

2014

Ontario Spring Cereal Performance Trials

Data collected 2009-2013

www.gocereals.ca



Conducted by the Ontario Cereal Crop Committee

Current as of March 26, 2014

Ontario Spring Cereal Performance Trials

This report has been prepared by the Ontario Cereal Crop Committee and contains the most recent varietal information on spring cereals that were planted and harvested in 2013.

ADDITIONAL INFORMATION

Additional information is available at www.gocereals.ca, including

- Map with area and individual locations
- Head to Head comparisons which also provide multi-year data
- Historical Performance reports

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Table 1. 2013 Spring Wheat Performance Trial Cumulative Yield Index¹ Summary

Cultivar	Class ³	Area II ²					Area III ²					Area V ²				
		5 yr ⁴	4 yr	3 yr	2 yr	2013	5 yr ⁴	4 yr	3 yr	2 yr	2013	5 yr ⁴	4 yr	3 yr	2 yr	2013
AC Brio	HRS						103	104	103	103	103					
Norwell	HRS-a	105	105	101	100	101	95	94	93	94	93	100	102	103	101	103
Sable	HRS-a	108	104	104	104	103	102	102	101	103	104	102	102	102	102	106
Orleans	HRS						102	103	103	102	104	99	98	98	99	99
Megantic	HRS-a						93	92	94	96	97	99	99	101	101	104
HY 124-HRS	HRS-a	107	105	105	103	104	100	100	102	97	95	100	99	98	99	98
HY 017-HRS	HRS	99	98	97	96	91	101	102	100	100	100	102	101	100	102	105
Touran	HRS	94	95	95	96	94	104	105	104	104	105					
Furano	HRS						105	103	101	99	106	102	104	105	109	109
MAJOR	HRS						101	99	94	91	95	97	100	99	99	98
RICHELIEU	HRS-a						98	96	95	92	87	103	102	101	101	102
Fuzion	HRS						100	98	98	97	94					98
Wilkin	HRS	111	108	104	101	97	97	96	96	96	93	101	99	100	99	102
AAC Scotia	HRS	108	108	101	103	102	114	111	108	108	105	108	108	107	105	110
KINGSEY	HRS						103	101	98	97	94	103	104	104	100	100
Carberry	HRS-a		95	97	94	91		94	94	93	89		91	89	91	91
MAGOG	HRS							103	103	102	101		100	99	97	96
TOPAZE	HRS								100	98	100			91	90	87
KLEOS	HRS									97	99				96	96
AAC Brandon	HRS-a					76					88					101
HY 162-HRF	EFS-a	120	118	115	113	114	111	109	109	115	113	107	106	109	107	103
Hoffman	EFS-a				107	109				113	110					
Means (t/ha)		3.42	3.45	3.82	3.78	3.87	3.25	3.31	3.62	3.67	2.99	4.01	4.01	4.04	3.89	4.36
Means (bu/ac)		50.8	51.3	56.7	56.1	57.5	48.3	49.1	53.8	54.5	44.5	59.6	59.6	60.1	57.8	64.9
Locations		15	11	7	5	2	15	12	8	5	3	17	13	10	6	3

Notes:

1. Values differing by less than 3 within a column may not represent true differences in yield. Yield Indices are Heritability Adjusted Relative Values (HARV), which favour results from trial locations with high repeatability. For more information, see: Yan, W. Use of HARV in Variety Trial Summaries.
2. See area map on GoCereals.ca website.
3. HRS = hard red spring, EFS = eastern feed spring, -a = awned
4. 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 Area 2, 2013

Cultivar	Class ¹	Fusarium Rating ²	Years (fusarium Data)	Thousand							Yellow Dwarf Virus (0-9) ³
				Test Weight (kg/hL)	Kernel Weight (g)	Lodging (0-9) ³	Height (cm)	Heading ⁴ (days)	Leaf Rust (0-9) ³	Septoria (0-9) ³	
Norwell	HRS-a	MS	11	72.9	29.7	1.0	97	54	1.1	4.7	1.9
Sable	HRS-a	HS	10	70.3	30.4	1.0	85	55	2.5	4.0	1.3
HY 124-HRS	HRS-a	HS	7	67.9	34.8	0.7	85	58	0.0	2.9	2.5
HY 017-HRS	HRS	S	7	72.1	29.9	0.3	80	56	0.1	3.8	1.9
Touran	HRS	MS	7	73.1	33.8	2.7	101	56	2.6	4.3	1.9
Wilkin	HRS	S	5	67.9	29.6	0.3	92	56	0.5	4.2	1.9
AAC Scotia	HRS	MR	5	67.3	32.5	4.4	106	59	1.3	4.4	2.5
Carberry	HRS-a	MS	4	72.6	29.9	0.4	82	53	0.0	5.2	0.0
AAC Brandon	HRS-a	MS	1	71.3	32.8	0.3	86	57	0.4	3.8	1.3
HY 162-HRF	EFS-a	HS	6	71.6	36.6	0.4	91	53	1.0	4.3	1.9
Hoffman	EFS-a	S	2	67.6	37.2	2.0	104	57	0.8	3.8	1.3
Means				70.4	32.5	1.2	92	56	0.9	4.1	1.6
Locations				4	4	3	4	4	2	3	1

