

# 2005 Performance Trials for Spring Cereal Crops

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The Ontario Cereal Crop Committee is one of the subcommittees of the Ontario Field Crop Research and Services Committee. These are part of the OASCC (Ontario Agricultural Services Coordinating Committee). These committees are coordinated by OMAFRA with membership from government, research personnel, industry and grower organizations.

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This INFOSheet contains the most recent varietal information on cereals that were planted and harvested in 2004.

This information is provided as a public service, but we cannot guarantee that the information is current or accurate. Readers should verify the information before acting on it.

## Table 1a - 2004 Spring Wheat Performance Trial Cumulative Yield Index<sup>1</sup> Summary

### Area II - West of Frontenac (2,300-2,900 Crop Heat Units) & Area IV

Indexed for each site and then averaged

Index = 100 x (variety yield/site yield)

Cultivar	Class <sup>2</sup>	8-year <sup>3</sup>	4-year	3-year	2-year	1-year
Quantum	hrs-a	111	121	117	120	122
AC Brio <sup>4</sup>	hrs	89	92	97	96	92
Wendell	hrs-a		102	96	93	99
SS Fundy	efs		92	84	81	69
Torka	hrs		86	77	73	66
AC Barrie <sup>4</sup>	hrs			90	89	86
Superb <sup>4</sup>	hrs-a			105	101	98
606	hrs-a			106	104	110
Winfield	hrs-a			97	94	95
Arion	hrs-a			96	93	92
Hoffman	efs-a			122	121	128
Norwell	hrs-a			113	117	119
Sable	hrs-a				120	124
Brookfield	hrs					101
Mean (t/ha)		3.66	3.73	3.55	3.16	2.82
No. of Locations		24	12	9	6	3

<sup>1</sup> Indexed for each site and then averaged. Index = 100 x (variety yield ÷ site yield). Values differing by less than 3 within a column may not represent true differences in yield.

<sup>2</sup> hrs = hard red spring, efs = eastern feed spring, -a = awned

<sup>3</sup> Cultivar yield rankings may vary from year to year. Decisions are therefore best made using data with the greatest

<sup>4</sup> Good samples of these varieties are widely accepted by the milling industry. Some varieties are not accepted by some

**Table 1b - 2004 Spring Wheat Performance Trial Cumulative Yield Index<sup>1</sup> Summary**

**Area III - East of Frontenac (2,500-2,900 Crop Heat Units)**

Indexed for each site and then averaged

Index = 100 x (variety yield/site yield)

<b>Cultivar</b>	<b>Class<sup>2</sup></b>	<b>8-year<sup>3</sup></b>	<b>4-year</b>	<b>3-year</b>	<b>2-year</b>	<b>1-year</b>
<b>Quantum</b>	hrs-a	100	104	107	112	107
<b>AC Brio<sup>4</sup></b>	hrs	100	106	110	113	118
<b>Wendell</b>	hrs-a		97	97	96	105
<b>SS Fundy</b>	efs		96	90	80	72
<b>Torka</b>	hrs		97	94	87	84
<b>AC Barrie<sup>4</sup></b>	hrs			100	105	103
<b>Superb<sup>4</sup></b>	hrs-a			102	102	96
<b>606</b>	hrs-a			96	98	94
<b>Winfield</b>	hrs-a			97	97	107
<b>Arion</b>	hrs-a			87	81	82
<b>Hoffman</b>	efs-a			121	123	129
<b>Norwell</b>	hrs-a			100	101	97
<b>Sable</b>	hrs-a				107	107
<b>Brookfield</b>	hrs					100
<b>Mean (t/ha)</b>		4.17	4.5	4.44	3.79	3.17
<b>No. of Locations</b>		25	14	10	6	3

<sup>1</sup> Indexed for each site and then averaged. Index = 100 x (variety yield ÷ site yield). Values differing by less than 3 within a column may not represent true differences in yield.

<sup>2</sup> hrs = hard red spring, efs = eastern feed spring, -a = awned

<sup>3</sup> Cultivar yield rankings may vary from year to year. Decisions are therefore best made using data with the greatest number of years.

<sup>4</sup> Good samples of these varieties are widely accepted by the milling industry. Some varieties are not accepted by some Wheat Board agents and/or flour mills due to unique quality traits. Consult the OWPMB or the variety sponsor for details.

