-9 (3)
AC Sirius	4.98	61.6	41.4	88	0.0	94	0.0	3.8
AC Sterling	5.19	62.4	45.4	88	0.3	97	0.0	3.1
Albany	4.70	60.5	42.8	78	0.5	95	0.0	4.6
Frin	5.05	59.3	41.5	76	0.0	96	1.0	4.6
Lester	5.05	61.9	43.9	79	0.3	94	0.3	4.5
Morrison	4.99	62.9	43.5	82	1.3	96	0.0	2.8
Symko	4.71	62.1	40.7	86	2.9	96	0.0	3.4
Wellington	5.26	62.1	38.9	84	0.0	97	0.0	4.6
AC Burman	5.06	58.1	35.6	92	2.2	93	3.0	2.4
AC Nadia	5.49	57.7	35.1	104	0.5	95	5.0	0.6
AC Stephen	5.87	60.1	39.2	102	1.7	95	2.5	1.5
Bella	5.09	60.4	36.7	96	3.2	95	6.3	3.0
Chapais	5.83	57.1	42.4	88	0.6	95	3.8	2.4
Codac	4.65	52.8	34.0	89	3.0	95	4.8	1.3
Etienne	5.52	57.8	36.5	96	0.4	96	5.5	1.9
Leger	4.90	57.4	34.4	106	1.9	95	3.3	1.9
OAC Kippen	4.94	60.6	36.5	96	3.1	94	1.3	0.8
Sabina	4.94	58.2	36.4	105	0.9	96	0.8	2.2
TB 891-6	5.02	57.9	34.3	95	2.1	96	0.0	2.1

<sup>a</sup> no. of days from seeding to maturity

\* no. of locations

**TESTING AREA IV  
BARLEY  
AGRONOMIC DATA 1991-93**

Cultivar	Yield t/ha (5)*	hl/wt kg (5)	Kernel weight g/1000 (5)	Height cm (5)	Lodging 0-9 (4)	Maturity <sup>a</sup> days (3)
AC Sirius	4.63	61.8	41.3	83	0.5	89
Albany	4.62	61.0	42.9	75	0.4	91
Frin	4.85	59.7	41.8	72	0.0	92
Lester	4.86	60.7	43.7	75	0.3	90
Morrison	4.70	62.9	43.3	77	1.5	91
Symko	4.45	61.9	40.1	82	3.0	92
AC Burman	4.75	57.6	35.0	88	1.6	89
AC Nadia	5.02	57.0	34.1	97	0.4	91
AC Stephen	5.50	60.6	38.8	96	1.8	91
Chapais	5.54	57.8	42.3	83	0.5	90
Codac	4.45	52.6	34.0	84	2.6	90
Etienne	5.11	57.0	35.7	89	0.3	92
Leger	4.61	57.2	34.2	100	2.0	91
OAC Kippen	4.67	60.2	36.3	92	3.3	91
Sabina	4.61	57.5	35.8	98	0.7	92
TB 891-6	4.88	58.6	34.2	89	1.6	91

<sup>a</sup> no. of days from seeding to maturity; \*no. of locations

**AGRONOMIC DATA, 1990-93**

Cultivar	Yield t/ha (6)*	hl/wt kg (6)	Kernel weight g/1000 (6)	Height cm (6)	Lodging 0-9 (5)	Maturity <sup>a</sup> days (4)
Albany	4.71	62.0	43.0	76	0.5	93
Lester	4.99	62.2	44.4	75	0.5	92
Morrison	4.76	64.3	43.9	77	1.5	92
Symko	4.54	63.3	41.1	82	2.9	94
AC Burman	4.91	58.8	35.7	89	1.3	91
Chapais	5.63	58.5	43.2	84	0.9	91
Etienne	5.29	58.0	36.7	90	0.5	93
Leger	4.76	58.5	35.5	100	1.6	92
OAC Kippen	4.83	61.5	37.2	92	3.0	92
Sabina	4.87	58.9	37.3	99	0.6	94

<sup>a</sup> no. of days from seeding to maturity; \* no. of locations



**TESTING AREA IV  
BARLEY  
Yield in kg per ha, 1993**

Cultivar	Wellington I	Wellington	Average			Rank
			t/ha	lbs/a	bu/a	
AC Sirius	4469	4645	4.56	4071	84.8	25
AC Sterling	4658	5462	5.06	4518	94.1	10
Albany	4309	4580	4.44	3964	82.6	27
Frin	4567	4510	4.54	4054	84.4	26
Lester	5091	4910	5.00	4464	93.0	11
Morrison	4753	5098	4.93	4402	91.7	14
Symko	4386	5340	4.86	4339	90.4	17
Wellington	5044	5104	5.07	4527	94.3	8
C8830	3869	5330	4.60	4107	85.6	24
C8832	4151	5461	4.81	4295	89.5	18
AC Burman	5013	5136	5.07	4527	94.3	8
AC Nadia	4979	6451	5.72	5107	106.4	3
AC Stephen	5620	5182	5.40	4821	100.4	7
Bella	5001	4509	4.76	4250	88.5	22
Chapais	6177	5591	5.88	5250	109.4	2
Codac	4681	4915	4.80	4286	89.3	19
Etienne	5584	5465	5.52	4929	102.7	4
Leger	4850	5037	4.94	4411	91.9	12
OAC Kippen	4314	5226	4.77	4259	88.7	21
Sabina	4763	5129	4.95	4420	92.1	12
TB 891-6	4183	5617	4.90	4375	91.1	15
BT 934	4277	5309	4.79	4277	89.1	19
GB 8901	5229	4161	4.70	4196	87.4	23
OB 967-34	5509	5374	5.44	4857	101.2	5
TBC 57-40	4399	5353	4.88	4357	90.8	16
OS88-10.23	5665	5141	5.40	4821	100.4	6
DB 68	5564	6283	5.92	5286	110.1	1
Mean	4856	5197	5.03	4488	93.5	-
C.V. %	7.8	5.4	-	-	-	-
LSD (0.05)	532	391	-	-	-	-

**TESTING AREA V  
BARLEY  
AGRONOMIC DATA, 1993**

Cultivar	Yield t/ha (3)*	hl/wt kg (4)	Kernel weight g/1000 (4)	Height cm (4)	Lodging 0-9 (3)	Maturity <sup>a</sup> days (2)	Net Blotch 0-9 (2)
AC Sirius	4.95	62.4	40.6	81	2.4	103	7.7
AC Sterling	5.19	65.5	44.2	81	1.3	104	7.0
Albany	4.77	62.6	43.4	76	1.3	103	7.6
Frin	4.25	62.3	42.5	71	1.5	104	7.9
Lester	5.41	64.1	43.3	74	2.2	103	7.7
Morrison	5.43	63.5	40.9	74	2.1	103	7.7
Symko	5.59	64.0	41.3	80	2.3	104	7.7
Wellington	4.45	63.9	40.6	73	0.8	104	7.5
C8830	4.88	61.2	40.6	72	0.4	104	7.5
C8832	5.37	62.3	39.3	73	0.5	104	7.5
AC Burman	5.16	57.4	34.6	85	1.9	103	7.5
AC Nadia	5.72	60.7	38.4	86	1.4	104	7.5
AC Stephen	4.95	60.1	35.9	82	3.0	103	7.5
Bella	5.45	60.3	37.1	80	1.3	103	7.5
Chapais	5.61	55.9	40.3	75	2.4	103	7.7
Codac	5.72	57.1	36.1	74	2.1	103	7.5
Etienne	5.05	58.1	36.5	79	2.2	104	7.2
Leger	5.48	59.7	39.5	91	2.0	104	7.7
OAC Kippen	5.44	60.7	36.2	86	3.1	103	7.5
Sabina	5.09	61.2	38.1	87	1.8	104	7.5
TB 891-6	4.73	57.5	34.6	81	2.9	104	7.5
BT 934	4.77	57.6	35.1	85	3.3	104	7.0
GB 8901	5.35	58.3	40.6	85	2.5	104	7.9
OB 967-34	4.96	58.3	39.7	82	2.4	104	7.5
TBC 57-40	5.54	60.6	38.4	91	2.3	104	7.5
OS88-10.23	6.38	61.8	43.5	84	1.9	103	7.5
DB 68	6.01	57.0	40.6	76	2.6	104	7.5

<sup>a</sup> no. of days from seeding to maturity

\* no. of locations

**TESTING AREA V  
BARLEY  
AGRONOMIC DATA, 1992-93**

Cultivar	Yield t/ha (7)*	hl/wt kg (8)	Kernel weight g/1000 (8)	Height cm (8)	Lodging 0-9 (4)	Maturity <sup>a</sup> days (4)	Net Blotch 0-9 (3)
AC Sirius	5.48	61.6	40.3	87	2.3	110	6.4
AC Sterling	5.65	63.8	45.0	84	1.3	112	5.9
Albany	5.56	62.2	43.2	78	1.5	111	6.9
Frin	5.11	61.6	43.0	73	2.4	111	7.3
Lester	5.82	63.5	43.9	74	1.9	110	6.5
Morrison	5.64	63.9	43.0	76	1.8	111	6.4
Symko	5.90	64.1	42.6	82	2.3	111	5.9
Wellington	5.08	63.6	40.6	75	0.8	112	6.3
AC Burman	5.59	59.2	37.0	90	2.0	108	6.8
AC Nadia	6.09	60.7	39.0	90	1.3	111	6.7
AC Stephen	5.52	61.7	40.1	85	2.5	110	6.7
Bella	5.78	60.8	37.5	83	1.5	110	6.8
Chapais	6.29	57.6	42.1	77	2.3	111	7.1
Codac	6.21	57.3	37.3	79	1.8	111	6.8
Etienne	5.61	59.3	37.1	84	1.9	110	6.6
Leger	5.82	60.3	38.8	94	1.7	110	6.9
OAC Kippen	5.89	61.1	36.4	89	2.6	110	6.3
Sabina	5.79	61.4	40.1	94	1.6	112	6.3
TB 891-6	5.68	59.8	37.1	86	2.5	111	6.8

<sup>a</sup> no. of days from seeding to maturity

\* no. of locations

**TESTING ARE V  
BARLEY  
AGRONOMIC DATA, 1991-93**

Cultivar	Yield t/ha (11)*	hl/wt kg (12)	Kernel weight g/1000 (11)	Height cm (13)	Lodging 0-9** (4)	Maturity <sup>a</sup> days (8)
AC Sirius	5.17	62.6	41.2	81	2.3	99
Albany	5.19	62.3	43.6	73	1.5	100
Frin	4.93	61.9	43.1	69	2.4	101
Lester	5.41	64.1	43.9	70	1.9	100
Morrison	5.33	64.5	43.4	74	1.8	100
Symko	5.50	64.2	43.3	78	2.3	100
AC Burman	5.43	59.7	36.6	84	2.0	98
AC Nadia	5.74	60.7	39.1	85	1.3	100
AC Stephen	5.21	61.2	39.9	81	2.5	99
Chapais	5.74	58.4	42.2	73	2.3	99
Codac	5.82	57.2	36.8	74	1.8	100
Etienne	5.40	59.9	38.1	80	1.9	99
Leger	5.55	60.2	38.2	89	1.7	99
OAC Kippen	5.60	61.3	36.7	85	2.6	99
Sabina	5.51	61.3	40.3	87	1.6	100
TB 891-6	5.48	60.9	37.1	80	2.5	100

\* no. of days from seeding to maturity; \*no. of locations; \*\*1992-93 data only

**AGRONOMIC DATA, 1990-93**

Cultivar	Yield t/ha (15)*	hl/wt kg (16)	Kernel weight g/1000 (12)	Height cm (14)	Lodging 0-9** (5)	Maturity <sup>a</sup> days (9)
Albany	4.98	61.8	42.8	74	1.4	99
Lester	5.14	63.6	43.2	71	1.9	99
Morrison	5.13	64.2	42.6	75	1.7	98
Symko	5.28	64.1	42.5	79	2.2	99
AC Burman	5.38	59.5	36.2	84	2.0	97
Chapais	5.66	58.5	42.0	74	2.0	98
Etienne	5.29	59.7	37.9	80	1.9	98
Leger	5.40	60.0	37.8	89	1.8	98
OAC Kippen	5.37	61.3	36.1	86	3.1	98
Sabina	5.24	60.8	39.6	87	1.7	100

\* no. of days from seeding to maturity; \* no. of locations; \*\* 1990, 1992-93 data only

**TESTING AREA V**  
**BARLEY**  
Yield in kg per ha, 1993

Cultivar	Nipissing District	Temiskaming	Thunder Bay	Rainy River District*	Average			Rank
					t/ha	lbs/a	bu/a	
AC Sirius	4313	5056	5478	4801	4.95	4419	92.1	20
AC Sterling	4854	5212	5517	5555	5.19	4638	96.6	15
Albany	3965	4779	5561	5683	4.77	4257	88.7	23
Frin	3993	4092	4673	5609	4.25	3797	79.1	27
Lester	4727	5941	5561	4715	5.41	4830	100.6	12
Morrison	4602	6100	5587	3200	5.43	4848	101.0	11
Symko	5074	6218	5465	3767	5.59	4987	103.9	6
Wellington	3861	4597	4905	4741	4.45	3977	82.9	26
C8830	4564	5006	5068	5014	4.88	4357	90.8	22
C8832	5243	5548	5320	5101	5.37	4795	99.9	13
AC Burman	4446	5775	5272	5962	5.16	4611	96.1	16
AC Nadia	4994	6145	6024	5969	5.72	5108	106.4	3
AC Stephen	4215	5241	5385	5733	4.95	4417	92.0	20
Bella	4870	6169	5310	5272	5.45	4866	101.4	9
Chapais	4720	6114	6001	4883	5.61	5010	104.4	5
Codac	5153	6435	5577	3961	5.72	5109	106.4	3
Etienne	4651	5208	5297	6201	5.05	4511	94.0	18
Leger	4871	6009	5552	5956	5.48	4890	101.9	8
OAC Kippen	4830	5931	5557	4535	5.44	4857	101.2	10
Sabina	4475	5411	5386	5343	5.09	4545	94.7	17
TB 891-6	4193	5646	4336	5368	4.73	4219	87.9	25
BT 934	4394	4669	5236	5519	4.77	4256	88.7	23
GB 8901	4509	6292	5261	6873	5.35	4780	99.6	14
OB 967-34	3919	5386	5582	5121	4.96	4431	92.3	19
TBC 57-40	4857	5870	5887	5664	5.54	4945	103.0	7
OS88-10.23	5694	7136	6310	6203	6.38	5696	118.7	1
DB 68	5370	6738	5909	4586	6.01	5362	111.7	2
Mean	4643	5619	5445	5234	5.24	4679	97.5	-
C.V. %	9.2	6.8	9.2	15.6	-	-	-	-
LSD (0.05)	244	219	707	1149	-	-	-	-

\* Data not included in average

**TESTING AREA VI  
BARLEY  
AGRONOMIC DATA, 1993**

Cultivar	Yield t/ha (1)*	hl/wt kg (1)	Kernel weight g/1000 (1)	Height cm (1)	Lodging 0-9 (1)	Maturity <sup>a</sup> days (1)
AC Sirius	4.71	71.8	45.6	85	1.5	98
AC Sterling	4.86	72.2	45.6	84	3.3	100
Albany	4.76	72.5	41.1	80	3.3	96
Frin	4.94	70.2	41.3	74	1.0	100
Lester	5.10	71.8	44.9	79	1.5	100
Morrison	5.37	72.4	45.2	90	2.0	101
Symko	4.75	70.9	43.9	87	2.3	100
Wellington	4.96	72.5	42.0	81	2.5	100
C8830	5.13	70.8	38.2	78	1.3	103
C8832	5.51	71.0	45.1	83	2.0	101
AC Burman	4.85	69.5	34.8	101	3.0	100
AC Nadia	5.59	71.9	38.4	105	2.8	100
AC Stephen	5.23	69.6	38.4	100	3.0	100
Bella	4.17	70.7	36.3	85	1.5	100
Chapais	4.60	68.1	46.0	79	1.8	103
Codac	4.42	68.7	40.4	84	2.0	101
Etienne	4.68	70.6	38.9	91	1.8	100
Leger	5.45	68.9	37.6	111	2.5	99
OAC Kippen	4.68	70.2	38.4	89	2.5	101
Sabina	4.80	68.9	36.9	98	4.3	101
TB 891-6	4.59	70.1	36.7	99	4.8	101
BT 934	5.27	68.1	38.7	104	5.0	99
GB 8901	5.29	67.2	42.1	100	4.3	101
OB 967-34	5.27	68.0	43.3	98	3.3	100
TBC 57-40	4.86	69.1	37.6	101	4.3	101
OS88-10.23	5.43	71.3	44.9	94	2.8	100
DB 68	5.23	66.3	42.5	81	3.0	102

<sup>a</sup> no. of days from seeding to maturity

\* no. of locations

**TESTING AREA VI  
BARLEY  
AGRONOMIC DATA, 1992-93**

Cultivar	Yield t/ha (2)*	hl/wt kg (2)	Kernel weight g/1000 (2)	Height cm (2)	Lodging 0-9 (2)	Maturity <sup>a</sup> days (2)
AC Sirius	4.73	69.7	44.5	83	1.3	103
AC Sterling	4.69	69.8	44.6	81	2.2	106
Albany	4.85	70.3	40.8	76	2.2	103
Frin	5.06	68.9	42.5	70	1.0	107
Lester	4.94	70.1	44.6	73	1.3	105
Morrison	4.96	70.5	44.7	85	1.5	107
Symko	4.60	69.5	43.9	85	1.7	105
Wellington	4.92	70.6	41.7	82	1.8	106
AC Burman	5.00	66.2	34.9	100	2.2	104
AC Nadia	5.32	67.1	36.9	101	1.9	105
AC Stephen	5.26	65.4	37.0	97	2.0	104
Bella	4.45	68.3	36.3	88	1.3	104
Chapais	5.30	65.2	45.4	78	1.4	106
Codac	5.00	64.3	37.9	84	2.0	106
Etienne	4.89	67.6	36.8	89	1.4	104
Leger	5.34	64.5	36.1	107	2.0	104
OAC Kippen	4.56	66.9	37.4	89	1.8	104
Sabina	5.15	67.0	36.6	99	2.7	105
TB 891-6	4.68	67.2	35.7	95	2.9	105

<sup>a</sup> no. of days from seeding to maturity

\* no. of locations

**TESTING AREA VI  
BARLEY  
AGRONOMIC DATA, 1991-93**

Cultivar	Yield t/ha (3)*	hl/wt kg (3)	Kernel weight g/1000 (3)	Height cm (3)	Lodging 0-9 (3)	Maturity <sup>a</sup> days (3)
AC Sirius	4.69	68.4	45.3	80	1.2	101
Albany	4.87	69.4	43.0	72	1.4	102
Frin	5.18	68.4	44.8	68	0.9	105
Lester	5.08	69.3	46.6	71	1.5	103
Morrison	5.11	70.0	46.1	79	1.7	105
Symko	4.71	69.2	45.3	80	1.4	104
AC Burman	5.11	65.9	36.6	95	1.6	103
AC Nadia	5.20	66.2	38.5	96	1.3	104
AC Stephen	5.12	64.7	39.1	93	1.4	102
Chapais	5.34	64.0	45.5	72	1.4	103
Codac	5.15	63.0	39.1	79	2.2	103
Etienne	4.98	66.8	37.6	82	1.4	102
Leger	5.48	64.1	38.4	101	1.4	103
OAC Kippen	4.81	66.2	38.5	87	1.7	103
Sabina	5.23	65.5	38.1	91	1.9	103
TB 891-6	4.69	66.3	37.3	89	2.4	104

\* no. of days from seeding to maturity; \*no. of locations

**AGRONOMIC DATA, 1990-93**

Cultivar	Yield t/ha (4)*	hl/wt kg (4)	Kernel weight g/1000 (4)	Height cm (4)	Lodging 0-9 (3)**	**Maturity <sup>a</sup> days (4)
Albany	4.09	66.6	40.1	70	4.3	103
Lester	4.31	67.0	43.4	69	4.5	104
Morrison	4.36	67.8	42.6	76	5.0	105
Symko	4.03	67.8	42.6	77	4.1	105
AC Burman	4.34	63.7	34.0	89	4.8	105
Chapais	4.71	62.6	42.7	69	4.3	104
Etienne	4.23	64.5	34.6	78	4.3	104
Leger	4.68	62.7	35.2	96	4.3	104
OAC Kippen	4.18	64.2	36.0	83	5.0	104
Sabina	4.49	63.5	34.6	87	5.6	104

\*no. of days from seeding to maturity; \* no. of locations; \*\* 1991-93 data only



**TESTING AREA VI  
BARLEY  
Yield in kg per ha, 1993**

Cultivar	Cochrane	Average			Rank
		t/ha	lbs/a	bu/a	
AC Sirius	4705	4.71	4205	87.6	21
AC Sterling	4862	4.86	4339	90.4	15
Albany	4761	4.76	4250	88.5	19
Frin	4936	4.94	4411	91.9	14
Lester	5102	5.10	4554	94.9	12
Morrison	5370	5.37	4795	99.9	5
Symko	4751	4.75	4241	88.4	20
Wellington	4964	4.96	4429	92.3	13
C8830	5130	5.13	4580	95.4	11
C8832	5508	5.51	4920	102.5	2
AC Burman	4853	4.85	4330	90.2	17
AC Nadia	5591	5.59	4991	104.0	1
AC Stephen	5231	5.23	4670	97.3	9
Bella	4170	4.17	3723	77.6	27
Chapais	4595	4.60	4107	85.6	24
Codac	4419	4.42	3946	82.2	26
Etienne	4678	4.68	4179	87.1	22
Leger	5453	5.45	4866	101.4	3
OAC Kippen	4678	4.68	4179	87.1	22
Sabina	4798	4.80	4286	89.3	18
TB 891-6	4585	4.59	4098	85.4	25
BT 934	5268	5.27	4705	98.0	7
GB 8901	5287	5.29	4723	98.4	6
OB 967-34	5268	5.27	4705	98.0	7
TBC 57-40	4862	4.86	4339	90.4	15
OS88-10.23	5434	5.43	4848	101.0	4
DB 68	5231	5.23	4670	97.3	9
Mean	4981	4.98	4446	92.6	-
C.V. %	7.0	-	-	-	-
LSD (0.05)	490	-	-	-	-

## DESCRIPTION OF CULTIVARS IN REGIONAL TESTS, 1993

### OATS

- AC Hunter** (OA 804-5) - a white-hulled oat developed by Agriculture Canada, Ottawa from the cross 01146-9/OT210. Registered in 1992.
- AC Rigodon** (QO 256.39) - a white-hulled oat developed by Agriculture Canada, Ste-Foy from the cross Ogle//2897/Kent/3/QO174.19. Registered in 1992.
- AC Stewart** (OA 796-15) - a yellow-hulled oat developed by Agriculture Canada, Ottawa from the cross 4\*Ogle/OT219. AC Stewart is essentially a rust resistant Ogle. Registered in 1991.
- Donegal** (TO 85025) - an oat developed by W.G. Thompson and Sons from the cross Ogle/QO183.3. Registered in 1991.
- Marion** - a Quebec (Ste. Foy) high yielding, early selection from the cross QO130.4/Q051.27. Maturity range between Ogle and OAC Woodstock. Large kernels high hectolitre weight and low % hull. Resistant to Victoria blight. Susceptible to smut, crown rust and septoria. Acceptable for milling. Registered in 1984.
- Newman** - daylength insensitive white oat developed by Agriculture Canada, Ottawa from backcross to Donald (Donald\*4/OT219). Registered in 1988.
- Ogle** - an Illinois selection (ILL73-2664, CI9401) from the cross BRAVE2 x TYLER EDGOLON23. It is an early, yellow oat with short straw and resistance to BYD, tolerant to crown rust, susceptible to smut. Acceptable for milling. Registered in 1984.
- Robert** - a tan-hulled oat developed by Agriculture Canada, Winnipeg from the cross OT212/RL3064. Robert has good crown rust resistance and tolerance to BYDV. Registered in 1988.
- Ultima** - an oat cultivar developed by Agriculture Canada (Ste. Foy), from the cross Manic//RL-2892/Kent. Registered in 1989.
- OA 899-2** - a white-hulled oat developed by Agriculture Canada, Ottawa from the cross 04202-228/04444. Not registered for sale in Canada.

- AC Hill**  
**(NO 826-3)** - a hulless oat developed by Agriculture Canada, Ottawa from the cross 01146-9/OT210. Registered in 1991.
- AC Lotta**  
**(NO 820-3)** - a hulless oat developed by Agriculture Canada, Ottawa from the cross 04186/OA501-1. AC Lotta is being marketed by C & M Seeds. Registered in 1991.
- NO 10-1** - a hulless oat developed by Agriculture Canada, Ottawa from the cross 04441/04102-297. Not registered for sale in Canada.
- NO 21-3** - a hulless oat developed by Agriculture Canada, Ottawa from the cross Tibour DO/DC 520-22-63//NO 763-2/04102-297. Not registered for sale in Canada.

**OATS**  
**MEAN YIELDS IN DIFFERENT AREAS\*, 1993**

	I (1)**		II (3)		III (1)		IV (2)		V (3)		VI (1)		PROVINCE*** (11)	
	t/ha	RANK	t/ha	RANK	t/ha	RANK	t/ha	RANK	t/ha	RANK	t/ha	RANK	t/ha	lbs/a
AC Hunter	3.04	7	3.45	6	4.52	8	5.47	1	5.64	7	5.55	4	4.66	4164
AC Rigodon	3.41	4	3.47	5	4.40	10	5.19	2	6.40	1	5.44	6	4.84	4325
AC Stewart	3.12	6	4.01	1	5.03	2	4.44	4	5.63	8	4.31	8	4.57	4084
Donegal	3.48	2	3.24	10	4.64	6	3.68	10	5.67	6	5.69	3	4.35	3887
Marion	2.61	9	3.64	4	4.86	5	4.32	5	6.26	2	5.76	2	4.69	4191
Newman	2.40	10	3.42	7	4.91	4	3.75	9	5.70	5	4.12	10	4.21	3762
Ogle	3.91	1	3.41	8	4.56	7	4.19	6	5.42	10	4.29	9	4.33	3870
Robert	3.44	3	3.72	3	4.48	9	5.19	2	5.61	9	5.92	1	4.75	4245
Ultima	3.28	5	3.37	9	5.09	1	4.02	8	5.93	3	5.55	4	4.53	4048
OA 899-2	3.03	8	3.86	2	4.95	3	4.19	6	5.81	4	4.89	7	4.57	4084
mean	3.17	-	3.56	-	4.74	-	4.44	-	5.81	-	5.15	-	4.55	4066
AC Hill <sup>1</sup>	0.56	4	1.65	4	3.07	4	2.37	4	3.50	4	3.30	3	2.46	2198
AC Lotta <sup>1</sup>	1.41	1	2.48	1	3.75	2	2.99	1	4.53	1	3.27	4	3.22	2878
NO 10-1 <sup>1</sup>	1.08	3	2.17	2	4.02	1	2.90	2	4.23	2	3.58	2	3.06	2735
NO 21-3 <sup>1</sup>	1.27	2	2.08	3	3.17	3	2.87	3	3.87	3	3.61	1	2.88	2574
mean <sup>1</sup>	1.08	-	2.09	-	3.50	-	2.78	-	4.03	-	3.44	-	2.91	2601
<b>TOTAL MEAN</b>	<b>2.57</b>	<b>-</b>	<b>3.14</b>	<b>-</b>	<b>4.39</b>	<b>-</b>	<b>3.97</b>	<b>-</b>	<b>5.30</b>	<b>-</b>	<b>4.66</b>	<b>-</b>	<b>4.08</b>	<b>3646</b>

\* See attached map

\*\* No. of locations

\*\*\* Weighted average

<sup>1</sup> hullless oats

OATS

MEAN YIELDS IN DIFFERENT AREAS\*, 1993

	I (1)**		II (3)		III (1)		IV (2)		V (3)		VI (1)		PROVINCE*** (11)	
	t/ha	RANK	t/ha	RANK	t/ha	RANK	t/ha	RANK	t/ha	RANK	t/ha	RANK	t/ha	lbs/a
AC Hunter	3.04	7	3.45	5	4.52	7	5.47	1	5.64	6	5.55	4	4.66	4164
AC Rigodon	3.41	4	3.47	4	4.40	9	5.19	2	6.40	1	5.44	6	4.84	4325
AC Stewart	3.12	6	4.01	1	5.03	2	4.44	4	5.63	7	4.31	7	4.57	4084
Donegal	3.48	2	3.24	9	4.64	5	3.68	9	5.67	5	5.69	3	4.35	3887
Marion	2.61	9	3.64	3	4.86	4	4.32	5	6.26	2	5.76	2	4.69	4191
Newman	2.40	9	3.42	6	4.91	3	3.75	8	5.70	4	4.12	9	4.21	3762
Ogle	3.91	1	3.41	7	4.56	6	4.19	6	5.42	9	4.29	8	4.33	3870
Robert	3.44	3	3.72	2	4.48	8	5.19	2	5.61	8	5.92	1	4.75	4245
Ultima	3.28	5	3.37	8	5.09	1	4.02	7	5.93	3	5.55	4	4.53	3084
mean	3.19	-	3.53	-	4.72	-	4.47	-	5.81	-	5.18	-	4.55	4063
AC Hill <sup>1</sup>	0.56	2	1.65	2	3.07	2	2.37	2	3.50	2	3.30	1	2.46	2198
AC Lotta <sup>1</sup>	1.41	1	2.48	1	3.75	1	2.99	1	4.53	1	3.27	2	3.22	2878
mean <sup>1</sup>	0.99	-	2.06	-	3.41	-	2.68	-	4.01	-	3.29	-	2.84	2536
TOTAL MEAN	2.79	-	3.26	-	4.48	-	3.66	-	5.48	-	4.84	-	4.24	3786

\* See attached map

\*\* No. of locations

\*\*\* Weighted average

<sup>1</sup> hullless oats

**OATS**  
**DATA EXPRESSED RELATIVE TO LOCATION MEANS, 1993**

Cultivar	I	II	III	IV	V	VI	PROVINCE
AC Hunter	95	98	96	122	97	107	102
AC Rigodon	107	98	93	116	110	105	106
AC Stewart	98	114	107	99	97	83	100
Donegal	109	92	98	82	98	110	96
Marion	82	103	103	97	108	111	103
Newman	75	97	104	84	98	80	93
Ogle	123	97	97	94	93	83	95
Robert	108	105	95	116	97	114	104
Ultima	103	95	108	90	102	107	100
mean yield t/ha	3.19	3.53	4.72	4.47	5.81	5.18	4.55
AC Hill <sup>1</sup>	57	80	90	88	87	100	87
AC Lotta <sup>1</sup>	142	120	110	112	113	99	113
mean yield t/ha <sup>1</sup>	0.99	2.06	3.41	2.68	4.01	3.29	2.84

<sup>1</sup>hullless oats

**OATS**  
**MEAN YIELDS IN DIFFERENT AREAS\*, 1992-93**

	I (3)**		II (6)		III (5)		IV (3)		V (6)		VI (2)		PROVINCE*** (25)	
	t/ha	RANK	t/ha	RANK	t/ha	RANK	t/ha	RANK	t/ha	RANK	t/ha	RANK	t/ha	lbs/a
AC Hunter	3.90	7	3.64	7	4.58	8	4.70	3	5.84	6	5.72	3	4.68	4179
AC Rigodon	4.34	3	3.92	2	4.86	6	4.57	2	6.50	1	5.58	5	4.98	4455
AC Stewart	4.33	4	3.92	2	4.97	4	4.02	4	5.51	7	4.64	7	4.63	4134
Donegal	4.75	1	3.57	8	5.07	2	3.74	8	6.31	3	5.91	1	4.88	4357
Marion	4.13	5	3.66	6	4.98	3	3.96	5	6.33	2	5.71	4	4.82	4304
Newman	3.58	9	3.32	9	4.14	9	3.24	9	5.45	8	4.40	9	4.16	3661
Ogle	4.56	2	3.74	5	4.65	7	3.82	7	5.37	9	4.63	8	4.49	4099
Robert	4.10	6	3.99	1	4.90	5	4.53	1	5.87	5	5.56	6	4.83	4313
Ultima	3.87	8	3.89	4	5.19	1	3.92	6	6.31	3	5.80	2	4.88	4357
mean	4.17	-	3.74	-	4.81	-	4.06	-	5.94	-	5.33	-	4.70	4196
AC Hill <sup>1</sup>	1.84	2	2.19	2	3.33	2	2.47	1	3.98	2	3.59	2	2.95	2634
AC Lotta <sup>1</sup>	2.54	1	2.64	1	3.37	1	2.47	1	4.42	1	3.49	1	3.25	2902
mean <sup>1</sup>	2.19	-	2.42	-	3.35	-	2.47	-	4.20	-	3.54	-	3.10	2768
<b>TOTAL MEAN</b>	<b>3.81</b>	<b>-</b>	<b>3.50</b>	<b>-</b>	<b>4.55</b>	<b>-</b>	<b>3.79</b>	<b>-</b>	<b>5.63</b>	<b>-</b>	<b>5.00</b>	<b>-</b>	<b>4.41</b>	<b>3893</b>

\* See attached map  
 \*\* No. of locations  
 \*\*\* Weighted average  
<sup>1</sup> hullless oats

ONLY EXISTING CITY MAP TO INCLUDE AREAS 1992  
 0-12

**OATS**  
**DATA EXPRESSED RELATIVE TO LOCATION MEANS, 1992-93**

Cultivar	I	II	III	IV	V	VI	PROVINCE
AC Hunter	94	97	95	116	98	107	100
AC Rigodon	104	105	101	113	109	105	106
AC Stewart	104	105	103	99	93	87	99
Donegal	114	95	105	92	106	111	104
Marion	99	98	104	98	107	107	103
Newman	86	89	86	80	92	83	87
Ogle	109	100	97	94	90	87	96
Robert	98	107	102	112	99	104	103
Ultima	93	104	108	97	106	109	104
mean yield t/ha	4.17	3.74	4.81	4.06	5.94	5.33	4.70
AC Hill <sup>1</sup>	84	90	100	100	95	101	95
AC Lotta <sup>1</sup>	116	109	101	100	105	99	105
mean yield t/ha <sup>1</sup>	2.19	2.42	3.35	2.47	4.20	3.54	3.10

<sup>1</sup>hulless oats



**OATS**  
**MEAN YIELDS IN DIFFERENT AREAS\*, 1991-93**

	I (5)**		II (9)		III (11)		IV (4)		V (10)		VI (3)		PROVINCE*** (42)	
	t/ha	RANK	t/ha	RANK	t/ha	RANK	t/ha	RANK	t/ha	RANK	t/ha	RANK	t/ha	lbs/a
AC Hunter	3.37	6	3.45	4	4.17	6	4.65	2	5.69	5	5.85	3	4.45	3969
AC Rigodon	3.62	4	3.60	3	4.26	2	4.66	1	6.19	1	5.75	5	4.65	4149
AC Stewart	3.78	3	3.73	2	4.13	7	4.32	4	5.18	7	5.07	8	4.34	3873
Donegal	3.88	1	3.11	8	4.26	2	4.01	8	5.89	4	6.08	1	4.46	3986
Marion	3.30	7	3.20	7	4.24	5	4.21	5	5.98	3	6.02	2	4.45	3969
Newman	3.05	9	3.09	9	3.76	9	3.59	9	5.16	8	4.87	9	3.93	3507
Ogle	3.79	2	3.40	5	3.96	8	4.18	6	5.01	9	5.12	7	4.18	3728
Robert	3.46	5	3.80	1	4.26	2	4.65	2	5.56	6	5.71	6	4.52	4034
Ultima†	3.08	8	3.39	6	4.57	1	4.16	7	6.05	2	5.81	4	4.54	4053
mean	3.48	-	3.42	-	4.18	-	4.27	-	5.63	-	5.59	-	4.39	3920
AC Hill <sup>1</sup>	1.32	2	2.03	2	2.94	2	2.66	2	3.68	2	3.86	2	2.77	2472
AC Lotta <sup>1</sup>	1.86	1	2.49	1	3.00	1	2.98	1	4.14	1	4.01	1	3.10	2766
mean <sup>1</sup>	1.59	-	2.26	-	2.97	-	2.82	-	3.91	-	3.94	-	2.94	2625
<b>TOTAL MEAN</b>	<b>3.14</b>	<b>-</b>	<b>3.21</b>	<b>-</b>	<b>3.96</b>	<b>-</b>	<b>4.01</b>	<b>-</b>	<b>5.32</b>	<b>-</b>	<b>5.29</b>	<b>-</b>	<b>4.13</b>	<b>3688</b>

\* See attached map  
 \*\* No. of locations  
 \*\*\* Weighted average  
 † hullless oats

2025 RELEASE UNDER E.O. 14176

**OATS**  
**DATA EXPRESSED RELATIVE TO LOCATION MEANS, 1991-93**

Cultivar	I	II	III	IV	V	VI	PROVINCE
AC Hunter	97	101	100	109	101	105	101
AC Rigodon	104	105	102	109	110	103	106
AC Stewart	109	109	99	101	92	91	99
Donegal	111	91	102	94	105	109	102
Marion	95	94	102	99	106	108	101
Newman	88	90	90	84	92	87	90
Ogle	109	99	95	98	89	92	95
Robert	99	111	102	109	99	102	103
Ultima	89	99	109	97	107	104	103
mean yield t/ha	3.48	3.42	4.18	4.27	5.63	5.59	4.39
AC Hill <sup>1</sup>	83	90	99	94	94	98	94
AC Lotta <sup>1</sup>	117	110	101	106	106	102	106
mean yield t/ha <sup>1</sup>	1.59	2.26	2.97	2.82	3.91	3.94	2.94

<sup>1</sup> hulless oats

**OATS**  
**MEAN YIELDS IN DIFFERENT AREAS\*, 1990-93**

	I (6)**		II (12)		III (16)		IV (5)		V (14)		VI (13)****		PROVINCE*** (56)	
	t/ha	RANK	t/ha	RANK	t/ha	RANK	t/ha	RANK	t/ha	RANK	t/ha	RANK	t/ha	lbs/a
Donegal	4.03	1	3.34	3	4.02	2	4.30	4	5.53	1	6.08	1	4.39	3916
Marion	3.34	3	3.33	4	3.95	3	4.40	2	5.43	2	6.02	2	4.27	3816
Newman	3.19	4	3.22	5	3.54	5	3.87	5	4.87	5	4.87	5	3.87	3452
Ogle	3.99	2	3.61	1	3.71	4	4.46	1	5.03	4	5.12	4	4.19	3743
Ultima	3.12	5	3.41	2	4.12	1	4.40	2	5.37	3	5.81	3	4.29	3830
mean	3.53	-	3.38	-	3.87	-	4.29	-	5.25	-	5.58	-	4.20	3750

\* See attached map  
 \*\* No. of locations  
 \*\*\* Weighted average  
 \*\*\*\* 1991-93 data only

**DATA EXPRESSED RELATIVE TO LOCATION MEANS, 1990-93**

Cultivar	I	II	III	IV	V	*VI	PROVINCE
Donegal	114	99	104	100	105	109	104
Marion	95	99	102	103	103	108	102
Newman	90	95	91	90	93	87	92
Ogle	113	107	96	104	96	92	100
Ultima	88	101	107	103	102	104	102
mean yield t/ha	3.53	3.38	3.87	4.29	5.25	5.58	4.20

\* 1991-1993 data only

**TESTING AREA I  
OATS  
AGRONOMIC DATA, 1993**

Cultivar	Yield t/ha (1)*	hl/wt kg (1)	Kernel weight g/1000 (1)	Height cm (1)	Lodging 0-9 (1)	Maturity <sup>a</sup> days (1)	B.Y.D.V. 0-9 (1)	Septoria 0-9 (1)
AC Hunter	3.04	47.7	35.4	99	1.0	106	3.5	2.0
AC Rigodon	3.41	52.6	35.8	96	0.8	105	1.5	1.5
AC Stewart	3.12	51.2	37.1	87	1.0	98	1.5	1.5
Donegal	3.48	51.1	35.9	96	2.0	104	1.0	2.0
Marion	2.61	51.5	30.9	104	1.8	105	4.5	2.0
Newman	2.40	48.6	35.0	89	2.2	105	2.0	4.0
Ogle	3.91	49.9	30.3	88	0.5	98	0.5	1.5
Robert	3.44	52.5	35.4	86	1.8	104	1.0	1.5
Ultima	3.28	46.2	29.2	90	0.5	103	3.5	2.0
OA 899-2	3.03	51.9	37.0	88	0.2	105	2.5	1.5
AC Hill	0.56	53.9	25.8	90	0.8	107	7.5	1.5
AC Lotta	4.41	63.2	20.8	93	1.5	105	4.0	2.0
NO 10-1	1.08	62.0	23.0	88	1.2	105	6.5	2.0
NO 21-3	1.27	62.9	21.6	91	3.0	105	6.5	2.5

