

# 2010 Performance Trials for Spring Cereal Crops

Agriculture Development Branch

prepared by the Ontario Cereal Crop Committee

## Infosheet

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This infosheet contains the most recent varietal information on spring cereals that were planted and harvested in 2009.

Additional information on these trials is available at [www.gocereals.ca](http://www.gocereals.ca)

### References:

OMAFRA Publication 811, Agronomy Guide for Field Crops

OMAFRA Publication 812, Field Crop Protection Guide

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**Table 1 – 2009 Spring Wheat Performance Trial Cumulative Yield Index<sup>1</sup> Summary**

Cultivar	Class <sup>2</sup>	Area II: West of Frontenac (2,300 - 2,900 Crop Heat Units)					Area III: East of Frontenac (2,500-2,900 Crop Heat Units)					Area V & VI: Northern Ontario (< 2,300 Crop Heat Units)				
		5 yr <sup>3</sup>	4 yr	3 yr	2 yr	2009	5 yr <sup>3</sup>	4 yr	3 yr	2 yr	2009	5 yr <sup>3</sup>	4 yr	3 yr	2 yr	2009
AC Brio	HRS						99	100	101	98	108	95	97	100	103	108
Superb	HRS-a	91	94	93	95	100										
Norwell	HRS-a	98	100	100	104	107	96	99	101	100	106	101	102	103	103	94
Sable	HRS-a	105	109	112	118	125	95	97	100	102	109	98	99	104	103	104
Hobson	HRS	94	96	95	96	97	95	95	96	93	89	98	100	104	105	105
Orleans	HRS						97	98	99	98	107	94	94	98	98	103
Propel	HRS		96	97	97	93		98	101	101	99		97	101	103	102
Megantic	HRS-a							97	101	101	102		98	103	102	103
Kane	HRS			94	92	94			94	93	91			89	89	87
HY 124-HRS	HRS			110	116	117			101	103	103			96	94	102
Waskada	HRS				94	99				98	92				96	92
Helios	HRS				90	90				100	105				100	104
Glenn	HRS				102	104				91	79				94	92
Fieldstar VB	HRS					81					99					96
Unity VB	HRS					80					90					90
Hoffman	EFS-a	112	115	117	117	121	118	118	123	124	122	114	113	119	115	114
Batiscan	EFS-a									119	120				111	115
Hallmark	SD		90	90	91	99										
Snowstar	HWS			91	89	92			84	79	80			84	83	89
<b>Means (t/ha)</b>		<b>3.60</b>	<b>3.61</b>	<b>3.61</b>	<b>3.46</b>	<b>3.19</b>	<b>3.51</b>	<b>3.53</b>	<b>3.14</b>	<b>2.71</b>	<b>2.89</b>	<b>3.68</b>	<b>3.59</b>	<b>3.68</b>	<b>3.83</b>	<b>3.97</b>
<b>Locations</b>		<b>17</b>	<b>14</b>	<b>11</b>	<b>8</b>	<b>4</b>	<b>18</b>	<b>15</b>	<b>11</b>	<b>7</b>	<b>3</b>	<b>16</b>	<b>14</b>	<b>10</b>	<b>8</b>	<b>4</b>

<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, SD = spring durum, HWS = hard white spring, -a = awned.

