

Agriculture Development Branch 2009 Performance Trials for Spring Cereal Crops

prepared by the Ontario Cereal Crop Committee

Infosheet

NOVEMBER 2008

This infosheet contains the most recent varietal information on spring cereals that were planted and harvested in 2008.

Additional information on these trials is available at www.gocereals.ca

References:

OMAFRA Publication 811, Agronomy Guide for Field Crops

OMAFRA Publication 812, Field Crop Protection Guide

For more information contact:

Duane Falk
Department of Plant Agriculture
University of Guelph
519-824-4120, ext. 53579
dfalk@uoguelph.ca

Peter Johnson
Cereals Specialist
Ontario Ministry of Agriculture, Food and Rural Affairs, Stratford
519-271-8180
peter.johnson@ontario.ca

Dr. David Hooker
Ridgetown Campus, University of Guelph
519-674-1559
dhooker@ridgetownc.uoguelph.ca

Table of Contents:

Table 1 – 2008 Spring Wheat Performance Trial Cumulative Yield Index Summary

Tables 2a, 2b, 2c – Ontario Spring Wheat Varietal Characteristics based on data from Areas II & IV, Area III and Areas V & VI, 2008

Table 3 – 2008 Spring Barley Performance Trial Cumulative Yield Index Summary

Tables 4a, 4b, 4c – Ontario Spring Barley Varietal Characteristics based on data from Areas II & IV, Area III and Areas V & VI, 2008

Table 5 – 2008 Oat Performance Trial Cumulative Yield Index Summary

Tables 6a, 6b, 6c – Ontario Oat Varietal Characteristics based on data from Areas II & IV, Area III and Areas V & VI, 2008

Table 7 – Ontario Spring Cereal Distributors, 2008

Table 1 – 2008 Spring Wheat Performance Trial Cumulative Yield Index¹ Summary

Cultivar	Class ²	Area II: West of Frontenac (2,300 -2,900 Crop Heat Units) & Area IV: Dundalk Plains (<2500 Crop Heat Units)					Area III East of Frontenac (2,500-2,900 Crop Heat Units)					Area V & VI Northern Ontario (less than 2,300 Crop Heat Units)				
		5-year ³	4-year	3-year	2-year	2008	5-year ³	4-year	3-year	2-year	2008	5-year ³	4-year	3-year	2-year	2008
AC Brio	HRS						101	100	100	101	92	95	94	98	97	99
Superb	HRS-a	92	93	95	93	95										
606 ⁴	HRS-a	95	95	97	101	101	93	95	95	97	103	92	92	93	98	101
Winfield	HRS-a	91	91	91	93	95	93	93	93	92	95	93	94	97	99	97
Norwell	HRS-a	102	101	102	101	106	96	98	100	101	98	106	108	113	113	114
Sable	HRS-a	106	106	107	110	116	96	96	97	98	98	100	100	102	106	105
Hobson	HRS	97	99	100	98	100	99	99	99	99	98	97	99	103	105	107
Orleans	HRS							98	98	98	91		94	95	96	95
Propel	HRS			101	102	104			100	103	104			101	104	107
Mégantic	HRS-a								98	102	102			101	106	103
Kane	HRS				98	94				97	95				92	93
Waskada	HRS					93					105					103
McKenzie	HRS-a										91					99
Hoffman	EFS-a	116	115	118	120	118	121	121	120	125	129	118	119	118	125	119
Batiscan	EFS-a										121					110
Hallmark	SD			90	89	87								78	76	69
Snowstar	HWS				94	90				86	79				82	79
Mean (t/ha)		3.43	3.53	3.63	3.70	3.56	3.52	3.53	3.60	3.19	2.53	3.66	3.44	3.24	3.39	3.60
Locations		16	13	10	7	4	18	15	12	8	4	15	12	10	6	4

¹ 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.

² HRS = hard red spring, EFS = eastern feed spring, SD = spring durum, HWS = hard white spring, -a = awned

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

⁴ These varieties are not widely accepted by all purchasers for quality reasons.