**Table 1c - 2004 Spring Wheat Performance Trial Cumulative Yield Index<sup>1</sup> Summary**

**Area V & VI - Northern Ontario (less than 2,300 Crop Heat Units)**

Indexed for each site and then averaged

Index = 100 x (variety yield/site yield)

Cultivar	Class <sup>2</sup>	8-year <sup>3</sup>	4-year	3-year	2-year	1-year
Quantum	hrs-a	100	100	100	105	105
AC Brio <sup>4</sup>	hrs	100	99	99	100	104
Wendell	hrs-a		100	100	100	106
SS Fundy	efs		102	100	99	93
Torka	hrs		99	98	94	92
AC Barrie <sup>4</sup>	hrs			90	88	86
Superb <sup>4</sup>	hrs-a			98	94	92
606	hrs-a			99	101	100
Winfield	hrs-a			97	96	100
Arion	hrs-a			90	85	84
Hoffman	efs-a			127	130	120
Norwell	hrs-a			103	108	106
Sable	hrs-a				101	109
Brookfield	hrs					103
Mean (t/ha)		4.52	4.52	4.66	4.63	4.25
No. of Locations		18	12	9	7	3

<sup>1</sup> Indexed for each site and then averaged. Index = 100 x (variety yield ÷ site yield). Values differing by less than 3 within a column may not represent true differences in yield.

<sup>2</sup> hrs = hard red spring, efs = eastern feed spring, -a = awned

<sup>3</sup> Cultivar yield rankings may vary from year to year. Decisions are therefore best made using data with the greatest number of years.

<sup>4</sup> Good samples of these varieties are widely accepted by the milling industry. Some varieties are not accepted by some Wheat Board agents and/or flour mills due to unique quality traits. Consult the OWPMB or the variety sponsor for details.

**Table 2 - 2004 Spring Wheat Varietal Characteristics**

Based on Data From Across Ontario

Cultivar	Class <sup>1</sup>	Test Weight (hl)	1,000 Kernel Weight (g)	Lodging (0-9) <sup>2</sup>	Height (cm)	Heading (Days) <sup>3</sup>	Powdery Mildew (0-9) <sup>2</sup>
Quantum	hrs-a	68.4	49	0.7	90	55	0.6
AC Brio <sup>4</sup>	hrs	68	46	1.1	102	56	5.8
Wendell	hrs-a	66.3	38	1.1	84	59	3.8
SS Fundy	efs	64.5	37	1.2	95	59	2
Torka	hrs	61.6	36	1	95	63	0.2
AC Barrie <sup>4</sup>	hrs	67.6	43	1.2	98	57	5.9
Superb <sup>4</sup>	hrs-a	68	45	1.1	89	56	3.6
606	hrs-a	69.1	40	0.5	82	58	0
Winfield	hrs-a	66.5	39	1.9	85	59	4.1
Arion	hrs-a	65	36	0.5	77	59	0.2
Hoffman	efs-a	70	49	1.9	106	59	1.1
Norwell	hrs-a	68.7	43	1.3	95	56	1
Sable	hrs-a	68.9	44	0.6	85	57	0
Brookfield	hrs	65.7	39	2	105	59	0.2
No. of locations		9	9	4	9	7	2

**Table 2 (continued)**

Cultivar	Class <sup>1</sup>	Leaf Rust (0-9) <sup>2</sup>	Septoria (0-9) <sup>2</sup>	Physiological Maturity <sup>3</sup>	FHBI (0-100) <sup>5</sup> 2 yr. ave. Apr-03	FHBI (0-100) <sup>5</sup> 2004	DON (ppm) <sup>6</sup> 2 yr. ave. 2002-2003
Quantum	hrs-a	5.2	5.8	117	39	53	3.2
AC Brio <sup>4</sup>	hrs	3.8	6.4	117	34	43	4
Wendell	hrs-a	1.8	5	118	34	36	11.3
SS Fundy	efs	7.4	6.6	118	33	38	3.7
Torka	hrs	4.2	4.2	121	17	22	2.5
AC Barrie <sup>4</sup>	hrs	4.8	7.1	116	20	29	2.2
Superb <sup>4</sup>	hrs-a	3.2	7.3	117	27	34	10.7
606	hrs-a	4.4	5.7	121	33	45	4.7
Winfield	hrs-a	1.5	5	118	27	33	2
Arion	hrs-a	2.2	6	119	23	29	7.5
Hoffman	efs-a	2.8	4.8	121	17	20	3.1
Norwell	hrs-a	2.4	6	116	17	29	
Sable	hrs-a	2.8	5.2	120	26	29	
Brookfield	hrs	5.3	6	119		31	
No. of locations		2	2	2	4	2	3

<sup>1</sup> hrs = hard red spring, efs = eastern feed spring, -a = awned

<sup>2</sup> For ratings 0-9, a high score is undesirable.

<sup>3</sup> Days from planting. Heading and Physiological Maturity vary from year to year and should only be used to indicate relative differences.

<sup>4</sup> Good samples of these varieties are widely accepted by the milling industry. Some varieties are not accepted by some Wheat Board agents and/or flour mills due to unique quality traits. Consult the OWPMB or the variety sponsor for details.

<sup>5</sup> % spikelets infected x % heads infected in inoculated, irrigated trials at Ottawa and Nairn

<sup>6</sup> Deoxynivalenol (vomitoxin) in parts per million.