<sup>a</sup> no. of days from seeding to maturity

\* no. of locations

**AGRONOMIC DATA, 1992-93**

Cultivar	Yield t/ha (3)*	hl/wt kg (3)	Kernel weight g/1000 (2)	Height cm (3)	Lodging 0-9 (3)	Maturity <sup>a</sup> days (2)	Septoria 0-9 (2)
AC Hunter	3.90	40.8	38.2	110	2.7	105	1.5
AC Rigodon	4.34	45.7	35.7	110	1.9	105	2.3
AC Stewart	4.33	43.7	38.3	91	2.3	98	1.3
Donegal	4.75	45.0	37.6	104	3.7	104	1.5
Marion	4.13	44.8	37.3	112	3.3	103	2.0
Newman	3.58	42.7	37.1	99	4.7	102	3.0
Ogle	4.56	44.3	30.6	92	1.8	98	1.3
Robert	4.10	46.8	36.9	97	3.6	103	1.3
Ultima	3.87	41.8	30.3	101	1.5	103	2.0
AC Hill	1.84	51.8	27.3	117	1.3	106	1.8
AC Lotta	2.54	54.8	24.0	106	2.8	103	2.0

<sup>a</sup> no. of days from seeding to maturity

\* no. of locations

**TESTING AREA I  
OATS  
AGRONOMIC DATA, 1991-93**

Cultivar	Yield t/ha (5)*	hl/wt kg (5)	Kernel weight g/1000** (2)	Height cm (5)	Lodging 0-9 (4)	Maturity* days (3)
AC Hunter	3.37	39.8	38.2	102	2.1	102
AC Rigodon	3.62	43.3	35.7	101	1.5	102
AC Stewart	3.78	42.9	38.3	86	1.8	95
Donegal	3.88	43.2	37.6	99	3.0	101
Marion	3.30	42.4	37.3	106	3.0	98
Newman	3.05	43.0	37.1	96	3.8	99
Ogle	3.79	42.9	30.6	87	1.5	95
Robert	3.46	44.9	36.9	92	2.8	100
Ultima	3.08	40.0	30.3	96	1.1	100
AC Hill	1.32	52.1	27.3	110	1.0	103
AC Lotta	1.86	54.9	24.0	100	2.1	101

\* no. of days from seeding to maturity

\* no. of locations

\*\* 1992-93 data only

**AGRONOMIC DATA, 1990-93**

Cultivar	Yield t/ha (6)*	hl/wt kg (6)	Kernel weight g/1000** (2)	Height cm (6)	Lodging 0-9 (5)	Maturity* days (4)
Donegal	4.03	43.4	37.6	102	3.0	103
Marion	3.34	41.9	37.3	108	2.8	101
Newman	3.19	43.1	37.1	98	3.6	100
Ogle	3.99	43.3	30.6	89	1.6	96
Ultima	3.12	40.1	30.3	97	1.3	102

\* no. of days from seeding to maturity

\* no. of locations

\*\* 1992-93 data only

**TESTING AREA I**  
**OATS**  
**Yield in kg per ha, 1993**

Cultivar	Kent I	Average			Rank
		t/ha	lb/a	bu/a	
AC Hunter	3039	3.04	2714	79.8	7
AC Rigodon	3414	3.41	3045	89.5	4
AC Stewart	3119	3.12	2786	81.9	6
Donegal	3475	3.48	3107	91.4	2
Marion	2608	2.61	2330	68.5	9
Newman	2402	2.40	2143	63.0	10
Ogle	3906	3.91	3491	102.7	1
Robert	3444	3.44	3071	90.3	3
Ultima	3278	3.28	2929	86.1	5
OA 899-2	3026	3.03	2705	79.6	8
AC Hill	560	0.56	500	-	14
AC Lotta	1405	1.41	1259	-	11
NO 10-1	1083	1.08	964	-	13
NO 21-3	1270	1.27	1134	-	12
Mean	2574	2.57	2295	-	-
C.V. %	14.9	-	-	-	-
LSD (0.05)	549	-	-	-	-

**TESTING AREA II  
OATS  
AGRONOMIC DATA, 1993**

Cultivar	Yield t/ha (3)*	hl/wt kg (3)	Kernel weight g/1000 (3)	Height cm (3)	Lodging 0-9 (2)	Maturity <sup>a</sup> days (1)	Leaf Rust 0-9 (2)	Septoria 0-9 (3)	BYDV 0-9 (2)
AC Hunter	3.45	46.2	34.7	109	3.0	87	0.0	5.2	3.5
AC Rigodon	3.47	46.7	31.2	107	1.0	87	2.0	4.3	3.3
AC Stewart	4.01	45.7	34.9	98	0.4	86	3.0	6.5	3.5
Donegal	3.24	41.5	30.2	108	0.8	87	5.5	3.8	2.5
Marion	3.64	44.6	34.0	112	4.4	86	4.0	5.7	4.5
Newman	3.42	43.9	32.8	106	2.2	86	3.0	7.7	4.5
Ogle	3.42	45.0	29.5	94	0.9	86	4.0	5.8	3.8
Robert	3.72	47.4	34.4	96	0.0	86	0.0	5.7	4.5
Ultima	3.37	44.6	28.6	95	0.0	87	3.8	5.7	3.8
OA 899-2	3.86	49.8	38.0	102	0.2	87	2.5	6.3	3.3
AC Hill	1.65	51.9	23.9	116	0.7	87	2.8	4.2	3.5
AC Lotta	2.48	53.2	24.1	109	2.8	86	3.3	6.5	4.3
NO 10-1	2.17	52.6	24.5	102	0.9	86	4.5	6.8	5.0
NO 21-3	2.08	53.3	27.5	106	4.3	85	2.0	7.7	5.8

<sup>a</sup> no. of days from seeding to maturity

\* no. of locations

**AGRONOMIC DATA, 1992-93**

Cultivar	Yield t/ha (6)*	hl/wt kg (6)	Kernel weight g/1000 (6)	Height cm (6)	Lodging 0-9 (4)	Maturity <sup>a</sup> days (2)	Leaf Rust 0-9 (3)	Septoria 0-9 (6)
AC Hunter	3.64	45.4	35.4	113	2.0	95	0.0	5.7
AC Rigodon	3.92	49.4	34.4	113	1.9	94	1.5	4.1
AC Stewart	3.92	46.0	36.4	93	1.4	93	2.0	6.3
Donegal	3.57	44.7	34.0	112	3.9	94	4.8	4.3
Marion	3.66	45.9	35.5	116	5.4	92	3.0	5.2
Newman	3.32	44.7	34.5	105	3.6	93	1.5	7.0
Ogle	3.74	46.8	32.2	95	2.1	92	2.5	5.8
Robert	3.99	48.5	36.4	99	0.5	94	0.0	6.0
Ultima	3.89	46.4	30.8	101	2.8	95	2.9	5.3
AC Hill	2.19	56.1	27.8	126	1.2	94	1.4	4.3
AC Lotta	2.64	55.5	26.9	110	3.0	93	1.7	5.9

<sup>a</sup> no. of days from seeding to maturity

\* no. of locations

**TESTING AREA II  
OATS  
AGRONOMIC DATA, 1991-93**

Cultivar	Yield t/ha (9)*	hl/wt kg (9)	Kernel weight g/1000 (9)	Height cm (7)	Lodging 0-9 (6)	Maturity <sup>a</sup> days (4)	Leaf Rust 0-9 (4)	Septoria 0-9 (8)
AC Hunter	3.45	43.8	35.5	110	2.3	92	0.0	4.9
AC Rigodon	3.60	46.5	35.0	109	2.6	92	2.6	3.8
AC Stewart	3.73	44.6	36.6	91	2.1	90	2.2	5.6
Donegal	3.11	41.8	32.0	109	3.4	92	5.5	3.7
Marion	3.20	43.2	33.7	112	5.1	90	3.0	4.6
Newman	3.09	44.2	34.3	102	3.9	90	1.5	6.2
Ogle	3.40	44.6	31.1	92	2.6	89	3.7	5.2
Robert	3.80	47.0	37.0	96	1.0	91	0.0	5.2
Ultima	3.39	43.8	30.0	99	2.7	92	2.9	5.0
AC Hill	2.03	54.3	27.7	122	1.8	92	1.6	4.0
AC Lotta	2.49	54.8	26.1	108	3.4	91	2.0	5.1

<sup>a</sup> no. of days from seeding to maturity

\* no. of locations

**AGRONOMIC DATA, 1990-93**

Cultivar	Yield t/ha (12)*	hl/wt kg (12)	Kernel weight g/1000 (12)	Height cm (10)	Lodging 0-9 (8)	Maturity <sup>a</sup> days (5)	Leaf Rust 0-9 (6)	Septoria 0-9 (10)
Donegal	3.34	43.6	33.2	108	3.3	93	5.6	3.9
Marion	3.33	44.0	34.5	113	4.7	92	5.1	4.8
Newman	3.22	44.7	34.7	103	4.0	92	1.1	6.3
Ogle	3.61	46.0	31.8	92	2.0	91	4.1	5.3
Ultima	3.41	43.9	30.4	99	2.4	94	4.5	5.2

<sup>a</sup> no. of days from seeding to maturity

\* no. of locations



**TESTING AREA II**  
**OATS**  
**Yield in kg per ha, 1993**

Cultivar	Oxford	Huron	Middlesex I	Average			Rank
				t/ha	lbs/a	bu/a	
AC Hunter	3140	3972	3238	3.45	3080	90.6	6
AC Rigodon	3095	3851	3455	3.47	3098	91.1	5
AC Stewart	3787	4419	3826	4.01	3580	105.3	1
Donegal	2458	3779	3474	3.24	2893	85.1	10
Marion	3176	3755	3994	3.64	3250	95.6	4
Newman	2977	3538	3741	3.42	3054	89.8	7
Ogle	2896	3948	3400	3.41	3045	89.5	8
Robert	4137	3525	3506	3.72	3321	97.7	3
Ultima	2783	3731	3589	3.37	3009	88.5	9
OA 899-2	3370	4250	3953	3.86	3446	101.4	2
AC Hill	1140	1992	1818	1.65	1473	-	14
AC Lotta	2075	2656	2699	2.48	2214	-	11
NO 10-1	1836	2451	2224	2.17	1938	-	12
NO 21-3	2156	2282	1811	2.08	1857	-	13
Mean	2787	3440	3195	3.14	2804	-	-
C.V. %	8.8	7.3	6.8	7.6	-	-	-
LSD (0.05)	351	360	309	0.34	-	-	-

**TESTING AREA III  
OATS  
AGRONOMIC DATA, 1993**

Cultivar	Yield t/ha (1)*	hl/wt kg (1)	Kernel weight g/1000 (1)	Height cm (1)	Lodging 0-9 (1)	Maturity <sup>a</sup> days (1)
AC Hunter	4.52	43.0	35.2	115	1.0	92
AC Rigodon	4.40	48.0	37.6	113	1.0	92
AC Stewart	5.03	45.5	39.6	97	1.0	90
Donegal	4.64	45.0	39.6	107	1.0	90
Marion	4.86	48.5	39.2	119	3.5	90
Newman	4.91	45.0	37.6	114	4.0	90
Ogle	4.56	45.0	29.2	97	1.0	90
Robert	4.48	47.0	40.0	100	1.0	92
Ultima	5.09	44.0	38.4	99	1.0	90
OA 899-2	4.95	48.5	43.6	117	1.0	92
AC Hill	3.07	49.0	32.0	123	1.0	93
AC Lotta	3.75	47.5	26.0	130	1.0	92
NO 10-1	4.02	51.0	32.4	117	1.0	92
NO 21-3	3.17	54.0	32.8	123	5.0	90

<sup>a</sup> no. of days from seeding to maturity

\* no. of locations

**AGRONOMIC DATA, 1992-93**

Cultivar	Yield t/ha (5)*	hl/wt kg (5)	Kernel weight g/1000 (4)	Height cm (5)	Lodging 0-9 (3)	Maturity <sup>a</sup> days (3)
AC Hunter	4.58	41.9	37.8	120	3.3	99
AC Rigodon	4.86	47.1	41.6	118	2.9	99
AC Stewart	4.97	45.0	40.7	102	1.5	98
Donegal	5.07	45.2	39.3	116	3.5	98
Marion	4.98	48.3	40.2	125	3.4	99
Newman	4.14	45.8	40.1	115	3.3	98
Ogle	4.65	45.2	32.4	98	0.5	97
Robert	4.90	46.4	31.1	107	2.7	99
Ultima	5.19	44.2	38.6	110	2.7	98
AC Hill	3.33	51.1	31.9	131	3.2	99
AC Lotta	3.37	50.3	30.1	120	1.7	99

<sup>a</sup> no. of days from seeding to maturity

\* no. of locations

**TESTING AREA III  
OATS  
AGRONOMIC DATA, 1991-93**

Cultivar	Yield t/ha (11)*	hl/wt kg (11)	Kernel weight g/1000 (10)	Height cm (11)	Lodging 0-9 (5)	Maturity <sup>a</sup> days (6)
AC Hunter	4.17	46.9	37.5	102	2.3	90
AC Rigodon	4.26	48.4	38.4	102	1.9	90
AC Stewart	4.13	46.6	39.6	92	1.2	89
Donegal	4.26	46.5	35.8	101	2.5	90
Marion	4.24	48.7	37.1	107	2.8	89
Newman	3.76	48.9	38.9	98	2.8	89
Ogle	3.96	47.1	30.7	85	0.5	87
Robert	4.26	48.1	35.2	94	2.6	90
Ultima	4.57	46.8	35.4	97	1.8	90
AC Hill	2.94	63.0	30.2	115	2.1	91
AC Lotta	3.00	51.9	29.5	106	1.2	89

<sup>a</sup> no. of days from seeding to maturity

\* no. of locations

**AGRONOMIC DATA, 1990-93**

Cultivar	Yield t/ha (16)*	hl/wt kg (17)	Kernel weight g/1000 (16)	Height cm (17)	Lodging 0-9 (8)	Maturity <sup>a</sup> days (9)
Donegal	4.02	46.9	37.1	103	3.8	93
Marion	3.95	48.6	38.1	109	3.2	93
Newman	3.54	49.2	38.8	100	3.6	92
Ogle	3.71	47.3	31.4	88	1.6	91
Ultima	4.12	46.1	34.7	98	2.4	93

<sup>a</sup> no. of days from seeding to maturity

\* no. of locations

**TESTING AREA III  
OATS  
Yield in kg per ha, 1993**

Cultivar	Carleton I	Average			Rank
		t/ha	lb/a	bu/a	
AC Hunter	4254	4.52	4036	118.7	8
AC Rigodon	4399	4.40	3929	115.5	10
AC Stewart	5025	5.03	4491	132.1	2
Donegal	4637	4.64	4143	121.8	6
Marion	4858	4.86	4339	127.6	5
Newman	4912	4.91	4384	128.9	4
Ogle	4563	4.56	4071	119.7	7
Robert	4481	4.48	4000	117.6	9
Ultima	5090	5.09	4545	133.7	1
OA 899-2	4949	4.95	4420	130.0	3
AC Hill	3070	3.07	2741	-	14
AC Lotta	3749	3.75	3348	-	12
NO 10-1	4020	4.02	3589	-	11
NO 21-3	3169	3.17	2830	-	13
Mean	4389	4.39	3920	-	-
C.V. %	7.5	-	-	-	-
LSD (0.05)	468	-	-	-	-

**TESTING AREA IV  
OATS  
AGRONOMIC DATA, 1993**

Cultivar	Yield t/ha (2)*	hl/wt kg (2)	Kernel weight g/1000 (2)	Height cm (2)	Lodging 0-9 (2)	Maturity <sup>a</sup> days (1)	Leaf Rust 0-9 (1)	Septoria 0-9 (1)
AC Hunter	4.66	46.3	34.6	122	0.7	101	0	5
AC Rigodon	4.84	47.8	34.7	112	0.4	100	4	3
AC Stewart	4.57	47.2	36.5	102	0.3	95	5	6
Donegal	4.35	45.1	27.5	113	1.8	98	8	4
Marion	4.69	46.2	31.9	121	1.5	95	7	4
Newman	4.21	45.0	35.4	107	2.5	98	5	7
Ogle	4.33	44.7	29.5	100	0.5	96	6	5
Robert	4.75	48.3	34.6	104	0.2	101	0	4
Ultima	4.53	42.2	30.6	107	0.2	103	5	4
OA 899-2	4.57	48.2	36.3	110	0.4	100	4	6
AC Hill	2.46	54.9	24.4	123	0.9	103	3	3
AC Lotta	3.22	56.6	24.4	119	0.8	100	4	6
NO 10-1	3.06	55.6	24.3	115	0.4	98	8	6
NO 21-3	2.88	57.3	24.2	110	4.2	97	4	8

<sup>a</sup> no. of days from seeding to maturity

\* no. of locations

**AGRONOMIC DATA, 1992-93**

Cultivar	Yield t/ha (3)*	hl/wt kg (3)	Kernel weight g/1000 (3)	Height cm (4)	Lodging 0-9 (3)	Maturity <sup>a</sup> days** (1)	Septoria 0-9 (3)
AC Hunter	4.70	42.5	34.6	118	1.4	101	5.6
AC Rigodon	4.57	45.8	35.9	115	1.9	100	2.3
AC Stewart	4.02	43.1	37.5	100	0.2	95	3.8
Donegal	3.74	43.0	31.1	112	1.2	98	2.9
Marion	3.96	43.0	33.2	121	1.0	95	3.5
Newman	3.24	41.5	34.3	108	1.7	98	5.2
Ogle	3.82	42.3	30.0	98	0.3	96	3.2
Robert	4.53	45.2	36.4	104	0.1	101	3.7
Ultima	3.92	40.7	32.0	108	0.1	103	4.0
AC Hill	2.47	53.4	25.9	124	0.6	103	3.9
AC Lotta	2.47	54.1	24.8	119	0.5	100	4.2

<sup>a</sup> no. of days from seeding to maturity

\* no. of locations

\*\* 1993 data only

**TESTING AREA IV  
OATS  
AGRONOMIC DATA, 1991-93**

Cultivar	Yield t/ha (4)*	hl/wt kg (4)	Kernel weight g/1000 (4)	Height cm (5)	Lodging 0-9 (4)	Maturity <sup>a</sup> days** (2)	Septoria 0-9 (4)
AC Hunter	4.65	43.9	35.2	113	2.5	95	5.2
AC Rigodon	4.66	47.5	36.3	111	2.8	94	2.1
AC Stewart	4.32	44.7	39.2	95	0.4	88	3.7
Donegal	4.01	45.2	33.7	108	1.3	93	3.7
Marion	4.21	44.7	35.4	116	2.0	90	3.6
Newman	3.59	44.2	35.4	102	2.0	92	5.4
Ogle	4.19	44.5	31.6	95	0.4	89	3.5
Robert	4.65	46.7	38.6	100	0.2	94	3.8
Ultima	4.16	43.0	32.9	102	0.1	95	3.9
AC Hill	2.66	55.5	27.8	119	1.6	95	3.8
AC Lotta	2.98	55.6	26.1	113	0.8	92	4.2

<sup>a</sup> no. of days from seeding to maturity

\* no. of locations

\*\* 1991 & 1993 data only

**AGRONOMIC DATA, 1990-93**

Cultivar	Yield t/ha (5)*	hl/wt kg (5)	Kernel weight g/1000 (5)	Height cm (6)	Lodging 0-9** (4)	Maturity <sup>a</sup> days*** (3)	Septoria 0-9 (5)
Donegal	4.30	46.1	34.6	107	1.3	96	4.0
Marion	4.40	46.0	36.3	115	2.0	93	3.9
Newman	3.87	45.8	36.3	102	2.0	94	5.7
Ogle	4.46	45.4	31.9	95	0.4	92	3.7
Ultima	4.40	43.9	33.1	101	0.1	97	4.1

<sup>a</sup> no. of days from seeding to maturity

\* no. of locations

\*\* 1991-1993 data only

\*\*\* 1990-91 & 1993 data only

**TESTING AREA IV  
OATS  
Yield in kg per ha, 1993**

Cultivar	Wellington I	Wellington	Average			Rank
			t/ha	lb/a	bu/a	
AC Hunter	5741	5190	5.47	4884	143.6	1
AC Rigodon	5068	5306	5.19	4634	136.3	2
AC Stewart	4487	4399	4.44	3964	116.6	4
Donegal	3947	3412	3.68	3286	96.6	10
Marion	4154	4487	4.32	3887	113.4	5
Newman	3924	3675	3.75	3348	98.5	9
Ogle	4297	4073	4.19	3741	110.0	6
Robert	5414	4972	5.19	4634	136.3	2
Ultima	4281	3750	4.02	3589	105.6	8
OA 899-2	4051	4327	4.19	3741	110.0	6
AC Hill	2624	2108	2.37	2116	-	14
AC Lotta	2977	3005	2.99	2670	-	11
NO 10-1	2870	2928	2.90	2589	-	12
NO 21-3	3304	2431	2.87	2563	-	13
Mean	4074	3862	3.97	3545	-	-
C.V. %	8.3	12.2	-	-	-	-
LSD (0.05)	481	791	-	-	-	-

**TESTING AREA V  
OATS  
AGRONOMIC DATA, 1993**

Cultivar	Yield t/ha (3)*	hl/wt kg (3)	Kernel weight g/1000 (3)	Height cm (4)	Lodging 0-9 (3)	Maturity <sup>a</sup> days (3)
AC Hunter	5.64	47.8	38.3	116	1.2	109
AC Rigodon	6.40	49.6	38.8	115	1.3	108
AC Stewart	5.63	48.2	40.0	102	0.7	107
Donegal	5.67	49.2	39.7	114	1.3	108
Marion	6.26	51.5	41.0	121	1.1	108
Newman	5.70	48.6	40.2	113	5.6	107
Ogle	5.43	47.8	34.4	97	0.4	106
Robert	5.61	48.9	40.2	105	0.7	108
Ultima	5.93	50.2	34.9	107	0.3	108
OA 899-2	5.81	52.0	43.6	112	0.6	109
AC Hill	3.50	53.7	33.1	120	0.1	110
AC Lotta	4.53	54.1	30.1	115	0.3	108
NO 10-1	4.23	55.9	30.4	112	0.3	109
NO 21-3	3.87	56.0	29.4	113	3.9	108

<sup>a</sup> no. of days from seeding to maturity

\* no. of locations

**AGRONOMIC DATA, 1992-93**

Cultivar	Yield t/ha (6)*	hl/wt kg (7)	Kernel weight g/1000 (7)	Height cm (8)	Lodging 0-9 (5)	Maturity <sup>a</sup> days (6)
AC Hunter	5.84	48.3	38.5	113	1.8	113
AC Rigodon	6.50	49.2	39.3	109	2.3	112
AC Stewart	5.51	46.4	38.3	96	1.7	112
Donegal	6.31	47.7	39.1	108	2.3	114
Marion	6.33	50.6	37.7	119	2.3	112
Newman	5.45	48.3	38.5	106	5.5	113
Ogle	5.37	47.4	32.9	93	1.6	112
Robert	5.87	47.8	39.5	101	1.8	113
Ultima	6.31	48.3	34.7	104	1.5	112
AC Hill	3.98	52.8	32.7	118	1.3	115
AC Lotta	4.42	53.4	32.9	113	2.1	113

<sup>a</sup> no. of days from seeding to maturity

\* no. of locations



**TESTING AREA V  
OATS  
AGRONOMIC DATA, 1991-93**

Cultivar	Yield t/ha (10)*	hl/wt kg (11)	Kernel weight g/1000 (11)	Height cm (13)	Lodging 0-9 (7)	Maturity <sup>a</sup> days (10)
AC Hunter	5.69	48.6	36.9	109	2.2	105
AC Rigodon	6.19	50.3	38.1	107	2.2	104
AC Stewart	5.18	46.9	37.7	92	1.5	102
Donegal	5.89	48.2	37.8	106	2.4	105
Marion	5.98	51.0	37.5	113	2.3	103
Newman	5.16	48.8	37.2	102	4.8	104
Ogle	5.01	47.7	31.9	88	1.3	103
Robert	5.56	48.9	38.5	98	1.5	104
Ultima	6.05	48.7	33.8	100	1.5	104
AC Hill	3.68	54.6	30.9	116	1.5	106
AC Lotta	4.14	55.1	31.2	109	1.9	104

<sup>a</sup> no. of days from seeding to maturity

\* no. of locations

**AGRONOMIC DATA, 1990-93**

Cultivar	Yield t/ha (14)*	hl/wt kg (14)	Kernel weight g/1000 (12)	Height cm (16)	Lodging 0-9 (8)	Maturity <sup>a</sup> days (12)
Donegal	5.53	47.2	37.4	105	2.3	104
Marion	5.43	49.6	37.7	112	2.2	102
Newman	4.87	47.7	37.4	103	4.5	102
Ogle	5.03	46.9	32.0	89	1.4	102
Ultima	5.37	46.5	34.0	100	1.3	103

<sup>a</sup> no. of days from seeding to maturity

\* no. of locations

**TESTING AREA V  
OATS  
Yield in kg per ha, 1993**

Cultivar	Nippissing District	Temiskaming	Thunder Bay	Rainy River District*	Average			Rank
					t/ha	lbs/a	bu/a	
AC Hunter	5986	5861	5076	2827	5.64	5036	148.1	7
AC Rigodon	6619	6452	6141	3027	6.40	5714	168.1	1
AC Stewart	5810	5717	5367	3095	5.63	5027	147.8	8
Donegal	6419	5662	4928	3470	5.67	5063	148.9	6
Marion	6501	6113	6175	3021	6.26	5589	164.4	2
Newman	5962	6112	5017	3580	5.70	5089	149.7	5
Ogle	5639	5713	4922	2875	5.42	4839	142.3	10
Robert	5623	5815	5400	4274	5.61	5009	147.3	9
Ultima	5718	6206	5859	4319	5.93	5295	155.7	3
OA 899-2	5765	6164	5498	3300	5.81	5188	152.6	4
AC Hill	3788	3725	2981	1194	3.50	3125	-	14
AC Lotta	4661	4915	4006	1987	4.53	4045	-	11
NO 10-1	4579	4489	3635	2940	4.23	3777	-	12
NO 21-3	4141	4257	3221	1722	3.87	3455	-	13
Mean	5516	5514	4873	2974	5.30	4732	-	-
C.V. %	9.1	9.0	10.6	25.3	-	-	-	-
LSD (0.05)	425	401	741	1261	-	-	-	-

\* Data not included in average

**TESTING AREA VI  
OATS  
AGRONOMIC DATA, 1993**

Cultivar	Yield t/ha (1)*	hl/wt kg (1)	Kernel weight g/1000 (1)	Height cm (1)	Lodging 0-9 (1)	Maturity <sup>a</sup> days (1)
AC Hunter	5.55	53.6	34.7	109	3.0	112
AC Rigodon	5.44	53.2	39.8	107	2.8	114
AC Stewart	4.31	52.7	41.7	91	2.8	109
Donegal	5.69	50.5	36.4	110	2.8	113
Marion	5.76	53.5	37.3	116	3.0	109
Newman	4.12	55.0	36.7	106	3.3	111
Ogle	4.29	50.7	33.9	91	1.8	107
Robert	5.92	49.9	37.3	112	1.0	111
Ultima	5.55	52.8	33.5	111	1.5	110
OA 899-2	4.89	54.6	39.2	112	1.3	114
AC Hill	3.30	63.4	34.7	119	2.8	115
AC Lotta	3.27	62.0	32.9	112	2.0	115
NO 10-1	3.58	65.1	37.9	112	2.0	109
NO 21-3	3.61	66.5	32.6	115	3.3	112

<sup>a</sup> no. of days from seeding to maturity

\* no. of locations

**AGRONOMIC DATA, 1992-93**

Cultivar	Yield t/ha (2)*	hl/wt kg (2)	Kernel weight g/1000 (2)	Height cm (2)	Lodging 0-9 (2)	Maturity <sup>a</sup> days (2)
AC Hunter	5.72	55.4	36.9	98	2.9	116
AC Rigodon	5.58	54.7	40.8	97	2.9	117
AC Stewart	4.64	52.0	42.5	87	2.4	110
Donegal	5.91	52.8	39.7	98	2.7	114
Marion	5.71	54.5	39.4	109	3.2	111
Newman	4.40	55.0	39.8	97	3.4	112
Ogle	4.63	51.2	35.4	87	1.8	107
Robert	5.56	51.6	40.8	95	1.5	115
Ultima	5.80	55.3	36.2	97	2.0	115
AC Hill	3.59	65.0	35.9	106	2.7	117
AC Lotta	3.49	62.4	35.7	104	2.2	115

<sup>a</sup> no. of days from seeding to maturity

\* no. of locations

**TESTING AREA VI  
OATS  
AGRONOMIC DATA, 1991-93**

Cultivar	Yield t/ha (3)*	hl/wt kg (3)	Kernel weight g/1000 (3)	Height cm (3)	Lodging 0-9 (3)	Maturity <sup>a</sup> days (3)
AC Hunter	5.85	53.3	36.0	103	2.9	112
AC Rigodon	5.75	53.6	39.4	100	2.6	112
AC Stewart	5.07	50.8	40.5	89	1.8	106
Donegal	6.08	52.1	39.7	102	2.7	111
Marion	6.02	54.1	38.5	111	2.4	106
Newman	4.87	54.8	38.7	99	2.8	107
Ogle	5.12	50.3	33.9	88	1.3	104
Robert	5.71	51.3	39.9	97	1.6	111
Ultima	5.81	53.4	35.2	99	2.1	111
AC Hill	3.86	64.0	34.3	111	2.3	114
AC Lotta	4.01	61.2	33.3	107	2.0	111

<sup>a</sup> no. of days from seeding to maturity

\* no. of locations

**AGRONOMIC DATA, 1990-93\*\***

Cultivar	Yield t/ha (3)*	hl/wt kg (3)	Kernel weight g/1000 (3)	Height cm (3)	Lodging 0-9 (3)	Maturity <sup>a</sup> days (3)
Donegal	6.08	52.1	39.7	102	2.7	111
Marion	6.02	54.1	38.5	111	2.4	106
Newman	4.87	54.8	38.7	99	2.8	107
Ogle	5.12	50.3	33.9	88	1.3	104
Ultima	5.81	53.4	35.2	99	2.1	111

<sup>a</sup> no. of days from seeding to maturity

\* no. of locations

\*\* 1991-93 data only

**TESTING AREA VI  
OATS  
Yield in kg per ha, 1993**

Cultivar	Cochrane	Average			Rank
		t/ha	lb/a	bu/a	
AC Hunter	5545	5.55	4955	145.7	5
AC Rigodon	5443	5.44	4857	142.9	6
AC Stewart	4309	4.31	3848	113.2	8
Donegal	5693	5.69	5080	149.4	3
Marion	5757	5.76	5143	151.3	2
Newman	4115	4.12	3679	108.2	10
Ogle	4290	4.29	3830	112.7	9
Robert	5923	5.92	5286	155.5	1
Ultima	5554	5.55	4955	145.7	4
OA 899-2	4890	4.89	4366	128.4	7
AC Hill	3303	3.30	2946	-	13
AC Lotta	3266	3.27	2920	-	14
NO 10-1	3580	3.58	3196	-	12
NO 21-3	3607	3.61	3223	-	11
Mean	4663	4.66	4161	-	-
C.V. %	5.2	-	-	-	-
LSD (0.05)	350	-	-	-	-

**DESCRIPTION OF CULTIVARS IN REGIONAL TESTS, 1993****WINTER BARLEY**

- OAC Elmira** - a six-rowed, rough awned, high yielding Guelph selection from the cross WB74-69//WB74-69/Huron with good scald, mildew and leaf rust resistance. Good tolerance to BYDV. Registered in 1987.
- OAC Halton** - a six-rowed rough awned, high yielding Guelph selection from the cross WB3-20/Purdue B466-7-4, resistant to mildew, tolerant to net blotch, susceptible to BYDV. Registered in 1979.
- OAC Acton** - a six-rowed, rough awned, high yielding Guelph selection from the cross WB74-69//WB74-69/Huron with improved scald and net blotch resistance. It is susceptible to new mildew races, tolerant to BYDV. Registered in 1984.
- Huron** - a six-rowed, early rough awned Guelph selection with good lodging resistance and good winter hardiness. Resistant to mildew, tolerant to scald, net blotch and leaf rust. Registered in 1974.

**WINTER BARLEY  
TESTING AREA I & II  
AGRONOMIC DATA, 1993**

Cultivar	Yield t/ha		hl/wt kg	Kernel weight g/1000	Winter Survival 0-9	Height cm	Lodging 0-9	Date		Scald 0-9	Leaf Rust 0-9	BYDV 0-9
	Area I (1)*	Area II (2)						Mean (3)	Head (2)			
OAC Elmira	3.54	4.75	58.2	31.0	6.7	108	3.8	June 3	July 14	0.9	0.5	2.3
OAC Halton	3.89	4.49	60.6	32.8	7.2	94	5.4	2	11	3.0	1.5	3.3
OAC Acton	4.21	4.56	58.2	33.7	7.4	106	7.1	1	10	1.8	5.0	2.8
Huron	4.13	3.75	61.1	34.0	7.0	92	3.5	May 31	10	3.8	1.0	3.8

\*No. of locations

**AGRONOMIC DATA, 1985-93**

Cultivar	Yield t/ha		hl/wt kg	Height cm	Lodging 0-9	Winter Survival** 0-9
	Area I (17)*	Area II (25)				
OAC Elmira	4.95	4.58	61.4	108	3.5	7.2
OAC Halton	4.70	4.21	61.9	97	4.9	7.6
OAC Acton	4.52	4.04	59.3	108	5.8	7.5
Huron	4.33	3.93	61.9	95	3.5	7.3

\* No. of locations

\*\* 1985-90, 1992-93 data only

**WINTER BARLEY  
TESTING AREA I SUMMARY 1993**

Cultivar	Yield		Kernel weight g/1000	Height cm	Lodging	Date		Leaf Rust
	t/ha (1)*	hl/wt kg (1)				Head	Ripe	
OAC Elmira	3.54	62.7	28.0	112	4	June 1	July 14	1
OAC Halton	3.89	63.2	31.2	106	6	May 31	11	1
OAC Acton	4.21	60.8	34.6	116	7	30	9	4
Huron	4.13	62.7	32.6	100	4	29	11	1

\* no. of locations

**WINTER BARLEY  
TESTING AREA II SUMMARY, 1993**

Cultivar	Yield		Kernel weight g/1000	Winter Survival	Height cm	Lodging	Date		Mildew	Helm	Leaf Rust	Scald
	t/ha (2)*	hl/wt kg (3)					0-9	Head				
OAC Elmira	4.75	62.4	32.0	6.7	105	3.7	June 5	July 14	0	1.4	0	0.9
OAC Halton	4.49	59.7	33.3	7.2	90	5.2	3	12	0	1.7	2	3.0
OAC Acton	4.56	57.4	33.4	7.4	103	7.2	4	10	2	0.7	6	1.8
Huron	3.75	60.5	34.5	7.0	89	3.3	1	10	0	2.0	1	3.8

\* no. of locations



## ONTARIO RECOMMENDATION TRIALS; FALL PASTRY WHEAT 1993

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## LEGEND

YLD	-	YIELD (T/HA; 1 T/HA = 14.87 BU/AC)
TSTW	-	TEST WEIGHT (KG/HL)
KW	-	KERNEL WEIGHT (MG)
SUR	-	SURVIVAL (%)
LOG	-	LODGING
HGT	-	HEIGHT (CM)
HDT	-	HEADING DATE
MIL	-	MILDEW
LRS	-	LEAF RUST
SRS	-	STEM RUST
SEP	-	SEPTORIA
GLB	-	GLUME BLOTCH
HBL	-	HEAD BLIGHT
SSM	-	SPINDLE STREAK MOSAIC VIRUS
BYD	-	BARLEY YELLOW DWARF VIRUS
ACH	-	ALTERNARIA CLADOSPORIUM HELMINTHOSPORIUM
MAT	-	MATURITY

A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS

## LOCATIONS ABBREVIATIONS

BH	BATH
EA	ELORA
HN	HARRISTON
HW	HARROW
ID	INWOOD
KE	KEMPTVILLE
LN	LONDON
MH	MORPETH
NN	NAIRN
O1	OTTAWA-1
O2	OTTAWA-2
RN	RIDGTOWN
WP	WINTHROP
WE	WOODSLEE
WK	WOODSTOCK

## ONTARIO RECOMMENDATION TRIALS; FALL PASTRY WHEAT 1993

## DESCRIPTION OF REGISTERED VARIETIES

**AUGUSTA:**

GENESEE/REDCOAT, A2747//YORKSTAR. DEVELOPED AT MICHIGAN STATE UNIVERSITY, CROP SCIENCE DEPT., EAST LANSING, MICHIGAN. MARKETED IN CANADA BY W.G. THOMPSON AND SONS LTD. SOFT WHITE VARIETY WITH GOOD MILLING AND BAKING QUALITY, HOWEVER, A TENDENCY FOR LOW TEST WEIGHT. SUSCEPTIBLE TO HEAD BLIGHT AND POWDERY MILDEW.

**HARUS:**

FREDRICK/YORKSTAR - FROM AGRICULTURE CANADA, HARROW RESEARCH STATION. GOOD YIELDING, SOFT WHITE, WITH FAIR MILLING AND GOOD BAKING QUALITY. SHORT, LODGING RESISTANT, AND EARLY. SOME RESISTANCE TO WHEAT SPINDLE STREAK MOSAIC VIRUS. HIGH TEST WEIGHT. SUSCEPTIBLE TO GLUME BLOTCH.

**ENA:**

FREDRICK/HOUSER - FROM AGRICULTURE CANADA, HARROW RESEARCH STATION. BEARDED SOFT WHITE VARIETY WITH ACCEPTABLE QUALITY AND HIGH TEST WEIGHT. MEDIUM HEIGHT WITH REASONABLE LODGING RESISTANCE. SUPERIOR TO OTHER RECOMMENDED VARIETIES IN HEAD BLIGHT SCORES, HOWEVER, SUSCEPTIBLE TO SEPTORIA.

**ANNETTE:**

N10/BVR//YW/3/2\*GE(A3141)/4/GE\*3/RCT(A5115)/5/FREDRICK/YORKSTAR - FROM AGRICULTURE CANADA, HARROW RESEARCH STATION. SOFT WHITE VARIETY WITH GOOD MILLING AND BAKING QUALITY. HIGH YIELDING IN AREA 3. SUPERIOR TO OTHER RECOMMENDED VARIETIES IN MILDEW AND BYDV RESISTANCE, HOWEVER, SUSCEPTIBLE TO LEAF RUST AND HEAD BLIGHT.

**HARMIL, (OT.90.4.1):**

8077B92-1/TECUMSEH//FREDRICK - FROM AGRICULTURE CANADA, OTTAWA RESEARCH STATION. AKNLESS SOFT WHITE TYPE WITH GOOD MILLING AND BAKING QUALITY. GOOD SSMV RESISTANCE. SUSCEPTIBLE TO HEAD BLIGHT AND MILDEW.

**REBECCA, (TW839.3):**

1A36.78.72(COLORADO COMPOSITE)/HOUSER - FROM W.G. THOMPSON & SONS LTD. BEARDED SOFT WHITE TYPE WITH GOOD MILLING AND BAKING QUALITY. VERY HIGH YIELDING IN AREAS 1 AND 2. A SHORT, STRONG STRAWED VARIETY WITH LOW SCORES FOR SEPTORIA, GLUME BLOTCH, AND HEAD BLIGHT. SUSCEPTIBLE TO LEAF RUST.

**ZAVITZ, (OAC85-7s)**

HOUSER/NY629817 - FROM O.A.C., UNIVERSITY OF GUELPH. A HIGH YIELDING SOFT WHITE WHEAT WITH A VERY HIGH THOUSAND KERNEL WEIGHT. TENDANCY FOR HIGHER GRAIN AND FLOUR PROTEIN LEVELS. GOOD COOKIE SPREAD. GOOD RATINGS FOR MOST PREVALENT WHEAT DISEASES. SUSCEPTIBLE TO SEPTORIA. MARKETED BY FIRST LINE SEEDS LTD.

## ONTARIO RECOMMENDATION TRIALS; FALL PASTRY WHEAT 1993

## DESCRIPTION OF REGISTERED VARIETIES CONT.

## KARENA, (TW85.108)

AUGUSTA/H11 (HARUS BULK) - FROM W.G. THOMPSON & SONS LTD. A HIGH YIELDING, WHITE CHAFFED, APICALLY AWNLETTED SOFT WHITE VARIETY WITH VERY STRONG STRAW. LOW FLOUR PROTEIN CONTENT AND ACCEPTABLE BAKING QUALITY. GOOD MILDEW AND SSMV SCORES.

## AC RON, (H212.8)

HARUS/AUGUSTA - FROM AGRICULTURE CANADA, HARROW RESEARCH STATION. SOFT WHITE VARIETY WITH GOOD MILLING AND BAKING QUALITY. HIGH YIELDING IN ALL AREAS TESTED. BELOW AVERAGE INCIDENCE OF LODGING, GLUME BLOTCH, AND BYDV. RESISTANT TO HESSIAN FLY. SUSCEPTIBLE TO HEAD BLIGHT.

## DELAWARE, (TW86.168)

FRANKENMUTH/FREDRICK - FROM W.G. THOMPSON & SONS LTD. A HIGH YIELDING SOFT WHITE VARIETY WITH A HIGH THOUSAND KERNEL WEIGHT AND GOOD MILLING AND BAKING QUALITY. GOOD POWDERY MILDEW, SEPTORIA, AND GLUME BLOTCH SCORES. SUSCEPTIBLE TO LEAF RUST.