Notes:

1. HRS = hard red spring, EFS = eastern feed spring, a = awned.
2. 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)
3. For ratings 0-9, a high score is undesirable.
4. Days from planting. Heading and Physiological Maturity vary from year to year and should only be used to indicate relative differences.

Table 2b - Ontario Spring Wheat Varietal Characteristics Based on Data from Area 3, 2013

Cultivar	Class ¹	Fusarium Rating ²	Years (fusarium Data)	Thousand						
				Test Weight (kg/hL)	Protein (%)	Kernel Weight (g)	Lodging (0-9) ³	Height (cm)	Heading ⁴ (days)	Leaf Septoria (0-9) ³
AC Brio	HRS	S	11	72.5	13.2	32.6	3.0	105	53	9.0
Norwell	HRS-a	MS	11	73.2	13.4	29.2	3.4	104	53	2.0
Sable	HRS-a	HS	10	72.7	14.4	28.1	1.3	85	54	9.0
Orleans	HRS	S	9	72.1	13.2	32.7	3.8	106	53	2.0
Megantic	HRS-a	MS	8	75.5	13.5	32.9	3.0	114	52	6.0
HY 124-HRS	HRS-a	HS	7	69.8	14.8	32.0	4.0	88	55	3.0
HY 017-HRS	HRS	S	7	71.1	13.3	28.1	3.1	81	54	2.0
Touran	HRS	MS	7	74.3	13.2	35.2	3.1	103	54	2.0
Furano	HRS	MR	6	75.7	13.4	34.2	1.8	112	60	1.0
MAJOR	HRS	MR	6	75.0	13.5	32.9	2.6	104	61	1.0
RICHELIEU	HRS-a	MS	5	71.5	13.2	32.3	5.5	108	57	7.0
Fuzion	HRS	MS	6	72.2	13.5	31.2	6.3	109	56	5.0
Wilkin	HRS	S	5	68.4	12.7	26.1	0.7	86	54	4.0
AAC Scotia	HRS	MR	5	71.2	13.0	33.3	6.2	114	58	2.0
KINGSEY	HRS	MS	5	75.9	13.5	34.9	5.4	115	57	7.0
Carberry	HRS-a	MS	4	73.5	15.0	28.6	2.9	84	50	2.0
MAGOG	HRS	S	4	72.6	13.1	33.0	3.4	103	54	8.0
TOPAZE	HRS	MS	3	74.8	13.8	27.4	3.5	105	61	2.0
KLEOS	HRS	S	2	73.3	14.0	34.5	3.5	109	53	4.0
AAC Brandon	HRS-a	MS	1	75.4	14.7	30.9	2.9	88	56	2.0
HY 162-HRF	EFS-a	HS	6	70.6	12.5	35.7	1.1	97	52	1.0
Hoffman	EFS-a	S	2	71.8	13.0	37.9	4.2	115	56	2.0
Means				72.9	13.5	32.0	3.4	102	55	3.8
Locations				3	2	3	3	3	3	1

Notes:

1. HRS = hard red spring, EFS = eastern feed spring, a = awned.
2. 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)
3. For ratings 0-9, a high score is undesirable.
4. Days from planting. Heading and Physiological Maturity vary from year to year and should only be used to indicate relative differences.