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

**Table 2a – Ontario Spring Wheat Varietal Characteristics Based on Data from Areas II & IV, 2009, OCCC, November 2009**

Cultivar	Class <sup>1</sup>	Test Weight (kg/hL)	Protein (%)	Thousand Kernel Weight (g)	Lodging (0-9) <sup>2</sup>	Height (cm)	Heading <sup>3</sup> (days)	Mildew (0-9) <sup>2</sup>	Leaf Rust (0-9) <sup>2</sup>	Leaf Septoria (0-9) <sup>2</sup>	Septoria Glume Blotch (0-9) <sup>2</sup>	Barley Yellow Dwarf Virus (0-9) <sup>2</sup>	Stem Rust (0-9) <sup>2</sup>	**Fusarium Rating <sup>4</sup>	**Years (fusarium Data)
Superb	HRS-a	76.2	13.5	42.1	0.1	101	56	4.6	1.8	3.4	2.9	3.2	2.0	HS	6
Norwell	HRS-a	78.4	14.0	37.7	0.3	107	56	2.0	0.5	2.8	3.5	2.4	1.5	MR	6
Sable	HRS-a	76.9	14.2	40.7	0.0	94	58	0.6	0.5	3.0	2.3	1.4	1.8	MS	5
Hobson	HRS	74.2	13.7	39.7	0.1	99	56	3.9	0.0	3.0	3.7	3.5	3.0	HS	5
Propel	HRS	76.4	13.2	36.7	2.8	106	54	4.7	0.5	2.8	3.6	3.7	2.5	MS	2
Kane	HRS	77.1	13.3	37.1	1.0	104	56	3.3	0.0	2.7	3.2	3.4	2.0	MR	1
HY 124-HRS	HRS	76.0	14.1	47.8	0.5	96	60	1.2	0.5	0.7	1.8	1.4	1.8	HS	1
Waskada	HRS	78.2	13.5	39.8	1.2	115	56	4.4	0.0	3.0	2.3	3.6	1.8		
Helios	HRS	76.3	14.5	38.2	2.3	109	55	5.9	0.8	4.1	4.4	3.5	2.5		
Glenn	HRS	79.0	14.3	37.9	0.0	103	55	4.6	0.3	1.5	2.2	2.3	2.5		
Fieldstar VB	HRS	76.4	14.3	34.1	1.7	113	56	6.1	0.0	3.0	3.0	3.7	1.5		
Unity VB	HRS	77.1	13.7	37.3	2.3	111	56	6.0	0.0	2.8	2.9	3.3	2.3		
Hoffman	EFS-a	77.2	11.9	46.9	2.0	121	60	1.0	1.0	1.9	2.7	2.1	2.0	MR	6
Hallmark	SD	76.0	12.6	41.6	0.0	80	59	3.1	0.0	2.7	1.2	1.1	1.0	HS	2
Snowstar	HWS	71.4	12.3	31.3	0.1	98	55	6.8	0.3	2.7	4.1	3.9	2.5	S	1
<b>Means</b>		<b>76.4</b>	<b>13.5</b>	<b>39.2</b>	<b>1.0</b>	<b>104</b>	<b>56</b>	<b>3.9</b>	<b>0.4</b>	<b>2.7</b>	<b>2.9</b>	<b>2.8</b>	<b>2.0</b>		
<b>Locations</b>		<b>4</b>	<b>2</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>1</b>		

<sup>1</sup> HRS = hard red spring, EFS = eastern feed spring, SD = spring durum, HWS = hard white 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> Fusarium ratings are based on Fusarium head blight ratings and deoxynivalenol (DON) levels from inoculated provincial trials.

MR=moderately resistant (best); MS=moderately susceptible; S=susceptible; HS=highly susceptible (worst).

\*\* These columns will be updated when the 2009 data are available. Check [www.qocereals.ca](http://www.qocereals.ca) for updates.

**Table 2b – Ontario Spring Wheat Varietal Characteristics Based on Data from Area III, 2009, OCCC, November 2009**

Cultivar	Class <sup>1</sup>	Test Weight (kg/hL)	Protein (%)	Thousand Kernel Weight (g)	Lodging (0-9) <sup>2</sup>	Height (cm)	Heading <sup>3</sup> (days)	Leaf Septoria (0-9) <sup>2</sup>	Septoria Glume Blotch (0-9) <sup>2</sup>	Barley Yellow Dwarf Virus (0-9) <sup>2</sup>	Head Blight (%)	Straw Yield Index	**Fusarium Rating <sup>4</sup>	**Years (fusarium Data)
AC Brio	HRS	74.9	13.3	36.8	1.5	96	54	5.1	2.3	0.9	3.6	88	S	6
Norwell	HRS-a	77.1	13.9	32.3	2.3	94	51	4.1	1.3	0.3	3.0	108	MR	6
Sable	HRS-a	75.9	14.3	34.0	1.0	82	54	3.0	2.9	0.0	5.6	130	MS	5
Hobson	HRS	73.3	14.8	35.9	2.3	86	51	6.5	1.4	0.1	5.4	92	HS	5
Orleans	HRS	74.8	13.3	35.6	1.8	96	54	4.4	1.8	0.1	2.8	82	MS	3
Propel	HRS	74.4	13.9	31.4	2.5	97	50	4.1	1.6	0.3	5.0	103	MS	2
Megantic	HRS-a	78.3	12.9	37.6	6.3	107	52	3.9	1.0	0.1	3.4	84	MS	2
Kane	HRS	76.5	13.9	31.4	3.0	92	52	4.9	2.5	0.1	4.4	86	MR	1
HY 124-HRS	HRS	74.6	14.2	39.8	1.8	84	54	2.0	1.5	0.3	4.4	163	HS	1
Waskada	HRS	76.8	14.4	32.6	5.3	101	52	4.1	1.3	0.0	3.8	101		
Helios	HRS	74.8	14.3	34.3	4.0	96	51	4.4	1.9	0.6	3.0	76		
Glenn	HRS	78.4	14.1	29.5	1.0	88	50	4.6	2.0	0.3	4.0	106		
Fieldstar VB	HRS	76.2	14.7	29.8	3.0	102	51	4.6	1.0	1.1	4.6	75		
Unity VB	HRS	76.8	14.0	31.6	2.5	98	52	3.9	1.1	0.5	4.1	86		
Hoffman	EFS-a	76.7	11.1	43.3	2.0	108	56	2.1	0.6	0.3	1.9	123	MR	6
Batiscan	EFS-a	77.8	12.2	45.0	3.8	110	54	3.5	0.3	1.4	3.9	114		
Snowstar	HWS	77.0	13.1	27.4	1.3	88	52	4.0	1.9	0.0	2.9	81	S	1
<b>Means</b>		<b>76.1</b>	<b>13.7</b>	<b>34.6</b>	<b>2.7</b>	<b>95</b>	<b>52</b>	<b>4.1</b>	<b>1.5</b>	<b>0.4</b>	<b>3.9</b>	<b>7.50 (t/ha)</b>		
<b>Locations</b>		<b>3</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>		

<sup>1</sup> HRS = hard red spring, EFS = eastern feed spring, SD = spring durum, HWS = hard white 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> Fusarium ratings are based on Fusarium head blight ratings and deoxynivalenol (DON) levels from inoculated provincial trials.