Table 2a – Ontario Spring Wheat Varietal Characteristics Based on Data from Areas II & IV, 2008
 Area II: West of Frontenac (2300 – 2900 Crop Heat Units)
 Area IV: The Dundalk Plains (<2500 Crop Heat Units)

Cultivar	Class ¹	Test Wt (kg/hl)	Protein (%)	Thousand Kernel Weight (g)	Lodging (0-9) ²	Height (cm)	Heading Days ³	Mildew (0-9) ²	Leaf Rust (0-9) ²	Leaf Septoria (0-9) ²	**Fusarium Rating ⁴	**Years (Fusarium Data)
Superb	HRS-a	78.8	15.2	38.9	0.3	101	63	2.9	2.8	4.5	HS	6
606	HRS-a	81.9	15.3	32.5	0.0	95	65	0.5	5.3	3.0	S	6
Winfield	HRS-a	82.1	15.5	37.4	1.0	110	65	1.8	1.3	3.0	MS	6
Norwell	HRS-a	81.2	15.6	33.8	1.3	110	61	0.8	4.0	3.5	MR	6
Sable	HRS-a	81.5	14.9	35.6	0.0	97	62	0.4	4.8	5.5	MS	5
Hobson	HRS	80.1	15.0	39.6	0.4	99	61	2.9	2.3	4.0	HS	5
Propel	HRS	81.0	14.6	36.2	2.8	105	59	3.7	3.0	3.5	MS	2
Kane	HRS	82.4	15.1	34.8	1.2	100	61	2.1	0.8	3.5	MR	1
Waskada	HRS	82.1	16.0	33.3	4.1	108	61	3.6	2.3	4.5		
Hoffman	EFS-a	80.8	12.8	39.2	3.2	119	66	0.3	4.3	4.0	MR	6
Hallmark	SD	76.2	14.7	36.3	0.3	78	65	0.9	1.3	4.5	HS	2
Snowstar	HWS	78.3	13.9	30.3	0.0	97	60	5.6	3.5	4.0	S	1
Means		80.5	14.9	35.7	1.2	102	62	2.1	2.9	4.0		
Locations		4	3	4	3	4	4	4	2	1		

¹ HRS = hard red spring, EFS = eastern feed spring, SD = spring durum, HWS = hard white spring, a = awned.

² For ratings 0-9, a high score is undesirable.

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

⁴ 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 2008 data are available.

Table 2b – Ontario Spring Wheat Varietal Characteristics Based on Data from Area III, 2008
 Area III: East of Frontenac (2300 – 2900 Crop Heat Units)

Cultivar	Class ¹	Test Wt (kg/hl)	Protein (%)	Thousand Kernel Weight (g)	Lodging (0-9) ²	Height (cm)	Heading ³ (days)	Mildew (0-9) ²	Leaf Rust (0-9) ²	Leaf Septoria (0-9) ²	Staganospora Glume Blotch (0-9) ²	**Fusarium Rating ⁴	**Years (Fusarium Data)
AC Brio	HRS	71.3	14.7	28.2	1.8	96	61	5.5	2.5	7.4	6.7	S	6
606	HRS-a	76.7	15.6	25.3	1.0	81	62	0.0	2.5	5.8	1.3	S	6
Winfield	HRS-a	74.9	15.3	26.6	1.8	99	64	0.0	2.0	6.0	2.9	MS	6
Norwell	HRS-a	74.4	15.0	26.6	2.3	92	58	0.0	0.0	5.8	1.5	MR	6
Sable	HRS-a	72.9	15.9	28.1	1.0	81	59	0.0	2.0	5.3	0.8	MS	5
Hobson	HRS	72.4	15.2	31.2	1.5	87	58	0.0	0.0	7.2	1.4	HS	5
Orleans	HRS	71.5	14.7	29.1	1.8	96	61	5.5	3.0	6.9	7.6	MS	3
Propel	HRS	73.3	14.8	28.3	3.3	95	56	2.3	0.0	6.8	2.0	MS	2
Mégantic	HRS-a	76.3	14.4	32.8	4.0	102	59	0.0	1.5	7.8	0.9	MS	2
Kane	HRS	74.9	14.6	27.2	3.3	89	59	0.3	0.0	7.3	3.5	MR	1
Waskada	HRS	76.0	15.1	28.9	4.0	101	59	0.5	0.0	7.7	2.5		
McKenzie	HRS-a	74.6	14.8	26.4	4.8	93	58	6.0	2.0	6.8	1.6		
Hoffman	EFS-a	74.0	13.4	36.1	2.5	103	63	0.0	3.5	4.7	1.2	MR	6
Batiscan	EFS-a	75.2	14.2	36.7	2.8	103	62	6.5	4.5	5.3	1.3		
Snowstar	HWS	75.0	13.9	24.3	1.3	87	58	7.5	2.0	6.9	7.4	S	1
Means		74.2	14.7	29.0	2.5	94	60	2.3	1.7	6.5	2.8		
Locations		4	2	4	1	4	4	1	1	2	3		