**Table 3a - 2004 Performance Trial Cumulative Yield Index<sup>1</sup> Summary - Barley (Area II & IV)**

Area II: West of Frontenac (2,300 -2,900 Crop Heat Units)

Area IV: Dundalk Plains (<2500 Crop Heat Units)

Cultivar	5-year <sup>2</sup>	4-year	3-year	2-year	2004
<b>2 rowed</b>					
AC Kings	95	96	97	102	100
AC Parkhill	98	98	96	97	102
Formosa	103	104	105	101	98
Danuta	101	102	99	95	88
Sunderland	101	101	100	100	103
Chief			102	100	104
AC Metcalfe				93	95
CDC Stratus				96	99
Newdale				101	103
Creemore (ACS50516)					102
CDC Copeland					89
<b>6 rowed</b>					
AC Alma					
Brucefield	103	102	102	102	102
Chapais	95	94	96	100	105
Grant	94	95	95	96	98
OAC Baxter	100	98	97	101	98
AC Vision	107	106	107	106	105
AC Klinck	98	100	101	103	105
Balance				95	98
Sumosan					
Celebrity (CRB996028)			105	104	107
OAC Staffa (GB966057-1)			106	107	107
Prosper (GB966057-2)			106	105	103
Cyane					
Encore (AB183-5)				91	93
CMB006047				116	117
B1602					
Paida (CFO141AA7)					
Perseis (CFO35AA1)					
Nordbec					
Legacy					73
Altona					108
Mean Yield t/ha	4.27	4.26	3.93	4.08	3.79
No. of Locations	15	12	9	6	3

<sup>1</sup> Values differing by less than 3 within a column may not represent true differences in yield

<sup>2</sup> Cultivar yield ranking may vary from year to year. Decisions are therefore best made using data with the greatest number of years.

**Table 3b - 2004 Performance Trial Cumulative Yield Index<sup>1</sup> Summary - Barley (Area III)**

Area III: East of Frontenac (2500-2900 Crop Heat Units)

Cultivar	5-year <sup>2</sup>	4-year	3-year	2-year	2004
<b>2 rowed</b>					
AC Kings	91	95	96	96	102
AC Parkhill	96	96	94	96	96
Formosa					
Danuta	99	98	93	92	88
Sunderland				96	96
Chief			97	98	93
AC Metcalfe				85	89
CDC Stratus				84	79
Newdale				86	78
Creemore (ACS50516)					91
CDC Copeland					89
<b>6 rowed</b>					
AC Alma	104	104	105	107	107
Brucefield	106	104	106	111	110
Chapais	103	102	105	106	111
Grant	97	96	95	97	97
OAC Baxter	101	101	102	101	104
AC Vision	99	100	99	94	96
AC Klinck	101	101	101	100	102
Balance	107	106	107	109	108
Sumosan		96	97	98	100
Celebrity (CRB996028)			106	105	109
OAC Staffa (GB966057-1)			104	105	105
Prosper (GB966057-2)			105	105	106
Cyane				115	114
Encore (AB183-5)				115	111
CMB006047				105	108
B1602					
Paida (CFO141AA7)				102	100
Perseis (CFO35AA1)				98	100
Nordbec					
Legacy					107
Altona					105
Mean Yield t/ha	5.01	5.28	5.27	5.12	5.24
No. of Locations	9	8	6	4	2

<sup>1</sup> Values differing by less than 3 within a column may not represent true differences in yield

<sup>2</sup> Cultivar yield ranking may vary from year to year. Decisions are therefore best made using data with the greatest number of years.

**Table 3c - 2004 Performance Trial Cumulative Yield Index<sup>1</sup> Summary - Barley (Area V & VI)**

Area V & VI: Northern Ontario (< 2,300 Crop heat units)

Cultivar	5-year <sup>2</sup>	4-year	3-year	2-year	2004
<b>2 rowed</b>					
AC Kings	96	97	94	94	93
AC Parkhill	98	100	100	99	97
Formosa					
Danuta			97	90	96
Sunderland	99	99	97	97	96
Chief			104	95	98
AC Metcalfe				91	94
CDC Stratus				91	92
Newdale				89	78
Creemore (ACS50516)					92
CDC Copeland					91
<b>6 rowed</b>					
AC Alma	100	100	100	103	93
Brucefield	106	107	106	105	110
Chapais	105	104	105	107	106
Grant					105
OAC Baxter	94	95	94	92	91
AC Vision	95	94	94	94	98
AC Klinck	104	103	103	102	102
Balance			109	110	108
Sumosan			106	106	112
Celebrity (CRB996028)			100	105	103
OAC Staffa (GB966057-1)			100	106	110
Prosper (GB966057-2)			99	102	97
Cyane				118	128
Encore (AB183-5)				118	128
CMB006047				109	105
B1602				95	92
Paida (CFO141AA7)				101	104
Perseis (CFO35AA1)				103	107
Nordbec		92	93	96	93
Legacy					108
Altona					117
Mean Yield t/ha	5.27	5.35	5.33	5.42	5.11
No. of Locations	14	12	9	6	3

<sup>1</sup> Values differing by less than 3 within a column may not represent true differences in yield

<sup>2</sup> Cultivar yield ranking may vary from year to year. Decisions are therefore best made using data with the greatest number of years.