MR=moderately resistant (best); MS=moderately susceptible; S=susceptible; HS=highly susceptible (worst).

\*\* These columns will be updated when the 2009 data are available. Check [www.qocereals.ca](http://www.qocereals.ca) for updates.

**Table 2c - Ontario Spring Wheat Varietal Characteristics Based on Data from Area V & VI, 2009, OCCC, November 2009**

Cultivar	Class <sup>1</sup>	Test Weight (kg/hL)	Thousand Kernel Weight (g)	Lodging (0-9) <sup>2</sup>	Height (cm)	Heading <sup>3</sup> (days)	Maturity <sup>3</sup> (days)	Leaf Septoria (0-9) <sup>2</sup>	Barley Yellow Dwarf Virus (0-9) <sup>2</sup>	Head Blight (%)	Straw Yield Index	**Fusarium Rating <sup>4</sup>	**Years (fusarium Data)
AC Brio	HRS	74.9	42.8	1.3	98	62	115	2.5	1.0	2.5	103	S	6
Norwell	HRS-a	77.8	37.7	0.0	88	58	114	2.2	4.3	2.0	98	MR	6
Sable	HRS-a	76.1	40.3	0.0	84	60	118	1.7	1.0	2.0	113	MS	5
Hobson	HRS	75.0	42.9	0.0	85	59	114	1.9	1.0	2.0	75	HS	5
Orleans	HRS	75.0	43.4	1.5	96	60	114	1.9	1.0	2.8	92	MS	3
Propel	HRS	75.7	38.7	0.0	93	58	113	2.3	1.0	2.5	101	MS	2
Megantic	HRS-a	77.4	43.8	0.3	102	61	112	1.6	1.0	2.0	95	MS	2
Kane	HRS	75.8	38.1	0.3	91	59	114	2.6	1.3	2.3	99	MR	1
HY 124-HRS	HRS	74.8	46.7	0.3	88	62	116	1.3	1.0	1.5	128	HS	1
Waskada	HRS	76.1	39.8	4.0	96	60	114	3.4	1.3	1.3	90		
Helios	HRS	75.2	40.2	0.3	90	58	114	2.2	0.8	0.8	85		
Glenn	HRS	76.8	37.5	0.0	86	58	114	2.3	1.0	2.5	88		
Fieldstar VB	HRS	74.9	40.2	0.5	95	59	113	2.2	1.3	3.0	92		
Unity VB	HRS	75.2	38.9	0.5	92	59	112	2.2	1.3	1.5	108		
Hoffman	EFS-a	76.3	46.4	2.8	100	63	117	2.7	1.0	0.8	131	MR	6
Batiscan	EFS-a	77.2	49.8	2.8	101	62	116	1.9	1.0	2.0	110		
Snowstar	HWS	74.7	35.8	0.5	87	59	113	2.3	1.5	1.8	90	S	1
<b>Means</b>		<b>75.8</b>	<b>41.3</b>	<b>0.9</b>	<b>92</b>	<b>60</b>	<b>114</b>	<b>2.2</b>	<b>1.3</b>	<b>2</b>	<b>5.92 (t/ha)</b>		
<b>Locations</b>		<b>4</b>	<b>4</b>	<b>1</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>2</b>		

<sup>1</sup> HRS = hard red spring, EFS = eastern feed spring, SD = spring durum, HWS = hard white 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> Fusarium ratings are based on Fusarium head blight ratings and deoxynivalenol (DON) levels from inoculated provincial trials.

MR=moderately resistant (best); MS=moderately susceptible; S=susceptible; HS=highly susceptible (worst).

\* These columns will be updated when the 2009 data are available. Check [www.gocereals.ca](http://www.gocereals.ca) for updates.