¹ HRS = hard red spring, EFS = eastern feed spring, SD = spring durum, HWS = hard white spring, a = awned.

² For ratings 0-9, a high score is undesirable.

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

⁴ 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 2008 data are available.

Table 2c – Ontario Spring Wheat Varietal Characteristics Based on Data from Area V & VI, 2008
 Area V & VI – Northern Ontario (<2300 Crop Heat Units)

Cultivar	Class ¹	Test Wt (kg/hl)	Thousand Kernel Weight (g)	Lodging (0-9) ²	Height (cm)	Heading ³ (days)	Maturity ³ (days)	Mildew (0-9) ²	Leaf Rust (0-9) ²	Leaf Septoria (0-9) ²	Fusarium Rating ³	Years (Fusarium Data)
AC Brio	HRS	71.3	39.7	0.8	101	59	105	1.8	1.2	2.2	S	6
606	HRS-a	75.6	38.2	0.0	85	60	110	0.0	1.5	2.0	S	6
Winfield	HRS-a	74.7	37.6	0.6	98	61	106	0.0	0.4	2.1	MS	6
Norwell	HRS-a	75.2	37.9	0.0	96	58	105	0.0	1.1	2.0	MR	6
Sable	HRS-a	73.2	38.5	0.2	83	60	109	0.0	0.4	1.8	MS	5
Hobson	HRS	71.8	40.3	0.3	90	56	107	0.1	1.1	2.3	HS	5
Orleans	HRS	71.8	40.6	0.1	100	59	105	2.3	2.3	2.2	MS	3
Propel	HRS	73.2	37.2	0.0	96	55	105	0.0	0.5	2.2	MS	2
Mégantic	HRS-a	74.5	40.7	0.3	108	58	105	0.3	1.7	1.8	MS	2
Kane	HRS	73.0	38.0	2.0	92	58	105	0.0	0.5	2.6	MR	1
Waskada	HRS	74.3	39.3	1.4	101	58	106	0.0	0.3	2.3		
McKenzie	HRS-a	73.0	37.3	1.4	95	57	105	2.4	0.7	2.2		
Hoffman	EFS-a	73.0	43.0	0.4	105	62	108	0.0	1.3	1.8	MR	6
Batiscan	EFS-a	74.1	43.9	1.4	110	60	107	0.6	2.0	2.0		
Hallmark	SD	66.3	35.7	2.7	69	61	106	0.3	0.4	2.4	HS	2
Snowstar	HWS	69.6	35.1	0.2	86	56	105	3.9	0.4	2.4	S	1
Means		72.8	38.9	0.7	95	59	106	0.7	1.0	2.1		
Locations		4	4	3	4	4	3	2	3	3	1	

¹ HRS = hard red spring, EFS = eastern feed spring, SD = spring durum, HWS = hard white spring, a = awned.

² For ratings 0-9, a high score is undesirable.

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

⁴ 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 2008 data are available.