**Table 4 - 2004 Varietal Characteristics Based on Data from Areas II & IV - Barley**

Area II: West of Frontenac (2300 - 2900 Crop Heat Units)

Area IV: The Dundalk Plains (<2500 Crop Heat Units)

Cultivar	Test Wt kg/hl	Kernel Wt g/1000	Height cm	Lodging 0-9 <sup>1</sup>	Heading Days <sup>2</sup>	Mildew 0-9 <sup>1</sup>	Leaf Rust 0-9 <sup>1</sup>	Scald 0-9 <sup>1</sup>	Spot Blotch 0-9 <sup>1</sup>	Fusarium 0-9 <sup>1</sup>
<b>2 rowed</b>										
AC Kings	60.9	47.9	105	3.1	53	3	5	7	6	1
AC Parkhill	64.4	46.2	92	3.3	53	1	4	8	6	0
Formosa	60.1	43.3	91	2.9	52	0	2	5	7	1
Danuta	56.8	43.1	89	2.8	55	1	2	8	6	1
Sunderland	63.5	44.8	90	1.8	52	1	3	7	7	1
Chief	57.4	48	103	4.9	53	1	3	7	5	0
AC Metcalfe	59.7	41.7	96	3.4	53	1	3	3	5	0
CDC Stratus	59.1	41.7	87	3.6	54	5	2	4	6	0
Newdale	56.9	39.8	92	2.9	55	2	3	4	3	0
Creemore (ACS50516)	58.3	46.4	85	0.7	54	0	0	6	5	0
CDC Copeland	56.5	38.2	99	4.9	55	5	3	4	6	1
<b>6 rowed</b>										
AC Alma										
Brucefield	56.4	38.4	99	2.5	51	5	0	2	4	2
Chapais	55.6	42.8	93	3.8	49	5	1	5	7	2
Grant	56.5	37.9	108	5.1	51	5	2	2	4	2
OAC Baxter	57.5	40.9	107	2.8	50	4	3	4	5	1
AC Vision	55.3	38.7	88	4.1	51	0	3	1	5	1
AC Klinck	56.1	45.9	111	3.7	51	4	1	4	5	1
Balance	58.3	40.3	104	1.7	51	6	2	8	6	3
Sumosan										
Celebrity (CRB996028)	54.7	45.3	109	3.3	50	5	4	3	6	2
OAC Staffa (GB966057-1)	56.7	39.7	101	2	50	6	1	3	4	3
Prosper (GB966057-2)	56.8	42	101	0.6	50	5	0	3	5	3
Cyane										
Encore (AB183-5)	54.2	37	105	3.6	55	7	1	2	5	1
CMB006047	60.8	44.2	108	2.6	49	0	0	2	3	3
B1602										
Paida (CFO141AA7)										
Perseis (CFO35AA1)										
Nordbec										
Legacy	53.8	32.4	102	5.1	52	8	2	6	6	1
Altona	56.6	44.3	111	4.5	54	5	2	1	5	1
Means	58.1	42	98.9	3	51.8	2.8	2	3.9	5.1	1.3
No. of Locations	4	4	3	3	3	3	1	1	1	1

<sup>1</sup> For ratings of 0-9, a high score is undesirable

<sup>2</sup> Number of days from seeding to heading or maturity

**Table 5- 2004 Varietal Characteristics Based on Data from Area III - Barley**

East of Frontenac (2300 - 2900 Crop Heat Units)

Cultivar	Test Wt kg/hl	Kernel Wt g/1000	Height cm	Lodging 0-9 <sup>1</sup>	Heading days <sup>2</sup>	Maturity days <sup>2</sup>	Net Blotch 0-9 <sup>1</sup>
<b>2 rowed</b>							
AC Kings	69.1	49.4	89	4.4	53	86	5
AC Parkhill	68.1	47.6	80	3.8	57	85	5
Formosa							
Danuta	64.3	45.1	83	3.3	56	88	8
Sunderland	68.2	47	81	4.6	56	85	9
Chief	63.2	52.7	92	5.3	54	86	7
AC Metcalfe	63.9	41	86	6	53	86	6
CDC Stratus	62.7	40.6	81	6	55	87	4
Newdale	62.5	41.3	83	2.5	58	88	6
Creemore (ACS50516)	65.5	48.5	74	1	55	87	7
CDC Copeland	60	39.6	87	4.3	58	87	8
<b>6 rowed</b>							
AC Alma	62.8	43.4	87	2.3	50	86	6
Brucefield	64.7	41.6	87	2.5	50	88	5
Chapais	64	46.2	82	2.2	48	84	7
Grant	65.3	42.9	100	4.6	52	86	5
OAC Baxter	65.9	44.2	90	2.5	51	85	4
AC Vision	61.4	41.5	74	6	50	85	6
AC Klinck	64.2	48.8	94	3.9	51	86	3
Balance	67.3	45.7	90	0.8	50	87	4
Sumosan	65	38.4	94	5.4	52	86	4
Celebrity (CRB996028)	64.3	48.5	92	1.9	49	86	4
OAC Staffa (GB966057-1)	65	41.8	86	1.4	50	85	5
Prosper (GB966057-2)	64	39.9	84	0.8	50	86	6
Cyane	62.6	45.4	104	3.3	54	87	3
Encore (AB183-5)	63.2	44.7	97	1.4	55	88	1
CMB006047	66.9	45.3	96	3.5	50	85	2
B1602							
Paida (CFO141AA7)	61.4	38.3	104	4.3	54	87	3
Perseis (CFO35AA1)	65.5	42.4	96	3.5	53	86	3
Nordbec							
Legacy	63.2	37.7	92	2.6	51	86	3
Altona	62.6	45.5	94	2.7	54	88	3
Means	64.4	44	88.9	3.3	52.7	86.3	4.8
No. of Locations	2	2	2	2	2	1	1