**Table 3 – 2009 Spring Barley Performance Trial Cumulative Yield Index<sup>1</sup> Summary**

Cultivar	Area II: West of Frontenac (2,300 - 2,900 Crop Heat Units)					Area III: East of Frontenac (2,500-2,900 Crop Heat Units)					Area V & VI: Northern Ontario (< 2,300 Crop Heat Units)				
	5 yr <sup>2</sup>	4 yr	3 yr	2 yr	2009	5 yr <sup>2</sup>	4 yr	3 yr	2 yr	2009	5 yr <sup>2</sup>	4 yr	3 yr	2 yr	2009
<b>2 Rowed</b>															
AC Kings	96	96	97	97	96										
Formosa	95	94	93	91	88										
Chief	97	95	96	89	93	94	94	92	89	96					
Bornholm	97	96	96	94	96	96	97	98	96	98	99	100	101	100	102
Leader					91										100
<b>6 Rowed</b>															
AC Alma											97	97	98	98	102
AC Klinck						102	101	103	107	103					
Brucefield	102	102	105	105	110	98	98	99	101	103	100	99	100	98	103
OAC Staffa	99	100	101	100	103				96	97				100	102
Encore						107	105	105	102	98	105	105	104	105	105
OAC Cobourg	99	98	95	92	91										
OAC Chesley	98	98	97	97	100	97	96	97	99	98					
OAC Kawartha	110	108	107	105	108	100	100	99	98	97					
Cyane	102	102	104	102	99	99	99	100	97	96	108	107	106	106	96
OAC Ripley	103	103	99	100	104						92	91	88	89	90
Dignity	105	104	101	99	98										
HY 481-6R		106	108	108	110	102	100	100	102	98	101	101	101	101	101
Corcy						101	101	101	100	96					
Yielder	98	99	100	100	101	101	100	100	97	91	97	96	95	94	91
Synabelle						103	104	106	107	103			104	102	100
Oceanik							108	108	107	115		104	106	108	109
Sedna							96	96	92	101					
OAC Laverne		100	97	97	91				105	100					
Harmony								95	89	90			91	90	85
Synasolis								104	104	111			107	108	112
Raquel								99	100	105					
Amberly			103	98	98			98	95	96				98	102
HY 101-6R				120	120				113	108				101	99
Alliance				105	101				103	97				101	100
<b>Means (t/ha)</b>	<b>4.59</b>	<b>4.78</b>	<b>4.69</b>	<b>4.65</b>	<b>4.39</b>	<b>4.20</b>	<b>4.16</b>	<b>4.19</b>	<b>3.89</b>	<b>4.25</b>	<b>4.34</b>	<b>4.27</b>	<b>4.35</b>	<b>4.36</b>	<b>4.47</b>
<b>Locations</b>	<b>19</b>	<b>15</b>	<b>11</b>	<b>8</b>	<b>4</b>	<b>12</b>	<b>10</b>	<b>8</b>	<b>6</b>	<b>3</b>	<b>13</b>	<b>11</b>	<b>9</b>	<b>7</b>	<b>4</b>

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

**Table 4a – Ontario Spring Barley Varietal Characteristics Based on Data from Area II & IV, 2009, OCCC, November 2009**

Cultivar	Class <sup>1</sup>	Test Weight (kg/hL)	Thousand Kernel Weight (g)	Height (cm)	Lodging (0-9) <sup>2</sup>	Straw Break (0-9) <sup>2</sup>	Heading <sup>3</sup> (days)	Mildew (0-9) <sup>2</sup>	Scald (0-9) <sup>2</sup>	Net Blotch (0-9) <sup>2</sup>	Barley Yellow Dwarf Virus (0-9) <sup>2</sup>	Spot Blotch (0-9) <sup>2</sup>
AC Kings	2R	63.4	52.0	104	5.2	0.5	58	0.3	1.5	1.0	0.9	2.8
Formosa	2R	62.9	48.3	81	4.2	1.0	57	0.0	1.5	2.0	1.6	3.3
Chief	2R	60.1	52.9	93	3.5	0.1	59	0.0	3.5	4.0	1.3	3.0
Bornholm	2R	65.3	48.2	81	1.4	0.1	58	0.7	2.0	0.0	2.1	3.3
Leader	2R	63.9	53.3	94	4.3	0.0	56	2.7	1.0	0.0	1.7	2.9
Brucefield	6R	58.4	43.6	94	2.6	1.3	55	4.3	1.5	2.0	2.3	2.3
OAC Staffa	6R	59.8	42.7	95	2.9	1.4	56	1.8	1.0	2.0	2.5	2.4
OAC Cobourg	6R	60.4	45.4	97	2.0	0.0	56	0.0	0.5	3.0	3.5	2.6
OAC Chesley	6R	62.6	47.4	100	4.2	0.0	55	0.0	0.0	1.0	1.7	1.8
OAC Kawartha	6R	56.3	48.4	97	2.3	0.9	55	0.0	2.0	4.0	2.5	5.0
Cyane	6R	58.9	46.6	106	3.5	0.0	58	3.8	0.5	1.0	2.0	1.8
OAC Ripley	6R	61.0	44.4	91	2.2	0.0	56	0.0	1.0	1.0	2.3	2.9
Dignity	6R	59.4	46.3	95	2.4	0.0	57	0.0	3.0	3.0	1.7	2.5
HY 481-6R	6R	57.9	44.2	92	3.5	0.1	55	0.3	2.0	3.0	1.5	2.3
Yielder	6R	58.0	45.6	105	3.1	0.0	59	3.5	0.5	1.0	2.2	1.3
OAC Laverne	6R	62.6	43.6	103	5.1	0.3	55	0.0	0.5	2.0	1.9	2.9
Amberly	6R	59.5	49.2	107	4.5	0.1	59	0.3	0.5	2.0	0.8	1.8
HY 101-6R	6R	57.8	49.3	80	1.9	0.4	55	0.0	2.0	2.0	2.1	3.4
Alliance	6R	59.6	42.7	95	0.8	0.1	56	0.0	2.0	6.0	2	2.1
<b>Means</b>		<b>60.4</b>	<b>47.0</b>	<b>95</b>	<b>3.1</b>	<b>0.3</b>	<b>57</b>	<b>0.9</b>	<b>1.4</b>	<b>2.4</b>	<b>1.9</b>	<b>2.7</b>
<b>Locations</b>		<b>4</b>	<b>4</b>	<b>4</b>	<b>2</b>	<b>1</b>	<b>4</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1</b>