Table 3 – 2008 Spring Barley Performance Trial Cumulative Yield Index¹ Summary

	Area II: West of Frontenac (2,300 -2,900 Crop Heat Units) & Area IV: Dundalk Plains (<2500 Crop Heat Units)					Area III: East of Frontenac (2500-1900 Crop Heat Units)					Area V & VI: Northern Ontario (< 2,300 Crop heat units)				
Cultivar	5-year ²	4-year	3-year	2-year	2008	5-year ²	4-year	3-year	2-year	2008	5-year ²	4-year	3-year	2-year	2008
2 rowed															
AC Kings	96	96	97	98	102										
Formosa	97	98	96	96	98										
Chief	99	98	96	98	88	92	92	93	90	82					
Sabrina			95	93	86	100	99	101	101	97					
Newdale	97	96	95	94	91										
Bornholm	99	98	97	97	97	98	95	97	98	94	95	98	99	101	98
6 rowed															
AC Alma											91	95	94	95	94
AC Klinck	98	97	100	99	97	101	101	100	103	114					
Brucefield	100	100	100	104	105	98	96	96	97	99	99	98	97	97	91
Chapais											99	100	99	97	99
Balance	95	94	93	94	92	99	97	96	98	102	99	100	98	96	97
Prosper					108										
OAC Staffa	100	99	100	101	102					97					99
Encore						110	110	109	109	107	105	105	104	103	107
OAC Cobourg	101	101	101	98	96										
OAC Chesley	101	98	99	97	97	98	96	95	96	101	99	101	101	103	101
OAC Kawartha	111	111	110	108	106	101	100	101	101	100					
Cyane		103	104	107	109	103	100	101	102	100	113	113	114	115	121
OAC Ripley	105	103	103	98	101							93	91	86	88
Dignity		108	107	103	103										
HY 481-6R			105	107	110		102	102	101	108		100	102	102	101
Corcy							103	103	104	107					
Yielder		98	99	100	103		105	104	106	106		99	100	98	100
Synabelle							103	105	107	114				107	107
Oceanik								105	105	98			101	103	106
Sedna								93	93	82					
OAC Laverne			103	102	107					112					
Harmony									97	89				96	98
Raquel									95	96					
Amberly				106	103				99	95					94
Means (T/ha)	4.46	4.61	4.88	4.83	4.72	4.41	4.20	4.12	4.16	3.47	4.63	4.30	4.15	4.24	4.18
Locations	19	15	11	7	4	11	9	7	5	3	12	9	7	5	3

¹ 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.

² 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, 2008
 Area II: West of Frontenac (2300 – 2900 Crop Heat Units)
 Area IV: The Dundalk Plains (<2500 Crop Heat Units)

Cultivar	Class ¹	Test Wt (Kg/hl)	Thousand Kernel Weight (g)	Height (cm)	Lodging (0-9) ²	Heading ³ (days)	Maturity ³ (days)	Mildew (0-9) ²	Scald (0-9) ²	Net Blotch (0-9) ²
AC Kings	2R	63.9	45.6	99	1.8	62	94	0.8	3.1	6.0
Formosa	2R	63.2	44.0	84	2.3	61	94	0.0	3.1	2.0
Chief	2R	61.8	46.7	93	4.6	62	95	0.1	4.3	0.0
Sabrina	2R	65.4	45.5	85	0.5	62	94	1.3	5.0	3.0
Newdale	2R	61.9	41.8	87	0.9	64	95	2.0	2.5	2.0
Bornholm	2R	65.4	44.1	83	1.4	63	95	0.8	2.3	1.0
AC Klinck	6R	60.9	45.7	92	2.9	61	95	4.0	5.3	0.0
Brucefield	6R	62.1	41.3	93	0.7	61	95	4.6	2.9	0.0
Balance	6R	62.8	45.2	94	1.3	60	95	5.0	4.9	4.0
Prosper	6R	61.9	40.8	87	0.6	59	95	3.3	3.6	6.0
OAC Staffa	6R	61.6	42.7	92	1.1	60	95	3.4	3.6	1.0
OAC Cobourg	6R	61.8	45.1	97	0.3	60	95	0.2	3.8	4.0
OAC Chesley	6R	62.8	46.0	96	1.0	59	95	0.0	2.5	2.0
OAC Kawartha	6R	59.4	44.9	97	0.8	59	95	0.0	2.8	1.0
Cyane	6R	61.5	43.8	109	0.9	63	95	4.5	1.9	1.0
OAC Ripley	6R	62.2	44.1	92	0.1	60	95	0.0	2.8	3.0
Dignity	6R	61.5	44.3	93	0.3	61	95	0.0	5.0	6.0
HY 481-6R	6R	62.4	45.7	89	1.3	60	95	1.5	3.4	2.0
Yielder	6R	61.9	43.1	108	1.4	63	95	5.5	3.3	3.0
OAC Laverne	6R	63.7	43.2	103	1.6	59	95	0.0	3.1	1.0
Amberly	6R	62.1	45.3	106	1.3	63	96	1.4	0.7	5.0
Means		62.4	44.2	94	1.3	61	95	1.8	3.3	2.5
Locations		4	4	4	4	4	1	3	3	1