<sup>1</sup> For ratings of 0-9, a high score is undesirable

<sup>2</sup> Number of days from seeding to heading or maturity

**Table 6 - 2004 Varietal Characteristics Based on Data from Areas V & VI - Barley**

Area V & VI - Northern Ontario (<2300 Crop Heat Units)

Cultivar	Test Wt kg/hl	Kernel Wt g/1000	Height cm	Lodging 0-9 <sup>1</sup>	Heading days <sup>2</sup>	Maturity days <sup>2</sup>
<b>2 rowed</b>						
AC Kings	62.3	48.1	92	1.9	62	100
AC Parkhill	64.4	44.6	78	3	64	100
Formosa						
Danuta	59.9	46.4	83	1.3	63	104
Sunderland	64	43.5	80	3.5	63	100
Chief	59.9	44	91	4.3	62	103
AC Metcalfe	60.3	39.3	82	3.7	64	102
CDC Stratus	61.1	42.7	81	2.8	65	102
Newdale	57.4	42	76	1.5	68	106
Creemore (ACS50516)	64.8	46.7	72	1.2	63	100
CDC Copeland	58.6	39.3	83	4	65	103
<b>6 rowed</b>						
AC Alma	55.7	41.2	86	2.3	62	101
Brucefield	59.9	39.1	83	2.5	59	102
Chapais	58.2	42	82	1	61	98
Grant	59.4	41.5	94	4	62	103
OAC Baxter	60.7	41.5	88	2	61	99
AC Vision	59.4	42.1	75	1.3	63	101
AC Klinck	58.6	45.3	94	2.9	61	106
Balance	61.1	42.9	85	1.5	62	102
Sumosan	61.5	38.8	95	4	62	102
Celebrity (CRB996028)	59	44.2	88	2.7	60	99
OAC Staffa (GB966057-1)	59.9	39.5	86	2.5	63	102
Prosper (GB966057-2)	59.9	36.9	83	1.2	61	102
Cyane	61.5	46.1	96	1.5	64	104
Encore (AB183-5)	57	43.3	93	2.2	64	106
CMB006047	61.5	42	87	3.5	61	101
B1602	57.8	34	86	2.7	62	102
Paida (CFO141AA7)	59.5	39.7	98	2.2	64	106
Perseis (CFO35AA1)	60.3	41.9	90	1.9	61	101
Nordbec	58.2	39.5	75	1.5	56	90
Legacy	58.6	37.3	83	1.5	62	105
Altona	58.6	46.5	95	2	63	106
Means	60	42	85.8	2.4	62.1	101.7
No. of Locations	3	3	3	2	2	2

<sup>1</sup> For ratings of 0-9, a high score is undesirable

<sup>2</sup> Number of days from seeding to heading or maturity

**Table 7a - 2004 Trial Cumulative Yield Index<sup>1</sup> Summary - Oats (Area II & IV)**

Area II: West of Frontenac (2,300 - 2,900 Crop Heat Units)

Area IV: The Dundalk Plains (<2,500 Crop Heat Units)

Cultivar	5-yr <sup>2</sup>	4-yr	3-yr	2-yr	2004
AC Aylmer *	98	98	96	96	89
Goslin *	100	101	101	103	103
AC Rigodon	91	93	88	85	85
AC Stewart	92	91	90	88	88
Ida *	97	96	96	94	95
Irish	103	101	101	101	102
OAC Markdale	96	95	94	93	97
Manotick *	107	105	107	108	107
Lafayette (OA1017-1)			104	107	108
Sherwood (OA1019-1)			109	110	109
Prescott (OA1021-1)			109	110	108
Jay (P8640A1-31)				98	97
SW Exactor					118
Fjord					
Triple Crown					
Means t/ha	4.46	4.54	4.35	4.84	5.26
Locations	18	15	12	8	4
Navan <sup>3</sup>	100	100	100	100	100
AC Ernie <sup>3</sup>					
Means t/ha	2.81	2.87	2.55	2.71	3.09

\* Oat cultivar preferred by the Quaker Oats Company of Canada, Ltd.