## CASEY, (TW86-312)

FREDERICK/O-459-2//AUGUSTA/O-472-3 - FROM W.G. THOMPSON & SONS LTD. A HIGH YIELDING SOFT RED VARIETY WITH GOOD MILLING AND BAKING QUALITY. SHORT, STRONG STRAWED WHEAT WITH BETTER THAN AVERAGE LEAF RUST AND BYDV SCORES. FULLY REGISTERED FOR SALE IN EASTERN CANADA.

## DIANA, (TW88.225)

IONIA/2\*TICONDEROGA//AUG - FROM W.G. THOMPSON & SONS LTD. A HIGH YIELDING SOFT WHITE VARIETY WITH GOOD MILLING AND BAKING QUALITY. GOOD BARLEY YELLOW DWARF VIRUS RESISTANCE AND STRONG STRAWED. HAS A THREE YEAR INTERIM REGISTRATION FOR CANADA.

## ONTARIO RECOMMENDATION TRIALS; FALL PASTRY WHEAT 1993

TRAIT : YIELD  
 YEAR(S): 89-93  
 AREA : 1

ABBREVIATED HEADINGS REPRESENT LOCATION-YEAR-MANAGEMENT COMBINATION

CULTIVAR NAME	HW89N	RN89N	ID89N	MH89N	RN90N	WE91N	HW91N	RN91N	MH91N	HW92N
1 AUGUSTA	3.49	2.43	4.12	4.20	4.19	3.09	3.06	3.66	3.03	6.25
2 HARUS	4.48	3.98	4.64	4.89	4.44	2.82	3.35	3.92	3.74	6.35
3 ENA	3.62	3.63	4.31	3.30	4.57	3.72	3.94	3.69	3.81	5.96
4 ANNETTE	4.31	3.01	4.32	4.65	4.59	2.89	3.05	3.47	3.30	6.50
5 HARMIL	4.42	4.06	4.38	4.98	4.25	2.76	3.21	3.50	2.86	6.69
6 REBECCA	4.80	3.50	4.62	4.83	5.08	3.05	3.96	4.13	3.49	5.95
7 ZAVITZ	4.07	4.32	3.86	5.13	4.69	3.65	3.89	4.13	4.08	6.34
8 KARENA	4.76	3.14	4.10	5.80	4.45	2.51	4.18	3.84	3.90	6.39
9 AC RON	4.19	3.36	4.96	4.77	4.80	2.70	3.67	4.05	3.74	6.87
10 DELAWARE	3.78	3.81	5.00	4.89	5.04	3.23	3.45	3.84	3.72	6.27
LOCATION MEAN	4.19	3.52	4.43	4.74	4.61	3.04	3.58	3.82	3.57	6.36

KEY NAME	WE92N	RN92N	MH92N	ID92N	RN93N	MEAN
1 AUGUSTA	6.76	7.55	6.57	6.09	3.90	4.56
2 HARUS	7.17	7.28	6.87	5.85	4.45	4.95
3 ENA	7.10	6.74	5.94	5.61	4.06	4.67
4 ANNETTE	6.84	6.92	6.46	6.02	4.04	4.69
5 HARMIL	6.39	7.10	5.88	5.71	4.51	4.71
6 REBECCA	7.59	7.56	6.74	6.24	4.21	5.05
7 ZAVITZ	6.00	7.25	6.14	5.58	4.36	4.90
8 KARENA	6.99	7.45	5.69	6.13	4.14	4.90
9 AC RON	7.50	8.18	6.39	6.38	4.30	5.06
10 DELAWARE	7.25	7.73	7.05	6.15	4.10	5.02
LOCATION MEAN	6.96	7.38	6.37	5.98	4.21	4.85

ONTARIO RECOMMENDATION; FALL PASTRY WHEAT 1993

DATA EXPRESSED RELATIVE TO LOCATION MEANS

TRAIT : YIELD  
 YEAR(S): 89-93  
 AREA : 1

ABBREVIATED HEADINGS REPRESENT LOCATION-YEAR-MANAGEMENT COMBINATION

KEY NAME	HW89N	RN89N	ID89N	MH89N	RN90N	WE91N	HW91N	RN91N	MH91N	HW92N
1 AUGUSTA	83	69	93	89	91	102	86	96	85	98
2 HARUS	107	113	105	103	96	93	94	103	105	100
3 ENA	86	103	97	70	99	122	110	97	107	94
4 ANNETTE	103	85	97	98	100	95	85	91	93	102
5 HARMIL	105	115	99	105	92	91	90	92	80	105
6 REBECCA	115	99	104	102	110	100	111	108	98	94
7 ZAVITZ	97	123	87	108	102	120	109	108	114	100
8 KARENA	114	89	93	122	97	83	117	100	109	101
9 AC RON	100	95	112	101	104	89	103	106	105	108
10 DELAWARE	90	108	113	103	109	106	96	100	104	99
LOCATION MEAN	4.19	3.52	4.43	4.74	4.61	3.04	3.58	3.82	3.57	6.36

KEY NAME	WE92N	RN92N	MH92N	ID92N	RN93N	MEAN*
1 AUGUSTA	97	102	103	102	93	93
2 HARUS	103	99	108	98	106	102
3 ENA	102	91	93	94	97	97
4 ANNETTE	98	94	101	101	96	96
5 HARMIL	92	96	92	96	107	97
6 REBECCA	109	102	106	104	100	104
7 ZAVITZ	86	98	96	93	104	103
8 KARENA	100	101	89	103	98	101
9 AC RON	108	111	100	107	102	103
10 DELAWARE	104	105	111	103	97	103
LOCATION MEAN	6.96	7.38	6.37	5.98	4.21	4.85

\*MEAN OF RELATIVE YIELDS OVER ALL LOCATIONS

## ONTARIO RECOMMENDATION; FALL PASTRY WHEAT 1993

TRAIT : YIELD  
 YEAR(S): 89-93  
 AREA : 2

ABBREVIATED HEADINGS REPRESENT LOCATION-YEAR-MANAGEMENT COMBINATION

CULTIVAR NAME	EA89N	WK89N	LN89N	NN89N	NN90N	LN90N	WK90N	EA90N	BH90N
1 AUGUSTA	6.03	4.53	4.08	3.49	5.47	3.95	4.29	6.75	4.84
2 HARUS	6.06	5.99	4.91	3.93	5.34	4.81	3.43	6.14	4.46
3 ENA	6.12	5.77	4.43	2.97	5.25	4.73	3.83	6.27	4.47
4 ANNETTE	6.07	6.18	4.59	3.39	5.27	4.52	3.69	6.39	4.77
5 HARMIL	6.67	6.33	5.18	3.60	5.25	4.30	3.84	5.99	5.26
6 REBECCA	6.89	5.62	5.19	3.44	5.44	4.71	4.40	6.89	5.08
7 ZAVITZ	6.20	6.02	4.95	3.59	5.61	4.55	3.58	6.14	4.53
8 KARENA	6.19	5.82	5.19	3.89	5.93	4.13	3.98	6.79	4.94
9 AC RON	6.20	6.62	4.90	3.73	5.79	4.48	3.85	6.57	5.51
10 DELAWARE	6.81	5.86	5.12	3.68	5.75	4.82	3.85	7.08	4.96
LOCATION MEAN	6.32	5.87	4.85	3.57	5.51	4.50	3.87	6.50	4.88

CULTIVAR NAME	NN91N	WK91N	EA91N	BH91N	NN92N	LN92N	WK92N	EA92N	BH92N	WP93N	NN93N
1 AUGUSTA	4.29	5.92	5.86	4.82	6.27	7.25	7.24	7.83	5.10	2.63	5.19
2 HARUS	3.98	5.75	6.17	4.91	6.14	6.72	7.93	8.04	4.98	3.30	5.54
3 ENA	4.20	6.02	5.14	4.41	4.73	6.24	6.33	6.87	4.63	2.03	4.42
4 ANNETTE	4.47	6.28	5.05	4.97	5.96	6.74	7.20	7.49	4.94	2.67	4.64
5 HARMIL	4.09	6.28	4.65	4.77	6.19	6.83	6.59	7.27	5.10	2.86	5.03
6 REBECCA	4.45	6.36	5.80	4.56	5.49	7.55	7.64	8.57	4.94	2.92	5.31
7 ZAVITZ	4.07	6.43	6.52	4.80	5.94	6.57	6.74	8.10	4.59	3.11	4.98
8 KARENA	4.20	6.70	6.70	4.67	5.43	7.18	7.29	8.01	4.97	3.15	5.43
9 AC RON	4.44	7.07	6.58	5.18	6.76	7.26	7.19	8.60	5.90	3.03	5.50
10 DELAWARE	4.29	5.97	5.83	5.05	5.94	7.34	7.70	8.66	5.10	2.83	5.60
LOCATION MEAN	4.25	6.28	5.83	4.81	5.88	6.97	7.18	7.94	5.03	2.85	5.16

KEY NAME	LN93N	EA93N	HN93N	BH93N	MEAN
1 AUGUSTA	3.46	4.58	3.53	4.67	5.09
2 HARUS	3.76	4.66	4.03	5.19	5.26
3 ENA	3.16	4.18	2.74	3.37	4.68
4 ANNETTE	3.09	4.15	2.85	4.46	4.99
5 HARMIL	3.44	4.74	3.51	5.04	5.12
6 REBECCA	3.60	4.70	3.65	4.41	5.32
7 ZAVITZ	3.92	4.65	3.61	4.24	5.14
8 KARENA	3.43	4.53	2.76	4.38	5.24
9 AC RON	3.90	4.70	2.95	4.94	5.49
10 DELAWARE	3.85	4.60	3.51	4.39	5.36
LOCATION MEAN	3.56	4.55	3.31	4.51	5.17

## ONTARIO RECOMMENDATION; FALL PASTRY WHEAT 1993

## DATA EXPRESSED RELATIVE TO LOCATION MEANS

TRAIT : YIELD  
 YEAR(S) : 89-93  
 AREA : 2

ABBREVIATED HEADINGS REPRESENT LOCATION-YEAR-MANAGEMENT COMBINATION

KEY NAME	EA89N	WK89N	NN89N	LN89N	NN90N	LN90N	WK90N	EA90N	BH90N	NN91N
1 AUGUSTA	95	77	98	84	99	88	111	104	99	101
2 HARUS	96	102	110	101	97	107	89	94	91	94
3 ENA	97	98	83	91	95	105	99	96	92	99
4 ANNETTE	96	105	95	95	96	100	95	98	98	105
5 HARMIL	105	108	101	107	95	96	99	92	108	96
6 REBECCA	109	96	96	107	99	105	114	106	104	105
7 ZAVITZ	98	102	101	102	102	101	92	94	93	96
8 KARENA	98	99	109	107	108	92	103	104	101	99
9 AC RON	98	113	104	101	105	100	99	101	113	105
10 DELAWARE	108	100	103	105	104	107	99	109	102	101
LOCATION MEAN	6.32	5.87	3.57	4.85	5.51	4.50	3.87	6.50	4.88	4.25

KEY NAME	WK91N	EA91N	BH91N	NN92N	LN92N	WK92N	EA92N	BH92N	WP93N	NN93N
1 AUGUSTA	94	101	100	107	104	101	99	101	92	101
2 HARUS	92	106	102	104	96	110	101	99	116	107
3 ENA	96	88	92	80	90	88	86	92	71	86
4 ANNETTE	100	87	103	101	97	100	94	98	94	90
5 HARMIL	100	80	99	105	98	92	92	101	100	97
6 REBECCA	101	99	95	93	108	106	108	98	102	103
7 ZAVITZ	102	112	100	101	94	94	102	91	109	96
8 KARENA	107	115	97	92	103	101	101	99	110	105
9 AC RON	113	113	108	115	104	100	108	117	106	107
10 DELAWARE	95	100	105	101	105	107	109	101	99	108
LOCATION MEAN	6.28	5.83	4.81	5.88	6.97	7.18	7.94	5.03	2.85	5.16

KEY NAME	LN93N	EA93N	HN93N	BH93N	MEAN*
1 AUGUSTA	97	101	107	104	98
2 HARUS	106	102	122	115	102
3 ENA	89	92	83	75	90
4 ANNETTE	87	91	86	99	96
5 HARMIL	97	104	106	112	100
6 REBECCA	101	103	110	98	103
7 ZAVITZ	110	102	109	94	100
8 KARENA	96	100	83	97	101
9 AC RON	110	103	89	110	106
10 DELAWARE	108	101	106	97	103
LOCATION MEAN	3.56	4.55	3.31	4.51	5.17

\*MEAN OF RELATIVE YIELDS OVER ALL LOCATIONS

## ONTARIO RECOMMENDATION; FALL PASTRY WHEAT 1993

TRAIT : YIELD  
 YEAR(S): 89-93 \*\*  
 AREA : 3

ABBREVIATED HEADINGS REPRESENT LOCATION-YEAR-MANAGEMENT COMBINATION

CULTIVAR NAME	O289N	KE90N	KE91N	O193N	KE93N	MEAN
1 AUGUSTA	3.35	3.97	2.83	4.73	6.07	4.19
2 HARUS	3.02	3.78	2.61	3.90	5.93	3.85
3 ENA	2.74	4.50	2.74	4.16	5.56	3.94
4 ANNETTE	4.25	4.30	2.90	4.35	5.92	4.34
5 HARMIL	3.54	2.64	1.76	4.98	5.96	3.78
6 REBECCA	2.43	4.60	2.53	3.93	6.18	3.93
7 ZAVITZ	3.02	4.51	3.05	5.12	6.64	4.47
8 KARENA	3.14	4.78	2.64	4.86	6.14	4.31
9 AC RON	4.06	4.44	2.44	4.30	6.03	4.25
10 DELAWARE	3.47	5.10	2.75	5.15	5.77	4.45
LOCATION MEAN	3.30	4.26	2.63	4.55	6.02	4.15

## DATA EXPRESSED RELATIVE TO LOCATION MEANS

KEY NAME	O289N	KE90N	KE91N	O193N	KE93N	MEAN*
1 AUGUSTA	101	93	108	104	101	101
2 HARUS	91	89	99	86	99	93
3 ENA	83	106	104	91	92	95
4 ANNETTE	129	101	110	96	98	107
5 HARMIL	107	62	67	109	99	89
6 REBECCA	74	108	96	86	103	93
7 ZAVITZ	91	106	116	113	110	107
8 KARENA	95	112	101	107	102	103
9 AC RON	123	104	93	95	100	103
10 DELAWARE	105	120	105	113	96	108
LOCATION MEAN	3.30	4.26	2.63	4.55	6.02	4.15

\*MEAN OF RELATIVE YIELDS OVER ALL LOCATIONS

\*\*THERE ARE NO AREA 3 DATA FOR 1992



## ONTARIO RECOMMENDATION; FALL PASTRY WHEAT 1993

TRAIT : YIELD  
 YEAR(S) : 89-93  
 AREA : 1-3  
 MGMT : NORMAL

KEY NAME	AREA 1 (15)*	AREA 2 (24)	AREA 3 (5)	PROVINCE (44)**
1 AUGUSTA	4.56	5.09	4.19	4.80
2 HARUS	4.95	5.26	3.85	4.99
3 ENA	4.67	4.68	3.94	4.59
4 ANNETTE	4.69	4.99	4.34	4.82
5 HARMIL	4.71	5.12	3.78	4.83
6 REBECCA	5.05	5.32	3.93	5.07
7 ZAVITZ	4.90	5.14	4.47	4.98
8 KARENA	4.90	5.24	4.31	5.02
9 AC RON	5.06	5.49	4.25	5.20
10 DELAWARE	5.02	5.36	4.45	5.14
OVERALL MEAN	4.85	5.17	4.15	

## MEAN OF RELATIVE YIELDS OVER ALL LOCATIONS

KEY NAME	AREA 1	AREA 2	AREA 3	PROVINCE
1 AUGUSTA	92.5	98.5	101.4	96.8
2 HARUS	102.1	102.5	92.8	101.2
3 ENA	97.5	90.1	95.3	93.2
4 ANNETTE	96.0	96.3	106.8	97.4
5 HARMIL	97.1	99.6	89.0	97.5
6 REBECCA	104.2	102.8	93.4	102.2
7 ZAVITZ	103.0	99.9	107.3	101.8
8 KARENA	101.0	101.1	103.3	101.3
9 AC RON	103.3	105.9	103.0	104.7
10 DELAWARE	103.3	103.4	107.7	103.9
OVERALL MEAN	4.85	5.17	4.15	4.94

\* # OF LOCATIONS

\*\* WEIGHTED AVERAGE

## ONTARIO RECOMMENDATION; FALL PASTRY WHEAT 1993

YEAR(S): 89-93  
 MGMT : NORMAL  
 AREA : 1

KEY NAME	YIELD		TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA													
1 AUGUSTA	10	4.56	69.6	34	90	2.9	105	155	3.3	3.8	2.9	3.6	2.9	.	2.7
2 HARUS	4	4.95	73.3	37	93	1.9	101	153	1.9	3.2	2.9	3.9	2.7	.	3.1
3 ENA	9	4.67	72.9	35	93	1.8	105	154	2.8	3.7	3.7	1.9	1.2	.	2.5
4 ANNETTE	8	4.69	71.8	39	86	4.1	105	155	0.5	4.1	2.7	4.0	3.4	.	2.3
5 HARMIL	7	4.71	70.4	32	86	2.4	107	154	3.1	3.1	2.3	3.4	3.7	.	2.4
6 REBECCA	2	5.05	71.8	36	84	2.2	98	154	2.5	4.2	2.2	2.5	1.8	.	3.4
7 ZAVITZ	5	4.90	71.0	41	91	2.1	105	155	2.0	1.9	2.8	2.0	1.8	.	2.2
8 KARENA	5	4.90	71.9	36	89	1.8	104	154	1.5	2.9	2.9	3.3	2.4	.	2.4
9 AC RON	1	5.06	70.9	36	90	1.8	104	154	2.7	3.5	2.7	2.8	3.0	.	2.4
10 DELAWARE	3	5.02	68.9	39	90	3.4	98	156	1.3	4.3	2.5	2.1	2.3	.	3.3
LOCATIONS	15	11	7	3	11	18	16	12	10	5	4	5	0	5	

YIELD AVERAGES WERE BASED ON DATA FROM:

1989: HARROW, RIDGETOWN, INWOOD, MORPETH.

1990: RIDGETOWN.

1991: HARROW, WOODSLEE, RIDGETOWN, MORPETH.

1992: HARROW, WOODSLEE, RIDGETOWN, MORPETH, INWOOD.

1993: RIDGETOWN.

YEAR(S): 89-93  
 MGMT : NORMAL  
 AREA : 2

KEY NAME	YIELD		TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA													
1 AUGUSTA	8	5.09	68.7	33	97	1.7	107	162	4.1	5.3	3.4	3.0	4.3	2.5	2.2
2 HARUS	4	5.26	72.4	34	96	1.1	100	160	2.7	5.5	4.1	7.0	3.3	2.0	1.8
3 ENA	10	4.68	71.6	33	97	2.1	104	162	3.1	5.7	4.2	2.0	2.3	2.5	2.1
4 ANNETTE	9	4.99	70.8	37	97	3.1	104	162	0.7	6.5	3.6	0.3	4.4	2.5	2.2
5 HARMIL	7	5.12	69.6	32	96	2.1	107	161	4.3	5.9	3.3	1.7	5.4	1.0	1.7
6 REBECCA	3	5.32	70.6	34	97	1.1	97	161	3.2	6.1	3.4	2.0	3.6	3.5	2.0
7 ZAVITZ	6	5.14	69.9	39	98	1.9	103	162	2.9	4.0	4.1	2.7	2.4	1.5	2.0
8 KARENA	5	5.24	70.6	34	97	1.4	103	161	2.1	5.3	3.5	3.3	3.7	2.0	2.4
9 AC RON	1	5.49	70.3	34	98	2.0	102	161	3.7	5.9	3.6	2.0	5.9	2.0	2.1
10 DELAWARE	2	5.36	68.5	37	98	3.5	98	163	2.0	6.6	3.4	2.0	4.1	3.0	2.0
LOCATIONS	24	25	23	12	15	24	17	10	7	10	1	2	1	4	

YIELD AVERAGES WERE BASED ON DATA FROM:

1989: NAIRN, LONDON, WOODSTOCK, ELORA .

1990: NAIRN, LONDON, WOODSTOCK, ELORA, BATH.

1991: NAIRN, WOODSTOCK, ELORA, BATH.

1992: NAIRN, LONDON, WOODSTOCK, ELORA, BATH.

1993: NAIRN, LONDON, WINTHROP, ELORA, HARRISTON, BATH.

\* DAYS FROM JAN.1

A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS

ONTARIO RECOMMENDATION; FALL PASTRY WHEAT 1993

YEAR(S) : 89-93  
 MGMT : NORMAL  
 AREA : 3

KEY NAME	YIELD RK T/HA	TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
1 AUGUSTA	6 4.19	76.6	39	65	2.1	102	166	7.3	8.0	4.5	.	.	.	.
2 HARUS	9 3.85	78.2	39	58	1.5	94	165	7.0	8.0	5.5	.	.	.	.
3 ENA	7 3.94	79.4	38	68	1.6	98	166	7.5	8.0	5.5	.	.	.	.
4 ANNETTE	3 4.34	78.6	44	62	1.9	98	166	5.0	8.0	5.0	.	.	.	.
5 HARMIL	10 3.78	76.6	36	64	1.6	100	166	7.3	8.0	4.0	.	.	.	.
6 REBECCA	8 3.93	77.2	38	67	1.7	92	166	7.5	8.0	4.0	.	.	.	.
7 ZAVITZ	1 4.47	76.4	45	68	1.8	99	167	7.5	8.0	5.5	.	.	.	.
8 KARENA	4 4.31	78.6	39	65	1.5	99	165	7.0	8.0	2.5	.	.	.	.
9 AC RON	5 4.25	77.0	39	67	1.6	99	165	7.3	8.0	3.0	.	.	.	.
10 DELAWARE	2 4.45	75.6	42	64	2.7	90	167	7.0	8.0	2.0	.	.	.	.
LOCATIONS		5	9	9	9	4	9	6	1	1	1	0	0	0

YIELD AVERAGES WERE BASED ON DATA FROM:  
 1989: OTTAWA-2  
 1990: KEMPTVILLE.  
 1991: KEMPTVILLE  
 1992: THERE ARE NO YIELD DATA FOR AREA 3 LOCATIONS IN 1992.  
 1993: KEMPTVILLE, OTTAWA-1.

YEAR(S) : 89-93  
 MGMT : NORMAL  
 AREA(S) : 1- 3

KEY NAME	YIELD RK T/HA	TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
1 AUGUSTA	9 4.80	70.5	35	84	2.2	105	160	3.8	4.6	3.4	3.5	3.3	2.5	2.5
2 HARUS	5 4.99	73.8	36	82	1.4	99	158	2.5	4.4	3.8	4.5	2.9	2.0	2.5
3 ENA	10 4.59	73.5	34	85	1.9	103	159	3.1	4.7	4.1	1.9	1.5	2.5	2.3
4 ANNETTE	8 4.82	72.6	39	83	3.3	103	160	0.8	5.3	3.4	3.3	3.7	2.5	2.2
5 HARMIL	7 4.83	71.2	33	83	2.1	106	159	3.8	4.4	3.1	3.0	4.2	1.0	2.1
6 REBECCA	3 5.07	72.2	36	84	1.6	96	159	3.1	5.1	3.1	2.4	2.3	3.5	2.8
7 ZAVITZ	6 4.98	71.5	41	85	2.0	103	160	2.7	3.0	3.7	2.1	2.0	1.5	2.1
8 KARENA	4 5.02	72.6	35	84	1.6	103	159	2.0	4.1	3.2	3.3	2.8	2.0	2.4
9 AC RON	1 5.20	71.9	36	85	1.9	102	159	3.3	4.7	3.3	2.6	3.8	2.0	2.2
10 DELAWARE	2 5.14	70.1	39	84	3.4	97	161	1.9	5.4	3.0	2.1	2.8	3.0	2.7
LOCATIONS		44	45	39	24	30	51	39	23	18	16	5	7	1

YIELD AVERAGES WERE BASED ON DATA FROM:  
 1989: HARROW, RIDGETOWN, INWOOD, MORPETH, NAIRN, LONDON, WOODSTOCK, ELORA, OTTAWA-2  
 1990: RIDGETOWN, NAIRN, LONDON, WOODSTOCK, ELORA, BATH, KEMPTVILLE.  
 1991: HARROW, WOODSLEE, RIDGETOWN, MORPETH, NAIRN, WOODSTOCK, ELORA, BATH, KEMPTVILLE  
 1992: HARROW, WOODSLEE, RIDGETOWN, MORPETH, INWOOD, NAIRN, LONDON, WOODSTOCK,  
 ELORA, BATH.  
 1993: RIDGETOWN, NAIRN, LONDON, WINTHROP, ELORA, HARRISTON, BATH, KEMPTVILLE, OTTAWA

\* DAYS FROM JAN.1  
 A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS

## ONTARIO RECOMMENDATION; FALL PASTRY WHEAT 1993

TRAIT : YIELD  
 YEAR(S): 91-93  
 AREA : 1

ABBREVIATED HEADINGS REPRESENT LOCATION-YEAR-MANAGEMENT COMBINATION

KEY NAME	WE91N	HW91N	RN91N	MH91N	HW92N	WE92N	RN92N	MH92N	ID92N	RN93N	MEAN
1 AUGUSTA	3.09	3.06	3.66	3.03	6.25	6.76	7.55	6.57	6.09	3.90	5.00
2 HARUS	2.82	3.35	3.92	3.74	6.35	7.17	7.28	6.87	5.85	4.45	5.18
3 ENA	3.72	3.94	3.69	3.81	5.96	7.10	6.74	5.94	5.61	4.06	5.06
4 ANNETTE	2.89	3.05	3.47	3.30	6.50	6.84	6.92	6.46	6.02	4.04	4.95
5 HARMIL	2.76	3.21	3.50	2.86	6.69	6.39	7.10	5.88	5.71	4.51	4.86
6 REBECCA	3.05	3.96	4.13	3.49	5.95	7.59	7.56	6.74	6.24	4.21	5.29
7 ZAVITZ	3.65	3.89	4.13	4.08	6.34	6.00	7.25	6.14	5.58	4.36	5.14
8 KARENA	2.51	4.18	3.84	3.90	6.39	6.99	7.45	5.69	6.13	4.14	5.12
9 AC RON	2.70	3.67	4.05	3.74	6.87	7.50	8.18	6.39	6.38	4.30	5.38
10 DELAWARE	3.23	3.45	3.84	3.72	6.27	7.25	7.73	7.05	6.15	4.10	5.28
11 DIANA	3.45	4.30	4.12	3.61	7.42	7.58	8.28	6.87	5.91	4.27	5.58
LOC.MEAN	3.08	3.64	3.85	3.57	6.45	7.02	7.46	6.42	5.97	4.21	5.17

## DATA EXPRESSED RELATIVE TO LOCATION MEANS

KEY NAME	WE91N	HW91N	RN91N	MH91N	HW92N	WE92N	RN92N	MH92N	ID92N	RN93N	MEAN*
1 AUGUSTA	100	84	95	85	97	96	101	102	102	93	96
2 HARUS	92	92	102	105	98	102	98	107	98	106	100
3 ENA	121	108	96	107	92	101	90	93	94	96	100
4 ANNETTE	94	84	90	92	101	97	93	101	101	96	95
5 HARMIL	90	88	91	80	104	91	95	92	96	107	93
6 REBECCA	99	109	107	98	92	108	101	105	105	100	102
7 ZAVITZ	119	107	107	114	98	85	97	96	93	103	102
8 KARENA	81	115	100	109	99	100	100	89	103	98	99
9 AC RON	88	101	105	105	106	107	110	100	107	102	103
10 DELAWARE	105	95	100	104	97	103	104	110	103	97	102
11 DIANA	112	118	107	101	115	108	111	107	99	101	108
LOC.MEAN	3.08	3.64	3.85	3.57	6.45	7.02	7.46	6.42	5.97	4.21	5.17

\*MEAN OF RELATIVE YIELDS OVER ALL LOCATIONS

## ONTARIO RECOMMENDATION; FALL PASTRY WHEAT 1993

TRAIT : YIELD  
 YEAR(S): 91-93  
 AREA : 2

ABBREVIATED HEADINGS REPRESENT LOCATION-YEAR-MANAGEMENT COMBINATION

KEY NAME	NN91N	WK91N	EA91N	BH91N	NN92N	LN92N	WK92N	EA92N	BH92N	WP93N
1 AUGUSTA	4.29	5.92	5.86	4.82	6.27	7.25	7.24	7.83	5.10	2.63
2 HARUS	3.98	5.75	6.17	4.91	6.14	6.72	7.93	8.04	4.98	3.30
3 ENA	4.20	6.02	5.14	4.41	4.73	6.24	6.33	6.87	4.63	2.03
4 ANNETTE	4.47	6.28	5.05	4.97	5.96	6.74	7.20	7.49	4.94	2.67
5 HARMIL	4.09	6.28	4.65	4.77	6.19	6.83	6.59	7.27	5.10	2.86
6 REBECCA	4.45	6.36	5.80	4.56	5.49	7.55	7.64	8.57	4.94	2.92
7 ZAVITZ	4.07	6.43	6.52	4.80	5.94	6.57	6.74	8.10	4.59	3.11
8 KARENA	4.20	6.70	6.70	4.67	5.43	7.18	7.29	8.01	4.97	3.15
9 AC RON	4.44	7.07	6.58	5.18	6.76	7.26	7.19	8.60	5.90	3.03
10 DELAWARE	4.29	5.97	5.83	5.05	5.94	7.34	7.70	8.66	5.10	2.83
11 DIANA	4.86	6.42	5.83	4.60	6.61	6.98	7.95	8.76	5.11	2.78
LOCATION MEAN	4.30	6.29	5.83	4.79	5.95	6.97	7.25	8.02	5.03	2.85

KEY NAME	NN93N	LN93N	EA93N	HN93N	BH93N	MEAN
1 AUGUSTA	5.19	3.46	4.58	3.53	4.67	5.24
2 HARUS	5.54	3.76	4.66	4.03	5.19	5.41
3 ENA	4.42	3.16	4.18	2.74	3.37	4.56
4 ANNETTE	4.64	3.09	4.15	2.85	4.46	5.00
5 HARMIL	5.03	3.44	4.74	3.51	5.04	5.09
6 REBECCA	5.31	3.60	4.70	3.65	4.41	5.33
7 ZAVITZ	4.98	3.92	4.65	3.61	4.24	5.22
8 KARENA	5.43	3.43	4.53	2.76	4.38	5.26
9 AC RON	5.50	3.90	4.70	2.95	4.94	5.60
10 DELAWARE	5.60	3.85	4.60	3.51	4.39	5.38
11 DIANA	5.23	3.78	4.48	2.99	5.18	5.44
LOCATION MEAN	5.17	3.58	4.54	3.28	4.57	5.23

## ONTARIO RECOMMENDATION; FALL PASTRY WHEAT 1993

TRAIT : YIELD  
 YEAR(S): 91-93  
 AREA : 2

ABBREVIATED HEADINGS REPRESENT LOCATION-YEAR-MANAGEMENT COMBINATION

## DATA EXPRESSED RELATIVE TO LOCATION MEANS

KEY NAME	NN91N	WK91N	EA91N	BH91N	NN92N	LN92N	WK92N	EA92N	BH92N	WP93N
1 AUGUSTA	100	94	101	101	105	104	100	98	101	92
2 HARUS	93	91	106	102	103	96	109	100	99	116
3 ENA	98	96	88	92	79	90	87	86	92	71
4 ANNETTE	104	100	87	104	100	97	99	93	98	94
5 HARMIL	95	100	80	99	104	98	91	91	101	100
6 REBECCA	103	101	100	95	92	108	105	107	98	103
7 ZAVITZ	95	102	112	100	100	94	93	101	91	109
8 KARENA	98	106	115	97	91	103	100	100	99	111
9 AC RON	103	112	113	108	114	104	99	107	117	106
10 DELAWARE	100	95	100	105	100	105	106	108	101	99
11 DIANA	113	102	100	96	111	100	110	109	102	98
LOCATION MEAN	4.30	6.29	5.83	4.79	5.95	6.97	7.25	8.02	5.03	2.85

KEY NAME	NN93N	LN93N	EA93N	HN93N	BH93N	MEAN*
1 AUGUSTA	100	97	101	107	102	100
2 HARUS	107	105	103	123	114	104
3 ENA	85	88	92	83	74	87
4 ANNETTE	90	86	91	87	98	95
5 HARMIL	97	96	104	107	110	98
6 REBECCA	103	101	103	111	96	102
7 ZAVITZ	96	109	102	110	93	101
8 KARENA	105	96	100	84	96	100
9 AC RON	106	109	103	90	108	107
10 DELAWARE	108	108	101	107	96	103
11 DIANA	101	106	99	91	113	103
LOCATION MEAN	5.17	3.58	4.54	3.28	4.57	5.23

\*MEAN OF RELATIVE YIELDS OVER ALL LOCATIONS

## ONTARIO RECOMMENDATION; FALL PASTRY WHEAT 1993

TRAIT : YIELD  
 YEAR(S): 91-93\*  
 AREA : 3

ABBREVIATED HEADINGS REPRESENT LOCATION-YEAR-MANAGEMENT COMBINATION

KEY NAME	KE91N	O193N	KE93N	MEAN
1 AUGUSTA	2.83	4.73	6.07	4.54
2 HARUS	2.61	3.90	5.93	4.15
3 ENA	2.74	4.16	5.56	4.15
4 ANNETTE	2.90	4.35	5.92	4.39
5 HARMIL	1.76	4.98	5.96	4.23
6 REBECCA	2.53	3.93	6.18	4.21
7 ZAVITZ	3.05	5.12	6.64	4.94
8 KARENA	2.64	4.86	6.14	4.55
9 AC RON	2.44	4.30	6.03	4.26
10 DELAWARE	2.75	5.15	5.77	4.56
11 DIANA	2.82	3.99	6.58	4.46
LOCATION MEAN	2.64	4.50	6.07	4.40

DATA EXPRESSED RELATIVE TO LOCATION MEANS

KEY NAME	KE91N	O193N	KE93N	MEAN**
1 AUGUSTA	107	105	100	104
2 HARUS	99	87	98	94
3 ENA	104	93	92	96
4 ANNETTE	110	97	98	101
5 HARMIL	67	111	98	92
6 REBECCA	96	87	102	95
7 ZAVITZ	115	114	109	113
8 KARENA	100	108	101	103
9 AC RON	92	96	99	96
10 DELAWARE	104	115	95	105
11 DIANA	107	89	108	101
LOCATION MEAN	2.64	4.50	6.07	4.40

\*THERE ARE NO DATA FOR AREA 3 LOCATIONS IN 1992  
 \*\*MEAN OF RELATIVE YIELDS OVER ALL LOCATIONS

## ONTARIO RECOMMENDATION; FALL PASTRY WHEAT 1993

TRAIT : YIELD  
 YEAR(S): 91-93  
 AREA : 1-3  
 MGMT : NORMAL

KEY NAME	AREA 1 (10)*	AREA 2 (15)	AREA 3 (3)	PROVINCE (28)**
1 AUGUSTA	5.00	5.24	4.54	5.08
2 HARUS	5.18	5.41	4.15	5.19
3 ENA	5.06	4.56	4.15	4.70
4 ANNETTE	4.95	5.00	4.39	4.91
5 HARMIL	4.86	5.09	4.23	4.92
6 REBECCA	5.29	5.33	4.21	5.20
7 ZAVITZ	5.14	5.22	4.94	5.16
8 KARENA	5.12	5.26	4.55	5.13
9 AC RON	5.38	5.60	4.26	5.38
10 DELAWARE	5.28	5.38	4.56	5.25
11 DIANA	5.58	5.44	4.46	5.38
OVERALL MEAN	5.17	5.23	4.40	5.12

## MEAN OF RELATIVE YIELDS OVER ALL LOCATIONS

KEY NAME	AREA 1	AREA 2	AREA 3	PROVINCE
1 AUGUSTA	95.6	100.2	104.1	99.0
2 HARUS	99.9	104.5	94.4	101.8
3 ENA	99.8	86.8	95.9	92.4
4 ANNETTE	94.9	95.1	101.3	95.7
5 HARMIL	93.3	98.3	91.8	95.8
6 REBECCA	102.4	101.8	95.0	101.3
7 ZAVITZ	102.0	100.5	112.9	102.4
8 KARENA	99.3	100.1	103.0	100.1
9 AC RON	103.0	106.7	95.8	104.2
10 DELAWARE	101.8	102.7	104.5	102.6
11 DIANA	107.9	103.3	101.3	104.7
OVERALL MEAN	5.17	5.23	4.40	5.12

\* # OF LOCATIONS

\*\* WEIGHTED AVERAGE



## ONTARIO RECOMMENDATION; FALL PASTRY WHEAT 1993

YEAR(S): 91-93  
 MGMT : NORMAL  
 AREA : 1

KEY NAME	YIELD RK T/HA	TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
1 AUGUSTA	9 5.00	71.5	35	90	2.6	104	154	3.4	4.1	2.5	3.5	2.3	.	2.5
2 HARUS	5 5.18	74.4	37	93	1.5	98	152	1.9	3.7	3.0	4.0	2.4	.	3.0
3 ENA	8 5.06	73.5	37	93	1.8	103	154	2.9	4.1	3.0	1.0	0.9	.	1.8
4 ANNETTE	10 4.95	72.3	39	86	4.1	102	154	0.6	4.7	2.8	3.3	3.0	.	2.0
5 HARMIL	11 4.86	70.7	33	86	2.7	105	153	2.8	3.5	2.3	2.5	3.2	.	1.8
6 REBECCA	3 5.29	71.8	36	84	2.3	94	153	2.7	4.7	2.5	2.5	1.5	.	3.0
7 ZAVITZ	6 5.14	71.0	42	91	2.5	102	154	2.3	2.1	2.8	2.0	1.5	.	1.9
8 KARENA	7 5.12	72.6	36	89	2.2	102	153	1.3	3.3	2.8	3.0	2.0	.	2.1
9 AC RON	2 5.38	72.1	36	90	2.2	102	153	2.8	4.1	2.8	2.5	2.2	.	2.1
10 DELAWARE	4 5.28	69.2	39	90	3.8	96	155	1.8	4.8	2.8	2.8	1.9	.	2.9
11 DIANA	1 5.58	71.8	35	90	1.8	99	153	2.6	3.7	3.0	3.3	2.3	.	1.4
LOCATIONS	10	6	5	3	6	11	10	6	8	2	2	4	0	4

YIELD AVERAGES WERE BASED ON DATA FROM:  
 1991: HARROW, WOODSLEE, RIDGETOWN, MORPETH.  
 1992: HARROW, WOODSLEE, RIDGETOWN, MORPETH, INWOOD.  
 1993: RIDGETOWN.

YEAR(S): 91-93  
 MGMT : NORMAL  
 AREA : 2

KEY NAME	YIELD RK T/HA	TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
1 AUGUSTA	7 5.24	67.7	33	97	1.1	107	162	4.4	4.7	3.4	3.0	.	2.5	2.4
2 HARUS	3 5.41	71.8	34	95	1.0	101	160	2.5	4.7	4.1	7.0	.	2.0	1.7
3 ENA	11 4.56	70.7	32	96	2.2	105	162	3.9	5.2	3.9	2.0	.	2.5	2.4
4 ANNETTE	10 5.00	69.6	37	97	2.8	105	162	0.0	5.6	3.3	0.3	.	2.5	2.4
5 HARMIL	9 5.09	68.8	32	95	2.4	108	161	4.9	4.8	3.4	1.7	.	1.0	1.9
6 REBECCA	5 5.33	69.8	35	96	0.8	96	161	2.8	5.1	3.3	2.0	.	3.5	2.4
7 ZAVITZ	8 5.22	69.1	39	98	1.9	105	162	3.7	2.1	4.1	2.7	.	1.5	2.1
8 KARENA	6 5.26	69.4	33	96	1.0	103	161	2.7	4.1	3.6	3.3	.	2.0	2.7
9 AC RON	1 5.60	69.5	34	98	1.8	103	161	3.4	4.9	3.2	2.0	.	2.0	2.4
10 DELAWARE	4 5.38	67.7	36	98	2.8	98	163	2.4	5.8	3.4	2.0	.	3.0	2.4
11 DIANA	2 5.44	68.7	31	97	0.6	101	161	3.2	3.8	3.7	0.3	.	2.0	2.1
LOCATIONS	15	16	16	6	10	16	11	3	4	7	1	0	1	3

YIELD AVERAGES WERE BASED ON DATA FROM:  
 1991: NAIRN, WOODSTOCK, ELORA, BATH.  
 1992: NAIRN, LONDON, WOODSTOCK, ELORA, BATH.  
 1993: NAIRN, LONDON, WINTHROP, ELORA, HARRISTON, BATH.