¹ 2R = 2 Row, 6R = 6 Row

² For ratings 0-9, a high score is undesirable.

³ 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, 2008
 Area III: East of Frontenac (2300 – 2900 Crop Heat Units)

Cultivar	Class ¹	Test Wt (kg/hl)	Thousand Kernel Weight (g)	Height (cm)	Lodging (0-9) ²	Heading ³ (days)	Maturity ³ (days)	Mildew (0-9) ²	Net Blotch (0-9) ²	Spot Blotch (0-9) ²
Chief	2R	60.4	45.9	81	3.9	54	84	0.0	5.8	7.0
Sabrina	2R	65.6	43.8	72	0.5	53	83	0.0	5.8	5.0
Bornholm	2R	66.7	42.4	71	0.9	54	82	0.0	6.5	5.3
AC Klinck	6R	62.4	45.8	89	1.8	52	84	0.0	2.4	2.8
Brucefield	6R	61.7	38.9	76	0.6	52	84	1.0	3.3	4.5
Balance	6R	64.6	41.9	88	0.9	52	83	0.0	3.0	3.3
OAC Staffa	6R	62.7	38.7	76	0.6	53	87	0.8	2.9	2.8
Encore	6R	59.5	38.2	91	2.1	55	88	1.3	2.6	4.8
OAC Chesley	6R	64.5	43.8	85	0.9	51	82	0.0	2.3	3.3
OAC Kawartha	6R	59.1	42.1	86	1.5	51	84	0.0	5.1	7.0
Cyane	6R	60.6	42.9	86	0.6	56	86	1.5	3.0	4.8
HY 481-6R	6R	62.7	39.8	75	1.1	51	85	0.0	2.9	3.8
Corcy	6R	62.1	44.0	89	1.4	53	86	1.5	2.1	3.5
Yielder	6R	61.5	42.0	94	0.5	56	87	0.0	2.1	3.5
Synabelle	6R	61.8	44.9	92	1.8	53	86	0.8	2.6	3.3
Oceanik	6R	59.9	40.6	83	1.8	54	87	2.3	3.4	5.3
Sedna	6R	59.0	38.4	86	1.5	56	87	0.0	3.0	5.3
OAC Laverne	6R	66.0	42.2	89	1.5	51	85	0.8	3.5	5.5
Harmony	6R	61.3	40.8	97	1.3	57	88	0.5	2.5	4.5
Raquel	6R	64.8	42.0	84	0.8	53	86	0.8	2.1	2.8
Amberly	6R	61.4	41.6	87	2.1	56	91	0.0	3.1	5.5
Means		62.3	41.9	84	1.3	54	85	0.5	3.3	4.4
Locations		3	3	2	2	2	1	1	2	1

¹ 2R = 2 Row, 6R = 6 Row

² For ratings 0-9, a high score is undesirable.