<sup>1</sup> 2R = 2 Row, 6R = 6 Row.

<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.

**Table 4b – Ontario Spring Barley Varietal Characteristics Based on Data from Area III, 2009, OCCC, November 2009**

Cultivar	Class <sup>1</sup>	Test Weight (kg/hL)	Thousand Kernel Weight (g)	Height (cm)	Lodging (0-9) <sup>2</sup>	Heading <sup>3</sup> (days)	Maturity <sup>3</sup> (days)	Mildew (0-9) <sup>2</sup>	Leaf Rust (0-9) <sup>2</sup>	Spot Blotch (0-9) <sup>2</sup>	Straw Yield Index	Fusarium Incidence (%)
Chief	2R	65.3	52.6	98	8.0	58	89	0.0	0.0	2.5	91	20.5
Bornholm	2R	69.5	46.7	79	3.3	56	89	0.0	0.0	3.5	79	29.4
AC Klinck	6R	64.3	50.1	96	2.8	55	90	0.5	0.0	1.0	109	42.3
Brucefield	6R	64.1	43.2	85	3.5	54	89	0.5	0.5	1.3	79	53.6
OAC Staffa	6R	64.4	39.1	87	2.7	53	89	0.0	0.0	1.7	104	64.9
Encore	6R	60.8	41.6	96	3.3	59	92	1.8	0.0	4.8	95	47.5
OAC Chesley	6R	67.9	46.3	93	2.3	53	88	0.0	0.0	0.8	94	41.6
OAC Kawartha	6R	62.3	46.0	90	1.8	54	90	0.0	0.0	1.5	112	69.8
Cyane	6R	63.4	45.0	101	1.8	59	88	0.0	0.0	0.5	110	51.7
HY 481-6R	6R	64.2	41.4	81	3.5	54	89	0.0	0.3	1.8	75	53.9
Corcy	6R	64.3	47.0	99	4.5	55	89	2.0	1.5	1.8	80	47.2
Yielder	6R	61.7	44.9	105	1.0	59	89	2.8	0.0	1.0	168	76.8
Synabelle	6R	63.3	50.2	98	5.0	56	88	1.3	0.3	1.5	70	47.8
Oceanik	6R	63.7	47.6	94	2.8	57	88	0.0	0.8	1.3	100	33.1
Sedna	6R	63.5	43.7	97	3.5	59	88	0.0	1.5	0.8	81	37.2
OAC Laverne	6R	66.3	43.9	93	1.0	54	87	0.0	0.0	1.5	125	36.6
Harmony	6R	62.7	44.9	108	1.3	59	91	0.0	0.8	1.3	143	76.1
Synasolis	6R	63.4	41.9	86	2.5	62	91	4.0	0.0	1.3	79	52.6
Raquel	6R	67.7	46.5	97	3.8	56	88	0.8	0.0	1.0	87	37.7
Amberly	6R	64.1	47.8	100	1.8	60	93	1.0	0.8	1.3	103	59.5
HY 101-6R	6R	64.9	46.0	72	1.5	55	91	0.0	0.0	1.0	93	51.2
Alliance	6R	64.1	42.1	85	1.0	57	89	0.0	0.0	1.0	123	43.7
<b>Means</b>		<b>64.4</b>	<b>45.4</b>	<b>93</b>	<b>2.8</b>	<b>56</b>	<b>89</b>	<b>0.7</b>	<b>0.3</b>	<b>1.5</b>	<b>6.00</b>	<b>48.8</b>
<b>Locations</b>		<b>3</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>

<sup>1</sup> 2R = 2 Row, 6R = 6 Row.

<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.