Table 2c - Ontario Spring Wheat Varietal Characteristics Based on Data from Area 5, 2013

Cultivar	Class ¹	Fusarium Rating ²	Years (fusarium Data)	Thousand					Straw Yield Index	
				Test Weight (kg/hL)	Kernel Weight (g)	Lodging (0-9) ³	Height (cm)	Heading ⁴ (days)		Maturity ⁴ (days)
Norwell	HRS-a	MS	11	73.9	35.0	0.5	96	56	105	100
Sable	HRS-a	HS	10	74.3	35.9	0.8	81	57	106	87
Orleans	HRS	S	9	71.4	37.2	0.0	101	57	105	80
Megantic	HRS-a	MS	8	74.1	38.8	0.3	106	55	105	86
HY 124-HRS	HRS-a	HS	7	73.0	39.6	0.0	88	58	105	113
HY 017-HRS	HRS	S	7	73.7	36.5	1.3	83	58	107	104
Furano	HRS	MR	6	75.2	37.7	0.3	101	62	107	124
MAJOR	HRS	MR	6	75.2	36.7	1.8	105	62	106	126
RICHELIEU	HRS-a	MS	5	72.3	37.3	0.3	102	59	106	112
Fuzion	HRS	MS	6	73.7	37.5	1.8	104	59	106	93
Wilkin	HRS	S	5	69.9	34.4	0.0	84	57	106	107
AAC Scotia	HRS	MR	5	71.5	39.4	4.8	106	59	106	92
KINGSEY	HRS	MS	5	74.7	40.1	0.3	108	60	106	118
Carberry	HRS-a	MS	4	73.0	33.4	0.0	84	54	106	101
MAGOG	HRS	S	4	71.4	36.9	1.3	100	57	105	78
TOPAZE	HRS	MS	3	72.4	32.4	0.0	99	63	105	111
KLEOS	HRS	S	2	71.6	37.9	1.3	98	58	104	87
AAC Brandon	HRS-a	MS	1	73.5	34.8	0.0	89	61	107	106
HY 162-HRF	EFS-a	HS	6	70.5	41.1	0.0	87	55	104	73
Means				72.9	37.0	0.8	96	58	106	5.15 t/ha
Locations				3	3	1	3	3	3	3

Notes:

1. HRS = hard red spring, EFS = eastern feed spring, a = awned.
2. 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)
3. For ratings 0-9, a high score is undesirable.
4. Days from planting. Heading and Physiological Maturity vary from year to year and should only be used to indicate relative differences.

Table 3. 2013 Spring Barley Performance Trial Cumulative Yield Index¹ Summary

Cultivar	Area II ²					Area III ²					Area V ²				
	5 yr ³	4 yr	3 yr	2 yr	2013	5 yr ³	4 yr	3 yr	2 yr	2013	5 yr ³	4 yr	3 yr	2 yr	2013
2 Rowed															
AC Kings	93	91	89	88	90					97					93
AC Parkhill		94	93	93	94		95	94	96	88					
Bornholm	101	102	104	104	104	100	100	101	100	99	100	99	100	100	105
Pandora						98	97	101	102	101	101	102	102	102	103
Conestogo		97	97	99	102		101	102	104	107					99 100
Bentley			83	79	71			84	82	79			92	92	94
OAC Macton				94	92				99	101				83	82
6 Rowed															
Cyane	105	106	107	107	104	103	104	106	108	110					
OAC Ripley				101	101					101				95	92
Dignity	109	112	110	109	109			97	95	98				96	91
HY 481-6R	107	106	107	108	110	100	101	99	102	101	104	105	104	107	103
Tradition					94					93					
SYNABELLE						99	98	97	97	91	102	103	104	105	104
OCEANIK						100	97	96	93	89	102	101	103	104	100
OAC Laverne	99	103	104	106	105	102	103	102	103	103					94
Harmony						105	108	109	108	117	94	95	94	93	95
Synasolis						105	104	103	100	103	111	110	112	117	112
Raquel						103	103	104	107	102					
Amberly	99	100	100	100	97	99	100	99	95	96	106	107	109	113	106
HY 101-6R	110	107	105	103	107	108	108	108	112	119	101	101	100	100	95
Alliance				106	109					102				97	100
HY 460-6R	103	100	102	98	97	103	103	100	94	88	105	104	103	104	106
Rhea	98	101	101	99	99	106	107	106	104	108					
HY 621-6R		116	115	120	122		109	111	117	111		108	109	113	106
AAC Mirabel				95	92				106	103				100	109
OAC Belwood				106	106				108	102				104	104
Pédibelle									99	98					
Masky										85					103
Chambly										120					106
Means (t/ha)	4.19	4.13	4.10	3.81	3.90	3.71	3.58	3.74	3.54	3.54	4.19	4.11	4.00	3.55	4.01
Means (bu/ac)	77.9	76.9	76.2	70.9	72.5	69.0	66.6	69.5	65.9	65.8	77.8	76.4	74.3	66.0	74.6
Locations	16	12	9	7	4	14	11	8	6	3	17	13	11	7	3