³ 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, 2008
 Area V & VI: Northern Ontario (<2300 Crop Heat Units)

Cultivar	Class ¹	Test Wt (kg/hl)	Thousand Kernel Weight (g)	Height (cm)	Lodging (0-9) ²	Heading ³ (days)	Maturity ³ (days)	Net Blotch (0-9) ²	Spot Blotch (0-9) ²
Bornholm	2R	62.8	42.6	73	6.3	58	94	3.5	4.8
AC Alma	6R	57.6	40.9	80	5.5	54	100	4.9	4.3
Brucefield	6R	56.4	38.8	81	6.6	54	96	4.5	4.0
Chapais	6R	57.6	42.3	76	5.1	53	95	4.5	3.5
Balance	6R	59.3	41.6	85	5.6	54	97	5.9	4.8
OAC Staffa	6R	57.4	39.5	85	5.6	53	97	4.8	4.5
Encore	6R	56.5	42.7	90	5.8	59	104	3.5	2.8
OAC Chesley	6R	60.1	42.7	87	5.5	53	96	5.0	5.0
Cyane	6R	60.2	45.5	96	5.0	59	102	2.6	5.3
OAC Ripley	6R	58.3	39.9	82	6.0	55	99	6.5	3.3
HY 481-6R	6R	58.4	39.7	77	6.6	54	97	4.1	3.8
Yielder	6R	58.7	44.6	96	2.0	59	100	3.8	3.0
Synabelle	6R	58.8	46.8	93	5.3	55	98	4.9	3.8
Oceanik	6R	54.9	40.7	91	5.5	57	99	6.0	3.8
Harmony	6R	59.0	45.5	99	5.6	60	102	3.6	4.0
Amberly	6R	59.9	45.1	91	6.0	60	103	3.9	3.0
Means		58.5	42.4	86	5.5	56	99	4.5	4.0
Locations		3	3	3	2	3	2	2	1

¹ 2R = 2 Row, 6R = 6 Row

² For ratings 0-9, a high score is undesirable.

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

Table 5 – 2008 Oat Performance Trial Cumulative Yield Index¹ 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 ²	4-yr	3-yr	2-yr	2008	5-yr ²	4-yr	3-yr	2-yr	2008 ³	5-yr ²	4-yr	3-yr	2-yr	2008
AC Aylmer					81						92	92	89	87	90
AC Rigodon											102	104	108	112	114
Manotick	99	98	98	97	98	95	94	100	104	111					
OAC Markdale	93	93	93	99	101										
Alcyon	97	96	95	95	99						96	96	97	94	97
Sherwood	106	108	109	101	100	100	98	100	98	86	101	102	102	101	99
Prescott	100	99	100	90	90	103	102	107	98	92	101	100	100	102	103
Lois	102	101	100	101	99	102	102	103	104	99	102	103	103	104	105
Lachute	102	101	101	103	110	101	101	102	99	92	105	104	103	107	110
Robust		104	105	105	110		105	109	109	123		92	87	89	86
Bia											106	105	108	103	
Dancer							98	100	109	120					96
Canmore								79	90	90			106	109	102
RC Amaze				109	113				115	141				95	97
Synextra									90	79				99	101
Gaspé									85	74				94	93
Dieter										93					104
Means (T/ha)	4.41	4.10	4.33	3.95	3.90	4.06	4.22	3.93	4.03	2.84	4.14	4.04	4.12	4.59	4.91
Hulless															
Shadow								100	96	88			100	102	99
Navara									104	112				98	101
Means								2.96	3.25	2.78			2.68	3.08	3.13
Locations	19	15	11	7	4	10	8	6	4	2	16	13	9	5	3

¹ 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.

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

³ Rust races have overcome genetic resistance, with variety response being significantly impacted in 2008 unlike previous years.