<sup>1</sup> Values differing by less than 3 within a column may not represent true differences in yield

<sup>2</sup> Cultivar yield ranking may vary from year to year. Decisions are therefore best made using data with the greatest number of years.

<sup>3</sup> Hulless oats

**Table 7b - 2004 Trial Cumulative Yield Index<sup>1</sup> Summary - Oats (Area III)**

Area III: East of Frontenac (2,500-2,900 Crop Heat Units)

Cultivar	5-yr <sup>2</sup>	4-yr	3-yr	2-yr	2004
AC Aylmer *	94	94	90	87	79
Goslin *	101	99	99	101	97
AC Rigodon	98	101	99	95	95
AC Stewart	96	95	94	95	96
Ida *	95	95	93	94	94
Irish	99	99	99	100	101
OAC Markdale					
Manotick *	103	101	103	103	106
Lafayette (OA1017-1)			102	100	90
Sherwood (OA1019-1)			111	113	114
Prescott (OA1021-1)			108	111	114
Jay (P8640A1-31)					
SW Exactor					113
Fjord		98	96	96	101
Triple Crown					
Means t/ha	4.3	4.26	4.12	3.82	3.17
Locations	9	8	6	4	2
Navan <sup>3</sup>	100	100	118	107	106
AC Ernie <sup>3</sup>			82	93	94
Means t/ha	4.3	4.26	4.12	3.82	3.15

\* Oat cultivar preferred by the Quaker Oats Company of Canada, Ltd.

<sup>1</sup> Values differing by less than 3 within a column may not represent true differences in yield

<sup>2</sup> Cultivar yield ranking may vary from year to year. Decisions are therefore best made using data with the greatest number of years.

<sup>3</sup> Hullless oats

**Table 7c - 2004 Trial Cumulative Yield Index<sup>1</sup> Summary - Oats (Area V & VI)**

Area V & VI: Northern Ontario (< 2,300 Crop Heat Units)

Cultivar	5-yr <sup>2</sup>	4-yr	3-yr	2-yr	2004
AC Aylmer *	100	101	101	104	105
Goslin *			101	101	98
AC Rigodon	108	109	109	107	100
AC Stewart	96	96	97	97	94
Ida *			91	92	95
Irish			95	95	98
OAC Markdale					
Manotick *	93	91	90	91	90
Lafayette (OA1017-1)			107	106	104
Sherwood (OA1019-1)			103	103	103
Prescott (OA1021-1)			106	109	114
Jay (P8640A1-31)					
SW Exactor					
Fjord			96	94	94
Triple Crown			104	101	105
Means t/ha	5.21	5.23	5.1	5.2	4.43
Locations	11	9	6	3	2
Navan <sup>3</sup>	100	100	106	97	101
AC Ernie <sup>3</sup>			94	103	99
Means t/ha	3.68	3.7	3.26	3.53	2.93

\* Oat cultivar preferred by the Quaker Oats Company of Canada, Ltd.

<sup>1</sup> Values differing by less than 3 within a column may not represent true differences in yield

<sup>2</sup> Cultivar yield ranking may vary from year to year. Decisions are therefore best made using data with the greatest number of years.

<sup>3</sup> Hulless oats

**Table 8a - 2004 Varietal Characteristics by Area - Oats**

Area II: West of Frontenac (2,300 - 2,900 Crop Heat Units)

Area IV: The Dundalk Plains (<2,500 Crop Heat Units)

Cultivar	Hull Colour	Test Wt Kg/hl	Kernel Wt g/1000	Height cm	Lodging 0-9 <sup>1</sup>	Heading Days <sup>2</sup>	Leaf Rust 0 - 9 <sup>1</sup>	Septoria 0 - 9 <sup>1</sup>
AC Aylmer *	White	46.3	40.3	120	4.9	53	1	5
Goslin *	White	45.1	39.8	112	4.4	54	0	5
AC Rigodon	White	43.2	36.6	124	4.5	62	4	4
AC Stewart	Yellow	41.7	38.6	112	4	55	4	6
Ida *	White	44.8	33.6	119	4.3	57	2	4
Irish	Yellow	43.8	34	120	3.9	58	1	5
OAC Markdale	White	46.8	37.2	128	2.3	59	2	4
Manotick *	Yellow	41.8	40.1	118	4	56	0	5
Lafayette (OA1017-1)	White	47	38.7	132	4	59	0	4
Sherwood (OA1019-1)	White	45.9	42.1	112	2.2	55	0	6
Prescott (OA1021-1)	White	48.2	37.8	114	1.5	54	0	5
Jay (P8640A1-31)	Tan	48.2	34.2	102	0.8	55	0	5
SW Exactor	White	44.6	35.5	128	0.3	65	1	3
Fjord	White							
Triple Crown	White							
Means		45.2	37.6	118.4	3.1	57.1	1.1	4.7
No. of Locations		4	4	2	2	2	2	1
Navan <sup>3</sup>	----	56.7	28.4	125	1	62	3	5
AC Ernie <sup>3</sup>	----							
Means		56.7	28.4	124.5	1	61.6	2.8	5.3