\* DAYS FROM JAN.1  
 A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS

## ONTARIO RECCOMENDATION; FALL PASTRY WHEAT 1993

YEAR(S): 91-93\*\*  
 MGMT : NORMAL  
 AREA : 3

KEY NAME	YIELD RK T/HA	TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
1 AUGUSTA	4 4.54	76.1	36	84	1.0	103	165	.	.	.	.	.	.	.
2 HARUS	10 4.15	78.0	37	69	0.0	94	163	.	.	.	.	.	.	.
3 ENA	10 4.15	79.1	35	82	0.0	98	165	.	.	.	.	.	.	.
4 ANNETTE	6 4.39	78.4	41	78	1.0	97	165	.	.	.	.	.	.	.
5 HARMIL	8 4.23	75.7	33	82	0.0	102	164	.	.	.	.	.	.	.
6 REBECCA	9 4.21	76.1	35	85	0.0	92	164	.	.	.	.	.	.	.
7 ZAVITZ	1 4.94	76.1	44	80	0.0	100	165	.	.	.	.	.	.	.
8 KARENA	3 4.55	77.6	35	78	0.0	100	163	.	.	.	.	.	.	.
9 AC RON	7 4.26	76.0	36	77	0.0	100	164	.	.	.	.	.	.	.
10 DELAWARE	2 4.56	75.1	40	79	1.5	89	166	.	.	.	.	.	.	.
11 DIANA	5 4.46	76.1	32	79	1.5	98	164	.	.	.	.	.	.	.
LOCATIONS	3	5	5	4	1	5	4	0	0	0	0	0	0	0

YIELD AVERAGES WERE BASED ON DATA FROM:

1991: KEMPTVILLE

\*\*1992: THERE ARE NO YIELD DATA FOR AREA 3 LOCATIONS IN 1992.

1993: KEMPTVILLE, OTTAWA-1.

YEAR(S): 91-93  
 MGMT : NORMAL  
 AREA(S): 1- 3

KEY NAME	YIELD RK T/HA	TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
1 AUGUSTA	8 5.08	70.1	34	91	1.6	105	159	3.7	4.3	3.2	3.3	2.3	2.5	2.4
2 HARUS	5 5.19	73.5	35	86	1.1	99	158	2.1	4.0	3.9	5.0	2.4	2.0	2.4
3 ENA	11 4.70	72.9	34	91	1.9	103	159	3.2	4.5	3.7	1.3	0.9	2.5	2.1
4 ANNETTE	10 4.91	71.8	38	88	3.2	103	159	0.4	5.0	3.2	2.3	3.0	2.5	2.1
5 HARMIL	9 4.92	70.5	32	89	2.4	106	158	3.5	4.0	3.2	2.2	3.2	1.0	1.9
6 REBECCA	4 5.20	71.4	35	90	1.3	95	159	2.7	4.8	3.1	2.3	1.5	3.5	2.7
7 ZAVITZ	6 5.16	70.8	41	91	2.0	103	160	2.8	2.1	3.8	2.2	1.5	1.5	2.0
8 KARENA	7 5.13	71.6	34	89	1.4	102	158	1.8	3.6	3.4	3.1	2.0	2.0	2.4
9 AC RON	1 5.38	71.3	35	90	1.9	102	158	3.0	4.3	3.1	2.3	2.2	2.0	2.2
10 DELAWARE	3 5.25	69.4	38	90	3.1	96	160	2.0	5.2	3.2	2.5	1.9	3.0	2.7
11 DIANA	1 5.38	70.8	32	90	1.1	100	159	2.8	3.7	3.6	2.3	2.3	2.0	1.7
LOCATIONS	28	27	26	13	17	32	25	9	12	9	3	4	1	7

YIELD AVERAGES WERE BASED ON DATA FROM:

1991: HARROW, WOODSLEE, RIDGETOWN, MORPETH, NAIRN, WOODSTOCK, ELORA, BATH, KEMPTVILLE.

1992: HARROW, WOODSLEE, RIDGETOWN, MORPETH, INWOOD, NAIRN, LONDON, WOODSTOCK, ELORA, BATH.

1993: RIDGETOWN, NAIRN, LONDON, WINTHROP, ELORA, HARRISTON, BATH, KEMPTVILLE, OTTAWA-1.

\* DAYS FROM JAN.1

A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS

## ONTARIO RECOMMENDATION; FALL PASTRY WHEAT 1993

TRAIT : YIELD  
 YEAR : 93  
 AREA : 1

ABBREVIATED HEADINGS REPRESENT LOCATION-YEAR-MANAGEMENT COMBINATION

KEY NAME	RN93N	MEAN
1 AUGUSTA	3.90	3.90
2 HARUS	4.45	4.45
3 ENA	4.06	4.06
4 ANNETTE	4.04	4.04
5 HARMIL	4.51	4.51
6 REBECCA	4.21	4.21
7 ZAVITZ	4.36	4.36
8 KARENA	4.14	4.14
9 AC RON	4.30	4.30
10 DELAWARE	4.10	4.10
11 DIANA	4.27	4.27
12 CASEY	4.89	4.89
LOCATION MEAN	4.27	4.27

DATA EXPRESSED RELATIVE TO LOCATION MEANS

KEY NAME	RN93N	MEAN*
1 AUGUSTA	91	91
2 HARUS	104	104
3 ENA	95	95
4 ANNETTE	95	95
5 HARMIL	106	106
6 REBECCA	99	99
7 ZAVITZ	102	102
8 KARENA	97	97
9 AC RON	101	101
10 DELAWARE	96	96
11 DIANA	100	100
12 CASEY	115	115
LOCATION MEAN	4.27	4.27

\*MEAN OF RELATIVE YIELDS OVER ALL LOCATIONS

## ONTARIO RECOMMENDATION; FALL PASTRY WHEAT 1993

TRAIT : YIELD  
 YEAR : 93  
 AREA : 2

ABBREVIATED HEADINGS REPRESENT LOCATION-YEAR-MANAGEMENT COMBINATION

KEY NAME	WP93N	NN93N	LN93N	EA93N	HN93N	BH93N	MEAN
1 AUGUSTA	2.63	5.19	3.46	4.58	3.53	4.67	4.01
2 HARUS	3.30	5.54	3.76	4.66	4.03	5.19	4.41
3 ENA	2.03	4.42	3.16	4.18	2.74	3.37	3.32
4 ANNETTE	2.67	4.64	3.09	4.15	2.85	4.46	3.64
5 HARMIL	2.86	5.03	3.44	4.74	3.51	5.04	4.10
6 REBECCA	2.92	5.31	3.60	4.70	3.65	4.41	4.10
7 ZAVITZ	3.11	4.98	3.92	4.65	3.61	4.24	4.09
8 KARENA	3.15	5.43	3.43	4.53	2.76	4.38	3.95
9 AC RON	3.03	5.50	3.90	4.70	2.95	4.94	4.17
10 DELAWARE	2.83	5.60	3.85	4.60	3.51	4.39	4.13
11 DIANA	2.78	5.23	3.78	4.48	2.99	5.18	4.07
12 CASEY	3.45	5.52	3.91	4.74	3.38	4.73	4.29
LOCATION MEAN	2.90	5.20	3.61	4.56	3.29	4.58	4.02

## DATA EXPRESSED RELATIVE TO LOCATION MEANS

KEY NAME	WP93N	NN93N	LN93N	EA93N	HN93N	BH93N	MEAN*
1 AUGUSTA	91	100	96	100	107	102	99
2 HARUS	114	107	104	102	122	113	110
3 ENA	70	85	88	92	83	74	82
4 ANNETTE	92	89	86	91	87	97	90
5 HARMIL	99	97	95	104	107	110	102
6 REBECCA	101	102	100	103	111	96	102
7 ZAVITZ	107	96	109	102	110	93	103
8 KARENA	109	104	95	99	84	96	98
9 AC RON	105	106	108	103	90	108	103
10 DELAWARE	98	108	107	101	107	96	103
11 DIANA	96	101	105	98	91	113	101
12 CASEY	119	106	108	104	103	103	107
LOCATION MEAN	2.90	5.20	3.61	4.56	3.29	4.58	4.02

\*MEAN OF RELATIVE YIELDS OVER ALL LOCATIONS

ONTARIO RECOMMENDATION; FALL PASTRY WHEAT 1993

TRAIT : YIELD  
 YEAR : 93  
 AREA : 3

ABBREVIATED HEADINGS REPRESENT LOCATION-YEAR-MANAGEMENT COMBINATION

KEY NAME	O193N	KE93N	MEAN
1 AUGUSTA	4.73	6.07	5.40
2 HARUS	3.90	5.93	4.91
3 ENA	4.16	5.56	4.86
4 ANNETTE	4.35	5.92	5.14
5 HARMIL	4.98	5.96	5.47
6 REBECCA	3.93	6.18	5.05
7 ZAVITZ	5.12	6.64	5.88
8 KARENA	4.86	6.14	5.50
9 AC RON	4.30	6.03	5.16
10 DELAWARE	5.15	5.77	5.46
11 DIANA	3.99	6.58	5.28
12 CASEY	4.23	6.22	5.22
LOCATION MEAN	4.47	6.08	5.28

DATA EXPRESSED RELATIVE TO LOCATION MEANS

KEY NAME	O193N	KE93N	MEAN*
1 AUGUSTA	106	100	103
2 HARUS	87	97	92
3 ENA	93	91	92
4 ANNETTE	97	97	97
5 HARMIL	111	98	105
6 REBECCA	88	102	95
7 ZAVITZ	114	109	112
8 KARENA	109	101	105
9 AC RON	96	99	98
10 DELAWARE	115	95	105
11 DIANA	89	108	99
12 CASEY	95	102	98
LOCATION MEAN	4.47	6.08	5.28

\*MEAN OF RELATIVE YIELDS OVER ALL LOCATIONS

## ONTARIO RECOMMENDATION; FALL PASTRY WHEAT 1993

TRAIT : YIELD  
 YEAR : 93  
 AREA : 1-3  
 MGMT : NORMAL

KEY NAME	AREA 1 (1)*	AREA 2 (6)	AREA 3 (2)	PROVINCE (9)**
1 AUGUSTA	3.90	4.01	5.40	4.31
2 HARUS	4.45	4.41	4.91	4.53
3 ENA	4.06	3.32	4.86	3.74
4 ANNETTE	4.04	3.64	5.14	4.02
5 HARMIL	4.51	4.10	5.47	4.45
6 REBECCA	4.21	4.10	5.05	4.32
7 ZAVITZ	4.36	4.09	5.88	4.51
8 KARENA	4.14	3.95	5.50	4.31
9 AC RON	4.30	4.17	5.16	4.41
10 DELAWARE	4.10	4.13	5.46	4.42
11 DIANA	4.27	4.07	5.28	4.36
12 CASEY	4.89	4.29	5.22	4.56
OVERALL MEAN	4.27	4.02	5.28	4.33

## MEAN OF RELATIVE YIELDS OVER ALL LOCATIONS

KEY NAME	AREA 1	AREA 2	AREA 3	PROVINCE
1 AUGUSTA	91.4	99.3	102.7	99.2
2 HARUS	104.2	110.4	92.3	105.7
3 ENA	95.1	81.8	92.2	85.6
4 ANNETTE	94.6	90.3	97.3	92.3
5 HARMIL	105.6	101.9	104.6	102.9
6 REBECCA	98.6	102.1	94.7	100.1
7 ZAVITZ	102.1	102.7	111.8	104.6
8 KARENA	97.0	97.8	104.8	99.3
9 AC RON	100.7	103.2	97.6	101.7
10 DELAWARE	96.0	102.6	105.0	102.4
11 DIANA	100.0	100.6	98.7	100.1
12 CASEY	114.5	107.2	98.4	106.1
OVERALL MEAN	4.27	4.02	5.28	4.33

\* # OF LOCATIONS

\*\* WEIGHTED AVERAGE

## ONTARIO RECOMMENDATION; FALL PASTRY WHEAT 1993

YEAR : 93  
 MGMT : NORMAL  
 AREA : 1

KEY NAME	YIELD		TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA													
1 AUGUSTA	12	3.90	66.5	26	.	2.5	109	160	3.0	3.0	.	.	0.4	.	5.5
2 HARUS	3	4.45	70.6	30	.	0.5	103	157	1.0	3.5	.	.	2.0	.	4.8
3 ENA	10	4.06	72.3	27	.	0.8	104	159	1.0	3.0	.	.	0.2	.	4.3
4 ANNETTE	11	4.04	68.8	28	.	4.2	105	161	1.0	2.7	.	.	1.1	.	4.5
5 HARMIL	2	4.51	65.5	27	.	2.0	110	158	1.0	3.0	.	.	1.6	.	4.0
6 REBECCA	7	4.21	68.1	27	.	2.2	95	158	1.0	3.7	.	.	0.6	.	4.3
7 ZAVITZ	4	4.36	67.4	33	.	2.5	103	160	1.0	2.2	.	.	0.9	.	3.8
8 KARENA	8	4.14	68.0	26	.	1.5	105	159	0.0	3.5	.	.	1.3	.	3.3
9 AC RON	5	4.30	66.0	24	.	1.2	106	158	1.0	3.9	.	.	1.1	.	3.3
10 DELAWARE	9	4.10	64.5	29	.	3.2	99	161	1.0	3.5	.	.	0.6	.	4.8
11 DIANA	6	4.27	68.1	25	.	1.8	101	159	2.0	3.3	.	.	1.5	.	3.5
12 CASEY	1	4.89	73.2	33	.	2.5	95	157	1.0	2.0	.	.	1.6	.	3.0
LOCATIONS		1	1	1	0	1	2	2	1	2	0	0	2	0	1

YIELD AVERAGES WERE BASED ON DATA FROM: RIDGETOWN.

YEAR : 93  
 MGMT : NORMAL  
 AREA : 2

KEY NAME	YIELD		TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA													
1 AUGUSTA	9	4.01	63.3	28	100	1.5	109	168	4.2	7.0	2.0	.	.	.	1.6
2 HARUS	1	4.41	68.6	30	100	1.5	101	166	1.9	6.5	2.6	.	.	.	1.3
3 ENA	12	3.32	65.7	27	100	2.1	104	168	4.2	7.0	2.7	.	.	.	2.7
4 ANNETTE	11	3.64	64.4	30	99	2.7	104	168	0.0	7.8	2.1	.	.	.	2.6
5 HARMIL	5	4.10	64.0	27	99	2.6	107	167	5.0	6.8	2.4	.	.	.	1.9
6 REBECCA	5	4.10	65.7	29	97	1.0	96	167	3.2	7.5	1.9	.	.	.	1.8
7 ZAVITZ	7	4.09	64.3	34	100	3.0	104	168	3.9	2.0	3.0	.	.	.	2.2
8 KARENA	10	3.95	64.7	28	99	1.3	103	167	2.4	5.0	1.9	.	.	.	2.3
9 AC RON	3	4.17	64.7	28	100	2.2	102	167	3.5	7.0	1.8	.	.	.	2.7
10 DELAWARE	4	4.13	63.4	32	100	2.7	98	169	2.7	8.5	2.2	.	.	.	2.3
11 DIANA	8	4.07	64.3	27	100	0.9	103	167	2.7	4.0	2.3	.	.	.	1.9
12 CASEY	2	4.29	66.4	30	100	1.4	97	166	2.2	6.5	2.5	.	.	.	1.4
LOCATIONS		6	7	7	2	4	7	5	2	1	4	0	0	0	2

YIELD AVERAGES WERE BASED ON DATA FROM: NAIRN, LONDON, WINTHROP, ELORA, HARRISTON, BATH.

\* DAYS FROM JAN.1

A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS

## ONTARIO RECOMMENDATION; FALL PASTRY WHEAT 1993

YEAR : 93  
 MGMT : NORMAL  
 AREA : 3

KEY NAME	YIELD		TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA													
1 AUGUSTA	5	5.40	78.1	38	89	1.0	115	170	.	.	.	.	.	.	.
2 HARUS	11	4.91	79.6	39	72	0.0	104	168	.	.	.	.	.	.	.
3 ENA	12	4.86	81.9	38	88	0.0	101	170	.	.	.	.	.	.	.
4 ANNETTE	9	5.14	79.8	44	80	1.0	107	170	.	.	.	.	.	.	.
5 HARMIL	3	5.47	77.3	38	91	0.0	114	169	.	.	.	.	.	.	.
6 REBECCA	10	5.05	77.3	38	85	0.0	101	169	.	.	.	.	.	.	.
7 ZAVITZ	1	5.88	78.6	48	89	0.0	112	170	.	.	.	.	.	.	.
8 KARENA	2	5.50	79.9	37	80	0.0	109	168	.	.	.	.	.	.	.
9 AC RON	8	5.16	77.8	37	81	0.0	113	168	.	.	.	.	.	.	.
10 DELAWARE	4	5.46	76.8	41	89	1.5	97	171	.	.	.	.	.	.	.
11 DIANA	6	5.28	78.6	33	83	1.5	109	169	.	.	.	.	.	.	.
12 CASEY	7	5.22	78.9	39	73	0.0	93	168	.	.	.	.	.	.	.
LOCATIONS		2	2	2	2	1	2	2	0	0	0	0	0	0	0

YIELD AVERAGES WERE BASED ON DATA FROM: KEMPTVILLE, OTTAWA-1.

YEAR : 93  
 MGMT : NORMAL  
 AREA(S): 1- 3

KEY NAME	YIELD		TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA													
1 AUGUSTA	9	4.31	66.6	30	95	1.6	110	167	3.8	4.3	2.0	.	0.4	.	2.9
2 HARUS	2	4.53	71.0	32	86	1.1	102	164	1.6	4.5	2.6	.	2.0	.	2.4
3 ENA	12	3.74	69.6	29	94	1.5	103	166	3.1	4.3	2.7	.	0.2	.	3.2
4 ANNETTE	11	4.02	67.9	33	89	2.7	105	167	0.3	4.4	2.1	.	1.1	.	3.2
5 HARMIL	4	4.45	66.8	29	95	2.0	109	165	3.7	4.3	2.4	.	1.6	.	2.6
6 REBECCA	8	4.32	68.3	30	91	1.0	97	165	2.4	4.9	1.9	.	0.6	.	2.6
7 ZAVITZ	3	4.51	67.4	37	94	2.4	105	166	2.9	2.1	3.0	.	0.9	.	2.7
8 KARENA	9	4.31	68.1	29	89	1.1	104	165	1.6	4.0	1.9	.	1.3	.	2.6
9 AC RON	6	4.41	67.4	30	90	1.7	105	165	2.7	4.9	1.8	.	1.1	.	2.9
10 DELAWARE	5	4.42	66.2	33	94	2.5	98	167	2.1	5.2	2.2	.	0.6	.	3.1
11 DIANA	7	4.36	67.5	28	91	1.1	104	166	2.4	3.5	2.3	.	1.5	.	2.4
12 CASEY	1	4.56	69.6	32	87	1.3	96	165	1.8	3.5	2.5	.	1.6	.	1.9
LOCATIONS		9	10	10	4	6	11	9	3	3	4	0	2	0	3

YIELD AVERAGES WERE BASED ON DATA FROM: RIDGETOWN, NAIRN, LONDON, WINTHROP, ELORA, HARRISTON, BATH, KEMPTVILLE, OTTAWA-1.

\* DAYS FROM JAN.1  
 A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS



## ONTARIO RECOMMENDATION; FALL PASTRY WHEAT 1993

LOCATION - WOODSLEE  
MANAGEMENT - NORMAL

KEY NAME	YIELD		TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA													
1 AUGUSTA	.	.	.	.	.	.	99	158	.	1.0	.	.	0.8	.	5.5
2 HARUS	.	.	.	.	.	.	94	156	.	1.0	.	.	2.5	.	4.8
3 ENA	.	.	.	.	.	.	94	158	.	1.0	.	.	0.3	.	4.3
4 ANNETTE	.	.	.	.	.	.	95	160	.	1.3	.	.	0.0	.	4.5
5 HARMIL	.	.	.	.	.	.	102	156	.	1.0	.	.	1.8	.	4.0
6 REBECCA	.	.	.	.	.	.	87	157	.	1.3	.	.	1.3	.	4.3
7 ZAVITZ	.	.	.	.	.	.	91	158	.	1.3	.	.	0.3	.	3.8
8 KARENA	.	.	.	.	.	.	96	157	.	1.0	.	.	1.5	.	3.3
9 AC RON	.	.	.	.	.	.	96	156	.	2.8	.	.	0.8	.	3.3
10 DELAWARE	.	.	.	.	.	.	90	159	.	1.0	.	.	0.3	.	4.8
11 DIANA	.	.	.	.	.	.	90	158	.	1.5	.	.	1.0	.	3.5
12 CASEY	.	.	.	.	.	.	84	156	.	1.0	.	.	2.3	.	3.0
MEANS	.	.	.	.	.	.	93	157	.	1.3	.	.	1.1	.	4.1

LOCATION - RIDGETOWN  
MANAGEMENT - NORMAL

KEY NAME	YIELD		TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA													
1 AUGUSTA	12	3.90	66.5	26	.	2.5	119	161	3.0	5.0	.	.	0.0	.	.
2 HARUS	3	4.45	70.6	30	.	0.5	112	158	1.0	6.0	.	.	1.5	.	.
3 ENA	10	4.06	72.3	27	.	0.8	114	160	1.0	5.0	.	.	0.0	.	.
4 ANNETTE	11	4.04	68.8	28	.	4.2	115	161	1.0	4.0	.	.	2.3	.	.
5 HARMIL	2	4.51	65.5	27	.	2.0	118	160	1.0	5.0	.	.	1.5	.	.
6 REBECCA	7	4.21	68.1	27	.	2.2	103	158	1.0	6.0	.	.	0.0	.	.
7 ZAVITZ	4	4.36	67.4	33	.	2.5	115	162	1.0	3.0	.	.	1.5	.	.
8 KARENA	8	4.14	68.0	26	.	1.5	113	160	0.0	6.0	.	.	1.0	.	.
9 AC RON	5	4.30	66.0	24	.	1.2	116	159	1.0	5.0	.	.	1.5	.	.
10 DELAWARE	9	4.10	64.5	29	.	3.2	107	162	1.0	6.0	.	.	1.0	.	.
11 DIANA	6	4.27	68.1	25	.	1.8	112	160	2.0	5.0	.	.	2.0	.	.
12 CASEY	1	4.89	73.2	33	.	2.5	106	158	1.0	3.0	.	.	1.0	.	.
MEANS		4.27	68.3	28	.	2.1	113	160	1.2	4.9	.	.	1.2	.	.

\* DAYS FROM JAN.1

A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS

## ONTARIO RECOMMENDATION; FALL PASTRY WHEAT 1993

LOCATION - WINTHROP  
 MANAGEMENT - NORMAL

KEY NAME	YIELD		TSTW	KW	SUR	LOG	HGT	HDT	MIL	LRS	SEP	GLB	HBL	SRS	BYD
	RK	T/HA	K/HL	MG	%	0-9	CM	*	0-9	0-9	0-9	0-9	0-9	0-9	0-9
1 AUGUSTA	11	2.63	59.2	25	.	.	105	169	4.0	.	2.0	.	.	4.5	0.0
2 HARUS	2	3.30	62.9	25	.	.	96	167	2.0	.	4.0	.	.	5.0	0.0
3 ENA	12	2.03	62.9	24	.	.	103	170	6.0	.	5.0	.	.	6.5	1.0
4 ANNETTE	10	2.67	61.2	28	.	.	100	168	0.0	.	3.0	.	.	6.0	0.8
5 HARMIL	7	2.86	60.3	24	.	.	103	169	6.0	.	5.0	.	.	4.5	0.8
6 REBECCA	6	2.92	61.0	25	.	.	95	169	3.0	.	3.0	.	.	6.5	0.3
7 ZAVITZ	4	3.11	62.9	33	.	.	98	169	4.0	.	4.0	.	.	4.5	0.3
8 KARENA	3	3.15	62.1	26	.	.	103	168	2.0	.	2.0	.	.	5.0	0.3
9 AC RON	5	3.03	60.8	26	.	.	98	168	3.0	.	2.0	.	.	6.5	0.3
10 DELAWARE	8	2.83	60.8	28	.	.	98	170	2.0	.	2.0	.	.	5.5	0.3
11 DIANA	9	2.78	58.7	24	.	.	103	168	3.0	.	3.0	.	.	5.0	0.3
12 CASEY	1	3.45	63.5	30	.	.	91	167	2.0	.	2.0	.	.	4.0	0.3
MEANS		2.90	61.4	27	.	.	99	169	2.9	.	3.1	.	.	5.3	0.4

LOCATION - NAIRN  
 MANAGEMENT - NORMAL

KEY NAME	YIELD		TSTW	KW	SUR	LOG	HGT	HDT	MIL	LRS	SEP	GLB	HBL	SRS	BYD
	RK	T/HA	K/HL	MG	%	0-9	CM	*	0-9	0-9	0-9	0-9	0-9	0-9	0-9
1 AUGUSTA	8	5.19	69.0	34	.	1.3	102	163	4.3	7.0	3.5	.	.	5.0	.
2 HARUS	2	5.54	72.3	35	.	0.8	100	161	1.8	6.5	3.3	.	.	4.0	.
3 ENA	12	4.42	68.9	30	.	2.5	108	161	2.3	7.0	3.3	.	.	6.0	.
4 ANNETTE	11	4.64	67.7	32	.	3.1	108	163	0.0	7.8	3.0	.	.	5.0	.
5 HARMIL	9	5.03	66.1	29	.	4.5	100	161	4.0	6.8	3.0	.	.	2.5	.
6 REBECCA	6	5.31	69.7	34	.	0.1	94	161	3.3	7.5	2.8	.	.	4.0	.
7 ZAVITZ	10	4.98	68.1	40	.	2.9	104	163	3.8	2.0	4.0	.	.	3.0	.
8 KARENA	5	5.43	71.4	34	.	1.3	102	162	2.8	5.0	2.8	.	.	4.0	.
9 AC RON	4	5.50	72.2	35	.	1.6	94	161	4.0	7.0	3.0	.	.	4.0	.
10 DELAWARE	1	5.60	68.0	38	.	1.5	98	164	3.3	8.5	3.5	.	.	3.5	.
11 DIANA	7	5.23	69.6	30	.	0.1	100	162	2.3	4.0	3.3	.	.	5.0	.
12 CASEY	3	5.52	72.2	35	.	0.8	103	161	2.3	6.5	4.0	.	.	3.0	.
MEANS		5.20	69.6	34	.	1.7	101	162	2.9	6.3	3.3	.	.	4.1	.

\* DAYS FROM JAN.1

A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS

## ONTARIO RECOMMENDATION; FALL PASTRY WHEAT 1993

LOCATION - ELORA  
MANAGEMENT - NORMAL

KEY NAME	YIELD		TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA													
1 AUGUSTA	8	4.58	64.9	31	100	1.8	111	171	.	.	.	.	.	3.8	.
2 HARUS	5	4.66	71.7	34	99	3.3	103	168	.	.	.	.	.	2.5	.
3 ENA	11	4.18	68.6	28	100	4.8	105	170	.	.	.	.	.	3.3	.
4 ANNETTE	12	4.15	62.4	33	99	4.7	105	171	.	.	.	.	.	3.8	.
5 HARMIL	1	4.74	63.0	30	99	3.8	110	170	.	.	.	.	.	2.3	.
6 REBECCA	3	4.70	69.9	34	95	1.5	103	170	.	.	.	.	.	1.8	.
7 ZAVITZ	6	4.65	64.2	37	100	5.0	101	170	.	.	.	.	.	2.0	.
8 KARENA	9	4.53	63.6	28	100	1.5	116	170	.	.	.	.	.	2.5	.
9 AC RON	3	4.70	63.0	29	100	4.0	105	170	.	.	.	.	.	2.8	.
10 DELAWARE	7	4.60	60.5	30	100	5.8	100	172	.	.	.	.	.	2.0	.
11 DIANA	10	4.48	67.4	32	100	1.8	106	169	.	.	.	.	.	3.5	.
12 CASEY	1	4.74	64.9	31	100	2.7	99	168	.	.	.	.	.	3.3	.
MEANS		4.56	65.3	31	99	3.4	105	170	.	.	.	.	.	2.8	.

LOCATION - HARRISTON  
MANAGEMENT - NORMAL

KEY NAME	YIELD		TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA													
1 AUGUSTA	4	3.53	59.2	24	100	.	100	171	.	.	2.3	.	.	5.5	.
2 HARUS	1	4.03	64.3	25	100	.	93	169	.	.	2.5	.	.	4.3	.
3 ENA	12	2.74	61.3	22	100	.	95	170	.	.	2.0	.	.	4.5	.
4 ANNETTE	10	2.85	60.8	28	98	.	98	171	.	.	2.0	.	.	5.5	.
5 HARMIL	5	3.51	62.9	23	99	.	100	169	.	.	1.3	.	.	3.3	.
6 REBECCA	2	3.65	62.9	25	99	.	88	170	.	.	1.5	.	.	3.3	.
7 ZAVITZ	3	3.61	62.3	31	100	.	95	170	.	.	3.5	.	.	3.3	.
8 KARENA	11	2.76	60.1	23	98	.	95	170	.	.	2.0	.	.	4.3	.
9 AC RON	9	2.95	58.1	22	99	.	95	170	.	.	1.8	.	.	5.3	.
10 DELAWARE	5	3.51	60.4	30	100	.	90	172	.	.	2.5	.	.	4.3	.
11 DIANA	8	2.99	58.3	23	99	.	98	171	.	.	2.3	.	.	5.3	.
12 CASEY	7	3.38	62.7	26	100	.	88	169	.	.	3.5	.	.	6.3	.
MEANS		3.29	61.1	25	99	.	95	170	.	.	2.3	.	.	4.6	.

\* DAYS FROM JAN.1

A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS

## ONTARIO RECOMMENDATION; FALL PASTRY WHEAT 1993

LOCATION - BATH  
MANAGEMENT - NORMAL

KEY NAME	YIELD		TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA													
1 AUGUSTA	6	4.67	74.4	34	.	.	109	.	.	.	4	.	.	.	.
2 HARUS	1	5.19	78.0	35	.	.	96	.	.	.	5	.	.	.	.
3 ENA	12	3.37	74.4	34	.	.	93	.	.	.	5	.	.	.	.
4 ANNETTE	7	4.46	77.4	40	.	.	98	.	.	.	5	.	.	.	.
5 HARMIL	3	5.04	75.9	33	.	.	104	.	.	.	4	.	.	.	.
6 REBECCA	8	4.41	74.9	35	.	.	91	.	.	.	4	.	.	.	.
7 ZAVITZ	11	4.24	73.6	43	.	.	109	.	.	.	3	.	.	.	.
8 KARENA	10	4.38	74.2	34	.	.	86	.	.	.	6	.	.	.	.
9 AC RON	4	4.94	76.1	36	.	.	109	.	.	.	4	.	.	.	.
10 DELAWARE	9	4.39	71.9	36	.	.	96	.	.	.	6	.	.	.	.
11 DIANA	2	5.18	74.9	32	.	.	96	.	.	.	5	.	.	.	.
12 CASEY	5	4.73	76.5	33	.	.	91	.	.	.	6	.	.	.	.
MEANS		4.58	75.2		.	.	98	.	.	.	5	.	.	.	.

LOCATION - OTTAWA-1  
MANAGEMENT - NORMAL

KEY NAME	YIELD		TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA													
1 AUGUSTA	5	4.73	70.6	32	83	1.0	113	170	.	.	.	.	.	.	.
2 HARUS	12	3.90	72.4	33	48	0.0	98	169	.	.	.	.	.	.	.
3 ENA	9	4.16	72.5	31	80	0.0	113	171	.	.	.	.	.	.	.
4 ANNETTE	6	4.35	71.6	38	64	1.0	105	171	.	.	.	.	.	.	.
5 HARMIL	3	4.98	68.9	30	86	0.0	108	169	.	.	.	.	.	.	.
6 REBECCA	11	3.93	69.0	28	75	0.0	95	168	.	.	.	.	.	.	.
7 ZAVITZ	2	5.12	70.3	42	84	0.0	108	170	.	.	.	.	.	.	.
8 KARENA	4	4.86	72.5	33	70	0.0	103	168	.	.	.	.	.	.	.
9 AC RON	7	4.30	69.3	32	74	0.0	108	168	.	.	.	.	.	.	.
10 DELAWARE	1	5.15	71.0	38	84	1.5	95	172	.	.	.	.	.	.	.
11 DIANA	10	3.99	70.3	29	71	1.5	105	170	.	.	.	.	.	.	.
12 CASEY	8	4.23	71.0	33	56	0.0	90	169	.	.	.	.	.	.	.
MEANS		4.47	70.8	33	73	0.4	103	170	.	.	.	.	.	.	.

LOCATION - KEMPTVILLE  
MANAGEMENT - NORMAL

KEY NAME	YIELD		TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA													
1 AUGUSTA	6	6.07	85.6	43	95	.	116	169	.	.	.	.	.	.	.
2 HARUS	9	5.93	86.8	45	95	.	110	167	.	.	.	.	.	.	.
3 ENA	12	5.56	91.4	44	96	.	88	169	.	.	.	.	.	.	.
4 ANNETTE	10	5.92	87.9	49	95	.	109	168	.	.	.	.	.	.	.
5 HARMIL	8	5.96	85.6	46	96	.	120	168	.	.	.	.	.	.	.
6 REBECCA	4	6.18	85.6	47	95	.	106	169	.	.	.	.	.	.	.
7 ZAVITZ	1	6.64	86.8	54	93	.	116	169	.	.	.	.	.	.	.
8 KARENA	5	6.14	87.4	40	89	.	114	168	.	.	.	.	.	.	.
9 AC RON	7	6.03	86.2	42	87	.	118	168	.	.	.	.	.	.	.
10 DELAWARE	11	5.77	82.7	44	93	.	99	169	.	.	.	.	.	.	.
11 DIANA	2	6.58	86.8	36	94	.	113	168	.	.	.	.	.	.	.
12 CASEY	3	6.22	86.8	44	90	.	96	167	.	.	.	.	.	.	.
MEANS		6.08	86.6	45	93	.	109	168	.	.	.	.	.	.	.

\* DAYS FROM JAN.1

A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS

ONTARIO RECOMMENDATION TRIALS; FALL RED WHEAT 1993

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LEGEND

- YLD - YIELD (T/HA; 1 T/HA = 14.87 BU/AC)  
 TSTW - TEST WEIGHT (KG/HL)  
 KW - KERNEL WEIGHT (MG)  
 SUR - SURVIVAL (%)  
 LOG - LODGING  
 HGT - HEIGHT (CM)  
 HDT - HEADING DATE  
 MIL - MILDEW  
 LRS - LEAF RUST  
 SEP - SEPTORIA  
 GLB - GLUME BLOTCH  
 HBL - HEAD BLIGHT  
 SSM - SPINDLE STREAK MOSAIC VIRUS  
 BYD - BARLEY YELLOW DWARF VIRUS  
 MAT - MATURITY

A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS

LOCATIONS ABBREVIATIONS

- EA ELORA  
 BG BEACHBURG  
 BH BATH  
 HN HARRISTON  
 KE KEMPTVILLE  
 LL LISTOWEL  
 LN LONDON  
 O1 OTTAWA-1  
 NN NAIRN  
 RN RIDGETOWN  
 WE WOODSLEE  
 WK WOODSTOCK  
 WP WINTHROP

## ONTARIO RECOMMENDATION TRIALS; FALL RED WHEAT 1993

## DESCRIPTION OF REGISTERED VARIETIES

**KARAT:**

P.EXTREM/BEZ-1. DEVELOPED IN AUSTRIA AND MARKETED IN ONTARIO BY C&M SEEDS, PALMERSTON, ONTARIO. A STRONG STRAWED TALL VARIETY WITH GOOD TEST WEIGHT. HIGH FLOUR AND GRAIN PROTEIN AS WELL AS HIGH LOAF VOLUME. GOOD RESISTANCE TO MILDEW, AND HEAD BLIGHT. SUSCEPTIBLE TO SEPTORIA AND SSMV.

**RUBY, (TW84BU039):**

FREDRICK/PRIBOY. DEVELOPED AT HYLAND FARMS CROP RESEARCH, MORPETH, CANADA. MARKETED IN CANADA BY W.G. THOMPSON AND SONS LTD. A VERY HIGH YIELDING, SHORT STRAWED, VARIETY WITH EXCELLENT WINTER SURVIVAL. A MIDDLE STRENGTH WHEAT WITH HIGH TEST WEIGHT AND FLOUR YIELD. GOOD LEAF RUST, BYDV, AND GLUME BLOTCH RESISTANCE, MODERATE SUSCEPTIBILITY TO OTHER PREVALENT DISEASES.

**LUCAS, (M.9.1):**

1959-w1-2. DEVELOPED IN GERMANY AND MARKETED IN ONTARIO BY C&M SEEDS, PALMERSTON, ONT. A HIGH YIELDING AWNED VARIETY WITH EARLY MATURITY, SHORT STRAW AND LARGE KERNELS. GOOD RESISTANCE TO POWDERY MILDEW AND LEAF RUST. SUSCEPTIBLE TO SEPTORIA.

**FUNDULEA:**

AURORA/RILEY.67. DEVELOPED IN ROMANIA AND MARKETED IN ONTARIO BY C&M SEEDS, PALMERSTON, ONT. A HIGH YIELDING, SHORT STRAWED VARIETY WITH GOOD WINTER SURVIVAL AND GOOD RESISTANCE TO MILDEW, LEAF RUST, AND SSMV. GOOD MILLING QUALITY, SUITABLE FOR BREAD MAKING IN BLENDS WITH CANADIAN WESTERN RED SPRING. SUSCEPTIBLE TO GLUME BLOTCH.

## ONTARIO RECOMMENDATION; FALL RED WHEAT 1993

ABBREVIATED HEADINGS REPRESENT LOCATION-YEAR-MANAGEMENT COMBINATION

TRAIT : YIELD  
 YEAR(S): 90-93  
 AREA : 1

KEY NAME	RN90N	WE91N	RN91N	WE92N	RN92N	RN93N	MEAN
1 KARAT	4.14	3.20	3.02	4.58	5.60	4.07	4.10
2 RUBY	5.00	4.20	4.00	6.93	6.88	4.86	5.31
3 LUCAS	5.58	3.43	4.50	6.22	6.29	4.95	5.16
LOCATION MEAN	4.91	3.61	3.84	5.91	6.26	4.63	4.86

DATA EXPRESSED RELATIVE TO LOCATION MEANS

KEY NAME	RN90N	WE91N	RN91N	WE92N	RN92N	RN93N	MEAN*
1 KARAT	84	89	79	77	90	88	84
2 RUBY	102	116	104	117	110	105	109
3 LUCAS	114	95	117	105	101	107	106
LOCATION MEAN	4.91	3.61	3.84	5.91	6.26	4.63	4.86

TRAIT : YIELD  
 YEAR(S): 90-93  
 AREA : 2

KEY NAME	NN90N	WK90N	EA90N	HN90N	NN91N	WK91N	EA91N	HN91N	LL91N	NN92N
1 KARAT	6.02	4.39	7.50	6.45	3.88	4.29	4.57	4.70	4.30	5.41
2 RUBY	6.04	4.39	6.65	6.54	4.62	5.72	6.36	5.89	5.01	6.25
3 LUCAS	6.20	4.17	7.82	6.48	4.47	5.72	5.04	4.95	3.82	5.57
LOCATION MEAN	6.09	4.32	7.32	6.49	4.32	5.24	5.32	5.18	4.38	5.74

KEY NAME	WK92N	EA92N	HN92N	WP93N	NN93N	LN93N	EA93N	HN93N	BH93N	MEAN
1 KARAT	6.81	6.80	3.61	2.10	4.40	2.35	3.04	2.77	3.15	4.55
2 RUBY	7.10	8.59	5.23	3.38	5.51	3.35	4.97	3.38	3.78	5.41
3 LUCAS	8.86	7.00	4.08	2.88	5.32	3.72	3.88	2.30	4.10	5.07
LOCATION MEAN	7.59	7.46	4.31	2.79	5.08	3.14	3.96	2.82	3.68	5.01

DATA EXPRESSED RELATIVE TO LOCATION MEANS

KEY NAME	NN90N	WK90N	EA90N	HN90N	NN91N	WK91N	EA91N	HN91N	LL91N	NN92N
1 KARAT	99	102	102	99	90	82	86	91	98	94
2 RUBY	99	102	91	101	107	109	119	114	114	109
3 LUCAS	102	97	107	100	103	109	95	96	87	97
LOCATION MEAN	6.09	4.32	7.32	6.49	4.32	5.24	5.32	5.18	4.38	5.74

KEY NAME	WK92N	EA92N	HN92N	WP93N	NN93N	LN93N	EA93N	HN93N	BH93N	MEAN*
1 KARAT	90	91	84	75	87	75	77	98	86	90
2 RUBY	94	115	121	121	109	107	125	120	103	109
3 LUCAS	117	94	95	103	105	118	98	82	112	101
LOCATION MEAN	7.59	7.46	4.31	2.79	5.08	3.14	3.96	2.82	3.68	5.01

\*MEAN OF RELATIVE YIELDS OVER ALL LOCATIONS

## ONTARIO RECOMMENDATION; FALL RED WHEAT 1993

TRAIT : YIELD  
 YEAR(S) : 90-93  
 AREA : 3

ABBREVIATED HEADINGS REPRESENT LOCATION-YEAR-MANAGEMENT COMBINATION

KEY NAME	BG91N	KE91N	O193N	KE93N	MEAN
1 KARAT	5.74	2.73	3.39	4.23	4.02
2 RUBY	5.80	3.54	4.32	4.80	4.61
3 LUCAS	5.96	3.05	2.60	4.51	4.03
LOCATION MEAN	5.83	3.10	3.44	4.51	4.22

## DATA EXPRESSED RELATIVE TO LOCATION MEANS

KEY NAME	BG91N	KE91N	O193N	KE93N	MEAN*
1 KARAT	98	88	99	94	95
2 RUBY	99	114	126	106	111
3 LUCAS	102	98	76	100	94
LOCATION MEAN	5.83	3.10	3.44	4.51	4.22

\*MEAN OF RELATIVE YIELDS OVER ALL LOCATIONS

TRAIT : YIELD  
 YEAR(S) : 90-93  
 AREA : 1-3  
 MGMT : NORMAL

KEY NAME	AREA 1 (6)*	AREA 2 (19)	AREA 3 (4)	PROVINCE (29)**
1 KARAT	4.10	4.55	4.02	4.39
2 RUBY	5.31	5.41	4.61	5.28
3 LUCAS	5.16	5.07	4.03	4.95
OVERALL MEAN	4.86	5.01	4.22	4.87

## MEAN OF RELATIVE YIELDS OVER ALL LOCATIONS

KEY NAME	AREA 1 (6)*	AREA 2 (19)	AREA 3 (4)	PROVINCE (29)**
1 KARAT	84.4	89.7	94.7	89.3
2 RUBY	109.1	109.5	111.3	109.6
3 LUCAS	106.4	100.8	94.0	101.0
OVERALL MEAN	4.86	5.01	4.22	4.87

\* # OF LOCATIONS  
 \*\* WEIGHTED AVERAGE



ONTARIO RECOMMENDATION; FALL RED WHEAT 1993

YEAR(S) : 90-93  
 MGMT : NORMAL  
 AREA : 1

KEY NAME	YIELD		TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA													
1 KARAT	3	4.10	75.1	39	80	1.0	105	156	1.5	2.0	.	.	0.8	.	3.3
2 RUBY	1	5.31	77.6	38	90	1.0	91	153	2.0	0.8	.	.	1.8	.	2.0
3 LUCAS	2	5.16	77.8	47	80	1.5	83	151	0.3	1.3	.	.	2.9	.	3.3
LOCATIONS		6	4	2	2	5	8	8	4	4	0	0	3	0	3

YIELD AVERAGES WERE BASED ON DATA FROM:  
 1990: RIDGETOWN.  
 1991: WOODSLEE, RIDGETOWN.  
 1992: WOODSLEE, RIDGETOWN.  
 1993: RIDGETOWN.