**Table 4c – Ontario Spring Barley Varietal Characteristics Based on Data from Area V & VI, 2009, OCCC, November 2009**

Cultivar	Class <sup>1</sup>	Test Weight (kg/hL)	Thousand Kernel Weight (g)	Height (cm)	Lodging (0-9) <sup>2</sup>	Heading <sup>3</sup> (days)	Maturity <sup>3</sup> (days)	Spot Blotch (0-9) <sup>2</sup>	Straw Yield Index
Bornholm	2R	63.1	46.6	68	2.8	62	103	0.0	95
Leader	2R	63.6	52.3	75	3.3	62	104	0.3	112
AC Alma	6R	57.3	46.3	70	3.3	62	105	0.5	81
Brucefield	6R	58.3	43.4	74	2.5	62	106	0.5	75
OAC Staffa	6R	59.0	42.8	71	2.5	62	105	0.8	103
Encore	6R	56.5	45.3	77	1.0	64	108	0.5	138
Cyane	6R	59.3	47.0	82	4.0	63	106	0.0	100
OAC Ripley	6R	58.1	43.8	69	1.3	63	108	1.3	87
HY 481-6R	6R	58.7	42.8	69	3.3	60	104	0.0	79
Yielder	6R	58.0	46.4	81	2.5	65	108	0.0	125
Synabelle	6R	58.2	49.2	80	2.3	64	107	0.8	95
Oceanik	6R	59.4	47.1	81	1.5	63	109	0.0	90
Harmony	6R	59.2	47.2	81	2.3	64	108	0.0	123
Synasolis	6R	59.1	44.7	71	3.5	66	110	0.3	103
Amberly	6R	60.3	49.0	78	3.3	64	110	0.0	106
HY 101-6R	6R	57.4	48.3	62	0.3	62	106	0.3	88
Alliance	6R	59.3	43.4	71	0.0	62	106	0.3	101
<b>Means</b>		<b>59.1</b>	<b>46.2</b>	<b>74</b>	<b>2.3</b>	<b>63</b>	<b>107</b>	<b>0.3</b>	<b>5.21 (t/ha)</b>
<b>Locations</b>		<b>4</b>	<b>4</b>	<b>4</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>2</b>

<sup>1</sup> 2R = 2 Row, 6R = 6 Row.

<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.

**Table 5 – 2009 Oat Performance Trial Cumulative Yield Index<sup>1</sup> Summary**

Cultivar	Area II: West of Frontenac (2,300 - 2,900 Crop Heat Units) Area IV: The Dundalk Plains (<2,500 Crop Heat Units)					Area III: East of Frontenac (2,500-2,900 Crop Heat Units)					Area V & VI: Northern Ontario (< 2,300 Crop Heat Units)				
	5 yr <sup>2</sup>	4 yr	3 yr	2 yr <sup>3</sup>	2009 <sup>3</sup>	5 yr <sup>2</sup>	4 yr	3 yr	2 yr <sup>3</sup>	2009 <sup>3</sup>	5 yr <sup>2</sup>	4 yr	3 yr	2 yr <sup>3</sup>	2009 <sup>3</sup>
AC Rigodon											103	105	108	108	103
Manotick	100	100	100	100	104	97	103	105	109	108					
OAC Markdale	94	95	99	98	98										
Alcyon	95	94	94	94	92						95	96	94	96	96
Sherwood	105	105	99	96	94	97	99	96	90	94	101	101	101	100	104
Prescott	99	100	92	93	96	98	100	92	85	82	99	98	99	99	98
Lois	101	100	101	98	100						100	100	100	100	96
Lachute	100	100	100	102	95	103	104	102	101	107	102	101	104	105	102
Robust	105	106	106	108	107	106	109	109	114	108	92	89	91	90	96
Bia											107	106	109	108	115
Dancer						98	101	106	108	101				94	94
Canmore							84	92	94	98		104	105	101	102
RC Amaze			109	111	110			112	120	108			93	94	92
Synextra								86	80	80			97	97	96
Dieter									99	103				107	111
Bailey					105					111					96
<b>Means (t/ha)</b>	4.07	4.22	3.96	3.98	4.00	4.26	4.05	4.19	3.68	4.49	3.96	3.99	4.17	4.17	3.55
<b>Hulless</b>															
Navaro								100	100	100			100	100	100
<b>Means (t/ha)</b>								<b>3.57</b>	<b>3.54</b>	<b>3.98</b>			<b>2.80</b>	<b>2.79</b>	<b>2.52</b>
<b>Locations</b>	<b>19</b>	<b>15</b>	<b>11</b>	<b>8</b>	<b>4</b>	<b>10</b>	<b>8</b>	<b>6</b>	<b>4</b>	<b>2</b>	<b>17</b>	<b>13</b>	<b>9</b>	<b>7</b>	<b>4</b>

<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> 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> Rust races have overcome genetic resistance in the past 2 years, with some varieties being significantly impacted.