\* Oat cultivar preferred by the Quaker Oats Company of Canada, Ltd

<sup>1</sup> For ratings 0-9, a high score is undesirable

<sup>2</sup> Number of days from planting

<sup>3</sup> Hulless oats

**Table 8b - 2004 Varietal Characteristics by Area - Oats**

Area III: East of Frontenac (2,500-2,900 Crop Heat Units)

Cultivar	Hull Colour	Test Wt Kg/hl	Kernel Wt g/1000	Height cm	Lodging 0-9 <sup>1</sup>	Heading Days <sup>2</sup>	Leaf Rust 0 - 9 <sup>1</sup>
AC Aylmer *	White	52.3	41.7	98	8.3	55	6
Goslin *	White	49.1	41.9	92	3.5	57	1
AC Rigodon	White	52.7	39.9	108	6.8	59	4
AC Stewart	Yellow	48.4	41.3	90	5.3	56	4
Ida *	White	52.1	37.4	98	2.3	58	2
Irish	Yellow	51	38.9	94	2	56	2
OAC Markdale	White						
Manotick *	Yellow	47.2	44	93	3.8	56	1
Lafayette (OA1017-1)	White	53.5	40.5	111	6.5	58	0
Sherwood (OA1019-1)	White	51.1	42.9	92	2.8	56	0
Prescott (OA1021-1)	White	51.9	38.9	96	2.8	55	0
Jay (P8640A1-31)	Tan						
SW Exactor	White	50.5	39.1	104	1.5	61	1
Fjord	White	49.7	42	101	3.8	56	2
Triple Crown	White						
Means		50.8	40.7	98.3	4.1	57	1.8
No. of Locations		2	2	2	1	2	2
Navan <sup>3</sup>	----	58.1	32.8	107	2.3	60	3
AC Ernie <sup>3</sup>	----	59.4	29.4	102	1.5	61	4
Means		58.8	31.1	104.4	1.9	60.3	3.9

\* Oat cultivar preferred by the Quaker Oats Company of Canada, Ltd

<sup>1</sup> For ratings 0-9, a high score is undesirable

<sup>2</sup> Number of days from planting

<sup>3</sup> Hulless oats

**Table 8c - 2004 Varietal Characteristics by Area - Oats**

Area V & VI: Northern Ontario (<2,300 Crop Heat Units)

Cultivar	Hull Colour	Test Wt Kg/hl	Kernel Wt g/1000	Height cm	Lodging 0-9 <sup>1</sup>	Heading Days <sup>2</sup>	Maturity Days <sup>2</sup>
AC Aylmer *	White	46.8	39.6	105	1.9	58	107
Goslin *	White	44.3	36.7	100	1.9	63	113
AC Rigodon	White	47.4	37.4	104	1.8	64	113
AC Stewart	Yellow	44.3	37.7	94	0.8	61	107
Ida *	White	46.8	30.1	101	1.7	64	110
Irish	Yellow	45.5	31.4	93	1.4	64	113
OAC Markdale	White						
Manotick *	Yellow	44.3	35.9	95	1.8	61	107
Lafayette (OA1017-1)	White	46.8	34	115	2	62	109
Sherwood (OA1019-1)	White	44.9	37.4	96	1.5	62	113
Prescott (OA1021-1)	White	47.4	32.4	95	1.3	61	108
Jay (P8640A1-31)	Tan						
SW Exactor	White						
Fjord	White	46.8	33.3	109	1.3	60	109
Triple Crown	White	46.2	35	110	1.3	67	114
Means		45.9	35	101.4	1.5	62.3	110.2
No. of Locations		2	2	2	2	2	2
Navan <sup>3</sup>	----	55.5	34.6	104	1.9	64	114
AC Ernie <sup>3</sup>	----	56.8	27.3	102	0.9	66	114
Means		55.5	34.6	104.4	1.9	64.4	113.5

\* Oat cultivar preferred by the Quaker Oats Company of Canada, Ltd.