YEAR(S) : 90-93  
 MGMT : NORMAL  
 AREA : 2

KEY NAME	YIELD		TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA													
1 KARAT	3	4.55	72.4	36	91	0.5	108	162	1.9	3.3	4.0	2.9	.	4.5	2.3
2 RUBY	1	5.41	74.1	36	95	1.1	91	159	3.8	1.1	3.8	2.2	.	1.0	2.4
3 LUCAS	2	5.07	74.5	42	89	0.3	80	157	1.4	2.1	4.2	2.7	.	3.5	3.5
LOCATIONS		19	20	20	9	9	19	18	6	5	11	6	0	1	5

YIELD AVERAGES WERE BASED ON DATA FROM:  
 1990: NAIRN, WOODSTOCK, ELORA, HARRISTON.  
 1991: NAIRN, WOODSTOCK, ELORA, HARRISTON, LISTOWEL.  
 1992: NAIRN, WOODSTOCK, ELORA, HARRISTON.  
 1993: WINTHROP NAIRN, LONDON, ELORA, HARRISTON, BATH.

\* DAYS FROM JAN.1  
 A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS

ONTARIO RECOMMENDATION; FALL RED WHEAT 1993

YEAR(S): 90-93  
 MGMT : NORMAL  
 AREA : 3

KEY NAME	YIELD RK T/HA	TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
1 KARAT	3 4.02	81.4	42	76	0.0	105	166	.	.	.	.	.	.	.
2 RUBY	1 4.61	80.6	39	84	0.0	92	163	.	.	.	.	.	.	.
3 LUCAS	2 4.03	79.6	45	74	0.0	81	163	.	.	.	.	.	.	.
LOCATIONS	4	6	6	6	1	6	5	0	0	0	0	0	0	0

YIELD AVERAGES WERE BASED ON DATA FROM:  
 1991: BEACHBURG, KEMPTVILLE.  
 1992: THERE ARE NO DATA FOR AREA 3 IN 1992  
 1993: KEMPTVILLE, OTTAWA-1.

YEAR(S): 90-93  
 MGMT : NORMAL  
 AREA(S): 1- 3

KEY NAME	YIELD RK T/HA	TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
1 KARAT	3 4.39	74.6	38	84	0.6	107	161	1.7	2.7	4.0	2.9	0.8	4.5	2.6
2 RUBY	1 5.28	75.9	37	91	1.0	91	158	3.1	1.0	3.8	2.2	1.8	1.0	2.3
3 LUCAS	2 4.95	75.9	43	83	0.7	81	157	0.9	1.7	4.2	2.7	2.9	3.5	3.4
LOCATIONS	29	30	28	17	15	33	31	10	9	11	6	3	1	8

YIELD AVERAGES WERE BASED ON DATA FROM:  
 1990: RIDGETOWN, NAIRN, WOODSTOCK, ELORA, HARRISTON, BEACHBURG, KEMPTVILLE.  
 1991: WOODSLEE, RIDGETOWN, NAIRN, WOODSTOCK, ELORA, HARRISTON, LISTOWEL.  
 1992: WOODSLEE, RIDGETOWN, NAIRN, WOODSTOCK, ELORA, HARRISTON.  
 1993: RIDGETOWN, WINTHROP, NAIRN, LONDON, ELORA, HARRISTON, BATH, KEMPTVILLE,  
 OTTAWA-1.

\* DAYS FROM JAN.1  
 A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS

## ONTARIO RECOMMENDATION; FALL RED WHEAT 1993

TRAIT : YIELD  
 YEAR(S): 92-93  
 AREA : 1

ABBREVIATED HEADINGS REPRESENT LOCATION-YEAR-MANAGEMENT COMBINATION

KEY NAME	WE92N	RN92N	RN93N	MEAN
1 KARAT	4.58	5.60	4.07	4.75
2 RUBY	6.93	6.88	4.86	6.22
3 LUCAS	6.22	6.29	4.95	5.82
4 FUNDULEA	7.51	6.42	5.06	6.33
LOCATION MEAN	6.31	6.30	4.74	5.78

DATA EXPRESSED RELATIVE TO LOCATION MEANS

KEY NAME	WE92N	RN92N	RN93N	MEAN*
1 KARAT	73	89	86	82
2 RUBY	110	109	103	107
3 LUCAS	99	100	105	101
4 FUNDULEA	119	102	107	109
LOCATION MEAN	6.31	6.30	4.74	5.78

TRAIT : YIELD  
 YEAR(S): 92-93  
 AREA : 2

KEY NAME	NN92N	WK92N	EA92N	HN92N	WP93N	NN93N	LN93N	EA93N	HN93N	BH93N	MEAN
1 KARAT	5.41	6.81	6.80	3.61	2.10	4.40	2.35	3.04	2.77	3.15	4.04
2 RUBY	6.25	7.10	8.59	5.23	3.38	5.51	3.35	4.97	3.38	3.78	5.15
3 LUCAS	5.57	8.86	7.00	4.08	2.88	5.32	3.72	3.88	2.30	4.85	4.77
4 FUNDULEA	5.99	7.98	7.77	4.35	3.57	6.06	3.96	4.66	4.42	4.10	5.36
LOCATION MEAN	5.80	7.69	7.54	4.32	2.98	5.32	3.35	4.14	3.22	3.97	4.83

DATA EXPRESSED RELATIVE TO LOCATION MEANS

KEY NAME	NN92N	WK92N	EA92N	HN92N	WP93N	NN93N	LN93N	EA93N	HN93N	BH93N	MEAN*
1 KARAT	93	89	90	84	70	83	70	73	86	79	82
2 RUBY	108	92	114	121	113	104	100	120	105	95	107
3 LUCAS	96	115	93	94	97	100	111	94	71	103	97
4 FUNDULEA	103	104	103	101	120	114	118	113	137	122	113
LOCATION MEAN	5.80	7.69	7.54	4.32	2.98	5.32	3.35	4.14	3.22	3.97	4.83

\*MEAN OF RELATIVE YIELDS OVER ALL LOCATIONS

## ONTARIO RECOMMENDATION; FALL RED WHEAT 1993

TRAIT : YIELD  
 YEAR(S) : 92-93\*\*  
 AREA : 3

ABBREVIATED HEADINGS REPRESENT LOCATION-YEAR-MANAGEMENT COMBINATION

KEY NAME	O193N	KE93N	MEAN
1 KARAT	3.39	4.23	3.81
2 RUBY	4.32	4.80	4.56
3 LUCAS	2.60	4.51	3.56
4 FUNDULEA	4.17	5.36	4.77
LOCATION MEAN	3.62	4.73	4.17

DATA EXPRESSED RELATIVE TO LOCATION MEANS

KEY NAME	O193N	KE93N	MEAN*
1 KARAT	94	90	92
2 RUBY	119	102	110
3 LUCAS	72	95	84
4 FUNDULEA	115	113	114
LOCATION MEAN	3.62	4.73	4.17

\*MEAN OF RELATIVE YIELDS OVER ALL LOCATIONS  
 \*\*THERE ARE NO AREA 3 DATA FOR 1992

TRAIT : YIELD  
 YEAR(S) : 92-93  
 AREA : 1-3  
 MGMT : NORMAL

KEY NAME	AREA 1 (3)*	AREA 2 (10)	AREA 3 (2)	PROVINCE (15)**
1 KARAT	4.75	4.04	3.81	4.15
2 RUBY	6.22	5.15	4.56	5.29
3 LUCAS	5.82	4.77	3.56	4.82
4 FUNDULEA	6.33	5.36	4.77	5.48
OVERALL MEAN	5.78	4.83	4.17	

MEAN OF RELATIVE YIELDS OVER ALL LOCATIONS

KEY NAME	AREA 1 (3)*	AREA 2 (10)	AREA 3 (2)	PROVINCE (15)**
1 KARAT	82.5	81.8	91.6	83.2
2 RUBY	107.2	107.2	110.5	107.7
3 LUCAS	101.0	97.5	83.6	96.3
4 FUNDULEA	109.3	113.5	114.3	112.8
OVERALL MEAN	5.78	4.83	4.17	4.93

\* # OF LOCATIONS  
 \*\* WEIGHTED AVERAGE

## ONTARIO RECOMMENDATION; FALL RED WHEAT 1993

YEAR(S): 92-93  
 MGMT : NORMAL  
 AREA : 1

KEY NAME	YIELD		TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA													
1 KARAT	4	4.75	72.5	39	80	1.1	108	159	1.0	2.0	.	.	0.8	.	4.3
2 RUBY	2	6.22	76.8	38	90	1.3	95	157	2.0	0.5	.	.	1.1	.	3.0
3 LUCAS	3	5.82	77.3	47	80	1.6	86	155	0.0	1.5	.	.	2.8	.	6.3
4 FUNDULEA	1	6.33	76.4	36	89	0.0	90	159	1.0	1.0	.	.	1.0	.	1.5
LOCATIONS		3	2	2	2	3	4	4	1	2	0	0	2	0	1

YIELD AVERAGES WERE BASED ON DATA FROM:  
 1992: WOODSLEE, RIDGETOWN.  
 1993: RIDGETOWN.

YEAR(S): 92-93  
 MGMT : NORMAL  
 AREA : 2

KEY NAME	YIELD		TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA													
1 KARAT	4	4.04	68.7	33	88	0.4	111	166	1.7	4.3	3.6	3.0	.	4.5	2.4
2 RUBY	2	5.15	72.4	34	95	1.2	93	164	4.5	1.5	3.3	2.5	.	1.0	3.0
3 LUCAS	3	4.77	73.5	41	85	0.2	81	162	0.7	1.8	3.5	3.0	.	3.5	2.9
4 FUNDULEA	1	5.36	74.0	33	93	0.4	92	166	1.7	0.9	2.5	4.8	.	1.0	2.2
LOCATIONS		10	11	11	4	6	11	9	3	2	6	1	0	1	3

YIELD AVERAGES WERE BASED ON DATA FROM:  
 1992: NAIRN, WOODSTOCK, ELORA, HARRISTON.  
 1993: WINTHROP, NAIRN, LONDON, ELORA, HARRISTON, BATH.

\* DAYS FROM JAN.1  
 A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS

## ONTARIO RECOMMENDATION; FALL RED WHEAT 1993

YEAR(S): 92-93  
 MGMT : NORMAL  
 AREA : 3

KEY NAME	YIELD		TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA													
1 KARAT	3	3.81	80.7	44	72	0.0	106	168	.	.	.	.	.	.	.
2 RUBY	2	4.56	80.5	43	85	0.0	93	165	.	.	.	.	.	.	.
3 LUCAS	4	3.56	79.2	48	75	0.0	80	165	.	.	.	.	.	.	.
4 FUNDULEA	1	4.77	81.7	40	78	0.0	87	167	.	.	.	.	.	.	.
LOCATIONS		2	4	4	3	1	4	3	0	0	0	0	0	0	0

YIELD AVERAGES WERE BASED ON DATA FROM:  
 1992: THERE ARE NO YIELD DATA FOR AREA 3 IN 1992.  
 1993: KEMPTVILLE, OTTAWA-1.

YEAR(S): 92-93  
 MGMT : NORMAL  
 AREA(S): 1- 3

KEY NAME	YIELD		TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA													
1 KARAT	4	4.15	72.0	36	81	0.6	109	165	1.5	3.2	3.6	3.0	0.8	4.5	2.9
2 RUBY	2	5.29	74.8	36	91	1.1	93	162	3.9	1.0	3.3	2.5	1.1	1.0	3.0
3 LUCAS	3	4.82	75.3	43	81	0.6	82	161	0.5	1.6	3.5	3.0	2.8	3.5	3.7
4 FUNDULEA	1	5.48	76.1	35	87	0.2	90	165	1.5	0.9	2.5	4.8	1.0	1.0	2.0
LOCATIONS		15	17	17	9	10	19	16	4	4	6	1	2	1	4

YIELD AVERAGES WERE BASED ON DATA FROM:  
 1992: WOODSLEE, RIDGETOWN, NAIRN, WOODSTOCK, ELORA, HARRISTON.  
 1993: RIDGETOWN, WINTHROP, NAIRN, LONDON, ELORA, HARRISTON, KEMPTVILLE, OTTAWA-1,  
 BATH.

\* DAYS FROM JAN.1

A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS

## ONTARIO RECOMMENDATION; FALL RED WHEAT 1993

TRAIT : YIELD  
 YEAR : 93  
 AREA : 1

ABBREVIATED HEADINGS REPRESENT LOCATION-YEAR-MANAGEMENT COMBINATION

KEY NAME	RN93N	MEAN
1 KARAT	4.07	4.07
2 RUBY	4.86	4.86
3 LUCAS	4.95	4.95
4 FUNDULEA	5.06	5.06
LOCATION MEAN	4.74	4.74

DATA EXPRESSED RELATIVE TO LOCATION MEANS

KEY NAME	RN93N	MEAN
1 KARAT	86	86
2 RUBY	103	103
3 LUCAS	105	105
4 FUNDULEA	107	107
LOCATION MEAN	4.74	4.74

TRAIT : YIELD  
 YEAR : 93  
 AREA : 2

KEY NAME	WP93N	NN93N	LN93N	EA93N	HN93N	BH93N	MEAN
1 KARAT	2.10	4.40	2.35	3.04	2.77	3.15	2.97
2 RUBY	3.38	5.51	3.35	4.97	3.38	3.78	4.06
3 LUCAS	2.88	5.32	3.72	3.88	2.30	4.85	3.70
4 FUNDULEA	3.57	6.06	3.96	4.66	4.42	4.10	4.59
LOCATION MEAN	2.98	5.32	3.35	4.14	3.22	3.97	3.83

DATA EXPRESSED RELATIVE TO LOCATION MEANS

KEY NAME	WP93N	NN93N	LN93N	EA93N	HN93N	BH93N	MEAN*
1 KARAT	70	83	70	73	86	79	77
2 RUBY	113	104	100	120	105	95	106
3 LUCAS	97	100	111	94	71	103	96
4 FUNDULEA	120	114	118	113	137	122	121
LOCATION MEAN	2.98	5.32	3.35	4.14	3.22	3.97	3.83

\*MEAN OF RELATIVE YIELDS OVER ALL LOCATIONS

## ONTARIO RECOMMENDATION; FALL RED WHEAT 1993

TRAIT : YIELD  
 YEAR : 93  
 AREA : 3

ABBREVIATED HEADINGS REPRESENT LOCATION-YEAR-MANAGEMENT COMBINATION

KEY NAME	O193N	KE93N	MEAN
1 KARAT	3.39	4.23	3.81
2 RUBY	4.32	4.80	4.56
3 LUCAS	2.60	4.51	3.56
4 FUNDULEA	4.17	5.36	4.77
LOCATION MEAN	3.62	4.73	4.17

DATA EXPRESSED RELATIVE TO LOCATION MEANS

KEY NAME	O193N	KE93N	MEAN*
1 KARAT	94	90	92
2 RUBY	119	102	110
3 LUCAS	72	95	84
4 FUNDULEA	115	113	114
LOCATION MEAN	3.62	4.73	4.17

\*MEAN OF RELATIVE YIELDS OVER ALL LOCATIONS

TRAIT : YIELD  
 YEAR : 93  
 AREA : 1-3  
 MGMT : NORMAL

KEY NAME	AREA 1 (1)*	AREA 2 (6)	AREA 3 (2)	PROVINCE (9)**
1 KARAT	4.07	2.97	3.81	3.28
2 RUBY	4.86	4.06	4.56	4.26
3 LUCAS	4.95	3.70	3.56	3.81
4 FUNDULEA	5.06	4.59	4.77	4.68
OVERALL MEAN	4.74	3.83	4.17	4.01

MEAN OF RELATIVE YIELDS OVER ALL LOCATIONS

KEY NAME	AREA 1 (1)*	AREA 2 (6)	AREA 3 (2)	PROVINCE (9)**
1 KARAT	86.0	77.0	91.6	81.3
2 RUBY	102.6	106.2	110.5	106.8
3 LUCAS	104.5	96.0	83.6	94.2
4 FUNDULEA	106.9	120.7	114.3	117.7
OVERALL MEAN	4.74	3.83	4.17	4.01

\* # OF LOCATIONS  
 \*\* WEIGHTED AVERAGE



## ONTARIO RECOMMENDATION; FALL RED WHEAT 1993

YEAR : 93  
 MGMT : NORMAL  
 AREA : 1

KEY NAME	YIELD		TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA													
1 KARAT	4	4.07	70.6	31	.	0.2	110	159	1.0	2.0	.	.	0.8	.	4.3
2 RUBY	3	4.86	75.6	33	.	1.5	96	156	2.0	0.5	.	.	1.1	.	3.0
3 LUCAS	2	4.95	77.1	42	.	0.0	88	154	0.0	1.5	.	.	2.8	.	6.3
4 FUNDULEA	1	5.06	74.6	30	.	0.0	94	159	1.0	1.0	.	.	1.0	.	1.5
LOCATIONS		1	1	1	0	1	2	2	1	2	0	0	2	0	1

YIELD AVERAGES ARE BASED ON DATA FROM: RIDGETOWN.

YEAR : 93  
 MGMT : NORMAL  
 AREA : 2

KEY NAME	YIELD		TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA													
1 KARAT	4	2.97	64.6	28	92	0.6	111	168	1.0	6.0	3.8	.	.	.	1.9
2 RUBY	2	4.06	69.9	30	100	1.6	90	165	3.9	2.0	2.8	.	.	.	2.6
3 LUCAS	3	3.70	73.0	38	88	0.3	80	164	1.0	1.5	3.5	.	.	.	1.8
4 FUNDULEA	1	4.59	73.5	31	99	0.6	92	168	2.2	0.0	2.1	.	.	.	2.0
LOCATIONS		6	7	7	2	4	7	5	2	1	4	0	0	0	2

YIELD AVERAGES ARE BASED ON DATA FROM: WINTHROP NAIRN, LONDON, ELORA, HARRISTON, BATH.

YEAR : 93  
 MGMT : NORMAL  
 AREA : 3

KEY NAME	YIELD		TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA													
1 KARAT	3	3.81	84.4	39	65	0.0	115	170	.	.	.	.	.	.	.
2 RUBY	2	4.56	84.2	41	82	0.0	100	168	.	.	.	.	.	.	.
3 LUCAS	4	3.56	81.9	43	66	0.0	87	167	.	.	.	.	.	.	.
4 FUNDULEA	1	4.77	85.3	38	70	0.0	93	170	.	.	.	.	.	.	.
LOCATIONS		2	2	2	2	1	2	2	0	0	0	0	0	0	0

YIELD AVERAGES ARE BASED ON DATA FROM: KEMPTVILLE, OTTAWA-1.

YEAR : 93  
 MGMT : NORMAL  
 AREA(S): 1- 3

KEY NAME	YIELD		TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA													
1 KARAT	4	3.28	69.2	31	78	0.4	111	166	1.0	3.3	3.8	.	0.8	.	2.7
2 RUBY	2	4.26	73.3	33	91	1.3	93	164	3.3	1.0	2.8	.	1.1	.	2.7
3 LUCAS	3	3.81	75.2	40	77	0.2	82	162	0.7	1.5	3.5	.	2.8	.	3.3
4 FUNDULEA	1	4.68	75.9	32	84	0.4	93	166	1.8	0.7	2.1	.	1.0	.	1.8
LOCATIONS		9	10	10	4	6	11	9	3	3	4	0	2	0	3

YIELD AVERAGES ARE BASED ON DATA FROM: RIDGETOWN, WINTHROP NAIRN, LONDON, ELORA, HARRISTON, BATH, KEMPTVILLE, OTTAWA-1.

\* DAYS FROM JAN.1

A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS

## ONTARIO RECOMMENDATION; FALL RED WHEAT 1993

LOCATION - WOODSLEE  
MANAGEMENT - NORMAL

KEY NAME	YIELD		TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA													
1 KARAT	.	.	.	.	.	.	98	158	.	1.0	.	.	0.0	.	4.3
2 RUBY	.	.	.	.	.	.	85	155	.	1.0	.	.	2.3	.	3.0
3 LUCAS	.	.	.	.	.	.	80	153	.	1.0	.	.	3.3	.	6.3
4 FUNDULEA	.	.	.	.	.	.	84	157	.	1.0	.	.	1.0	.	1.5
MEANS	.	.	.	.	.	.	87	156	.	1.0	.	.	1.7	.	3.8

LOCATION - RIDGETOWN  
MANAGEMENT - NORMAL

KEY NAME	YIELD		TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA													
1 KARAT	4	4.07	70.6	31	.	0.2	121	160	1.0	3.0	.	.	1.5	.	.
2 RUBY	3	4.86	75.6	33	.	1.5	106	157	2.0	0.0	.	.	0.0	.	.
3 LUCAS	2	4.95	77.1	42	.	0.0	96	154	0.0	2.0	.	.	2.3	.	.
4 FUNDULEA	1	5.06	74.6	30	.	0.0	104	161	1.0	1.0	.	.	1.0	.	.
MEANS		4.74	74.5	34	.	0.4	107	158	1.0	1.5	.	.	1.2	.	.

LOCATION - WINTHROP  
MANAGEMENT - NORMAL

KEY NAME	YIELD		TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA													
1 KARAT	4	2.10	60.3	26	.	.	110	168	2.0	.	4.0	.	.	4.5	0.3
2 RUBY	2	3.38	68.6	31	.	.	85	166	3.0	.	3.0	.	.	5.0	0.3
3 LUCAS	3	2.88	71.2	40	.	.	79	166	2.0	.	5.0	.	.	6.0	0.8
4 FUNDULEA	1	3.57	72.2	31	.	.	85	167	3.0	.	3.0	.	.	1.5	0.5
MEANS		2.98	67.1	32	.	.	90	167	2.5	.	3.8	.	.	2.7	0.5

\* DAYS FROM JAN.1

A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS

## ONTARIO RECOMMENDATION; FALL RED WHEAT 1993

LOCATION - NAIRN  
MANAGEMENT - NORMAL

KEY NAME	YIELD RK T/HA	TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
1 KARAT	4 4.40	67.8	33	.	0.3	117	162	0.0	6.0	4.5	.	.	4.5	.
2 RUBY	2 5.51	75.7	38	.	1.1	87	159	4.8	2.0	4.0	.	.	2.5	.
3 LUCAS	3 5.32	76.8	46	.	0.0	82	158	0.0	1.5	3.8	.	.	3.0	.
4 FUNDULEA	1 6.06	77.2	36	.	0.1	92	162	1.3	0.0	3.3	.	.	2.0	.
MEANS	5.32	74.4	38	.	0.4	95	160	1.5	2.4	3.9	.	.	3.0	.

LOCATION - LONDON  
MANAGEMENT - NORMAL

KEY NAME	YIELD RK T/HA	TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
1 KARAT	4 2.35	59.4	20	.	0.0	118	.	.	.	.	.	.	.	.
2 RUBY	3 3.35	68.7	22	.	0.2	108	.	.	.	.	.	.	.	.
3 LUCAS	2 3.72	73.0	30	.	0.0	89	.	.	.	.	.	.	.	.
4 FUNDULEA	1 3.96	72.8	24	.	0.0	102	.	.	.	.	.	.	.	.
MEANS	3.35	68.5	24	.	0.1	104	.	.	.	.	.	.	.	.

LOCATION - WOODSTOCK  
MANAGEMENT - NORMAL

KEY NAME	YIELD RK T/HA	TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
1 KARAT	.	54.9	26	.	1.0	108	167	.	.	.	.	.	.	3.5
2 RUBY	.	59.9	27	.	2.0	88	165	.	.	.	.	.	.	4.8
3 LUCAS	.	64.9	36	.	1.0	78	162	.	.	.	.	.	.	2.8
4 FUNDULEA	.	64.9	31	.	1.3	92	167	.	.	.	.	.	.	3.5
MEANS	.	61.2	30	.	1.3	92	165	.	.	.	.	.	.	3.7

LOCATION - ELORA  
MANAGEMENT - NORMAL

KEY NAME	YIELD RK T/HA	TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
1 KARAT	4 3.04	64.9	29	85	1.0	113	170	.	.	.	.	.	3.5	.
2 RUBY	1 4.97	72.3	33	100	3.0	93	168	.	.	.	.	.	2.3	.
3 LUCAS	3 3.88	77.3	47	90	0.3	83	167	.	.	.	.	.	2.0	.
4 FUNDULEA	2 4.66	76.1	34	98	0.8	93	170	.	.	.	.	.	0.0	.
MEANS	4.14	72.7	36	93	1.3	96	169	.	.	.	.	.	2.0	.

\* DAYS FROM JAN.1

A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS

## ONTARIO RECOMMENDATION; FALL RED WHEAT 1993

LOCATION - HARRISTON  
MANAGEMENT - NORMAL

KEY NAME	YIELD		TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA													
1 KARAT	3	2.77	65.2	26	98	.	105	172	.	.	6.0	.	.	5.0	.
2 RUBY	2	3.38	65.7	25	99	.	85	169	.	.	3.5	.	.	4.8	.
3 LUCAS	4	2.30	68.4	28	85	.	73	168	.	.	4.3	.	.	3.8	.
4 FUNDULEA	1	4.42	71.8	28	99	.	85	172	.	.	1.3	.	.	1.5	.
MEANS		3.32	67.8	27	95	.	87	170	.	.	3.8	.	.	3.8	.

LOCATION - BATH  
MANAGEMENT - NORMAL

KEY NAME	YIELD		TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA													
13 KARAT	4	3.15	79.8	36	.	.	104	.	.	.	7	.	.	.	.
14 RUBY	3	3.78	78.6	36	.	.	86	.	.	.	7	.	.	.	.
15 FUNDULEA	1	4.85	79.2	32	.	.	96	.	.	.	6	.	.	.	.
16 LUCAS	2	4.10	79.4	41	.	.	73	.	.	.	8	.	.	.	.
MEANS		3.97	79.3	36	.	.	90	.	.	.	7	.	.	.	.

LOCATION - OTTAWA-1  
MANAGEMENT - NORMAL

KEY NAME	YIELD		TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA													
1 KARAT	3	3.39	76.9	36	54	0.0	113	170	.	.	.	.	.	.	.
2 RUBY	1	4.32	76.9	36	69	0.0	95	168	.	.	.	.	.	.	.
3 LUCAS	4	2.60	74.7	40	41	0.0	78	167	.	.	.	.	.	.	.
4 FUNDULEA	2	4.17	78.6	36	49	0.0	83	171	.	.	.	.	.	.	.
MEANS		3.62	76.8	37	53	0.0	92	169	.	.	.	.	.	.	.

LOCATION - KEMPTVILLE  
MANAGEMENT - NORMAL

KEY NAME	YIELD		TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA													
1 KARAT	4	4.23	91.9	42	75	.	116	169	.	.	.	.	.	.	.
2 RUBY	2	4.80	91.4	46	94	.	105	167	.	.	.	.	.	.	.
3 LUCAS	3	4.51	89.1	45	91	.	96	167	.	.	.	.	.	.	.
4 FUNDULEA	1	5.36	91.9	39	91	.	103	168	.	.	.	.	.	.	.
MEANS		4.73	91.1	43	88	.	105	168	.	.	.	.	.	.	.

\* DAYS FROM JAN.1

A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS

## ONTARIO RECOMMENDATION; FALL RED AND PASTRY WHEAT 1993

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## LEGEND

YLD	-	YIELD (T/HA; 1 T/HA = 14.87 BU/AC)
TSTW	-	TEST WEIGHT (KG/HL)
KW	-	KERNEL WEIGHT (MG)
SUR	-	SURVIVAL (%)
LOG	-	LODGING
HGT	-	HEIGHT (CM)
HDT	-	HEADING DATE
MIL	-	MILDEW
LRS	-	LEAF RUST
SEP	-	SEPTORIA
GLB	-	GLUME BLOTCH
HBL	-	HEAD BLIGHT
SSM	-	SPINDLE STREAK MOSAIC VIRUS
BYD	-	BARLEY YELLOW DWARF VIRUS
MAT	-	MATURITY

A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS

## LOCATIONS ABBREVIATIONS

EA	ELORA
BH	BATH
HN	HARRISTON
KE	KEMPTVILLE
LN	LONDON
NN	NAIRN
O1	OTTAWA-1
RN	RIDGETOWN
WP	WINTHROP

## DESCRIPTION OF ENTRIES

## OAC87.22:

YORKSTAR/FREDERICK, DEVELOPED BY THE UNIVERSITY OF GUELPH. A SOFT WHITE, GOOD YIELDING WHEAT WITH GOOD WINTER SURVIVAL AND LOW HEAD BLIGHT SCORES. NOT REGISTERED FOR SALE IN CANADA.

## M.8.1(MV.12):

DEVELOPED AT MARTONVASAR IN HUNGARY AND SPONSORED BY C&M SEEDS LTD. A HARD RED WHEAT WITH HIGH THOUSAND KERNEL WEIGHT. STRONG, SHORT STAWED WHEAT WITH GOOD MILDEW SCORES, SUSCEPTIBLE TO MOST PREVALENT DISEASES. NOT REGISTERED FOR SALE IN CANADA.

## ONTARIO RECOMMENDATION; FALL RED AND PASTRY WHEAT 1993

ABBREVIATED HEADINGS REPRESENT LOCATION-YEAR-MANAGEMENT COMBINATION

TRAIT : YIELD  
 YEAR : 93  
 AREA : 1

KEY NAME	RN93N	MEAN
1 AUGUSTA	3.90	3.90
2 HARUS	4.45	4.45
3 ENA	4.06	4.06
4 ANNETTE	4.04	4.04
5 HARMIL	4.51	4.51
6 REBECCA	4.21	4.21
7 ZAVITZ	4.36	4.36
8 KARENA	4.14	4.14
9 AC RON	4.30	4.30
10 OAC87W.22	4.38	4.38
11 DELAWARE	4.10	4.10
12 CASEY	4.89	4.89
13 KARAT	4.07	4.07
14 RUBY	4.86	4.86
15 FUNDULEA	5.06	5.06
16 LUCAS	4.95	4.95
17 M.8.1	3.92	3.92
18 DIANA	4.27	4.27
LOCATION MEAN	4.36	4.36

DATA EXPRESSED RELATIVE TO LOCATION MEANS

KEY NAME	RN93N	MEAN
1 AUGUSTA	89	89
2 HARUS	102	102
3 ENA	93	93
4 ANNETTE	93	93
5 HARMIL	103	103
6 REBECCA	97	97
7 ZAVITZ	100	100
8 KARENA	95	95
9 AC RON	99	99
10 OAC87W.22	100	100
11 DELAWARE	94	94
12 CASEY	112	112
13 KARAT	93	93
14 RUBY	111	111
15 FUNDULEA	116	116
16 LUCAS	114	114
17 M.8.1	90	90
18 DIANA	98	98
LOCATION MEAN	4.36	4.36

## ONTARIO RECOMMENDATION; FALL RED AND PASTRY WHEAT 1993

ABBREVIATED HEADINGS REPRESENT LOCATION-YEAR-MANAGEMENT COMBINATION

TRAIT : YIELD  
 YEAR : 93  
 AREA : 2

KEY NAME	WP93N	NN93N	LN93N	EA93N	HN93N	BH93N	MEAN
1 AUGUSTA	2.63	5.19	3.46	4.58	3.53	4.67	4.01
2 HARUS	3.30	5.54	3.76	4.66	4.03	5.19	4.41
3 ENA	2.03	4.42	3.16	4.18	2.74	3.37	3.32
4 ANNETTE	2.67	4.64	3.09	4.15	2.85	4.46	3.64
5 HARMIL	2.86	5.03	3.44	4.74	3.51	5.04	4.10
6 REBECCA	2.92	5.31	3.60	4.70	3.65	4.41	4.10
7 ZAVITZ	3.11	4.98	3.92	4.65	3.61	4.24	4.09
8 KARENA	3.15	5.43	3.43	4.53	2.76	4.38	3.95
9 AC RON	3.03	5.50	3.90	4.70	2.95	4.94	4.17
10 OAC87W.22	2.94	5.34	3.51	4.77	2.91	4.41	3.98
11 DELAWARE	2.83	5.60	3.85	4.60	3.51	4.39	4.13
12 CASEY	3.45	5.52	3.91	4.74	3.38	4.73	4.29
13 KARAT	2.10	4.40	2.35	3.04	2.77	3.15	2.97
14 RUBY	3.38	5.51	3.35	4.97	3.38	3.78	4.06
15 FUNDULEA	3.57	6.06	3.96	4.66	4.42	4.85	4.59
16 LUCAS	2.88	5.32	3.72	3.88	2.30	4.10	3.70
17 M.8.1	2.56	5.26	2.79	3.85	2.42	3.34	3.37
18 DIANA	2.78	5.23	3.78	4.48	2.99	5.18	4.07
LOCATION MEAN	2.90	5.24	3.50	4.44	3.21	4.37	3.94

## DATA EXPRESSED RELATIVE TO LOCATION MEANS

KEY NAME	WP93N	NN93N	LN93N	EA93N	HN93N	BH93N	MEAN*
1 AUGUSTA	91	99	99	103	110	107	101
2 HARUS	114	106	107	105	126	119	113
3 ENA	70	84	90	94	85	77	84
4 ANNETTE	92	89	88	94	89	102	92
5 HARMIL	99	96	98	107	109	115	104
6 REBECCA	101	101	103	106	114	101	104
7 ZAVITZ	107	95	112	105	113	97	105
8 KARENA	109	104	98	102	86	100	100
9 AC RON	105	105	111	106	92	113	105
10 OAC87W.22	101	102	100	107	91	101	100
11 DELAWARE	98	107	110	104	109	100	105
12 CASEY	119	105	112	107	105	108	109
13 KARAT	72	84	67	69	86	72	75
14 RUBY	117	105	96	112	105	87	104
15 FUNDULEA	123	116	113	105	138	111	118
16 LUCAS	99	102	106	87	72	94	93
17 M.8.1	88	100	80	87	75	76	85
18 DIANA	96	100	108	101	93	119	103
LOCATION MEAN	2.90	5.24	3.50	4.44	3.21	4.37	3.94

\*MEAN OF RELATIVE YIELDS OVER ALL LOCATIONS

## ONTARIO RECOMMENDATION; FALL RED AND PASTRY WHEAT 1993

TRAIT : YIELD  
 YEAR : 93  
 AREA : 3

ABBREVIATED HEADINGS REPRESENT LOCATION-YEAR-MANAGEMENT COMBINATION

KEY NAME	O193N	KE93N	MEAN
1 AUGUSTA	4.73	6.07	5.40
2 HARUS	3.90	5.93	4.91
3 ENA	4.16	5.56	4.86
4 ANNETTE	4.35	5.92	5.14
5 HARMIL	4.98	5.96	5.47
6 REBECCA	3.93	6.18	5.05
7 ZAVITZ	5.12	6.64	5.88
8 KARENA	4.86	6.14	5.50
9 AC RON	4.30	6.03	5.16
10 OAC87W.22	4.96	5.70	5.33
11 DELAWARE	5.15	5.77	5.46
12 CASEY	4.23	6.22	5.22
13 KARAT	3.39	4.23	3.81
14 RUBY	4.32	4.80	4.56
15 FUNDULEA	4.17	5.36	4.77
16 LUCAS	2.60	4.51	3.56
17 M.8.1	3.28	4.65	3.97
18 DIANA	3.99	6.58	5.28
LOCATION MEAN	4.25	5.68	4.96

DATA EXPRESSED RELATIVE TO LOCATION MEANS

KEY NAME	O193N	KE93N	MEAN*
1 AUGUSTA	111	107	109
2 HARUS	92	104	98
3 ENA	98	98	98
4 ANNETTE	102	104	103
5 HARMIL	117	105	111
6 REBECCA	93	109	101
7 ZAVITZ	121	117	119
8 KARENA	114	108	111
9 AC RON	101	106	104
10 OAC87W.22	117	100	109
11 DELAWARE	121	102	111
12 CASEY	100	109	105
13 KARAT	80	74	77
14 RUBY	102	84	93
15 FUNDULEA	98	94	96
16 LUCAS	61	79	70
17 M.8.1	77	82	80
18 DIANA	94	116	105
LOCATION MEAN	4.25	5.68	4.96

\*MEAN OF RELATIVE YIELDS OVER ALL LOCATIONS



## ONTARIO RECOMMENDATION; FALL RED AND PASTRY WHEAT 1993

TRAIT : YIELD  
 YEAR : 93  
 AREA : 1-3  
 MGMT : NORMAL

KEY NAME	AREA 1 (1)*	AREA 2 (6)	AREA 3 (2)	PROVINCE (9)**
1 AUGUSTA	3.90	4.01	5.40	4.31
2 HARUS	4.45	4.41	4.91	4.53
3 ENA	4.06	3.32	4.86	3.74
4 ANNETTE	4.04	3.64	5.14	4.02
5 HARMIL	4.51	4.10	5.47	4.45
6 REBECCA	4.21	4.10	5.05	4.32
7 ZAVITZ	4.36	4.09	5.88	4.51
8 KARENA	4.14	3.95	5.50	4.31
9 AC RON	4.30	4.17	5.16	4.41
10 OAC87W.22	4.38	3.98	5.33	4.32
11 DELAWARE	4.10	4.13	5.46	4.42
12 CASEY	4.89	4.29	5.22	4.56
13 KARAT	4.07	2.97	3.81	3.28
14 RUBY	4.86	4.06	4.56	4.26
15 FUNDULEA	5.06	4.59	4.77	4.68
16 LUCAS	4.95	3.70	3.56	3.81
17 M.8.1	3.92	3.37	3.97	3.56
18 DIANA	4.27	4.07	5.28	4.36
OVERALL MEAN	4.36	3.94	4.96	4.21

## MEAN OF RELATIVE YIELDS OVER ALL LOCATIONS

KEY NAME	AREA 1 (1)*	AREA 2 (6)	AREA 3 (2)	PROVINCE (9)**
1 AUGUSTA	89.5	101.5	109.1	101.8
2 HARUS	102.1	112.8	98.1	108.3
3 ENA	93.1	83.6	97.9	87.8
4 ANNETTE	92.7	92.2	103.3	94.8
5 HARMIL	103.5	104.1	111.1	105.6
6 REBECCA	96.6	104.3	100.7	102.6
7 ZAVITZ	100.0	104.8	118.7	107.4
8 KARENA	95.0	99.8	111.3	101.8
9 AC RON	98.6	105.3	103.7	104.2
10 OAC87W.22	100.5	100.5	108.6	102.3
11 DELAWARE	94.0	104.7	111.4	105.0
12 CASEY	112.2	109.4	104.6	108.7
13 KARAT	93.4	75.1	77.2	77.6
14 RUBY	111.5	103.6	93.1	102.1
15 FUNDULEA	116.1	117.6	96.3	112.7
16 LUCAS	113.5	93.4	70.3	90.5
17 M.8.1	89.9	84.5	79.6	84.0
18 DIANA	97.9	102.8	104.9	102.7
OVERALL MEAN	4.36	3.94	4.96	4.21

\* # OF LOCATIONS

\*\* WEIGHTED AVERAGE

## ONTARIO RECOMMENDATION; FALL RED AND PASTRY WHEAT 1993

YEAR : 93  
 MGMT : NORMAL  
 AREA : 1

KEY NAME	YIELD		TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9	
	RK	T/HA														
1 AUGUSTA	18	3.90	66.5	26	.	2.5	109	160	3.0	3.0	.	.	0.4	.	5.5	
2 HARUS	6	4.45	70.6	30	.	0.5	103	157	1.0	3.5	.	.	2.0	.	4.8	
3 ENA	15	4.06	72.3	27	.	0.8	104	159	1.0	3.0	.	.	0.2	.	4.3	
4 ANNETTE	16	4.04	68.8	28	.	4.2	105	161	1.0	2.7	.	.	1.1	.	4.5	
5 HARMIL	5	4.51	65.5	27	.	2.0	110	158	1.0	3.0	.	.	1.6	.	4.0	
6 REBECCA	11	4.21	68.1	27	.	2.2	95	158	1.0	3.7	.	.	0.6	.	4.3	
7 ZAVITZ	8	4.36	67.4	33	.	2.5	103	160	1.0	2.2	.	.	0.9	.	3.8	
8 KARENA	12	4.14	68.0	26	.	1.5	105	159	0.0	3.5	.	.	1.3	.	3.3	
9 AC RON	9	4.30	66.0	24	.	1.2	106	158	1.0	3.9	.	.	1.1	.	3.3	
10 OAC87W.22	7	4.38	71.0	26	.	0.5	98	160	1.0	4.2	.	.	0.4	.	3.5	
11 DELAWARE	13	4.10	64.5	29	.	3.2	99	161	1.0	3.5	.	.	0.6	.	4.8	
12 CASEY	3	4.89	73.2	33	.	2.5	95	157	1.0	2.0	.	.	1.6	.	3.0	
13 KARAT	14	4.07	70.6	31	.	0.2	110	159	1.0	2.0	.	.	0.8	.	4.3	
14 RUBY	4	4.86	75.6	33	.	1.5	96	156	2.0	0.5	.	.	1.1	.	3.0	
15 FUNDULEA	1	5.06	74.6	30	.	0.0	94	159	1.0	1.0	.	.	1.0	.	1.5	
16 LUCAS	2	4.95	77.1	42	.	0.0	88	154	0.0	1.5	.	.	2.8	.	6.3	
17 M.8.1	17	3.92	69.5	30	.	0.2	88	156	1.0	2.7	.	.	2.8	.	5.8	
18 DIANA	10	4.27	68.1	25	.	1.8	101	159	2.0	3.3	.	.	1.5	.	3.5	
LOCATIONS			1	1	1	0	1	2	2	1	2	0	0	2	0	1

YIELD AVERAGES ARE BASED ON DATA FROM: RIDGETOWN.