**TABLE 6a – Ontario Oat Varietal Characteristics Based on Data from Area II & IV, 2009, OCCC, November 2009**

Cultivar	Class <sup>1</sup>	Test Weight (kg/hL)	Thousand Kernel Weight (g)	Heading <sup>3</sup> (days)	Height (cm)	Lodging (0-9) <sup>2</sup>	Stem Rust (0-9) <sup>2</sup>	Crown Rust (0-9) <sup>2</sup>	Barley Yellow Dwarf Virus (0-9) <sup>2</sup>	Leaf Septoria (0-9) <sup>2</sup>	Stem Break (0-9) <sup>2</sup>
Manotick	yellow	47.1	39.2	56	112	1.6	2.4	3.9	2.6	6.3	0.9
OAC Markdale	white	50.2	34.7	58	121	1.8	2.7	2.6	2.8	5.5	0.4
Alcyon	white	48.2	34.5	57	125	5.0	2.7	3.3	3.5	5.3	1.9
Sherwood	white	46.2	34.6	56	109	2.3	3.1	4.7	3.5	6.5	1.6
Prescott	white	48.9	31.9	56	106	0.8	3.0	4.6	2.9	6.1	0.8
Lois	white	44.9	37.0	58	121	1.6	2.6	2.9	2.5	6.2	0.4
Lachute	white	45.4	33.9	57	120	1.6	2.8	3.4	3.9	6.2	0.7
Robust	white	51.8	31.0	58	109	0.4	2.2	1.3	1.9	5.1	0.2
RC Amaze	white	51.7	37.5	55	106	0.6	1.8	1.5	1.4	6.3	0.4
Bailey	white	49.2	35.0	57	111	1.1	2.7	2.9	3.1	5.9	0.6
<b>Means</b>		<b>48.4</b>	<b>34.9</b>	<b>57</b>	<b>114</b>	<b>1.7</b>	<b>2.6</b>	<b>3.1</b>	<b>2.8</b>	<b>5.9</b>	<b>0.8</b>
<b>Locations</b>		<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>

<sup>1</sup> hull colour or hullless.

<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.

**Table 6b - Ontario Oat Varietal Characteristics Based on Data from Area III, 2009, OCCC, November 2009**

Cultivar	Class <sup>1</sup>	Test Weight (kg/hL)	Thousand Kernel Weight (g)	Headings <sup>3</sup> (days)	Height (cm)	Lodging (0-9) <sup>2</sup>	Crown Rust (0-9) <sup>2</sup>	Straw Yield Index
Manotick	yellow	48.5	37.5	63	93	6.2	5.0	98
Sherwood	white	49.8	36.2	63	92	6.9	6.3	77
Prescott	white	51.2	31.0	63	91	5.7	5.5	89
Lachute	white	48.1	33.4	63	99	6.5	5.3	89
Robust	white	53.4	31.5	66	87	4.4	5.0	103
Dancer	white	53.5	33.4	66	100	6.4	5.0	102
Canmore	white	51.6	35.2	67	105	6.0	6.0	101
RC Amaze	white	52.1	34.2	63	87	4.5	4.0	103
Synextra	white	49.3	31.8	66	111	7.4	6.0	101
Dieter	white	50.5	34.7	67	106	6.3	6.5	106
Bailey	white	52.2	34.2	64	91	5.2	5.8	87
Navaro	hullless	62.9	25.8	67	88	3.6	5.3	145
<b>Means</b>		<b>51.9</b>	<b>33.2</b>	<b>65</b>	<b>96</b>	<b>5.7</b>	<b>5.5</b>	<b>5.20 (t/ha)</b>
<b>Locations</b>		<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>

<sup>1</sup> hull colour or hullless.

<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.

**Table 6c - Ontario Oat Varietal Characteristics Based on Data from Area V & VI, 2009, OCCC, November 2009**

Cultivar	Class <sup>1</sup>	Test Weight (kg/hL)	Thousand Kernel Weight (g)	Heading <sup>3</sup> (days)	Maturity <sup>3</sup> (days)	Height (cm)	Lodging (0-9) <sup>2</sup>	Barley Yellow Dwarf Virus (0-9) <sup>2</sup>	Straw Yield Index
AC Rigodon	white	46.9	43.8	65	111	97	2.3	1.5	108
Alcyon	white	46.9	41.1	63	111	97	2.8	0.9	112
Sherwood	white	46.0	44.7	62	109	83	1.8	1.1	95
Prescott	white	47.3	36.8	61	110	81	4.6	1.0	89
Lois	white	39.7	44.1	63	114	93	3.3	0.9	89
Lachute	white	44.4	44.2	63	109	89	3.9	3.0	88
Robust	white	47.5	36.9	64	108	81	0.0	0.5	100
Bia	white	44.0	39.2	66	110	95	1.4	1.0	98
Dancer	white	47.7	38.6	66	110	95	2.5	1.5	80
Canmore	white	48.2	45.9	68	112	98	0.5	2.2	136
RC Amaze	white	44.8	38.1	60	105	76	3.9	1.7	70
Synextra	white	48.9	41.5	66	110	101	1.4	1.8	119
Dieter	white	46.8	42.7	67	110	98	1.9	1.7	112
Bailey	white	45.4	39.4	62	107	81	3.3	0.9	84
Navaro	hulless	57.7	34.4	67	114	78	0.0	0.7	123
<b>Means</b>		<b>46.8</b>	<b>40.7</b>	<b>64</b>	<b>110</b>	<b>89</b>	<b>2.4</b>	<b>1.3</b>	<b>7.37</b>
<b>Locations</b>		<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>2</b>	<b>2</b>	<b>2</b>

<sup>1</sup> hull colour or hulless.