<sup>1</sup> For ratings 0-9, a high score is undesirable

<sup>2</sup> Number of days from planting

<sup>3</sup> Hulless oats



**Table 9- Distributors and Breeders of Cereal Varieties**

**Barley**

Variety	Distributor	Breeder
AC Kings	Bramhill Seeds Ltd.	AAFC, Charlottetown
AC Parkhill	SeCan	AAFC-ECORC, Ottawa
AC Metcalfe	SeCan	AAFC, Brandon
CDC Stratus	Hyland Seeds, Div.of Thompson Ltd.	University of Saskatchewan
Newdale	Hyland Seeds, Div. of Thompson Ltd.	AAFC, Brandon
Danuta	Hyland Seeds, Div. of Thompson Ltd.	Thompson Ltd.
Formosa	C&M Seeds	ACS-PZO, Germany
Sunderland	Hyland Seeds, Div. of Thompson Ltd.	Thompson Ltd
AC Alma	Advantage Seed Growers and Processors Inc.	AAFC, Charlottetown
AC Klinck	SeCan	AAFC, Charlottetown
AC Vision	SeCan	AAFC-ECORC, Ottawa
Balance	Hyland Seeds, Div. of Thompson Ltd.	Semico, Quebec
Brucefield	Hyland Seeds, Div. of Thompson Ltd.	Semico, Quebec
Chapais	SeCan	AAFC Ste. Foy
Cyane	La Coop Fédérée	Laval University
Nordbec		AAFC, Ottawa
Grant	Hyland Seeds, Div. of Thompson Ltd.	Thompson Ltd
OAC Baxter	C&M Seeds	omafra/ University of Guelph
Sumosan	La Coop Fédérée	Thompson Ltd.
B1602	Hyland Seeds, Div. of Thompson Ltd.	Busch Agricultural Resources Inc.
Altona	Advantage Seed Growers and Processors Inc.	Semences Prograine Inc.
Paçdia (CFO 141AA7)	La Coop Fédérée	Laval University
Perseis (CFO 35AA1)	La Coop Fédérée	Laval University
Celebrity (CRB 996028)	Cribit Seeds	omafra/University of Guelph
OAC Staffa (GB 966057-1)	PRO Seeds	omafra/University of Guelph
Prosper (GB 966057-2)	PRO Seeds	omafra/University of Guelph
Chief	SeCan	AAFC, Charlottetown
CMB006047	C & M Seeds	omafra/University of Guelph
Creemore (ACS50516)	C & M Seeds	ACS-PZO, Germany
CDC Copeland	SeCan	CDC Saskatchewan
Encore (AB183-5)		AAFC, Charlottetown
Legacy	C&M Seeds	Busch Agricultural Resources Inc.

**Oats**

Variety	Distributor	Breeder
AC Aylmer	Advantage Seed Growers and Processors Inc.	AAFC-ECORC, Ottawa
Goslin	Hyland Seeds, Div. of Thompson Ltd.	AAFC-ECORC, Ottawa
AC Rigodon	SeCan	AAFC Ste. Foy
AC Stewart	SeCan	AAFC-ECORC, Ottawa
Fjord	La Coop Fédérée	McGill University
Ida	Hyland Seeds, Div. of Thompson Ltd.	Michigan State University
Irish	Hyland Seeds, Div. of Thompson Ltd.	Michigan State University
Manotick	SeCan	AAFC, Ottawa
OAC Markdale	PRO Seeds	omafra/University of Guelph
Triple Crown	La Coop Fédérée	Svalöf Weibull
Lafayette (OA1017-1)	William Houde Ltee	AAFC, Ottawa
Sherwood (OA1019-1)	Hyland Seeds, Div. of Thompson Ltd.	AAFC, Ottawa
Prescott (OA1021-1)	C&M Seeds	AAFC, Ottawa
Jay (P8640A1-31)	Belterre	Purdue Univ.,USA
SW Exactor	Bonis & Company Ltd.	Svalof - Weibulls, Sweden
AC Ernie	La Coop Fédérée	AAFC, Ottawa
Navan	SeCan	AAFC, Ottawa

**Table 9- Distributors and Breeders of Cereal Varieties (continued)****Spring Wheat**

<b>Variety</b>	<b>Distributor</b>	<b>Breeder</b>
<b>Quantum</b>	C&M Seeds	ACS-PZO, Germany
<b>AC Brio</b>	C&M Seeds	AAFC Ste. Foy
<b>Wendell</b>	Hyland Seeds, Div. of Thompson Ltd.	Agripro, Colorado
<b>SS Fundy</b>	La Coop Fédérée	
<b>Torka</b>	La Coop Fédérée	
<b>AC Barrie</b>	SeCan	AAFC, Swift Current
<b>Superb</b>	Secan	AAFC, Winnipeg
<b>606</b>	C & M Seeds	ACS-PZO, Germany
<b>Winfield (W94194)</b>	Hyland Seeds, div. of Thompson Ltd.	CDC, Saskatchewan
<b>Arion (CFB 97626)</b>	La Coop Fédérée	
<b>Hoffman (QW628:5)</b>	Hyland Seeds, div. of Thompson Ltd.	AAFC Ste. Foy
<b>B 89.12.51.1248</b>	C&M Seeds	AAFC Ste. Foy
<b>Sable (CM 2032)</b>	C&M Seeds	ACS-PZO, Germany
<b>Brookfield (AW466)</b>	C&M Seeds	AAFC, Charlottetown