TABLE 6a – Ontario Oat Varietal Characteristics Based on Data from Area II & IV, 2008

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

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

Cultivar	Class ¹	Test Wt (Kg/hl)	Thousand Kernel Weight (g)	Heading ³ (days)	Height (cm)	Lodging (0-9) ²	Leaf Rust (0-9) ²	Crown Rust (0-9) ²	Leaf Septoria (0-9) ²
AC Aylmer	White	39.0	33.8	61	118	7.4	5.8	4.3	3.5
Manotick	Yellow	38.4	34.1	63	113	4.1	5.1	4.1	2.0
OAC Markdale	White	41.1	33.8	65	123	4.1	5.3	3.3	2.0
Alcyon	White	40.6	31.6	64	125	7.4	4.5	3.1	4.3
Sherwood	White	41.4	35.7	63	112	4.5	5.9	3.4	3.3
Prescott	White	39.9	30.1	61	106	5.6	6.1	2.7	2.8
Lois	White	38.5	32.6	64	120	4.4	5.2	2.4	2.0
Lachute	White	41.6	34.4	63	120	5.3	5.0	2.1	2.0
Robust	White	41.5	32.0	64	106	1.4	3.3	1.9	4.0
RC Amaze	White	41.0	34.3	62	105	4.6	5.1	2.6	3.0
Means		40.3	33.2	63	115	4.9	5.1	3.0	2.9
Locations		4	4	3	3	4	2	4	1

Table 6b – Ontario Oat Varietal Characteristics Based on Data from Area III, 2008

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

Cultivar	Class ¹	Test Wt (Kg/hl)	Thousand Kernel Weight (g)	Heading ³ (days)	Height (cm)	Lodging (0-9) ²	Stem Rust (0-9) ²	Crown Rust (0-9) ²
Manotick	Yellow	44.2	32.7	54	98	4.9	7.0	7.0
Sherwood	White	43.5	28.8	55	96	7.1	7.0	7.0
Prescott	White	46.8	26.1	53	94	7.3	7.0	7.0
Lois	White	42.3	31.2	56	102	5.5	7.0	7.0
Lachute	White	43.9	27.5	54	103	8.0	7.0	6.8
Robust	White	49.7	29.1	56	93	1.3	3.0	2.0
Dancer	White	51.8	29.5	58	107	4.1	4.0	6.8
Canmore	White	46.1	32.2	59	111	7.0	7.0	7.0
RC Amaze	White	51.0	32.4	52	90	4.8	3.0	3.8
Synextra	White	44.5	28.3	59	118	7.6	7.0	7.0
Gaspé	White	43.9	30.2	60	115	6.8	7.0	7.0
Dieter	White	44.6	29.8	60	107	6.6	7.0	7.0
Shadow	Hulless	70.5	26.0	61	107	1.0	5.0	5.0
Navaro	Hulless	67.7	29.3	59	95	2.1	0.0	1.8
Means		49.3	29.5	57	102	5.3	5.6	5.9
Locations		2	2	2	2	2	1	1

¹ hull colour or hulless² For ratings 0-9, a high score is undesirable.³ 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, 2008
 Area V & VI: Northern Ontario (<2,300 Crop Heat Units)

Cultivar	Hull Colour	Test Wt (kg/hl)	Thousand Kernel Weight (g)	Heading ³ (days)	Maturity ³ (days)	Height (cm)	Lodging (0-9) ²
AC Aylmer	White	47.7	40.1	60	100	105	6.0
AC Rigodon	White	47.6	47.1	62	101	108	0.0
Alcyon	White	48.0	38.0	59	102	107	5.3
Sherwood	White	47.3	41.4	58	102	95	5.3
Prescott	White	47.0	35.4	57	100	98	3.8
Lois	White	43.9	40.5	60	103	102	2.0
Lachute	White	46.2	45.5	59	101	104	3.8
Robust	White	49.6	33.6	61	99	92	0.5
Bia	White	46.1	39.5	65	101	106	1.5
Dancer	White	46.8	39.5	62	100	108	6.5
Canmore	White	48.4	39.8	62	103	110	2.8
RC Amaze	White	47.9	37.4	57	99	90	5.0
Synextra	White	49.8	42.1	62	100	113	5.5
Gaspé	White	45.8	43.8	62	99	112	0.3
Dieter	White	47.7	44.7	62	101	105	5.3
Shadow	Hulless	57.6	38.0	66	104	107	0.0
Navaro	Hulless	57.6	35.0	65	103	93	0.3
Means		48.5	40.1	61	101	103	3.1
Locations		3	3	3	3	3	1

hull colour or hulless

² For ratings 0-9, a high score is undesirable.