Notes:

1. Values differing by less than 3 within a column may not represent true differences in yield. Yield Indices are Heritability Adjusted Relative Values (HARV), which favour results from trial locations with high repeatability. For more information, see: Yan, W. Use of HARV in Variety Trial Summaries.
2. See area map on GoCereals.ca website.
3. 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 2, 2013

Cultivar	Class ¹	Test Weight (kg/hL)	Thousand Kernel Weight (g)	Height (cm)	Lodging (0-9) ²	Straw Break (0-9) ²	Heading ³ (days)	Net Blotch (0-9) ²
AC Kings	2R	61.4	43.2	86	3.7	3.0	56	4.0
AC Parkhill	2R	62.6	43.8	70	4.3	2.7	56	6.0
Bornholm	2R	64.7	42.3	68	2.7	1.3	55	5.0
Conestogo	2R	63.2	41.7	78	2.5	0.8	55	8.0
Bentley	2R	56.7	36.1	74	3.7	2.0	56	3.0
OAC Macton	2R	59.8	50.0	69	0.2	0.3	54	7.0
Cyane	6R	59.3	42.9	88	2.3	2.2	56	7.0
OAC Ripley	6R	61.2	38.9	79	0.3	1.3	54	3.0
Dignity	6R	61.5	39.8	81	0.7	1.9	55	4.0
HY 481-6R	6R	61.2	39.9	74	0.8	1.9	53	2.0
Tradition	6R	61.4	37.7	78	2.2	2.3	53	6.0
OAC Laverne	6R	62.9	39.5	85	0.5	0.5	53	4.0
Amberly	6R	59.7	39.5	87	2.9	3.3	57	3.0
HY 101-6R	6R	60.2	40.6	68	1.3	0.8	53	4.0
Alliance	6R	61.0	38.3	80	0.8	0.9	55	6.0
HY 460-6R	6R	62.8	39.0	73	0.5	0.3	53	7.0
Rhea	6R	59.9	38.9	84	2.3	0.4	57	9.0
HY 621-6R	6R	60.3	41.2	81	0.5	0.5	52	7.0
AAC Mirabel	6R	56.3	36.6	81	0.8	2.4	57	9.0
OAC Belwood	6R	63.0	43.6	74	0.4	0.3	53	3.0
Means		60.9	40.7	78	1.6	1.4	55	5.4
Locations		4	4	4	2	2	4	1

Notes:

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 3, 2013

Cultivar	Class ¹	Thousand				Lodging (0-9) ²	Heading ³ (days)	Spot Blotch (0-9) ²
		Test Weight (kg/hL)	Kernel Weight (g)	Height (cm)	Kernel			
AC Kings	2R	61.4	41.5	102	6.7	53	6.0	
AC Parkhill	2R	62.6	37.5	89	5.8	53	5.0	
Bornholm	2R	64.3	37.9	87	6.3	52	7.0	
Pandora	2R	63.1	37.4	92	5.9	53	5.0	
Conestogo	2R	62.6	38.0	95	6.9	52	6.0	
Bentley	2R	56.9	35.8	97	8.0	55	5.0	
OAC Macton	2R	60.8	49.1	93	3.4	50	4.0	
Cyane	6R	58.8	40.1	106	5.3	55	4.0	
OAC Ripley	6R	61.2	35.8	93	3.3	52	4.0	
Dignity	6R	60.5	39.4	100	6.0	53	4.0	
HY 481-6R	6R	60.6	38.1	96	5.2	50	4.0	
Tradition	6R	59.9	33.8	96	6.2	51	4.0	
SYNABELLE	6R	56.4	36.5	104	6.4	53	5.0	
OCEANIK	6R	54.2	34.6	104	7.8	54	5.0	
OAC Laverne	6R	63.3	37.9	102	4.0	50	4.0	
Harmony	6R	61.2	40.2	115	4.2	55	4.0	
Synasolis	6R	57.4	35.3	96	5.9	57	4.0	
Raquel	6R	61.8	38.2	106	7.8	54	4.0	
Amberly	6R	59.4	38.5	103	7.4	56	4.0	
HY 101-6R	6R	59.9	40.0	86	5.9	51	6.0	
Alliance	6R	60.5	38.1	102	3.3	51	4.0	
HY 460-6R	6R	61.3	38.1	90	1.8	52	4.0	
Rhea	6R	60.5	39.2	104	4.2	56	6.0	
HY 621-6R	6R	60.1	40.5	98	5.0	50	4.0	
AAC Mirabel	6R	57.5	37.5	101	5.5	55	5.0	
OAC Belwood	6R	61.9	42.6	92	2.7	49	5.0	
Pédibelle	6R	60.5	37.4	107	5.5	55	4.0	
Masky	6R	60.8	35.5	99	4.9	55	4.0	
Chambly	6R	58.9	39.9	97	3.5	55	5.0	
Means		60.3	38.4	98	5.3	53	4.7	
Locations		3	3	2	2	2	1	