YEAR : 93  
 MGMT : NORMAL  
 AREA : 2

KEY NAME	YIELD		TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9	
	RK	T/HA														
1 AUGUSTA	11	4.01	63.3	28	100	1.5	109	168	4.2	7.0	2.0	.	.	.	1.6	
2 HARUS	2	4.41	68.6	30	100	1.5	101	166	1.9	6.5	2.6	.	.	.	1.3	
3 ENA	17	3.32	65.7	27	100	2.1	104	168	4.2	7.0	2.7	.	.	.	2.7	
4 ANNETTE	15	3.64	64.4	30	99	2.7	104	168	0.0	7.8	2.1	.	.	.	2.6	
5 HARMIL	6	4.10	64.0	27	99	2.6	107	167	5.0	6.8	2.4	.	.	.	1.9	
6 REBECCA	6	4.10	65.7	29	97	1.0	96	167	3.2	7.5	1.9	.	.	.	1.8	
7 ZAVITZ	8	4.09	64.3	34	100	3.0	104	168	3.9	2.0	3.0	.	.	.	2.2	
8 KARENA	13	3.95	64.7	28	99	1.3	103	167	2.4	5.0	1.9	.	.	.	2.3	
9 AC RON	4	4.17	64.7	28	100	2.2	102	167	3.5	7.0	1.8	.	.	.	2.7	
10 OAC87W.22	12	3.98	66.2	26	99	1.2	97	168	3.3	8.0	2.5	.	.	.	1.9	
11 DELAWARE	5	4.13	63.4	32	100	2.7	98	169	2.7	8.5	2.2	.	.	.	2.3	
12 CASEY	3	4.29	66.4	30	100	1.4	97	166	2.2	6.5	2.5	.	.	.	1.4	
13 KARAT	18	2.97	64.6	28	92	0.6	111	168	1.0	6.0	3.8	.	.	.	1.9	
14 RUBY	10	4.06	69.9	30	100	1.6	90	165	3.9	2.0	2.8	.	.	.	2.6	
15 FUNDULEA	1	4.59	73.5	31	99	0.6	92	168	2.2	0.0	2.1	.	.	.	2.0	
16 LUCAS	14	3.70	73.0	38	88	0.3	80	164	1.0	1.5	3.5	.	.	.	1.8	
17 M.8.1	16	3.37	65.0	30	99	0.4	82	166	2.0	5.0	3.9	.	.	.	2.5	
18 DIANA	9	4.07	64.3	27	100	0.9	103	167	2.7	4.0	2.3	.	.	.	1.9	
LOCATIONS			6	7	7	2	4	7	5	2	1	4	0	0	0	2

YIELD AVERAGES ARE BASED ON DATA FROM: WINTHROP NAIRN, LONDON, ELORA, HARRISTON, BATH.

\* DAYS FROM JAN.1

A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS

ONTARIO RECOMMENDATION; FALL RED AND PASTRY WHEAT 1993

YEAR : 93  
 MGMT : NORMAL  
 AREA : 3

KEY NAME	YIELD RK T/HA	TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
1 AUGUSTA	5 5.40	78.1	38	89	1.0	115	170	.	.	.	.	.	.	.
2 HARUS	12 4.91	79.6	39	72	0.0	104	168	.	.	.	.	.	.	.
3 ENA	13 4.86	81.9	38	88	0.0	101	170	.	.	.	.	.	.	.
4 ANNETTE	10 5.14	79.8	44	80	1.0	107	170	.	.	.	.	.	.	.
5 HARMIL	3 5.47	77.3	38	91	0.0	114	169	.	.	.	.	.	.	.
6 REBECCA	11 5.05	77.3	38	85	0.0	101	169	.	.	.	.	.	.	.
7 ZAVITZ	1 5.88	78.6	48	89	0.0	112	170	.	.	.	.	.	.	.
8 KARENA	2 5.50	79.9	37	80	0.0	109	168	.	.	.	.	.	.	.
9 AC RON	9 5.16	77.8	37	81	0.0	113	168	.	.	.	.	.	.	.
10 OAC87W.22	6 5.33	79.8	35	86	1.5	104	169	.	.	.	.	.	.	.
11 DELAWARE	4 5.46	76.8	41	89	1.5	97	171	.	.	.	.	.	.	.
12 CASEY	8 5.22	78.9	39	73	0.0	93	168	.	.	.	.	.	.	.
13 KARAT	17 3.81	84.4	39	65	0.0	115	170	.	.	.	.	.	.	.
14 RUBY	15 4.56	84.2	41	82	0.0	100	168	.	.	.	.	.	.	.
15 FUNDULEA	14 4.77	85.3	38	70	0.0	93	170	.	.	.	.	.	.	.
16 LUCAS	18 3.56	81.9	43	66	0.0	87	167	.	.	.	.	.	.	.
17 M.8.1	16 3.97	79.8	42	79	0.0	86	169	.	.	.	.	.	.	.
18 DIANA	7 5.28	78.6	33	83	1.5	109	169	.	.	.	.	.	.	.
LOCATIONS		2	2	2	2	1	2	2	0	0	0	0	0	0

YIELD AVERAGES ARE BASED ON DATA FROM: KEMPTVILLE, OTTAWA-1.

YEAR : 93  
 MGMT : NORMAL  
 AREA(S): 1- 3

KEY NAME	YIELD RK T/HA	TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
1 AUGUSTA	11 4.31	66.6	30	95	1.6	110	167	3.8	4.3	2.0	.	0.4	.	2.9
2 HARUS	3 4.53	71.0	32	86	1.1	102	164	1.6	4.5	2.6	.	2.0	.	2.4
3 ENA	16 3.74	69.6	29	94	1.5	103	166	3.1	4.3	2.7	.	0.2	.	3.2
4 ANNETTE	14 4.02	67.9	33	89	2.7	105	167	0.3	4.4	2.1	.	1.1	.	3.2
5 HARMIL	5 4.45	66.8	29	95	2.0	109	165	3.7	4.3	2.4	.	1.6	.	2.6
6 REBECCA	9 4.32	68.3	30	91	1.0	97	165	2.4	4.9	1.9	.	0.6	.	2.6
7 ZAVITZ	4 4.51	67.4	37	94	2.4	105	166	2.9	2.1	3.0	.	0.9	.	2.7
8 KARENA	11 4.31	68.1	29	89	1.1	104	165	1.6	4.0	1.9	.	1.3	.	2.6
9 AC RON	7 4.41	67.4	30	90	1.7	105	165	2.7	4.9	1.8	.	1.1	.	2.9
10 OAC87W.22	9 4.32	69.4	28	92	1.1	98	166	2.5	5.4	2.5	.	0.4	.	2.4
11 DELAWARE	6 4.42	66.2	33	94	2.5	98	167	2.1	5.2	2.2	.	0.6	.	3.1
12 CASEY	2 4.56	69.6	32	87	1.3	96	165	1.8	3.5	2.5	.	1.6	.	1.9
13 KARAT	18 3.28	69.2	31	78	0.4	111	166	1.0	3.3	3.8	.	0.8	.	2.7
14 RUBY	13 4.26	73.3	33	91	1.3	93	164	3.3	1.0	2.8	.	1.1	.	2.7
15 FUNDULEA	1 4.68	75.9	32	84	0.4	93	166	1.8	0.7	2.1	.	1.0	.	1.8
16 LUCAS	15 3.81	75.2	40	77	0.2	82	162	0.7	1.5	3.5	.	2.8	.	3.3
17 M.8.1	17 3.56	68.4	32	89	0.3	84	165	1.7	3.4	3.9	.	2.8	.	3.6
18 DIANA	8 4.36	67.5	28	91	1.1	104	166	2.4	3.5	2.3	.	1.5	.	2.4
LOCATIONS		9	10	10	4	6	11	9	3	3	4	0	2	0

YIELD AVERAGES ARE BASED ON DATA FROM: RIDGETOWN, WINTHROP NAIRN, LONDON, ELORA, HARRISTON, BATH, KEMPTVILLE, OTTAWA-1.

\* DAYS FROM JAN.1  
 A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS

## ONTARIO RECOMMENDATION; FALL RED AND PASTRY WHEAT 1993

LOCATION - WOODSLEE  
MANAGEMENT - NORMAL

KEY NAME	YIELD		TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA													
1 AUGUSTA	.	.	.	.	.	.	99	158	.	1.0	.	.	0.8	.	5.5
2 HARUS	.	.	.	.	.	.	94	156	.	1.0	.	.	2.5	.	4.8
3 ENA	.	.	.	.	.	.	94	158	.	1.0	.	.	0.3	.	4.3
4 ANNETTE	.	.	.	.	.	.	95	160	.	1.3	.	.	0.0	.	4.5
5 HARMIL	.	.	.	.	.	.	102	156	.	1.0	.	.	1.8	.	4.0
6 REBECCA	.	.	.	.	.	.	87	157	.	1.3	.	.	1.3	.	4.3
7 ZAVITZ	.	.	.	.	.	.	91	158	.	1.3	.	.	0.3	.	3.8
8 KARENA	.	.	.	.	.	.	96	157	.	1.0	.	.	1.5	.	3.3
9 AC RON	.	.	.	.	.	.	96	156	.	2.8	.	.	0.8	.	3.3
10 OAC87W.22	.	.	.	.	.	.	89	158	.	1.3	.	.	0.3	.	3.5
11 DELAWARE	.	.	.	.	.	.	90	159	.	1.0	.	.	0.3	.	4.8
12 CASEY	.	.	.	.	.	.	84	156	.	1.0	.	.	2.3	.	3.0
13 KARAT	.	.	.	.	.	.	98	158	.	1.0	.	.	0.0	.	4.3
14 RUBY	.	.	.	.	.	.	85	155	.	1.0	.	.	2.3	.	3.0
15 FUNDULEA	.	.	.	.	.	.	84	157	.	1.0	.	.	1.0	.	1.5
16 LUCAS	.	.	.	.	.	.	80	153	.	1.0	.	.	3.3	.	6.3
17 M.8.1	.	.	.	.	.	.	83	153	.	1.3	.	.	3.0	.	5.8
18 DIANNA	.	.	.	.	.	.	90	158	.	1.5	.	.	1.0	.	3.5
MEANS	.	.	.	.	.	.	91	157	.	1.2	.	.	1.3	.	4.1

LOCATION - RIDGETOWN  
MANAGEMENT - NORMAL

KEY NAME	YIELD		TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA													
1 AUGUSTA	18	3.90	66.5	26	.	2.5	119	161	3.0	5.0	.	.	0.0	.	.
2 HARUS	6	4.45	70.6	30	.	0.5	112	158	1.0	6.0	.	.	1.5	.	.
3 ENA	15	4.06	72.3	27	.	0.8	114	160	1.0	5.0	.	.	0.0	.	.
4 ANNETTE	16	4.04	68.8	28	.	4.2	115	161	1.0	4.0	.	.	2.3	.	.
5 HARMIL	5	4.51	65.5	27	.	2.0	118	160	1.0	5.0	.	.	1.5	.	.
6 REBECCA	11	4.21	68.1	27	.	2.2	103	158	1.0	6.0	.	.	0.0	.	.
7 ZAVITZ	8	4.36	67.4	33	.	2.5	115	162	1.0	3.0	.	.	1.5	.	.
8 KARENA	12	4.14	68.0	26	.	1.5	113	160	0.0	6.0	.	.	1.0	.	.
9 AC RON	9	4.30	66.0	24	.	1.2	116	159	1.0	5.0	.	.	1.5	.	.
10 OAC87W.22	7	4.38	71.0	26	.	0.5	106	161	1.0	7.0	.	.	0.5	.	.
11 DELAWARE	13	4.10	64.5	29	.	3.2	107	162	1.0	6.0	.	.	1.0	.	.
12 CASEY	3	4.89	73.2	33	.	2.5	106	158	1.0	3.0	.	.	1.0	.	.
13 KARAT	14	4.07	70.6	31	.	0.2	121	160	1.0	3.0	.	.	1.5	.	.
14 RUBY	4	4.86	75.6	33	.	1.5	106	157	2.0	0.0	.	.	0.0	.	.
15 FUNDULEA	1	5.06	74.6	30	.	0.0	104	161	1.0	1.0	.	.	1.0	.	.
16 LUCAS	2	4.95	77.1	42	.	0.0	96	154	0.0	2.0	.	.	2.3	.	.
17 M.8.1	17	3.92	69.5	30	.	0.2	92	159	1.0	4.0	.	.	2.7	.	.
18 DIANNA	10	4.27	68.1	25	.	1.8	112	160	2.0	5.0	.	.	2.0	.	.
MEANS		4.36	69.9	29	.	1.5	110	160	1.1	4.2	.	.	1.2	.	.

\* DAYS FROM JAN.1

A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS

## ONTARIO RECOMMENDATION; FALL RED AND PASTRY WHEAT 1993

LOCATION - WINTHROP  
MANAGEMENT - NORMAL

KEY NAME	YIELD		TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA													
1 AUGUSTA	15	2.63	59.2	25	.	.	105	169	4.0	.	2.0	.	.	4.5	0.0
2 HARUS	4	3.30	62.9	25	.	.	96	167	2.0	.	4.0	.	.	5.0	0.0
3 ENA	18	2.03	62.9	24	.	.	103	170	6.0	.	5.0	.	.	6.5	1.0
4 ANNETTE	14	2.67	61.2	28	.	.	100	168	0.0	.	3.0	.	.	6.0	0.8
5 HARMIL	11	2.86	60.3	24	.	.	103	169	6.0	.	5.0	.	.	4.5	0.8
6 REBECCA	9	2.92	61.0	25	.	.	95	169	3.0	.	3.0	.	.	6.5	0.3
7 ZAVITZ	6	3.11	62.9	33	.	.	98	169	4.0	.	4.0	.	.	4.5	0.3
8 KARENA	5	3.15	62.1	26	.	.	103	168	2.0	.	2.0	.	.	5.0	0.3
9 AC RON	7	3.03	60.8	26	.	.	98	168	3.0	.	2.0	.	.	6.5	0.3
10 OAC87W.22	8	2.94	63.0	24	.	.	98	169	5.0	.	2.0	.	.	4.5	0.3
11 DELAWARE	12	2.83	60.8	28	.	.	98	170	2.0	.	2.0	.	.	5.5	0.3
12 CASEY	2	3.45	63.5	30	.	.	91	167	2.0	.	2.0	.	.	4.0	0.3
13 KARAT	17	2.10	60.3	26	.	.	110	168	2.0	.	4.0	.	.	4.5	0.3
14 RUBY	3	3.38	68.6	31	.	.	85	166	3.0	.	3.0	.	.	5.0	0.3
15 FUNDULEA	1	3.57	72.2	31	.	.	85	167	3.0	.	3.0	.	.	1.5	0.5
16 LUCAS	10	2.88	71.2	40	.	.	79	166	2.0	.	5.0	.	.	6.0	0.8
17 M.8.1	16	2.56	61.4	26	.	.	80	167	3.0	.	6.0	.	.	5.0	0.0
18 DIANNA	13	2.78	58.7	24	.	.	103	168	3.0	.	3.0	.	.	5.0	0.3
MEANS		2.90	62.9	27	.	.	96	168	3.1	.	3.3	.	.	5.0	0.4

LOCATION - NAIRN  
MANAGEMENT - NORMAL

KEY NAME	YIELD		TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA													
1 AUGUSTA	13	5.19	69.0	34	.	1.3	102	163	4.3	7.0	3.5	.	.	5.0	.
2 HARUS	3	5.54	72.3	35	.	0.8	100	161	1.8	6.5	3.3	.	.	4.0	.
3 ENA	17	4.42	68.9	30	.	2.5	108	161	2.3	7.0	3.3	.	.	6.0	.
4 ANNETTE	16	4.64	67.7	32	.	3.1	108	163	0.0	7.8	3.0	.	.	5.0	.
5 HARMIL	14	5.03	66.1	29	.	4.5	100	161	4.0	6.8	3.0	.	.	2.5	.
6 REBECCA	10	5.31	69.7	34	.	0.1	94	161	3.3	7.5	2.8	.	.	4.0	.
7 ZAVITZ	15	4.98	68.1	40	.	2.9	104	163	3.8	2.0	4.0	.	.	3.0	.
8 KARENA	7	5.43	71.4	34	.	1.3	102	162	2.8	5.0	2.8	.	.	4.0	.
9 AC RON	6	5.50	72.2	35	.	1.6	94	161	4.0	7.0	3.0	.	.	4.0	.
10 OAC87W.22	8	5.34	71.5	31	.	0.5	92	162	1.5	8.0	3.8	.	.	4.0	.
11 DELAWARE	2	5.60	68.0	38	.	1.5	98	164	3.3	8.5	3.5	.	.	3.5	.
12 CASEY	4	5.52	72.2	35	.	0.8	103	161	2.3	6.5	4.0	.	.	3.0	.
13 KARAT	18	4.40	67.8	33	.	0.3	117	162	0.0	6.0	4.5	.	.	4.5	.
14 RUBY	5	5.51	75.7	38	.	1.1	87	159	4.8	2.0	4.0	.	.	2.5	.
15 FUNDULEA	1	6.06	77.2	36	.	0.1	92	162	1.3	0.0	3.3	.	.	2.0	.
16 LUCAS	9	5.32	76.8	46	.	0.0	82	158	0.0	1.5	3.8	.	.	3.0	.
17 M.8.1	11	5.26	70.7	37	.	0.0	92	160	1.0	5.0	4.8	.	.	5.0	.
18 DIANNA	12	5.23	69.6	30	.	0.1	100	162	2.3	4.0	3.3	.	.	5.0	.
MEANS		5.24	71.1	35	.	1.3	99	161	2.4	5.4	3.5	.	.	3.9	.

\* DAYS FROM JAN.1

A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS

## ONTARIO RECOMMENDATION; FALL RED AND PASTRY WHEAT 1993

LOCATION - LONDON  
MANAGEMENT - NORMAL

KEY NAME	YIELD		TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA													
1 AUGUSTA	11	3.46	58.9	20	.	0.2	124	.	.	.	.	.	.	.	.
2 HARUS	7	3.76	70.1	25	.	0.0	112	.	.	.	.	.	.	.	.
3 ENA	15	3.16	64.1	20	.	0.0	121	.	.	.	.	.	.	.	.
4 ANNETTE	16	3.09	62.5	25	.	0.5	116	.	.	.	.	.	.	.	.
5 HARMIL	12	3.44	58.9	21	.	0.0	124	.	.	.	.	.	.	.	.
6 REBECCA	9	3.60	62.9	23	.	0.0	109	.	.	.	.	.	.	.	.
7 ZAVITZ	2	3.92	64.0	29	.	0.8	119	.	.	.	.	.	.	.	.
8 KARENA	13	3.43	63.1	20	.	0.0	118	.	.	.	.	.	.	.	.
9 AC RON	4	3.90	64.2	23	.	0.0	118	.	.	.	.	.	.	.	.
10 OAC87W.22	10	3.51	64.5	20	.	0.2	109	.	.	.	.	.	.	.	.
11 DELAWARE	5	3.85	62.0	25	.	0.8	110	.	.	.	.	.	.	.	.
12 CASEY	3	3.91	66.3	25	.	0.0	110	.	.	.	.	.	.	.	.
13 KARAT	18	2.35	59.4	20	.	0.0	118	.	.	.	.	.	.	.	.
14 RUBY	14	3.35	68.7	22	.	0.2	108	.	.	.	.	.	.	.	.
15 FUNDULEA	1	3.96	72.8	24	.	0.0	102	.	.	.	.	.	.	.	.
16 LUCAS	8	3.72	73.0	30	.	0.0	89	.	.	.	.	.	.	.	.
17 M.8.1	17	2.79	60.2	21	.	0.0	90	.	.	.	.	.	.	.	.
18 DIANNA	6	3.78	63.6	20	.	0.0	114	.	.	.	.	.	.	.	.
MEANS		3.50	64.4	23	.	0.2	112	.	.	.	.	.	.	.	.

LOCATION - WOODSTOCK  
MANAGEMENT - NORMAL

KEY NAME	YIELD		TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA													
1 AUGUSTA	.	.	57.4	26	.	2.5	113	167	.	.	.	.	.	.	3.3
2 HARUS	.	.	61.1	28	.	1.8	105	165	.	.	.	.	.	.	2.5
3 ENA	.	.	59.9	29	.	1.0	100	167	.	.	.	.	.	.	4.3
4 ANNETTE	.	.	58.6	27	.	2.5	102	167	.	.	.	.	.	.	4.3
5 HARMIL	.	.	61.1	30	.	2.0	108	167	.	.	.	.	.	.	3.0
6 REBECCA	.	.	58.6	26	.	2.3	93	166	.	.	.	.	.	.	3.3
7 ZAVITZ	.	.	54.9	27	.	3.3	102	167	.	.	.	.	.	.	4.0
8 KARENA	.	.	58.6	30	.	2.3	100	166	.	.	.	.	.	.	4.3
9 AC RON	.	.	58.6	27	.	3.3	95	166	.	.	.	.	.	.	5.0
10 OAC87W.22	.	.	63.0	33	.	1.5	98	166	.	.	.	.	.	.	3.5
11 DELAWARE	.	.	59.9	34	.	2.5	93	167	.	.	.	.	.	.	4.3
12 CASEY	.	.	58.6	29	.	2.0	95	166	.	.	.	.	.	.	2.5
13 KARAT	.	.	54.9	26	.	1.0	108	167	.	.	.	.	.	.	3.5
14 RUBY	.	.	59.9	27	.	2.0	88	165	.	.	.	.	.	.	4.8
15 FUNDULEA	.	.	64.9	31	.	1.3	92	167	.	.	.	.	.	.	3.5
16 LUCAS	.	.	64.9	36	.	1.0	78	162	.	.	.	.	.	.	2.8
17 M.8.1	.	.	57.4	30	.	1.5	78	165	.	.	.	.	.	.	5.0
18 DIANNA	.	.	57.4	28	.	1.5	103	167	.	.	.	.	.	.	3.5
MEANS		.	59.4	29	.	1.9	97	166	.	.	.	.	.	.	3.7

\* DAYS FROM JAN.1

A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS

## ONTARIO RECOMMENDATION; FALL RED AND PASTRY WHEAT 1993

LOCATION - ELORA  
MANAGEMENT - NORMAL

KEY NAME	RK	YIELD		TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
		T/HA	T/HA													
1 AUGUSTA	11	4.58	64.9	31	100	1.8	111	171	.	.	.	.	.	.	3.8	.
2 HARUS	7	4.66	71.7	34	99	3.3	103	168	.	.	.	.	.	.	2.5	.
3 ENA	14	4.18	68.6	28	100	4.8	105	170	.	.	.	.	.	.	3.3	.
4 ANNETTE	15	4.15	62.4	33	99	4.7	105	171	.	.	.	.	.	.	3.8	.
5 HARMIL	3	4.74	63.0	30	99	3.8	110	170	.	.	.	.	.	.	2.3	.
6 REBECCA	5	4.70	69.9	34	95	1.5	103	170	.	.	.	.	.	.	1.8	.
7 ZAVITZ	9	4.65	64.2	37	100	5.0	101	170	.	.	.	.	.	.	2.0	.
8 KARENA	12	4.53	63.6	28	100	1.5	116	170	.	.	.	.	.	.	2.5	.
9 AC RON	5	4.70	63.0	29	100	4.0	105	170	.	.	.	.	.	.	2.8	.
10 OAC87W.22	2	4.77	62.4	24	100	2.5	103	171	.	.	.	.	.	.	2.0	.
11 DELAWARE	10	4.60	60.5	30	100	5.8	100	172	.	.	.	.	.	.	2.0	.
12 CASEY	3	4.74	64.9	31	100	2.7	99	168	.	.	.	.	.	.	3.3	.
13 KARAT	18	3.04	64.9	29	85	1.0	113	170	.	.	.	.	.	.	3.5	.
14 RUBY	1	4.97	72.3	33	100	3.0	93	168	.	.	.	.	.	.	2.3	.
15 FUNDULEA	7	4.66	76.1	34	98	0.8	93	170	.	.	.	.	.	.	0.0	.
16 LUCAS	16	3.88	77.3	47	90	0.3	83	167	.	.	.	.	.	.	2.0	.
17 M.8.1	17	3.85	68.0	36	99	0.3	84	169	.	.	.	.	.	.	3.0	.
18 DIANNA	13	4.48	67.4	32	100	1.8	106	169	.	.	.	.	.	.	3.5	.
MEANS		4.44	67.0	32	98	2.7	102	170	.	.	.	.	.	.	2.6	.

LOCATION - HARRISTON  
MANAGEMENT - NORMAL

KEY NAME	RK	YIELD		TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
		T/HA	T/HA													
1 AUGUSTA	5	3.53	59.2	24	100	.	100	171	.	.	2.3	.	.	.	5.5	.
2 HARUS	2	4.03	64.3	25	100	.	93	169	.	.	2.5	.	.	.	4.3	.
3 ENA	16	2.74	61.3	22	100	.	95	170	.	.	2.0	.	.	.	4.5	.
4 ANNETTE	13	2.85	60.8	28	98	.	98	171	.	.	2.0	.	.	.	5.5	.
5 HARMIL	6	3.51	62.9	23	99	.	100	169	.	.	1.3	.	.	.	3.3	.
6 REBECCA	3	3.65	62.9	25	99	.	88	170	.	.	1.5	.	.	.	3.3	.
7 ZAVITZ	4	3.61	62.3	31	100	.	95	170	.	.	3.5	.	.	.	3.3	.
8 KARENA	15	2.76	60.1	23	98	.	95	170	.	.	2.0	.	.	.	4.3	.
9 AC RON	11	2.95	58.1	22	99	.	95	170	.	.	1.8	.	.	.	5.3	.
10 OAC87W.22	12	2.91	61.6	23	98	.	88	171	.	.	3.5	.	.	.	4.5	.
11 DELAWARE	6	3.51	60.4	30	100	.	90	172	.	.	2.5	.	.	.	4.3	.
12 CASEY	8	3.38	62.7	26	100	.	88	169	.	.	3.5	.	.	.	6.3	.
13 KARAT	14	2.77	65.2	26	98	.	105	172	.	.	6.0	.	.	.	5.0	.
14 RUBY	8	3.38	65.7	25	99	.	85	169	.	.	3.5	.	.	.	4.8	.
15 FUNDULEA	1	4.42	71.8	28	99	.	85	172	.	.	1.3	.	.	.	1.5	.
16 LUCAS	18	2.30	68.4	28	85	.	73	168	.	.	4.3	.	.	.	3.8	.
17 M.8.1	17	2.42	60.3	22	99	.	80	171	.	.	4.0	.	.	.	6.8	.
18 DIANNA	10	2.99	58.3	23	99	.	98	171	.	.	2.3	.	.	.	5.3	.
MEANS		3.21	62.6	25	98	.	92	170	.	.	2.8	.	.	.	4.5	.

\* DAYS FROM JAN.1

A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS

## ONTARIO RECOMMENDATION; FALL RED AND PASTRY WHEAT 1993

LOCATION - BATH  
MANAGEMENT - NORMAL

KEY NAME	YIELD		TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA													
1 AUGUSTA	7	4.67	74.4	34	.	.	109	.	.	.	4	.	.	.	.
2 HARUS	1	5.19	78.0	35	.	.	96	.	.	.	5	.	.	.	.
3 ENA	16	3.37	74.4	34	.	.	93	.	.	.	5	.	.	.	.
4 ANNETTE	8	4.46	77.4	40	.	.	98	.	.	.	5	.	.	.	.
5 HARMIL	3	5.04	75.9	33	.	.	104	.	.	.	4	.	.	.	.
6 REBECCA	9	4.41	74.9	35	.	.	91	.	.	.	4	.	.	.	.
7 ZAVITZ	13	4.24	73.6	43	.	.	109	.	.	.	3	.	.	.	.
8 KARENA	12	4.38	74.2	34	.	.	86	.	.	.	6	.	.	.	.
9 AC RON;H212.8	4	4.94	76.1	36	.	.	109	.	.	.	4	.	.	.	.
10 OAC87W.22	9	4.41	77.4	30	.	.	91	.	.	.	6	.	.	.	.
11 DELAWARE;TW86.16	11	4.39	71.9	36	.	.	96	.	.	.	6	.	.	.	.
12 CASEY;TW86.312	6	4.73	76.5	33	.	.	91	.	.	.	6	.	.	.	.
13 KARAT	18	3.15	79.8	36	.	.	104	.	.	.	7	.	.	.	.
14 RUBY	15	3.78	78.6	36	.	.	86	.	.	.	7	.	.	.	.
15 FUNDULEA	5	4.85	79.2	32	.	.	96	.	.	.	6	.	.	.	.
16 LUCAS	14	4.10	79.4	41	.	.	73	.	.	.	8	.	.	.	.
17 M.8.1;MV.12	17	3.34	76.7	36	.	.	73	.	.	.	8	.	.	.	.
18 DIANA;TW88225	2	5.18	74.9	32	.	.	96	.	.	.	5	.	.	.	.
MEANS		4.37	76.3	35	.	.	95	.	.	.	.	.	.	.	.

LOCATION - OTTAWA-1  
MANAGEMENT - NORMAL

KEY NAME	YIELD		TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA													
1 AUGUSTA	6	4.73	70.6	32	83	1.0	113	170	.	.	.	.	.	.	.
2 HARUS	15	3.90	72.4	33	48	0.0	98	169	.	.	.	.	.	.	.
3 ENA	12	4.16	72.5	31	80	0.0	113	171	.	.	.	.	.	.	.
4 ANNETTE	7	4.35	71.6	38	64	1.0	105	171	.	.	.	.	.	.	.
5 HARMIL	3	4.98	68.9	30	86	0.0	108	169	.	.	.	.	.	.	.
6 REBECCA	14	3.93	69.0	28	75	0.0	95	168	.	.	.	.	.	.	.
7 ZAVITZ	2	5.12	70.3	42	84	0.0	108	170	.	.	.	.	.	.	.
8 KARENA	5	4.86	72.5	33	70	0.0	103	168	.	.	.	.	.	.	.
9 AC RON	9	4.30	69.3	32	74	0.0	108	168	.	.	.	.	.	.	.
10 OAC87W.22	4	4.96	73.5	31	79	1.5	98	170	.	.	.	.	.	.	.
11 DELAWARE	1	5.15	71.0	38	84	1.5	95	172	.	.	.	.	.	.	.
12 CASEY	10	4.23	71.0	33	56	0.0	90	169	.	.	.	.	.	.	.
13 KARAT	16	3.39	76.9	36	54	0.0	113	170	.	.	.	.	.	.	.
14 RUBY	8	4.32	76.9	36	69	0.0	95	168	.	.	.	.	.	.	.
15 FUNDULEA	11	4.17	78.6	36	49	0.0	83	171	.	.	.	.	.	.	.
16 LUCAS	18	2.60	74.7	40	41	0.0	78	167	.	.	.	.	.	.	.
17 M.8.1	17	3.28	69.2	31	68	0.0	75	168	.	.	.	.	.	.	.
18 DIANNA	13	3.99	70.3	29	71	1.5	105	170	.	.	.	.	.	.	.
MEANS		4.25	72.2	34	69	0.4	99	169	.	.	.	.	.	.	.

\* DAYS FROM JAN.1

A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS



ONTARIO RECOMMENDATION; FALL RED AND PASTRY WHEAT 1993

LOCATION - KEMPTVILLE  
 MANAGEMENT - NORMAL

KEY NAME	YIELD		TSTW K/HL	KW MG	SUR %	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA													
1 AUGUSTA	6	6.07	85.6	43	95	.	116	169	.	.	.	.	.	.	.
2 HARUS	9	5.93	86.8	45	95	.	110	167	.	.	.	.	.	.	.
3 ENA	13	5.56	91.4	44	96	.	88	169	.	.	.	.	.	.	.
4 ANNETTE	10	5.92	87.9	49	95	.	109	168	.	.	.	.	.	.	.
5 HARMIL	8	5.96	85.6	46	96	.	120	168	.	.	.	.	.	.	.
6 REBECCA	4	6.18	85.6	47	95	.	106	169	.	.	.	.	.	.	.
7 ZAVITZ	1	6.64	86.8	54	93	.	116	169	.	.	.	.	.	.	.
8 KARENA	5	6.14	87.4	40	89	.	114	168	.	.	.	.	.	.	.
9 AC RON	7	6.03	86.2	42	87	.	118	168	.	.	.	.	.	.	.
10 OAC87W.22	12	5.70	86.2	39	92	.	110	168	.	.	.	.	.	.	.
11 DELAWARE	11	5.77	82.7	44	93	.	99	169	.	.	.	.	.	.	.
12 CASEY	3	6.22	86.8	44	90	.	96	167	.	.	.	.	.	.	.
13 KARAT	18	4.23	91.9	42	75	.	116	169	.	.	.	.	.	.	.
14 RUBY	15	4.80	91.4	46	94	.	105	167	.	.	.	.	.	.	.
15 FUNDULEA	14	5.36	91.9	39	91	.	103	168	.	.	.	.	.	.	.
16 LUCAS	17	4.51	89.1	45	91	.	96	167	.	.	.	.	.	.	.
17 M.8.1	16	4.65	90.3	52	90	.	96	169	.	.	.	.	.	.	.
18 DIANNA	2	6.58	86.8	36	94	.	113	168	.	.	.	.	.	.	.
MEANS		5.68	87.8	44	92	.	107	168	.	.	.	.	.	.	.

\* DAYS FROM JAN.1

A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS

## ONTARIO RECOMMENDATION; SPRING RED AND WHITE WHEAT 1993

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## LEGEND

YLD	-	YIELD (T/HA; 1 T/HA = 14.87 BU/AC)
TSTW	-	TEST WEIGHT (KG/HL)
KW	-	KERNEL WEIGHT (MG)
LOG	-	LODGING
HGT	-	HEIGHT (CM)
HDT	-	HEADING DATE (DAYS FROM PLANTING)
MIL	-	MILDEW
LRS	-	LEAF RUST
SEP	-	SEPTORIA
GLB	-	GLUME BLOTCH
HBL	-	HEAD BLIGHT
SSM	-	SPINDLE STREAK MOSAIC VIRUS
BYD	-	BARLEY YELLOW DWARF VIRUS
MAT	-	MATURITY

A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS

## LOCATIONS ABBREVIATIONS

EA	ELORA
EO	EMO
HN	HARRISTON
NL	NEW LISKEARD
NN	NAIRN
O1	OTTAWA-1
WP	WINTHROP

## ONTARIO RECOMMENDATION; SPRING RED AND WHITE WHEAT 1993

## DESCRIPTION OF REGISTERED ENTRIES

- CELTIC, (NAHS81-55):**  
ANGUS/LEN. DEVELOPED BY AGRIPRO COLORADO, AND MARKETED BY W.G. THOMPSON & SONS LTD. A HIGH YIELDING VARIETY WITH GOOD TEST WEIGHT AND HIGH THOUSAND KERNEL WEIGHT. RESISTANT TO LEAF RUST WITH MODERATE SEPTORIA RESISTANCE. SUSCEPTIBLE TO POWDERY MILDEW, GLUME BLOTCH AND HEAD BLIGHT. A SHORT, STRONG STRAWED CULTIVAR WITH GOOD FLOUR YIELD AND ASH CONTENT. FLOUR PROTEIN IS 3/4% LESS THAN KATEPWA. HAS A THREE YEAR INTERIM REGISTRATION.
- NORSEMAN, (HS78-1139):**  
PEDIGREE UNKNOWN. DEVELOPED BY AGRIPRO COLORADO, AND MARKETED BY W.G. THOMPSON & SONS LTD. A HIGH YIELDING, SEMI-DWARF VARIETY WITH VERY STRONG STRAW. GOOD LEAF RUST RESISTANCE AND MODERATE RESISTANCE TO POWDERY MILDEW. SUSCEPTIBLE TO OTHER PREVALENT DISEASES. HAS A THREE YEAR INTERIM REGISTRATION.
- ROBLIN:**  
RL4302/RL4356//RL4359/RL4353. DEVELOPED AT AGRICULTURE CANADA, WINNIPEG. A VERY EARLY, HIGH YIELDING CULTIVAR WITH GOOD RUST RESISTANCE. HIGH FLOUR YIELD AND FLOUR PROTEIN. SUSCEPTIBLE TO BYDV.
- GUARD:**  
EUREKA/DAWN. DEVELOPED AT SOUTH DAKOTA UNIVERSITY AND SPONSORED BY THE UNIVERSITY OF GUELPH. NOT REGISTERED FOR SALE IN CANADA.
- CDC TEAL, (W84315):**  
BW514/BIT//BW38. DEVELOPED AT THE CROP DEVELOPEMENT CENTRE AT THE UNIVERSITY OF SASKATCHEWAN BY DR.G.R.HUGHES. SPONSORED BY W.G. THOMPSON AND SONS LTD. A VERY HIGH YIELDING RED SPRING WHEAT, HOWEVER IT IS SUSCEPTIBLE TO MOST PREVALENT DISEASES.
- INVADER, (BW158):**  
SINTON/STOA. A HARD RED SPRING WHEAT DEVELOPED AT AGRIPRO AND SPONSORED BY W.G.THOMPSON AND SONS LTD.
- CM91.614:**  
PEDIGREE AND ORIGIN UNKNOWN. SPONSORED BY C&M SEEDS LTD. NOT REGISTERED FOR SALE IN CANADA.
- AC REED, (SWS:087):**  
POTOM303/DIRKWIN//KENYA321/FIELDWIN. A SOFT WHITE SPRING CULTIVAR DEVELOPED AT AGRICULTURE CANADA, LETHBRIDGE, ALBERTA. A SEMI DWARF VARIETY WITH VERY STRONG STRAW. SUSCEPTIBLE TO MILDEW. AND SEPTORIA. INTERIMLY REGISTERED FOR SALE IN WESTERN CANADA.
- AC MIMI, (QW500:35):**  
FRONTANA LF320//MADARES/OPAL. 3M TYPE OF WHEAT DEVELOPED BY AGRICULTURE CANADA IN STE. FOY QUEBEC. HAS A REGIONAL 3 YEAR INTERIM REGISTRATION.
- BW90:**  
RL4302/RL4356//RL4359/RL4353. HARD RED SPRING WHEAT DEVELOPED BY DR.T.F.TOWNLEY-SMITH IN WINNIPEG. SPONSORED BY C&M SEDDS LTD. NOT REGISTERED FOR SALE IN CANADA.
- GRANDIN:**  
A VERY HIGH YIELDING HARD RED SPRING WHEAT DEVELOPED AT NORTH DAKOTA STATE UNIVERSITY. HAS A REGIONAL REGISTRATION FOR EASTERN CANADA.
- AC POLLET, (QW500:45):**  
FRONTANA LF320//MADARES/OPAL. 3M TYPE OF WHEAT DEVELOPED BY AGRICULTURE CANADA IN STE. FOY QUEBEC. HAS A REGIONAL 3 YEAR INTERIM REGISTRATION.