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

Table 7 – Distributors of Cereal Varieties

	Variety	Distributor
Barley	AC Kings (AB159-10)	Bramhill Seeds
	Formosa (CM 94534)	C & M Seeds
	Chief (CH 9202-32)	SeCan Association
	Sabrina (CFO 303-019)	La Coop Fédérée
	Newdale (unknown)	Hyland Seeds
	Bornholm (T367-032)	Hyland Seeds
	AC Alma (AB151)	Advantage Seed Growers
	AC Klinck (AB189)	SeCan Association
	Brucefield (OS93-709)	Hyland Seeds
	Chapais (unknown)	SeCan Association
	Balance (OS94-544)	Hyland Seeds
	Prosper (GB966057-2)	PRO Seeds
	OAC Staffa (GB966057-1)	PRO Seeds
	Encore (AB183-5)	SeCan Association
	OAC Cobourg (ADB006055)	Advantage Seed Growers
	OAC Chesley (CMB006047)	C & M Seeds
	OAC Kawartha (GB006028)	SeCan Association
	Cyane (CFO142AA45)	La Coop Fédérée
	OAC Ripley (ADB016028)	Advantage Seed Growers
	Dignity (CRB026039)	Cribit Seeds
	HY 481-6R (C481-027)	Hyland Seeds
	Corcy (CFO227AA148)	La Coop Fédérée
	Yielder (UL016.6)	La Coop Fédérée
	Synabelle (OS99-1793)	Synagri
	Oceanik (OS99-19,64)	Synagri
	Sedna (OSOO-12.16)	Pedigrain
	OAC Laverne (GBO26019)	Bramhill Seeds
	Harmony (OS02-13,26)	Synagri
	Raquel (OS98-17,47)	Pedigrain
	Amberly (OS02-13,14)	PRO Seeds
Oat	AC Aylmer (OA 966-1)	Advantage Seed Growers
	AC Rigodon (QO 256.39)	SeCan Association
	Manotick (OA 981-9)	SeCan Association
	OAC Markdale (GA 921021)	PRO Seeds
	Alcyon (Lafayette)	Advantage Seed Growers
	Sherwood (OA1019-1)	Hyland Seeds
	Prescott (OA1021-1)	C & M Seeds
	Lois (OA1036-9)	Advantage Seed Growers
	Lachute (OA1046-3)	SeCan Association
	Robust (P973A38-9-3-27)	PRO Seeds
	Bia (CFA00137)	La Coop Fédérée
	Dancer	Synagri
	Canmore	Semican Inc.
	RC Amaze (P971A41-4-6-7)	PRO Seeds
	Synextra (98AS9.23)	Synagri
Gaspé	Semican Inc.	

	Variety	Distributor
	Dieter (OA1063-8)	SeCan Association
	Shadow	Semican Inc.
	Navaro	Semican Inc.
Spring Wheat	AC Brio (QW547-31)	C & M Seeds
	Superb (BW252)	SeCan Association
	606	C & M Seeds
	Winfield (W94194)	Hyland Seeds
	Hoffman (QW628-5)	Hyland Seeds
	Norwell (B89-12-51-1248)	C & M Seeds
	Sable (CM2032)	C & M Seeds
	Hobson (W98095)	Hyland Seeds
	Orleans (BS98-581)	Synagri
	Propel (CM790)	C & M Seeds
	Mégantic (BS00-708)	Synagri
	Kane (BW 342)	SeCan Association
	Waskada (BW357)	SeCan Association
	McKenzie	Semican Inc.
	Hoffman (QW628-5)	Hyland Seeds
Batiscan (01SW2.33)	Semican Inc.	
Hallmark (ACS98735)	C & M Seeds	
Snowstar (BW 315a)	SeCan Association	

Agricultural Information Contact Centre:

1-877-424-1300

E-mail: ag.info.omafra@ontario.ca

Northern Ontario Regional Office:

1-800-461-6132

www.ontario.ca/omafra