<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.

**Table 7a - Ontario Spring Wheat Distributors 2009,  
OCCC, November 2009**

Variety	Class <sup>1</sup>	Distributor
AC Brio (QW547-31)	hrs	C & M Seeds
Superb (BW252)	hrs-a	SeCan Association
Norwell (B89-12-51-1248)	hrs-a	C & M Seeds
Sable (CM2032)	hrs-a	C & M Seeds
Hobson (W98095)	hrs	Hyland Seeds
Orleans (BS98-581)	hrs	Synagri
Propel (CM790)	hrs	C & M Seeds
Megantic (BS00-708)	hrs-a	Synagri
Kane (BW 342)	hrs	SeCan Association
HY 124-HRS (SW124-029)	hrs	Hyland Seeds
Waskada (BW357)	hrs	SeCan Association
Helios (PT211)	hrs	La Coop Fédérée
Glenn	hrs	C & M Seeds
Fieldstar VB (BW365)	hrs	SeCan Association
Unity VB (BW362)	hrs	SeCan Association
Hoffman (QW628-5)	efs-a	Hyland Seeds
Batiscan (01SW2.33)	efs-a	Semican Inc
Hallmark (ACS98735)	sd	C & M Seeds
Snowstar (BW 315a)	hws	SeCan Association

<sup>1</sup> hrs = hard red spring, efs = eastern feed spring,  
sd = spring durum, hws = hard white spring, a = awned.

**Table 7b - Ontario Oat Distributors 2009,  
OCCC, November 2009**

Variety	Class <sup>1</sup>	Distributor
AC Rigodon (QO 256.39)	white	SeCan Association
Manotick (OA 981-9)	yellow	SeCan Association
OAC Markdale (GA 921021)	white	PRO Seeds
Alcyon (Lafayette)	white	Advantage Seed Growers
Sherwood (OA1019-1)	white	Hyland Seeds
Prescott (OA1021-1)	white	C & M Seeds
Lois (OA1036-9)	white	Advantage Seed Growers
Lachute (OA1046-3)	white	SeCan Association
Robust (P973A38-9-3-27)	white	PRO Seeds
Bia (CFA00137)	white	La Coop Fédérée
Dancer	white	Synagri
Canmore	white	Semican Inc
RC Amaze (P971A41-4-6-7)	white	PRO Seeds
Synextra (98AS9.23)	white	Synagri
Dieter (OA1063-8)	white	SeCan Association
Bailey (OA-1079-1)	white	Advantage Seed Growers
Navaro	hullless	Semican Inc

<sup>1</sup> hull colour or hullless

**Table 7c - Ontario Spring Barley Distributors 2009,  
OCCC, November 2009**

<b>Variety</b>	<b>Class<sup>1</sup></b>	<b>Distributor</b>
AC Kings (AB 159-10)	2r	Bramhill Seeds
Formosa (CM 94534)	2r	C & M Seeds
Chief (CH 9202-32)	2r	SeCan Association
Bornholm (T367-032)	2r	Hyland Seeds
Leader (CH9622-7)	2r	Eastern Grains Inc
AC Alma (AB151)	6r	Advantage Seed Growers
AC Klinck (AB189)	6r	SeCan Association
Brucefield (OS93-709)	6r	Hyland Seeds
OAC Staffa (GB966057-1)	6r	PRO Seeds
Encore (AB183-5)	6r	SeCan Association
OAC Cobourg (ADB006055)	6r	Advantage Seed Growers
OAC Chesley (CMB006047)	6r	C & M Seeds
OAC Kawartha (GB006028)	6r	SeCan Association
Cyane (CFO142AA45)	6r	La Coop Fédérée
OAC Ripley (ADB016028)	6r	Advantage Seed Growers
Dignity (CRB026039)	6r	Cribit Seeds
HY 481-6R (C481-027)	6r	Hyland Seeds
Corcy (CFO227AA148)	6r	La Coop Fédérée
Yielder (UL016.6)	6r	La Coop Fédérée
Synabelle (OS99-1793)	6r	Synagri
Oceanik (OS99-19,64)	6r	Synagri
Sedna (OS00-12.16)	6r	Pedigrain
OAC Laverne (GB026019)	6r	Bramhill Seeds
Harmony (OS02-13,26)	6r	Synagri
Synasolis	6r	Synagri
Raquel (OS98-17,47)	6r	Pedigrain
Amberly (OS02-13,14)	6r	PRO Seeds
HY 101-6R (GB036101)	6r	Hyland Seeds
Alliance (GB046034)	6r	Advantage Seed Growers

<sup>1</sup> 2r = 2 Row, 6r = 6 Row

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