## ONTARIO RECOMMENDATION; SPRING RED AND WHITE WHEAT 1993

ABBREVIATED HEADINGS REPRESENT LOCATION-YEAR-MANAGEMENT COMBINATION

TRAIT : YIELD  
 YEAR(S): 91-93  
 AREA : 2

KEY NAME	NN91N	EA91N	HN91N	WP92N	EA92N	HN92N	EA93N	WP93N	HN93N	MEAN
1 CELTIC	1.96	4.53	3.12	2.90	4.32	2.88	2.52	2.50	4.05	3.20
2 NORSEMAN	2.10	4.69	3.30	3.20	4.12	3.18	2.77	2.38	3.61	3.26
3 ROBLIN	1.70	3.68	3.91	3.44	4.28	4.11	3.44	2.50	3.53	3.40
4 GUARD	1.61	4.70	3.64	2.87	4.38	2.16	3.37	2.14	3.48	3.15
5 CDC TEAL	1.81	4.32	2.90	3.38	4.46	4.32	3.48	2.20	3.88	3.42
6 INVADER	1.70	4.10	2.07	3.02	4.21	3.48	2.17	2.11	3.52	2.93
LOCATION MEAN	1.81	4.34	3.16	3.14	4.30	3.35	2.96	2.31	3.68	3.23

## DATA EXPRESSED RELATIVE TO LOCATION MEANS

KEY NAME	NN91N	EA91N	HN91N	WP92N	EA92N	HN92N	EA93N	WP93N	HN93N	MEAN*
1 CELTIC	108	104	99	93	101	86	85	108	110	99
2 NORSEMAN	116	108	105	102	96	95	94	103	98	102
3 ROBLIN	94	85	124	110	100	123	116	108	96	106
4 GUARD	89	108	115	92	102	64	114	93	95	97
5 CDC TEAL	100	100	92	108	104	129	118	95	105	106
6 INVADER	94	95	66	96	98	104	73	92	96	90
LOCATION MEAN	1.81	4.34	3.16	3.14	4.30	3.35	2.96	2.31	3.68	3.23

TRAIT : YIELD  
 YEAR(S): 91-93  
 AREA : 3

KEY NAME	O191N	O192N	O193N	MEAN
1 CELTIC	1.61	3.71	5.19	3.50
2 NORSEMAN	1.36	3.40	4.63	3.13
3 ROBLIN	1.70	3.60	4.83	3.38
4 GUARD	1.57	4.08	4.84	3.50
5 CDC TEAL	1.58	4.51	4.51	3.53
6 INVADER	1.58	3.90	4.22	3.23
LOCATION MEAN	1.57	3.87	4.70	3.38

## DATA EXPRESSED RELATIVE TO LOCATION MEANS

KEY NAME	O191N	O192N	O193N	MEAN*
1 CELTIC	103	96	110	103
2 NORSEMAN	87	88	98	91
3 ROBLIN	109	93	103	101
4 GUARD	100	106	103	103
5 CDC TEAL	101	117	96	104
6 INVADER	101	101	90	97
LOCATION MEAN	1.57	3.87	4.70	3.38

\*MEAN OF RELATIVE YIELDS OVER ALL LOCATIONS

## ONTARIO RECOMMENDATION; SPRING RED AND WHITE WHEAT 1993

TRAIT : YIELD  
 YEAR(S): 91-93  
 AREA : 5

ABBREVIATED HEADINGS REPRESENT LOCATION-YEAR-MANAGEMENT COMBINATION

KEY NAME	NL91N	NL92N	EO92N	NL93N	MEAN
1 CELTIC	4.87	6.06	5.40	4.56	5.22
2 NORSEMAN	5.24	5.71	4.91	4.71	5.14
3 ROBLIN	4.21	6.42	4.68	5.01	5.08
4 GUARD	4.90	5.88	5.38	4.83	5.25
5 CDC TEAL	4.47	6.67	4.60	4.88	5.15
6 INVADER	5.11	6.23	4.63	4.90	5.22
LOCATION MEAN	4.80	6.16	4.93	4.82	5.18

DATA EXPRESSED RELATIVE TO LOCATION MEANS

KEY NAME	NL91N	NL92N	EO92N	NL93N	MEAN*
1 CELTIC	101	98	109	95	101
2 NORSEMAN	109	93	100	98	100
3 ROBLIN	88	104	95	104	98
4 GUARD	102	95	109	100	102
5 CDC TEAL	93	108	93	101	99
6 INVADER	106	101	94	102	101
LOCATION MEAN	4.80	6.16	4.93	4.82	5.18

\*MEAN OF RELATIVE YIELDS OVER ALL LOCATIONS

TRAIT : YIELD  
 YEAR(S): 91-93  
 AREA : 2-5  
 MGMT : NORMAL

KEY NAME	AREA 2 (9)**	AREA 3 (3)	AREA 5 (4)	PROV. (16)***
1 CELTIC	3.20	3.50	5.22	3.76
2 NORSEMAN	3.26	3.13	5.14	3.71
3 ROBLIN	3.40	3.38	5.08	3.82
4 GUARD	3.15	3.50	5.25	3.74
5 CDC TEAL	3.42	3.53	5.15	3.87
6 INVADER	2.93	3.23	5.22	3.56
OVERALL MEAN	3.23	3.38	5.18	3.74

MEAN OF RELATIVE YIELDS OVER ALL LOCATIONS

KEY NAME	AREA 2 (9)**	AREA 3 (3)	AREA 5 (4)	PROV. (16)***
1 CELTIC	99.3	103.0	101.0	100.4
2 NORSEMAN	101.8	91.1	99.8	99.3
3 ROBLIN	106.1	101.4	97.7	103.1
4 GUARD	96.9	102.9	101.7	99.2
5 CDC TEAL	105.6	104.5	99.0	103.7
6 INVADER	90.3	97.1	100.8	94.2
OVERALL MEAN	3.23	3.38	5.18	3.74

\*\* # OF LOCATIONS

\*\*\* WEIGHTED AVERAGE

## ONTARIO RECOMMENDATION; SPRING RED AND WHITE WHEAT 1993

YEAR(S): 91-93  
 MGMT : NORMAL  
 AREA : 2

KEY NAME	YIELD		TSTW K/HL	KW MG	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA												
1 CELTIC	4	3.20	73.1	33	1.8	85	54	4.7	1.1	3.7	2.0	4.3	.	.
2 NORSEMAN	3	3.26	70.6	32	0.6	78	55	4.7	0.3	4.2	2.3	4.3	.	.
3 ROBLIN	2	3.40	74.1	36	1.5	97	49	5.8	2.9	4.5	1.5	3.3	.	.
4 GUARD	5	3.15	73.1	31	1.5	86	52	5.2	0.3	4.4	2.0	4.0	.	.
5 CDC TEAL	1	3.42	73.1	34	1.2	99	53	4.3	2.0	3.6	3.0	4.7	.	.
6 INVADER	6	2.93	71.9	33	1.9	101	56	3.7	1.2	4.2	2.3	4.0	.	.
LOCATIONS		9	9	9	5	9	9	4	3	5	1	1	0	0

YIELD AVERAGES WERE BASED ON DATA FROM:

1991: NAIRN, ELORA, HARRISTON.  
 1992: WINTHROP, ELORA, HARRISTON.  
 1993: WINTHROP, ELORA, HARRISTON.

YEAR(S): 91-93  
 MGMT : NORMAL  
 AREA : 3

KEY NAME	YIELD		TSTW K/HL	KW MG	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA												
1 CELTIC	2	3.50	76.0	33	0.0	77	51	.	.	.	.	.	.	.
2 NORSEMAN	6	3.13	73.9	32	0.0	65	54	.	.	.	.	.	.	.
3 ROBLIN	4	3.38	75.4	33	0.0	83	48	.	.	.	.	.	.	.
4 GUARD	2	3.50	76.9	35	0.0	74	51	.	.	.	.	.	.	.
5 CDC TEAL	1	3.53	75.7	32	0.0	89	52	.	.	.	.	.	.	.
6 INVADER	5	3.23	77.8	38	2.0	90	55	.	.	.	.	.	.	.
LOCATIONS		3	3	3	1	3	3	0	0	0	0	0	0	0

YIELD AVERAGES WERE BASED ON DATA FROM:

1991: OTTAWA-1.  
 1992: OTTAWA-1.  
 1993: OTTAWA-1.

\* DAYS FROM PLANTING

A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS

## ONTARIO RECOMMENDATION; SPRING RED AND WHITE WHEAT 1993

YEAR(S): 91-93  
 MGMT : NORMAL  
 AREA : 5

KEY NAME	YIELD		TSTW K/HL	KW MG	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA												
1 CELTIC	2	5.22	73.5	38	1.1	86	56	.	.	6.3	.	.	.	.
2 NORSEMAN	5	5.14	70.6	36	0.9	77	58	.	.	6.0	.	.	.	.
3 ROBLIN	6	5.08	70.7	38	1.8	94	54	.	.	8.8	.	.	.	.
4 GUARD	1	5.25	73.8	36	1.6	86	55	.	.	7.5	.	.	.	.
5 CDC TEAL	4	5.15	73.6	37	1.8	99	56	.	.	7.5	.	.	.	.
6 INVADER	2	5.22	71.5	35	1.6	102	59	.	.	9.0	.	.	.	.
LOCATIONS		4	6	6	4	6	4	0	0	1	0	0	0	0

YIELD AVERAGES WERE BASED ON DATA FROM:  
 1991: NEW LISKEARD.  
 1992: NEW LISKEARD, EMO.  
 1993: LISKEARD.

YEAR(S): 91-93  
 MGMT : NORMAL  
 AREA(S): 2- 5

KEY NAME	YIELD		TSTW K/HL	KW MG	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA												
1 CELTIC	3	3.76	73.7	35	1.3	84	54	4.7	1.1	4.2	2.0	4.3	.	.
2 NORSEMAN	5	3.71	71.2	33	0.7	75	56	4.7	0.3	4.5	2.3	4.3	.	.
3 ROBLIN	2	3.82	73.2	36	1.4	94	50	5.8	2.9	5.2	1.5	3.3	.	.
4 GUARD	4	3.74	74.0	33	1.4	84	53	5.2	0.3	5.0	2.0	4.0	.	.
5 CDC TEAL	1	3.87	73.7	35	1.4	97	54	4.3	2.0	4.2	3.0	4.7	.	.
6 INVADER	6	3.56	72.7	35	1.8	100	57	3.7	1.2	5.0	2.3	4.0	.	.
LOCATIONS		16	18	18	10	18	16	4	3	6	1	1	0	0

YIELD AVERAGES WERE BASED ON DATA FROM:  
 1991: NAIRN, ELORA, HARRISTON, OTTAWA-1, NEW LISKEARD.  
 1992: WINTHROP, ELORA, HARRISTON, OTTAWA-1, NEW LISKEARD, EMO.  
 1993: WINTHROP, ELORA, HARRISTON, OTTAWA-1, NEW LISKEARD.

\* DAYS FROM PLANTING

A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS

## ONTARIO RECOMMENDATION; SPRING RED AND WHITE WHEAT 1993

ABBREVIATED HEADINGS REPRESENT LOCATION-YEAR-MANAGEMENT COMBINATION

TRAIT : YIELD  
 YEAR(S) : 92-93  
 AREA : 2

KEY NAME	WP92N	EA92N	HN92N	EA93N	WP93N	HN93N	MEAN
1 CELTIC	2.90	4.32	2.88	2.52	2.50	4.05	3.20
2 NORSEMAN	3.20	4.12	3.18	2.77	2.38	3.61	3.21
3 ROBLIN	3.44	4.28	4.11	3.44	2.50	3.53	3.55
4 GUARD	2.87	4.38	2.16	3.37	2.14	3.48	3.07
5 CDC TEAL	3.38	4.46	4.32	3.48	2.20	3.88	3.62
6 INVADER	3.02	4.21	3.48	2.17	2.11	3.52	3.09
7 CM91.614	3.98	5.50	4.26	2.43	1.18	2.46	3.30
8 AC REED	2.93	3.93	3.53	2.06	0.91	2.08	2.77
9 AC MIMI	3.68	4.93	2.83	1.28	0.48	1.13	2.39
LOCATION MEAN	3.27	4.59	3.42	2.61	1.82	3.08	3.13

## DATA EXPRESSED RELATIVE TO LOCATION MEANS

KEY NAME	WP92N	EA92N	HN92N	EA93N	WP93N	HN93N	MEAN*
1 CELTIC	89	94	84	96	137	131	105
2 NORSEMAN	98	90	93	106	131	117	106
3 ROBLIN	105	93	120	132	137	115	117
4 GUARD	88	95	63	129	117	113	101
5 CDC TEAL	103	97	126	133	121	126	118
6 INVADER	92	92	102	83	116	114	100
7 CM91.614	122	120	125	93	65	80	101
8 AC REED	90	112	103	79	50	67	84
9 AC MIMI	113	107	83	49	26	37	69
LOCATION MEAN	3.27	4.59	3.42	2.61	1.82	3.08	3.13

\*MEAN OF RELATIVE YIELDS OVER ALL LOCATIONS



## ONTARIO RECOMMENDATION; SPRING RED AND WHITE WHEAT 1993

ABBREVIATED HEADINGS REPRESENT LOCATION-YEAR-MANAGEMENT COMBINATION

TRAIT : YIELD  
 YEAR(S) : 92-93  
 AREA : 3

KEY NAME	O192N	O193N	MEAN
1 CELTIC	3.71	5.19	4.45
2 NORSEMAN	3.40	4.63	4.02
3 ROBLIN	3.60	4.83	4.22
4 GUARD	4.08	4.84	4.46
5 CDC TEAL	4.51	4.51	4.51
6 INVADER	3.90	4.22	4.06
7 CM91.614	4.52	4.28	4.40
8 AC REED	4.51	4.53	4.52
9 AC MIMI	4.91	4.09	4.50
LOCATION MEAN	4.13	4.57	4.35

## DATA EXPRESSED RELATIVE TO LOCATION MEANS

KEY NAME	O192N	O193N	MEAN*
1 CELTIC	90	114	102
2 NORSEMAN	82	101	92
3 ROBLIN	87	106	96
4 GUARD	99	106	102
5 CDC TEAL	109	99	104
6 INVADER	95	92	93
7 CM91.614	110	94	102
8 AC REED	109	99	104
9 AC MIMI	119	90	104
LOCATION MEAN	4.13	4.57	4.35

\*MEAN OF RELATIVE YIELDS OVER ALL LOCATIONS

## ONTARIO RECOMMENDATION; SPRING RED AND WHITE WHEAT 1993

ABBREVIATED HEADINGS REPRESENT LOCATION-YEAR-MANAGEMENT COMBINATION

TRAIT : YIELD  
 YEAR(S) : 92-93  
 AREA : 5

KEY NAME	NL92N	EO92N	NL93N	MEAN
1 CELTIC	6.06	5.40	4.56	5.34
2 NORSEMAN	5.71	4.91	4.71	5.11
3 ROBLIN	6.42	4.68	5.01	5.37
4 GUARD	5.88	5.38	4.83	5.36
5 CDC TEAL	6.67	4.60	4.88	5.38
6 INVADER	6.23	4.63	4.90	5.25
7 CM91.614	6.25	5.05	4.83	5.38
8 AC REED	6.56	5.42	5.30	5.76
9 AC MIMI	6.74	5.44	4.75	5.64
LOCATION MEAN	6.28	5.06	4.86	5.40

## DATA EXPRESSED RELATIVE TO LOCATION MEANS

KEY NAME	NL92N	EO92N	NL93N	MEAN*
1 CELTIC	96	107	94	99
2 NORSEMAN	91	97	97	95
3 ROBLIN	102	93	103	99
4 GUARD	94	106	99	100
5 CDC TEAL	106	91	100	99
6 INVADER	99	92	101	97
7 CM91.614	100	100	99	100
8 AC REED	104	107	109	107
9 AC MIMI	107	108	98	104
LOCATION MEAN	6.28	5.06	4.86	5.40

\*MEAN OF RELATIVE YIELDS OVER ALL LOCATIONS

## ONTARIO RECOMMENDATION; SPRING RED AND WHITE WHEAT 1993

TRAIT : YIELD  
 YEAR(S) : 92-93  
 AREA : 2-5  
 MGMT : NORMAL

KEY NAME	AREA 2 (6)*	AREA 3 (2)	AREA 5 (3)	PROV. (11)**
1 CELTIC	3.20	4.45	5.34	4.01
2 NORSEMAN	3.21	4.02	5.11	3.87
3 ROBLIN	3.55	4.22	5.37	4.17
4 GUARD	3.07	4.46	5.36	3.95
5 CDC TEAL	3.62	4.51	5.38	4.26
6 INVADER	3.09	4.06	5.25	3.85
7 CM91.614	3.30	4.40	5.38	4.07
8 AC REED	2.77	4.52	5.76	3.91
9 AC MIMI	2.39	4.50	5.64	3.66
OVERALL MEAN	3.13	4.35	5.40	3.97

## MEAN OF RELATIVE YIELDS OVER ALL LOCATIONS

KEY NAME	AREA 2 (6)*	AREA 3 (2)	AREA 5 (3)	PROV. (11)**
1 CELTIC	105.4	101.7	99.0	103.0
2 NORSEMAN	105.7	91.9	95.0	100.3
3 ROBLIN	117.0	96.5	99.3	108.4
4 GUARD	101.0	102.4	99.8	100.9
5 CDC TEAL	117.8	104.0	99.2	110.2
6 INVADER	99.8	93.4	97.2	97.9
7 CM91.614	100.6	101.6	99.6	100.5
8 AC REED	83.5	104.2	106.9	93.7
9 AC MIMI	69.1	104.3	104.2	85.1
OVERALL MEAN	3.13	4.35	5.40	3.97

\* # OF LOCATIONS  
 \*\* WEIGHTED AVERAGE

## ONTARIO RECOMMENDATION; SPRING RED AND WHITE WHEAT 1993

YEAR(S): 92-93  
 MGMT : NORMAL  
 AREA : 2

KEY NAME	YIELD		TSTW	KW	LOG	HGT	HDT	MIL	LRS	SEP	GLB	HBL	SRS	BYD
	RK	T/HA	K/HL	MG	0-9	CM	*	0-9	0-9	0-9	0-9	0-9	0-9	0-9
1 CELTIC	5	3.20	72.8	33	2.2	90	56	4.8	0.5	4.2	.	4.3	.	.
2 NORSEMAN	4	3.21	70.4	32	0.7	82	58	4.6	0.0	4.7	.	4.3	.	.
3 ROBLIN	2	3.55	74.4	37	1.8	104	52	6.1	4.0	5.1	.	3.3	.	.
4 GUARD	7	3.07	72.6	31	1.8	89	55	5.3	0.0	4.9	.	4.0	.	.
5 CDC TEAL	1	3.62	73.6	35	1.6	103	56	4.7	4.0	4.1	.	4.7	.	.
6 INVADER	6	3.09	71.7	34	2.4	106	58	3.8	2.0	4.3	.	4.0	.	.
7 CM91.614	3	3.30	70.6	28	0.6	77	57	1.9	4.0	3.9	.	3.0	.	.
8 AC REED	8	2.78	62.4	26	0.3	86	56	6.5	6.0	6.5	.	3.3	.	.
9 AC MIMI	9	2.39	61.9	27	2.3	107	57	4.1	5.0	6.6	.	6.0	.	.
LOCATIONS		6	6	6	4	6	6	4	1	4	0	1	0	0

YIELD AVERAGES WERE BASED ON DATA FROM:

1992: WINTHROP, ELORA, HARRISTON.

1993: WINTHROP, ELORA, HARRISTON.

YEAR(S): 92-93  
 MGMT : NORMAL  
 AREA : 3

KEY NAME	YIELD		TSTW	KW	LOG	HGT	HDT	MIL	LRS	SEP	GLB	HBL	SRS	BYD
	RK	T/HA	K/HL	MG	0-9	CM	*	0-9	0-9	0-9	0-9	0-9	0-9	0-9
1 CELTIC	5	4.45	78.3	36	0.0	84	54	.	.	.	.	.	.	.
2 NORSEMAN	9	4.02	77.1	36	0.0	73	56	.	.	.	.	.	.	.
3 ROBLIN	7	4.22	77.9	36	0.0	91	50	.	.	.	.	.	.	.
4 GUARD	4	4.46	79.9	40	0.0	82	53	.	.	.	.	.	.	.
5 CDC TEAL	2	4.51	78.5	36	0.0	101	54	.	.	.	.	.	.	.
6 INVADER	8	4.06	80.8	43	2.0	102	56	.	.	.	.	.	.	.
7 CM91.614	6	4.40	80.1	38	0.0	72	55	.	.	.	.	.	.	.
8 AC REED	1	4.52	78.3	39	0.0	79	54	.	.	.	.	.	.	.
9 AC MIMI	3	4.50	78.0	39	1.0	99	56	.	.	.	.	.	.	.
LOCATIONS		2	2	2	1	2	2	0	0	0	0	0	0	0

YIELD AVERAGES WERE BASED ON DATA FROM:

1992: OTTAWA-1.

1993: OTTAWA-1.

\* DAYS FROM PLANTING

A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS

## ONTARIO RECOMMENDATION; SPRING RED AND WHITE WHEAT 1993

YEAR(S): 92-93  
 MGMT : NORMAL  
 AREA : 5

KEY NAME	YIELD		TSTW K/HL	KW MG	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA												
1 CELTIC	7	5.34	73.7	38	1.1	88	57	.	.	6.3	.	.	.	.
2 NORSEMAN	9	5.11	70.7	35	0.9	80	59	.	.	6.0	.	.	.	.
3 ROBLIN	5	5.37	70.8	37	1.8	97	56	.	.	8.8	.	.	.	.
4 GUARD	6	5.36	74.2	35	1.6	87	57	.	.	7.5	.	.	.	.
5 CDC TEAL	3	5.38	74.0	37	1.8	100	58	.	.	7.5	.	.	.	.
6 INVADER	8	5.25	71.6	37	1.6	106	60	.	.	9.0	.	.	.	.
7 CM91.614	3	5.38	74.3	35	0.5	77	58	.	.	8.8	.	.	.	.
8 AC REED	1	5.76	68.3	33	0.7	83	58	.	.	8.8	.	.	.	.
9 AC MIMI	2	5.64	70.9	36	3.5	106	59	.	.	8.8	.	.	.	.
LOCATIONS		3	4	4	4	4	3	0	0	1	0	0	0	0

YIELD AVERAGES WERE BASED ON DATA FROM:  
 1992: NEW LISKEARD, EMO.  
 1993: NEW LISKEARD.

YEAR(S): 92-93  
 MGMT : NORMAL  
 AREA(S): 2- 5

KEY NAME	YIELD		TSTW K/HL	KW MG	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA												
1 CELTIC	4	4.01	74.0	35	1.5	88	56	4.8	0.5	4.6	.	4.3	.	.
2 NORSEMAN	7	3.87	71.6	33	0.7	80	58	4.6	0.0	5.0	.	4.3	.	.
3 ROBLIN	2	4.17	73.8	37	1.6	99	53	6.1	4.0	5.8	.	3.3	.	.
4 GUARD	5	3.95	74.4	34	1.5	87	55	5.3	0.0	5.4	.	4.0	.	.
5 CDC TEAL	1	4.26	74.5	36	1.5	102	56	4.7	4.0	4.8	.	4.7	.	.
6 INVADER	8	3.85	73.2	37	2.0	105	58	3.8	2.0	5.3	.	4.0	.	.
7 CM91.614	3	4.07	73.4	32	0.5	76	56	1.9	4.0	4.9	.	3.0	.	.
8 AC REED	6	3.91	67.0	30	0.5	84	56	6.5	6.0	7.0	.	3.3	.	.
9 AC MIMI	9	3.66	67.6	32	2.7	105	57	4.1	5.0	7.0	.	6.0	.	.
LOCATIONS		11	12	12	9	12	11	4	1	5	0	1	0	0

YIELD AVERAGES WERE BASED ON DATA FROM:  
 1992: WINTHROP, ELORA, HARRISTON, OTTAWA-1, NEW LISKEARD, EMO.  
 1993: WINTHROP, ELORA, HARRISTON, OTTAWA-1, NEW LISKEARD.

\* DAYS FROM PLANTING  
 A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS

## ONTARIO RECOMMENDATION; SPRING RED AND WHITE WHEAT 1993

TRAIT : YIELD  
 YEAR : 93  
 AREA : 2

ABBREVIATED HEADINGS REPRESENT LOCATION-YEAR-MANAGEMENT COMBINATION

KEY NAME	EA93N	WP93N	HN93N	MEAN
1 CELTIC	2.52	2.50	4.05	3.02
2 NORSEMAN	2.77	2.38	3.61	2.92
3 ROBLIN	3.44	2.50	3.53	3.16
4 GUARD	3.37	2.14	3.48	3.00
5 CDC TEAL	3.48	2.20	3.88	3.19
6 INVADER	2.17	2.11	3.52	2.60
7 CM91.614	2.43	1.18	2.46	2.02
8 AC REED	2.06	0.91	2.08	1.68
9 AC MIMI	1.28	0.48	1.13	0.96
10 BW.90	3.33	2.53	3.89	3.25
11 GRANDIN	3.01	2.57	3.75	3.11
12 AC POLLET	2.13	1.24	2.77	2.05
LOCATION MEAN	2.67	1.89	3.18	2.58

DATA EXPRESSED RELATIVE TO LOCATION MEANS

KEY NAME	EA93N	WP93N	HN93N	MEAN*
1 CELTIC	95	132	127	118
2 NORSEMAN	104	126	114	114
3 ROBLIN	129	132	111	124
4 GUARD	126	113	109	116
5 CDC TEAL	131	116	122	123
6 INVADER	81	111	111	101
7 CM91.614	91	62	77	77
8 AC REED	77	48	65	64
9 AC MIMI	48	25	36	36
10 BW.90	125	134	122	127
11 GRANDIN	113	136	118	122
12 AC POLLET	80	65	87	77
LOCATION MEAN	2.67	1.89	3.18	2.58

\* MEAN OF RELATIVE YIELD OVER ALL LOCATIONS.

## ONTARIO RECOMMENDATION; SPRING RED AND WHITE WHEAT 1993

TRAIT : YIELD  
 YEAR : 93  
 AREA : 3

ABBREVIATED HEADINGS REPRESENT LOCATION-YEAR-MANAGEMENT COMBINATION

KEY NAME	O193N	MEAN
1 CELTIC	5.19	5.19
2 NORSEMAN	4.63	4.63
3 ROBLIN	4.83	4.83
4 GUARD	4.84	4.84
5 CDC TEAL	4.51	4.51
6 INVADER	4.22	4.22
7 CM91.614	4.28	4.28
8 AC REED	4.53	4.53
9 AC MIMI	4.09	4.09
10 BW.90	4.93	4.93
11 GRANDIN	5.26	5.26
12 AC POLLET	4.91	4.91
LOCATION MEAN	4.68	4.68

DATA EXPRESSED RELATIVE TO LOCATION MEANS

KEY NAME	O193N	MEAN*
1 CELTIC	111	111
2 NORSEMAN	99	99
3 ROBLIN	103	103
4 GUARD	103	103
5 CDC TEAL	96	96
6 INVADER	90	90
7 CM91.614	91	91
8 AC REED	97	97
9 AC MIMI	87	87
10 BW.90	105	105
11 GRANDIN	112	112
12 AC POLLET	105	105
LOCATION MEAN	4.68	4.68

\* MEAN OF RELATIVE YIELD OVER ALL LOCATIONS.

## ONTARIO RECOMMENDATION; SPRING RED AND WHITE WHEAT 1993

TRAIT : YIELD  
 YEAR : 93  
 AREA : 5

ABBREVIATED HEADINGS REPRESENT LOCATION-YEAR-MANAGEMENT COMBINATION

KEY NAME	NL93N	MEAN
1 CELTIC	4.56	4.56
2 NORSEMAN	4.71	4.71
3 ROBLIN	5.01	5.01
4 GUARD	4.83	4.83
5 CDC TEAL	4.88	4.88
6 INVADER	4.90	4.90
7 CM91.614	4.83	4.83
8 AC REED	5.30	5.30
9 AC MIMI	4.75	4.75
10 BW.90	5.14	5.14
11 GRANDIN	5.14	5.14
12 AC POLLET	4.92	4.92
LOCATION MEAN	4.91	4.91

DATA EXPRESSED RELATIVE TO LOCATION MEANS

KEY NAME	NL93N	MEAN*
1 CELTIC	93	93
2 NORSEMAN	96	96
3 ROBLIN	102	102
4 GUARD	98	98
5 CDC TEAL	99	99
6 INVADER	100	100
7 CM91.614	98	98
8 AC REED	108	108
9 AC MIMI	97	97
10 BW.90	105	105
11 GRANDIN	105	105
12 AC POLLET	100	100
LOCATION MEAN	4.91	4.91

\* MEAN OF RELATIVE YIELD OVER ALL LOCATIONS.



## ONTARIO RECOMMENDATION; SPRING RED AND WHITE WHEAT 1993

TRAIT : YIELD  
 YEAR : 93  
 AREA : 2-5  
 MGMT : NORMAL

KEY NAME	AREA 2 (3)*	AREA 3 (1)	AREA 5 (1)	PROV.(5)**
1 CELTIC	3.02	5.19	4.56	3.76
2 NORSEMAN	2.92	4.63	4.71	3.62
3 ROBLIN	3.16	4.83	5.01	3.86
4 GUARD	3.00	4.84	4.83	3.73
5 CDC TEAL	3.19	4.51	4.88	3.79
6 INVADER	2.60	4.22	4.90	3.38
7 CM91.614	2.02	4.28	4.83	3.04
8 AC REED	1.68	4.53	5.30	2.98
9 AC MIMI	0.96	4.09	4.75	2.35
10 BW.90	3.25	4.93	5.14	3.96
11 GRANDIN	3.11	5.26	5.14	3.95
12 AC POLLET	2.05	4.91	4.92	3.19
OVERALL MEAN	2.58	4.68	4.91	3.47

## MEAN OF RELATIVE YIELDS OVER ALL LOCATIONS

KEY NAME	AREA 2 (3)*	AREA 3 (1)	AREA 5 (1)	PROV.(5)**
1 CELTIC	117.9	110.8	92.8	111.5
2 NORSEMAN	114.4	98.8	95.8	107.5
3 ROBLIN	124.0	103.1	102.0	115.4
4 GUARD	116.3	103.3	98.3	110.1
5 CDC TEAL	122.9	96.3	99.3	112.8
6 INVADER	101.2	90.1	99.7	98.7
7 CM91.614	76.9	91.4	98.3	84.1
8 AC REED	63.6	96.7	107.9	79.1
9 AC MIMI	36.3	87.3	96.7	58.6
10 BW.90	126.9	105.2	104.6	118.1
11 GRANDIN	122.2	112.3	104.6	116.7
12 AC POLLET	77.5	104.8	100.1	87.5
OVERALL MEAN	2.58	4.68	4.91	3.47

\* # OF LOCATIONS  
 \*\* WEIGHTED AVERAGE

## ONTARIO RECOMMENDATION; SPRING RED AND WHITE WHEAT 1993

YEAR : 93  
 MGMT : NORMAL  
 AREA : 2

KEY NAME	YIELD		TSTW K/HL	KW MG	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA												
1 CELTIC	5	3.03	73.2	33	0.0	90	57	4.1	0.5	4.4	.	.	.	.
2 NORSEMAN	7	2.92	70.5	31	0.0	81	59	4.6	0.0	3.5	.	.	.	.
3 ROBLIN	3	3.16	75.0	36	0.3	105	54	5.7	4.0	4.7	.	.	.	.
4 GUARD	6	3.00	73.0	30	0.0	90	56	4.7	0.0	4.7	.	.	.	.
5 CDC TEAL	2	3.19	73.7	34	0.4	103	57	4.2	4.0	3.7	.	.	.	.
6 INVADER	8	2.60	70.8	31	0.4	105	59	3.3	2.0	4.7	.	.	.	.
7 CM91.614	10	2.02	65.6	23	0.0	74	59	1.6	4.0	3.4	.	.	.	.
8 AC REED	11	1.68	55.7	19	0.0	86	57	6.5	6.0	6.3	.	.	.	.
9 AC MIMI	12	0.96	53.0	17	0.0	105	59	3.9	5.0	6.8	.	.	.	.
10 BW.90	1	3.25	74.7	33	0.5	110	57	2.5	3.0	2.8	.	.	.	.
11 GRANDIN	4	3.11	73.4	32	0.0	95	57	3.2	2.0	5.5	.	.	.	.
12 AC POLLET	9	2.05	69.4	30	1.8	108	59	5.3	6.0	5.1	.	.	.	.
LOCATIONS		3	3	3	1	3	3	2	1	3	0	0	0	0

YIELD AVERAGES WERE BASED ON DATA FROM: WINTHROP, ELORA, HARRISTON.

YEAR : 93  
 MGMT : NORMAL  
 AREA : 3

KEY NAME	YIELD		TSTW K/HL	KW MG	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA												
1 CELTIC	2	5.19	74.0	28	0.0	88	55	.	.	.	.	.	.	.
2 NORSEMAN	7	4.63	79.4	35	0.0	78	58	.	.	.	.	.	.	.
3 ROBLIN	6	4.83	76.3	32	0.0	104	52	.	.	.	.	.	.	.
4 GUARD	5	4.84	78.6	37	0.0	91	54	.	.	.	.	.	.	.
5 CDC TEAL	9	4.51	76.9	32	0.0	103	56	.	.	.	.	.	.	.
6 INVADER	11	4.22	81.4	43	2.0	113	58	.	.	.	.	.	.	.
7 CM91.614	10	4.28	78.2	35	0.0	73	56	.	.	.	.	.	.	.
8 AC REED	8	4.53	79.7	35	0.0	84	55	.	.	.	.	.	.	.
9 AC MIMI	12	4.09	79.1	31	1.0	108	57	.	.	.	.	.	.	.
10 BW.90	3	4.93	79.2	30	3.0	114	55	.	.	.	.	.	.	.
11 GRANDIN	1	5.26	79.9	43	0.0	89	55	.	.	.	.	.	.	.
12 AC POLLET	4	4.91	72.6	28	5.0	123	59	.	.	.	.	.	.	.
LOCATIONS		1	1	1	1	1	1	0	0	0	0	0	0	0

YIELD AVERAGES WERE BASED ON DATA FROM: OTTAWA-1.

\* DAYS FROM PLANTING  
 A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS

## ONTARIO RECOMMENDATION; SPRING RED AND WHITE WHEAT 1993

YEAR : 93  
 MGMT : NORMAL  
 AREA : 5

KEY NAME	YIELD		TSTW	KW	LOG	HGT	HDT	MIL	LRS	SEP	GLB	HBL	SRS	BYD
	RK	T/HA	K/HL	MG	0-9	CM	*	0-9	0-9	0-9	0-9	0-9	0-9	0-9
1 CELTIC	12	4.56	72.9	36	0.5	88	59	.	.	6.3	.	.	.	.
2 NORSEMAN	11	4.71	70.8	34	0.5	79	59	.	.	6.0	.	.	.	.
3 ROBLIN	4	5.01	70.1	36	1.6	96	59	.	.	8.8	.	.	.	.
4 GUARD	8	4.83	73.4	34	0.5	85	59	.	.	7.5	.	.	.	.
5 CDC TEAL	7	4.88	73.9	36	0.9	97	59	.	.	7.5	.	.	.	.
6 INVADER	6	4.90	72.3	35	0.8	106	60	.	.	9.0	.	.	.	.
7 CM91.614	8	4.83	74.7	33	0.5	80	59	.	.	8.8	.	.	.	.
8 AC REED	1	5.30	68.2	31	0.5	85	59	.	.	8.8	.	.	.	.
9 AC MIMI	10	4.75	69.6	32	3.0	105	62	.	.	8.8	.	.	.	.
10 BW.90	2	5.14	71.6	35	1.3	104	59	.	.	6.8	.	.	.	.
11 GRANDIN	2	5.14	74.7	38	0.5	89	59	.	.	7.0	.	.	.	.
12 AC POLLET	5	4.92	73.4	39	3.3	120	62	.	.	9.0	.	.	.	.
LOCATIONS		1	2	2	2	2	1	0	0	1	0	0	0	0

YIELD AVERAGES WERE BASED ON DATA FROM: NEW LISKEARD.

YEAR : 93  
 MGMT : NORMAL  
 AREA(S) : 2- 5

KEY NAME	YIELD		TSTW	KW	LOG	HGT	HDT	MIL	LRS	SEP	GLB	HBL	SRS	BYD
	RK	T/HA	K/HL	MG	0-9	CM	*	0-9	0-9	0-9	0-9	0-9	0-9	0-9
1 CELTIC	5	3.77	73.2	33	0.3	89	57	4.1	0.5	4.8	.	.	.	.
2 NORSEMAN	7	3.62	72.1	33	0.3	80	59	4.6	0.0	4.1	.	.	.	.
3 ROBLIN	3	3.86	73.6	35	0.9	102	55	5.7	4.0	5.7	.	.	.	.
4 GUARD	6	3.73	74.1	32	0.3	89	56	4.7	0.0	5.4	.	.	.	.
5 CDC TEAL	4	3.79	74.3	34	0.6	101	57	4.2	4.0	4.6	.	.	.	.
6 INVADER	8	3.38	73.1	35	1.0	107	59	3.3	2.0	5.8	.	.	.	.
7 CM91.614	10	3.04	70.7	28	0.3	76	58	1.6	4.0	4.8	.	.	.	.
8 AC REED	11	2.98	63.9	26	0.3	86	57	6.5	6.0	6.9	.	.	.	.
9 AC MIMI	12	2.35	62.9	24	1.8	106	59	3.9	5.0	7.3	.	.	.	.
10 BW.90	1	3.97	74.4	33	1.5	109	57	2.5	3.0	3.8	.	.	.	.
11 GRANDIN	2	3.95	74.9	36	0.3	92	57	3.2	2.0	5.9	.	.	.	.
12 AC POLLET	9	3.19	71.3	33	3.3	114	60	5.3	6.0	6.1	.	.	.	.
LOCATIONS		5	6	6	4	6	5	2	1	4	0	0	0	0

YIELD AVERAGES WERE BASED ON DATA FROM: WINTHROP, ELORA, HARRISTON, OTTAWA-1, NEW LISKEARD.

\* DAYS FROM PLANTING  
 A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS

## ONTARIO RECOMMENDATION; SPRING RED AND WHITE WHEAT 1993

LOCATION - WINTHROP  
MANAGEMENT - NORMAL

KEY NAME	YIELD		TSTW K/HL	KW MG	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA												
1 CELTIC	3	2.50	73.0	32	.	93	55	4.8	0.5	3.5	.	.	1.5	.
2 NORSEMAN	5	2.38	68.0	26	.	85	57	4.3	0.0	4.0	.	.	3.5	.
3 ROBLIN	3	2.50	73.4	33	.	109	52	6.5	4.0	7.0	.	.	2.0	.
4 GUARD	7	2.14	70.2	24	.	92	55	5.3	0.0	6.0	.	.	3.5	.
5 CDC TEAL	6	2.20	71.0	28	.	110	56	3.8	4.0	6.0	.	.	4.0	.
6 INVADER	8	2.11	68.0	25	.	111	56	3.3	2.0	5.5	.	.	2.0	.
7 CM91.614	10	1.18	54.7	13	.	77	56	3.3	4.0	5.0	.	.	8.0	.
8 AC REED	11	0.91	47.6	12	.	91	56	6.0	6.0	8.0	.	.	8.0	.
9 AC MIMI	12	0.48	43.8	9	.	113	56	3.8	5.0	8.5	.	.	6.5	.
10 BW.90	2	2.53	72.6	30	.	112	56	3.3	3.0	4.0	.	.	3.5	.
11 GRANDIN	1	2.57	69.2	25	.	97	55	4.0	2.0	6.5	.	.	4.0	.
12 AC POLLET	9	1.24	62.3	22	.	111	57	5.3	6.0	7.5	.	.	6.5	.
MEANS		1.89	63.8	23	.	100	56	4.5	3.0	6.0	.	.	4.4	.

LOCATION - ELORA  
MANAGEMENT - NORMAL

KEY NAME	YIELD		TSTW K/HL	KW MG	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA												
1 CELTIC	7	2.52	72.3	34	.	88	56	.	.	7.3	.	.	.	.
2 NORSEMAN	6	2.77	73.0	36	.	75	58	.	.	3.5	.	.	.	.
3 ROBLIN	2	3.44	76.1	39	.	103	53	.	.	3.0	.	.	.	.
4 GUARD	3	3.37	76.1	37	.	89	54	.	.	3.3	.	.	.	.
5 CDC TEAL	1	3.48	75.4	40	.	99	54	.	.	3.0	.	.	.	.
6 INVADER	9	2.17	70.5	35	.	99	58	.	.	5.8	.	.	.	.
7 CM91.614	8	2.43	74.8	34	.	75	57	.	.	2.5	.	.	.	.
8 AC REED	11	2.06	59.2	25	.	85	55	.	.	4.8	.	.	.	.
9 AC MIMI	12	1.28	59.9	23	.	98	58	.	.	6.0	.	.	.	.
10 BW.90	4	3.33	76.1	35	.	104	54	.	.	2.0	.	.	.	.
11 GRANDIN	5	3.01	75.4	37	.	93	55	.	.	6.0	.	.	.	.
12 AC POLLET	10	2.13	72.3	35	.	100	58	.	.	3.3	.	.	.	.
MEANS		2.67	71.8	34	.	92	56	.	.	4.2	.	.	.	.

LOCATION - HARRISTON  
MANAGEMENT - NORMAL

KEY NAME	YIELD		TSTW K/HL	KW MG	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA												
1 CELTIC	1	4.05	74.2	34	0.0	90	61	3.3	.	2.3	.	.	1.0	.
2 NORSEMAN	5	3.61	70.6	32	0.0	83	63	4.8	.	3.0	.	.	1.0	.
3 ROBLIN	6	3.53	75.6	37	0.3	103	58	4.8	.	4.0	.	.	1.5	.
4 GUARD	8	3.48	72.8	29	0.0	90	59	4.0	.	4.8	.	.	1.0	.
5 CDC TEAL	3	3.88	74.6	33	0.4	100	61	4.5	.	2.0	.	.	1.5	.
6 INVADER	7	3.52	74.0	34	0.4	105	62	3.3	.	2.8	.	.	1.0	.
7 CM91.614	10	2.46	67.2	22	0.0	70	63	0.0	.	2.8	.	.	3.3	.
8 AC REED	11	2.08	60.4	20	0.0	83	61	7.0	.	6.0	.	.	5.3	.
9 AC MIMI	12	1.13	55.2	18	0.0	105	62	4.0	.	6.0	.	.	5.8	.
10 BW.90	2	3.89	75.4	33	0.5	113	62	1.8	.	2.3	.	.	1.0	.
11 GRANDIN	4	3.75	75.6	34	0.0	95	60	2.3	.	4.0	.	.	1.0	.
12 AC POLLET	9	2.77	73.6	33	1.8	113	62	5.3	.	4.5	.	.	2.5	.
MEANS		3.18	70.8	30	0.3	96	61	3.8	.	3.7	.	.	2.2	.

\* DAYS FROM PLANTING

A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS

## ONTARIO RECOMMENDATION; SPRING RED AND WHITE WHEAT 1993

LOCATION - OTTAWA-1  
MANAGEMENT - NORMAL

KEY NAME	YIELD		TSTW K/HL	KW MG	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA												
1 CELTIC	2	5.19	74.0	28	0.0	88	55	.	.	.	.	.	.	.
2 NORSEMAN	7	4.63	79.4	35	0.0	78	58	.	.	.	.	.	.	.
3 ROBLIN	6	4.83	76.3	32	0.0	104	52	.	.	.	.	.	.	.
4 GUARD	5	4.84	78.6	37	0.0	91	54	.	.	.	.	.	.	.
5 CDC TEAL	9	4.51	76.9	32	0.0	103	56	.	.	.	.	.	.	.
6 INVADER	11	4.22	81.4	43	2.0	113	58	.	.	.	.	.	.	.
7 CM91.614	10	4.28	78.2	35	0.0	73	56	.	.	.	.	.	.	.
8 AC REED	8	4.53	79.7	35	0.0	84	55	.	.	.	.	.	.	.
9 AC MIMI	12	4.09	79.1	31	1.0	108	57	.	.	.	.	.	.	.
10 BW.90	3	4.93	79.2	30	3.0	114	55	.	.	.	.	.	.	.
11 GRANDIN	1	5.26	79.9	43	0.0	89	55	.	.	.	.	.	.	.
12 AC POLLET	4	4.91	72.6	28	5.0	123	59	.	.	.	.	.	.	.
MEANS		4.68	77.9	34	0.9	97	56	.	.	.	.	.	.	.

LOCATION - NEW LISKEARD  
MANAGEMENT - NORMAL

KEY NAME	YIELD		TSTW K/HL	KW MG	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA												
1 CELTIC	12	4.56	74.8	35	1.0	86	.	.	.	.	.	.	.	.
2 NORSEMAN	11	4.71	73.6	33	1.0	72	.	.	.	.	.	.	.	.
3 ROBLIN	4	5.01	71.1	35	1.0	87	.	.	.	.	.	.	.	.
4 GUARD	8	4.83	74.8	32	1.0	77	.	.	.	.	.	.	.	.
5 CDC TEAL	7	4.88	74.8	35	1.0	91	.	.	.	.	.	.	.	.
6 INVADER	6	4.90	73.6	35	1.0	101	.	.	.	.	.	.	.	.
7 CM91.614	8	4.83	77.3	35	1.0	74	.	.	.	.	.	.	.	.
8 AC REED	1	5.30	72.3	31	1.0	79	.	.	.	.	.	.	.	.
9 AC MIMI	10	4.75	76.1	35	2.0	99	.	.	.	.	.	.	.	.
10 BW.90	2	5.14	71.1	35	1.0	99	.	.	.	.	.	.	.	.
11 GRANDIN	2	5.14	77.3	38	1.0	85	.	.	.	.	.	.	.	.
12 AC POLLET	5	4.92	74.8	41	2.0	111	.	.	.	.	.	.	.	.
MEANS		4.91	74.3	35	1.2	88	.	.	.	.	.	.	.	.

LOCATION - EMO  
MANAGEMENT - NORMAL

KEY NAME	YIELD		TSTW K/HL	KW MG	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA												
1 CELTIC	.	.	71.0	36	0.0	90	59	.	.	6.3	.	.	.	.
2 NORSEMAN	.	.	68.0	34	0.0	85	59	.	.	6.0	.	.	.	.
3 ROBLIN	.	.	69.0	36	2.3	104	59	.	.	8.8	.	.	.	.
4 GUARD	.	.	72.0	35	0.0	93	59	.	.	7.5	.	.	.	.
5 CDC TEAL	.	.	73.0	36	0.8	103	59	.	.	7.5	.	.	.	.
6 INVADER	.	.	71.0	35	0.5	110	60	.	.	9.0	.	.	.	.
7 CM91.614	.	.	72.0	31	0.0	85	59	.	.	8.8	.	.	.	.
8 AC REED	.	.	64.0	30	0.0	91	59	.	.	8.8	.	.	.	.
9 AC MIMI	.	.	63.0	29	4.0	110	62	.	.	8.8	.	.	.	.
10 BW.90	.	.	72.0	34	1.5	109	59	.	.	6.8	.	.	.	.
11 GRANDIN	.	.	72.0	38	0.0	93	59	.	.	7.0	.	.	.	.
12 AC POLLET	.	.	72.0	36	4.5	128	62	.	.	9.0	.	.	.	.
MEANS		.	69.9	34	1.1	100	60	.	.	7.9	.	.	.	.

\* DAYS FROM PLANTING

A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS

## ONTARIO RECOMMENDATION; SPRING COMMON AND DURUM WHEAT 1993

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## LEGEND

YLD	- YIELD (T/HA; 1 T/HA = 14.87 BU/AC)
TSTW	- TEST WEIGHT (KG/HL)
KW	- KERNEL WEIGHT (MG)
LOG	- LODGING
HGT	- HEIGHT (CM)
HDT	- HEADING DATE (DAYS FROM PLANTING)
MIL	- MILDEW
LRS	- LEAF RUST
SEP	- SEPTORIA
GLB	- GLUME BLOTCH
HBL	- HEAD BLIGHT
SSM	- SPINDLE STREAK MOSAIC VIRUS
BYD	- BARLEY YELLOW DWARF VIRUS
MAT	- MATURITY

A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS

## LOCATIONS ABBREVIATIONS

EA	ELORA
EO	EMO
HN	HARRISTON
NL	NEW LISKEARD
NN	NAIRN
O1	OTTAWA-1
WP	WINTHROP

## ONTARIO RECOMMENDATION; SPRING COMMON AND DURUM WHEAT 1993

TRAIT : YIELD  
 YEAR : 93  
 AREA : 2

ABBREVIATED HEADINGS REPRESENT LOCATION-YEAR-MANAGEMENT COMBINATION

KEY NAME	WP93N	EA93N	HN93N	MEAN
1 CELTIC	2.50	2.52	4.05	3.02
2 NORSEMAN	2.38	2.77	3.61	2.92
3 ROBLIN	2.50	3.44	3.53	3.16
4 GUARD	2.14	3.37	3.48	3.00
5 CDC TEAL	2.20	3.48	3.88	3.19
6 INVADER	2.11	2.17	3.52	2.60
7 CM91.614	1.18	2.43	2.46	2.02
8 AC REED	0.91	2.06	2.08	1.68
9 BW.90	2.53	3.33	3.89	3.25
10 GRANDIN	2.57	3.01	3.75	3.11
11 AC MIMI	0.48	1.28	1.13	0.96
12 AC POLLET	1.24	2.13	2.77	2.05
13 MEDORA	2.05	3.42	4.22	3.23
14 DT469	1.84	2.44	2.69	2.32
LOCATION MEAN	1.90	2.70	3.22	2.61

DATA EXPRESSED RELATIVE TO LOCATION MEANS

KEY NAME	WP93N	EA93N	HN93N	MEAN*
1 CELTIC	131	93	126	117
2 NORSEMAN	125	102	112	113
3 ROBLIN	131	127	110	123
4 GUARD	113	125	108	115
5 CDC TEAL	116	129	121	122
6 INVADER	111	80	109	100
7 CM91.614	62	90	76	76
8 AC REED	48	76	65	63
9 BW.90	133	123	121	126
10 GRANDIN	135	111	117	121
11 AC MIMI	25	47	35	36
12 AC POLLET	65	79	86	77
13 MEDORA	108	126	131	122
14 DT469	97	90	84	90
LOCATION MEAN	1.90	2.70	3.22	2.61

\*MEAN OF RELATIVE YIELDS OVER ALL LOCATIONS

## ONTARIO RECOMMENDATION; SPRING COMMON AND DURUM WHEAT 1993

TRAIT : YIELD  
 YEAR : 93  
 AREA : 3

ABBREVIATED HEADINGS REPRESENT LOCATION-YEAR-MANAGEMENT COMBINATION

KEY NAME	O193N	MEAN
1 CELTIC	5.19	5.19
2 NORSEMAN	4.63	4.63
3 ROBLIN	4.83	4.83
4 GUARD	4.84	4.84
5 CDC TEAL	4.51	4.51
6 INVADER	4.22	4.22
7 CM91.614	4.28	4.28
8 AC REED	4.53	4.53
9 BW.90	4.93	4.93
10 GRANDIN	5.26	5.26
11 AC MIMI	4.09	4.09
12 AC POLLET	4.91	4.91
13 MEDORA	5.25	5.25
14 DT469	4.39	4.39
LOCATION MEAN	4.70	4.70

DATA EXPRESSED RELATIVE TO LOCATION MEANS

KEY NAME	O193N	MEAN*
1 CELTIC	110	110
2 NORSEMAN	98	98
3 ROBLIN	103	103
4 GUARD	103	103
5 CDC TEAL	96	96
6 INVADER	90	90
7 CM91.614	91	91
8 AC REED	96	96
9 BW.90	105	105
10 GRANDIN	112	112
11 AC MIMI	87	87
12 AC POLLET	104	104
13 MEDORA	112	112
14 DT469	93	93
LOCATION MEAN	4.70	4.70

\*MEAN OF RELATIVE YIELDS OVER ALL LOCATIONS



## ONTARIO RECOMMENDATION; SPRING COMMON AND DURUM WHEAT 1993

TRAIT : YIELD  
 YEAR : 93  
 AREA : 5

ABBREVIATED HEADINGS REPRESENT LOCATION-YEAR-MANAGEMENT COMBINATION

KEY NAME	NL93N	MEAN
1 CELTIC	4.56	4.56
2 NORSEMAN	4.71	4.71
3 ROBLIN	5.01	5.01
4 GUARD	4.83	4.83
5 CDC TEAL	4.88	4.88
6 INVADER	4.90	4.90
7 CM91.614	4.83	4.83
8 AC REED	5.30	5.30
9 BW.90	5.14	5.14
10 GRANDIN	5.14	5.14
11 AC MIMI	4.75	4.75
12 AC POLLET	4.92	4.92
13 MEDORA	4.94	4.94
14 DT469	4.17	4.17
LOCATION MEAN	4.86	4.86

DATA EXPRESSED RELATIVE TO LOCATION MEANS

KEY NAME	NL93N	MEAN*
1 CELTIC	94	94
2 NORSEMAN	97	97
3 ROBLIN	103	103
4 GUARD	99	99
5 CDC TEAL	100	100
6 INVADER	101	101
7 CM91.614	99	99
8 AC REED	109	109
9 BW.90	106	106
10 GRANDIN	106	106
11 AC MIMI	98	98
12 AC POLLET	101	101
13 MEDORA	102	102
14 DT469	86	86
LOCATION MEAN	4.86	4.86

\*MEAN OF RELATIVE YIELDS OVER ALL LOCATIONS

## ONTARIO RECOMMENDATION; SPRING COMMON AND DURUM WHEAT 1993

TRAIT : YIELD  
 YEAR : 93  
 AREA : 2-5  
 MGMT : NORMAL

KEY NAME	AREA 2 (3)*	AREA 3 (1)	AREA 5 (1)	PROV.(5)**
1 CELTIC	3.02	5.19	4.56	3.76
2 NORSEMAN	2.92	4.63	4.71	3.62
3 ROBLIN	3.16	4.83	5.01	3.86
4 GUARD	3.00	4.84	4.83	3.73
5 CDC TEAL	3.19	4.51	4.88	3.79
6 INVADER	2.60	4.22	4.90	3.38
7 CM91.614	2.02	4.28	4.83	3.04
8 AC REED	1.68	4.53	5.30	2.98
9 BW.90	3.25	4.93	5.14	3.96
10 GRANDIN	3.11	5.26	5.14	3.95
11 AC MIMI	0.96	4.09	4.75	2.35
12 AC POLLET	2.05	4.91	4.92	3.19
13 MEDORA	3.23	5.25	4.94	3.98
14 DT469	2.32	4.39	4.17	3.11
OVERALL MEAN	2.61	4.70	4.86	3.48

## MEAN OF RELATIVE YIELDS OVER ALL LOCATIONS

KEY NAME	AREA 2 (3)*	AREA 3 (1)	AREA 5 (1)	PROV.(5)**
1 CELTIC	116.8	110.3	93.8	110.9
2 NORSEMAN	113.2	98.4	96.9	107.0
3 ROBLIN	122.8	102.7	103.0	114.8
4 GUARD	115.1	102.9	99.3	109.5
5 CDC TEAL	121.6	95.9	100.4	112.2
6 INVADER	100.2	89.7	100.8	98.2
7 CM91.614	76.1	91.0	99.3	83.7
8 AC REED	62.9	96.3	109.0	78.8
9 BW.90	125.7	104.8	105.7	117.5
10 GRANDIN	121.0	111.8	105.7	116.1
11 AC MIMI	35.9	86.9	97.7	58.5
12 AC POLLET	76.7	104.4	101.2	87.1
13 MEDORA	121.8	111.6	101.6	115.7
14 DT469	90.2	93.3	85.8	89.9
OVERALL MEAN	2.61	4.70	4.86	3.48

\* # OF LOCATIONS

\*\* WEIGHTED AVERAGE

## ONTARIO RECOMMENDATION; SPRING COMMON AND DURUM WHEAT 1993

YEAR : 93  
 MGMT : NORMAL  
 AREA : 2

KEY NAME	YIELD		TSTW	KW	LOG	HGT	HDT	MIL	LRS	SEP	GLB	HBL	SRS	BYD
	RK	T/HA	K/HL	MG	0-9	CM	*	0-9	0-9	0-9	0-9	0-9	0-9	0-9
1 CELTIC	6	3.02	73.2	33	0.0	90	57	4.1	0.5	4.4	.	.	.	.
2 NORSEMAN	8	2.92	70.5	31	0.0	81	59	4.6	0.0	3.5	.	.	.	.
3 ROBLIN	4	3.16	75.0	36	0.3	105	54	5.7	4.0	4.7	.	.	.	.
4 GUARD	7	3.00	73.0	30	0.0	90	56	4.7	0.0	4.7	.	.	.	.
5 CDC TEAL	3	3.19	73.7	34	0.4	103	57	4.2	4.0	3.7	.	.	.	.
6 INVADER	9	2.60	70.8	31	0.4	105	59	3.3	2.0	4.7	.	.	.	.
7 CM91.614	12	2.02	65.6	23	0.0	74	59	1.6	4.0	3.4	.	.	.	.
8 AC REED	13	1.68	55.7	19	0.0	86	57	6.5	6.0	6.3	.	.	.	.
9 BW.90	1	3.25	74.7	33	0.5	110	57	2.5	3.0	2.8	.	.	.	.
10 GRANDIN	5	3.11	73.4	32	0.0	95	57	3.2	2.0	5.5	.	.	.	.
11 AC MIMI	14	0.96	53.0	17	0.0	105	59	3.9	5.0	6.8	.	.	.	.
12 AC POLLET	11	2.05	69.4	30	1.8	108	59	5.3	6.0	5.1	.	.	.	.
13 MEDORA	2	3.23	72.7	39	0.1	109	59	3.2	3.0	4.0	.	.	.	.
14 DT469	10	2.32	64.9	33	0.1	108	61	4.4	0.0	3.4	.	.	.	.
LOCATIONS		3	3	3	1	3	3	2	1	3	0	0	0	0

YEAR : 93  
 MGMT : NORMAL  
 AREA : 3

KEY NAME	YIELD		TSTW	KW	LOG	HGT	HDT	MIL	LRS	SEP	GLB	HBL	SRS	BYD
	RK	T/HA	K/HL	MG	0-9	CM	*	0-9	0-9	0-9	0-9	0-9	0-9	0-9
1 CELTIC	3	5.19	74.0	28	0.0	88	55	.	.	.	.	.	.	.
2 NORSEMAN	8	4.63	79.4	35	0.0	78	58	.	.	.	.	.	.	.
3 ROBLIN	7	4.83	76.3	32	0.0	104	52	.	.	.	.	.	.	.
4 GUARD	6	4.84	78.6	37	0.0	91	54	.	.	.	.	.	.	.
5 CDC TEAL	10	4.51	76.9	32	0.0	103	56	.	.	.	.	.	.	.
6 INVADER	13	4.22	81.4	43	2.0	113	58	.	.	.	.	.	.	.
7 CM91.614	12	4.28	78.2	35	0.0	73	56	.	.	.	.	.	.	.
8 AC REED	9	4.53	79.7	35	0.0	84	55	.	.	.	.	.	.	.
9 BW.90	4	4.93	79.2	30	3.0	114	55	.	.	.	.	.	.	.
10 GRANDIN	1	5.26	79.9	43	0.0	89	55	.	.	.	.	.	.	.
11 AC MIMI	14	4.09	79.1	31	1.0	108	57	.	.	.	.	.	.	.
12 AC POLLET	5	4.91	72.6	28	5.0	123	59	.	.	.	.	.	.	.
13 MEDORA	2	5.25	80.0	41	1.0	115	55	.	.	.	.	.	.	.
14 DT469	11	4.39	79.2	32	0.0	111	61	.	.	.	.	.	.	.
LOCATIONS		1	1	1	1	1	1	0	0	0	0	0	0	0

\* DAYS FROM PLANTING

A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS

## ONTARIO RECOMMENDATION; SPRING COMMON AND DURUM WHEAT 1993

YEAR : 93  
 MGMT : NORMAL  
 AREA : 5

KEY NAME	YIELD		TSTW K/HL	KW MG	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA												
1 CELTIC	13	4.56	72.9	36	0.5	88	59	.	.	6.3	.	.	.	.
2 NORSEMAN	12	4.71	70.8	34	0.5	79	59	.	.	6.0	.	.	.	.
3 ROBLIN	4	5.01	70.1	36	1.6	96	59	.	.	8.8	.	.	.	.
4 GUARD	9	4.83	73.4	34	0.5	85	59	.	.	7.5	.	.	.	.
5 CDC TEAL	8	4.88	73.9	36	0.9	97	59	.	.	7.5	.	.	.	.
6 INVADER	7	4.90	72.3	35	0.8	106	60	.	.	9.0	.	.	.	.
7 CM91.614	9	4.83	74.7	33	0.5	80	59	.	.	8.8	.	.	.	.
8 AC REED	1	5.30	68.2	31	0.5	85	59	.	.	8.8	.	.	.	.
9 BW.90	2	5.14	71.6	35	1.3	104	59	.	.	6.8	.	.	.	.
10 GRANDIN	2	5.14	74.7	38	0.5	89	59	.	.	7.0	.	.	.	.
11 AC MIMI	11	4.75	69.6	32	3.0	105	62	.	.	8.8	.	.	.	.
12 AC POLLET	6	4.92	73.4	39	3.3	120	62	.	.	9.0	.	.	.	.
13 MEDORA	5	4.94	68.2	36	1.8	107	62	.	.	8.8	.	.	.	.
14 DT469	14	4.17	63.7	37	1.8	106	62	.	.	8.3	.	.	.	.
LOCATIONS		1	2	2	2	2	1	0	0	1	0	0	0	0

YEAR : 93  
 MGMT : NORMAL  
 AREA(S): 2- 5

KEY NAME	YIELD		TSTW K/HL	KW MG	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA												
1 CELTIC	6	3.77	73.2	33	0.3	89	57	4.1	0.5	4.8	.	.	.	.
2 NORSEMAN	8	3.62	72.1	33	0.3	80	59	4.6	0.0	4.1	.	.	.	.
3 ROBLIN	4	3.86	73.6	35	0.9	102	55	5.7	4.0	5.7	.	.	.	.
4 GUARD	7	3.73	74.1	32	0.3	89	56	4.7	0.0	5.4	.	.	.	.
5 CDC TEAL	5	3.79	74.3	34	0.6	101	57	4.2	4.0	4.6	.	.	.	.
6 INVADER	9	3.38	73.1	35	1.0	107	59	3.3	2.0	5.8	.	.	.	.
7 CM91.614	12	3.04	70.7	28	0.3	76	58	1.6	4.0	4.8	.	.	.	.
8 AC REED	13	2.98	63.9	26	0.3	86	57	6.5	6.0	6.9	.	.	.	.
9 BW.90	2	3.97	74.4	33	1.5	109	57	2.5	3.0	3.8	.	.	.	.
10 GRANDIN	3	3.95	74.9	36	0.3	92	57	3.2	2.0	5.9	.	.	.	.
11 AC MIMI	14	2.35	62.9	24	1.8	106	59	3.9	5.0	7.3	.	.	.	.
12 AC POLLET	10	3.19	71.3	33	3.3	114	60	5.3	6.0	6.1	.	.	.	.
13 MEDORA	1	3.98	72.4	38	1.1	110	59	3.2	3.0	5.2	.	.	.	.
14 DT469	11	3.11	66.9	34	0.9	108	61	4.4	0.0	4.6	.	.	.	.
LOCATIONS		5	6	6	4	6	5	2	1	4	0	0	0	0

\* DAYS FROM PLANTING  
 A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS

## ONTARIO RECOMMENDATION; SPRING COMMON AND DURUM WHEAT 1993

LOCATION - WINTHROP  
MANAGEMENT - NORMAL

KEY NAME	YIELD		TSTW K/HL	KW MG	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA												
1 CELTIC	3	2.50	73.0	32	.	93	55	4.8	0.5	3.5	.	.	1.5	.
2 NORSEMAN	5	2.38	60.0	26	.	85	57	4.3	0.0	4.0	.	.	3.5	.
3 ROBLIN	3	2.50	73.4	33	.	109	52	6.5	4.0	7.0	.	.	2.0	.
4 GUARD	7	2.14	70.2	24	.	92	55	5.3	0.0	6.0	.	.	3.5	.
5 CDC TEAL	6	2.20	71.0	28	.	110	56	3.8	4.0	6.0	.	.	4.0	.
6 INVADER	8	2.11	68.0	25	.	111	56	3.3	2.0	5.5	.	.	2.0	.
7 CM91.614	12	1.18	54.7	13	.	77	56	3.3	4.0	5.0	.	.	8.0	.
8 AC REED	13	0.91	47.6	12	.	91	56	6.0	6.0	8.0	.	.	8.0	.
9 BW.90	2	2.53	72.6	30	.	112	56	3.3	3.0	4.0	.	.	3.5	.
10 GRANDIN	1	2.57	69.2	25	.	97	55	4.0	2.0	6.5	.	.	4.0	.
11 AC MIMI	14	0.48	43.8	9	.	113	56	3.8	5.0	8.5	.	.	6.5	.
12 AC POLLET	11	1.24	62.3	22	.	111	57	5.3	6.0	7.5	.	.	6.5	.
13 MEDORA	9	2.05	68.2	31	.	112	57	3.8	3.0	6.0	.	.	2.5	.
14 DT469	10	1.84	62.0	29	.	112	58	4.5	0.0	5.5	.	.	3.0	.
MEANS		1.90	64.0	24	.	102	56	4.4	2.8	5.9	.	.	4.2	.

LOCATION - ELORA  
MANAGEMENT - NORMAL

KEY NAME	YIELD		TSTW K/HL	KW MG	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA												
1 CELTIC	8	2.52	72.3	34	.	88	56	.	.	7.3	.	.	.	.
2 NORSEMAN	7	2.77	73.0	36	.	75	58	.	.	3.5	.	.	.	.
3 ROBLIN	2	3.44	76.1	39	.	103	53	.	.	3.0	.	.	.	.
4 GUARD	4	3.37	76.1	37	.	89	54	.	.	3.3	.	.	.	.
5 CDC TEAL	1	3.48	75.4	40	.	99	54	.	.	3.0	.	.	.	.
6 INVADER	11	2.17	70.5	35	.	99	58	.	.	5.8	.	.	.	.
7 CM91.614	10	2.43	74.8	34	.	75	57	.	.	2.5	.	.	.	.
8 AC REED	13	2.06	59.2	25	.	85	55	.	.	4.8	.	.	.	.
9 BW.90	5	3.33	76.1	35	.	104	54	.	.	2.0	.	.	.	.
10 GRANDIN	6	3.01	75.4	37	.	93	55	.	.	6.0	.	.	.	.
11 AC MIMI	14	1.28	59.9	23	.	98	58	.	.	6.0	.	.	.	.
12 AC POLLET	12	2.13	72.3	35	.	100	58	.	.	3.3	.	.	.	.
13 MEDORA	3	3.42	73.6	43	.	103	57	.	.	3.8	.	.	.	.
14 DT469	9	2.44	67.4	39	.	104	61	.	.	1.8	.	.	.	.
MEANS		2.70	71.6	35	.	94	56	.	.	4.0	.	.	.	.

LOCATION - HARRISTON  
MANAGEMENT - NORMAL

KEY NAME	YIELD		TSTW K/HL	KW MG	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA												
1 CELTIC	2	4.05	74.2	34	0.0	90	61	3.3	.	2.3	.	.	1.0	.
2 NORSEMAN	6	3.61	70.6	32	0.0	83	63	4.8	.	3.0	.	.	1.0	.
3 ROBLIN	7	3.53	75.6	37	0.3	103	58	4.8	.	4.0	.	.	1.5	.
4 GUARD	9	3.48	72.8	29	0.0	90	59	4.0	.	4.8	.	.	1.0	.
5 CDC TEAL	4	3.88	74.6	33	0.4	100	61	4.5	.	2.0	.	.	1.5	.
6 INVADER	8	3.52	74.0	34	0.4	105	62	3.3	.	2.8	.	.	1.0	.
7 CM91.614	12	2.46	67.2	22	0.0	70	63	0.0	.	2.8	.	.	3.3	.
8 AC REED	13	2.08	60.4	20	0.0	83	61	7.0	.	6.0	.	.	5.3	.
9 BW.90	3	3.89	75.4	33	0.5	113	62	1.8	.	2.3	.	.	1.0	.
10 GRANDIN	5	3.75	75.6	34	0.0	95	60	2.3	.	4.0	.	.	1.0	.
11 AC MIMI	14	1.13	55.2	18	0.0	105	62	4.0	.	6.0	.	.	5.8	.
12 AC POLLET	10	2.77	73.6	33	1.8	113	62	5.3	.	4.5	.	.	2.5	.
13 MEDORA	1	4.22	76.4	42	0.1	113	62	2.5	.	2.3	.	.	1.0	.
14 DT469	11	2.69	65.2	32	0.1	108	65	4.3	.	2.8	.	.	1.0	.
MEANS		3.22	70.8	31	0.3	98	62	3.7	.	3.5	.	.	2.0	.

\* DAYS FROM PLANTING

A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS

## ONTARIO RECOMMENDATION; SPRING COMMON AND DURUM WHEAT 1993

LOCATION - OTTAWA-1  
MANAGEMENT - NORMAL

KEY NAME	YIELD		TSTW K/HL	KW MG	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA												
1 CELTIC	3	5.19	74.0	28	0.0	88	55	.	.	.	.	.	.	.
2 NORSEMAN	8	4.63	79.4	35	0.0	78	58	.	.	.	.	.	.	.
3 ROBLIN	7	4.83	76.3	32	0.0	104	52	.	.	.	.	.	.	.
4 GUARD	6	4.84	78.6	37	0.0	91	54	.	.	.	.	.	.	.
5 CDC TEAL	10	4.51	76.9	32	0.0	103	56	.	.	.	.	.	.	.
6 INVADER	13	4.22	81.4	43	2.0	113	58	.	.	.	.	.	.	.
7 CM91.614	12	4.28	78.2	35	0.0	73	56	.	.	.	.	.	.	.
8 AC REED	9	4.53	79.7	35	0.0	84	55	.	.	.	.	.	.	.
9 BW.90	4	4.93	79.2	30	3.0	114	55	.	.	.	.	.	.	.
10 GRANDIN	1	5.26	79.9	43	0.0	89	55	.	.	.	.	.	.	.
11 AC MIMI	14	4.09	79.1	31	1.0	108	57	.	.	.	.	.	.	.
12 AC POLLET	5	4.91	72.6	28	5.0	123	59	.	.	.	.	.	.	.
13 MEDORA	2	5.25	80.0	41	1.0	115	55	.	.	.	.	.	.	.
14 DT469	11	4.39	79.2	32	0.0	111	61	.	.	.	.	.	.	.
MEANS		4.70	78.2	34	0.9	100	56	.	.	.	.	.	.	.

LOCATION - NEW LISKEARD  
MANAGEMENT - NORMAL

KEY NAME	YIELD		TSTW K/HL	KW MG	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA												
1 CELTIC	13	4.56	74.8	35	1.0	86	.	.	.	.	.	.	.	.
2 NORSEMAN	12	4.71	73.6	33	1.0	72	.	.	.	.	.	.	.	.
3 ROBLIN	4	5.01	71.1	35	1.0	87	.	.	.	.	.	.	.	.
4 GUARD	9	4.83	74.8	32	1.0	77	.	.	.	.	.	.	.	.
5 CDC TEAL	8	4.88	74.8	35	1.0	91	.	.	.	.	.	.	.	.
6 INVADER	7	4.90	73.6	35	1.0	101	.	.	.	.	.	.	.	.
7 CM91.614	9	4.83	77.3	35	1.0	74	.	.	.	.	.	.	.	.
8 AC REED	1	5.30	72.3	31	1.0	79	.	.	.	.	.	.	.	.
9 BW.90	2	5.14	71.1	35	1.0	99	.	.	.	.	.	.	.	.
10 GRANDIN	2	5.14	77.3	38	1.0	85	.	.	.	.	.	.	.	.
11 AC MIMI	11	4.75	76.1	35	2.0	99	.	.	.	.	.	.	.	.
12 AC POLLET	6	4.92	74.8	41	2.0	111	.	.	.	.	.	.	.	.
13 MEDORA	5	4.94	76.4	40	1.0	109	.	.	.	.	.	.	.	.
14 DT469	14	4.17	72.3	40	2.0	107	.	.	.	.	.	.	.	.
MEANS		4.86	74.3	36	1.2	91	.	.	.	.	.	.	.	.

LOCATION - EMO  
MANAGEMENT - NORMAL

KEY NAME	YIELD		TSTW K/HL	KW MG	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
	RK	T/HA												
1 CELTIC	.	.	71.0	36	0.0	90	59	.	.	6.3	.	.	.	.
2 NORSEMAN	.	.	68.0	34	0.0	85	59	.	.	6.0	.	.	.	.
3 ROBLIN	.	.	69.0	36	2.3	104	59	.	.	8.8	.	.	.	.
4 GUARD	.	.	72.0	35	0.0	93	59	.	.	7.5	.	.	.	.
5 CDC TEAL	.	.	73.0	36	0.8	103	59	.	.	7.5	.	.	.	.
6 INVADER	.	.	71.0	35	0.5	110	60	.	.	9.0	.	.	.	.
7 CM91.614	.	.	72.0	31	0.0	85	59	.	.	8.8	.	.	.	.
8 AC REED	.	.	64.0	30	0.0	91	59	.	.	8.8	.	.	.	.
9 BW.90	.	.	72.0	34	1.5	109	59	.	.	6.8	.	.	.	.
10 GRANDIN	.	.	72.0	38	0.0	93	59	.	.	7.0	.	.	.	.
11 AC MIMI	.	.	63.0	29	4.0	110	62	.	.	8.8	.	.	.	.
12 AC POLLET	.	.	72.0	36	4.5	128	62	.	.	9.0	.	.	.	.
13 MEDORA	.	.	60.0	31	2.5	105	62	.	.	8.8	.	.	.	.
14 DT469	.	.	55.0	33	1.5	104	62	.	.	8.3	.	.	.	.
MEANS			68.1	34	1.3	101	60	.	.	8.0	.	.	.	.

\* DAYS FROM PLANTING  
A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS

## ONTARIO RECOMMENDATION; SPRING DURUM WHEAT 1993

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## LEGEND

YLD	- YIELD (T/HA; 1 T/HA = 14.87 BU/AC)
TSTW	- TEST WEIGHT (KG/HL)
KW	- KERNEL WEIGHT (MG)
LOG	- LODGING
HGT	- HEIGHT (CM)
HDT	- HEADING DATE*
MIL	- MILDEW
LRS	- LEAF RUST
SEP	- SEPTORIA
GLB	- GLUME BLOTCH
HBL	- HEAD BLIGHT
SSM	- SPINDLE STREAK MOSAIC VIRUS
BYD	- BARLEY YELLOW DWARF VIRUS
MAT	- MATURITY

A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS  
\* DAYS FROM PLANTING

## DESCRIPTION OF VARIETIES

## MEDORA:

WARD/MACOUN. DEVELOPED AT THE AGRICULTURE CANADA RESEARCH STATION, WINNIPEG. MARKETED BY W.G.THOMPSON & SONS LTD. SUSCEPTIBLE TO MOST PREVALANT DISEASES.

## DT469:

DT411/MEDORA. DEVELOPED AT AGRICULTURE RESEARCH STATION, WINNIPEG BY DR. LEISLE. SPONSORED BY THE UNIVERSITY OF GUELPH. SLIGHTLY LOWER YIELD THAN MEDORA AND HEADS TWO DAYS LATER. SIMILAR DISEASE SCORES TO MEDORA HOWEVER RESISTANT TO LEAF RUST. NOT REGISTERED FOR SALE IN CANADA.

## ONTARIO RECOMMENDATION; SPRING DURUM WHEAT 1993

YEAR(S): 87-93  
 MGMT : NORMAL  
 AREA : 2

KEY NAME	YIELD T/HA	TSTW K/HL	KW MG	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
1 MEDORA	3.16	72.7	38	2.7	100	58	3.7	1.4	3.5	.	3.2	.	6.6
LOCATIONS	18	17	16	6	18	18	14	6	9	0	2	0	2

YEAR(S): 87-93  
 MGMT : NORMAL  
 AREA(S): 2- 5

KEY NAME	YIELD RK T/HA	TSTW K/HL	KW MG	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
1 MEDORA	1 3.50	72.9	39	2.5	101	58	3.7	1.4	4.0	.	3.2	.	6.6
LOCATIONS	23	23	22	11	24	23	14	6	10	0	2	0	2

YEAR(S): 90-93  
 MGMT : NORMAL  
 AREA : 2

KEY NAME	YIELD RK T/HA	TSTW K/HL	KW MG	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
1 MEDORA	1 3.37	72.1	37	2.0	105	57	3.6	2.4	4.0	.	4.7	.	5.7
2 DT469	2 3.22	67.8	36	1.7	104	59	3.9	.6	4.5	.	5.7	.	5.3
LOCATIONS	11	11	11	4	12	11	8	3	7	0	1	0	1

YEAR(S): 90-93  
 MGMT : NORMAL  
 AREA(S): 2- 5

KEY NAME	YIELD RK T/HA	TSTW K/HL	KW MG	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
1 MEDORA	1 3.79	72.6	38	2.2	104	57	3.6	2.4	4.6	.	4.7	.	5.7
2 DT469	2 3.72	68.9	37	1.8	103	59	3.9	.6	4.9	.	5.7	.	5.3
LOCATIONS	16	17	17	9	18	16	8	3	8	0	1	0	1

\* DAYS FROM PLANTING  
 A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS



WESTERN PERFORMANCE; SPRING DURUM WHEAT 1993

LOCATION - ELORA  
 MANAGEMENT - NORMAL

KEY NAME	YIELD RK T/HA	TSTW K/HL	KW MG	LOG 0-9	HGT CM	HDT *	MIL 0-9	LRS 0-9	SEP 0-9	GLB 0-9	HBL 0-9	SRS 0-9	BYD 0-9
1 HERCULES;DT191	4 2.72	72.3	40	1.0	106	56	2.8	.	5.8	.	.	.	.
2 KYLE;DT375	6 1.99	63.6	33	5.0	100	59	2.5	.	2.0	.	.	.	.
3 SCEPTRE;DT380	1 3.02	69.9	39	.8	98	57	2.3	.	6.0	.	.	.	.
4 MEDORA;DT433	2 2.94	74.8	42	2.0	103	56	2.8	.	4.0	.	.	.	.
5 PLENTY;DT606	5 2.34	69.9	35	4.8	100	57	2.8	.	3.0	.	.	.	.
6 DT475	2 2.94	71.1	42	2.3	103	57	2.0	.	2.8	.	.	.	.
MEANS	2.66	70.3	39	2.6	101	57	2.5	.	3.9	.	.	.	.

\* DAYS FROM PLANTING  
 A HIGH SCORE IS UNDESIRABLE IN THE LODGING AND DISEASE RATINGS

TRAIT	MEAN	RDF	VDF	EDF	REPMS	VARMS	ERRMS	REFP	VARF	C.V.
YIELD	265	3	5	13	141	6562	277	.5	23.6	6.3

CO-OPERATORS AND LOCATIONS OF REGIONAL TESTS, 1993

Testing area	Country or District	Co-operators	Crops					
			Barley	Oats	Winter Barley	Winter Wheat	Spring Wheat	
I	Kent	MH = W.G. Thompson and Sons Ltd., Morpeth, Ont.						
	Kent I	RN = Ridgetown C.A.T., Ridgetown, Ont.			X	X		
	Lambton	ID = A. Griffith, R.R. #7, Alvinston, Ont. (Ridgetown C.A.T.)	X	X*				
	Essex	ID = David MacKellar, R.R. #7, Alvinston (Ridgetown C.A.T.)	X			X*		
	Essex	HW = Harrow Research Station, Agriculture Canada						
	Essex	WE = Woodstee Soil Substation, Agriculture Canada				X**		
II	Oxford	WK = Crop Science Department, OAC, Woodstock, Ont.	X	X	X**	X**		
	Huron	WP = W.G. Thompson and Sons Ltd., Winthrop, Ontario	X	X	X**	X	X	X
	Wellington I	EA = Crop Science Department, OAC, Elora, Ont.			X	X	X	X
	Wellington	HN = C & M Seed Sales Inc., Pamerston, Ontario					X	X
	Middlesex I	NN = W.G. Thompson & Sons Ltd., Nairn, Ont.	X	X				
	Middlesex	LN = G. Vanhie, R.R. #8, London, Ont. (Ridgetown C.A.T.)					X	X
	Lennox Addington	BH = L. Seaman, Agriculture Canada, Bath, Ontario					X	X
	Lennox Addington	KE = Kemptville C.A.T., Kemptville, Ont.	X*	X*				
III	Grenville	01 = Agriculture Canada, P.R.C., Ottawa, Ont.	X	X				X
	Carleton I							
IV	Wellington I	Crop Science Dept., OAC, Elora, Ont.	X	X				
	Wellington	C & M Seed Sales Inc., Palmerston, Ont.	X	X				
V	Temiskaming	NL = New Liskeard C.A.T., New Liskeard, Ont.	X	X				X
	Nipissing District	Verner Research Sta., Verner, Ont. (New Liskeard C.A.T.)	X	X				
	Thunder Bay	O.M.A.F., Thunder Bay Experimental Farm, Thunder Bay, Ont.	X	X				
	Rainy River District	EO = O.M.A.F., Emo Research Station, Emo, Ont.	X**	X**				X**
VI	Cochrane	Agriculture Canada, Exp. Farm, Kapuskasing, Ont.	X	X				

\* Plots did not pass inspection and therefore not harvested (no data obtained)

\*\* Yield data not used