Notes:

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 5, 2013

Cultivar	Class ¹	Thousand						Straw Yield Index
		Test Weight (kg/hL)	Kernel Weight (g)	Height (cm)	Lodging (0-9) ³	Heading ³ (days)	Maturity ³ (days)	
AC Kings	2R	60.5	41.6	79	3.8	61	95	104
Bornholm	2R	64.3	45.0	68	4.0	60	94	78
Pandora	2R	63.3	42.6	72	4.8	60	95	82
Conestogo	2R	61.0	45.0	75	2.9	59	93	83
Bentley	2R	57.9	44.7	79	2.1	61	96	103
OAC Macton	2R	57.3	51.8	69	2.7	59	94	83
OAC Ripley	6R	59.6	39.9	75	2.8	59	98	99
Dignity	6R	57.3	40.3	77	4.1	60	97	95
HY 481-6R	6R	56.4	37.5	71	3.6	55	96	90
SYNABELLE	6R	58.1	41.9	78	5.0	58	97	87
OCEANIK	6R	57.8	42.9	84	3.2	59	97	101
OAC Laverne	6R	61.1	41.2	80	3.8	57	96	100
Harmony	6R	58.1	42.2	88	4.0	60	98	125
Synasolis	6R	57.7	40.4	75	5.6	61	97	115
Amberly	6R	57.5	46.2	83	5.3	60	98	129
HY 101-6R	6R	56.3	41.4	62	4.0	57	96	86
Alliance	6R	58.3	38.1	76	4.6	57	96	98
HY 460-6R	6R	58.3	38.1	71	2.8	57	97	104
HY 621-6R	6R	59.3	44.3	78	5.0	55	95	89
AAC Mirabel	6R	57.4	42.5	78	4.5	58	96	117
OAC Belwood	6R	59.8	44.5	72	2.3	55	95	100
Masky	6R	59.7	41.2	77	2.0	60	98	108
Chambly	6R	58.3	43.5	78	3.8	59	98	124
Means		58.9	42.5	76	3.8	59	96	3.78 t/ha
Locations		3	3	3	2	3	3	3

Notes:

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. 2013 Oat Performance Trial Cumulative Yield Index¹ Summary

Cultivar	Area II ²					Area III ²					Area V ²				
	5 yr ³	4 yr	3 yr	2 yr	2013	5 yr ³	4 yr	3 yr	2 yr	2013	5 yr ³	4 yr	3 yr	2 yr	2013
Hulled															
OAC Markdale					95					99					101
Alcyon														96	94
Prescott	89	86	91	88	83	94	96	92	94	82	101	101	102	98	103
Robust	105	105	99	91	90	99	97	97	94	84	95	95	95	97	99
Canmore											104	103	104	99	97
RC Amaze	110	111	103	97	92	104	103	106	109	110	98	99	102	102	108
Synextra						96	99	95	94	85	97	96	94	92	91
Dieter						102	102	99	96	88	110	110	109	103	103
Avatar						99	99	98	96	84		107	106	105	103
Oscar				93	91					111				99	96
HY 174-OA	111	113	109	107	109	104	105	106	101	99	100	103	103	104	101
Optimum				106	108				105	108				103	109
Hidalgo							93	91	83	66		108	109	110	101
Vitality							105	106	103	105		107	108	106	109
Bradley		107	105	101	105		104	104	101	100		100	98	100	99
CANTAL					90		107	104	97	85		103	101	96	92
AAC Bullet			108	109	115			112	114	123			102	102	100
AAC Roskens				108	110				109	122				101	97
Nice				96	90				98	101				112	112
Riley				110	108				105	114				103	95
AAC Almonte					103					107					97
CDC Orrin										95					
Means (t/ha)	3.60	3.45	3.86	3.96	3.48	4.09	4.01	3.86	4.25	3.87	4.07	4.20	4.05	3.63	3.80
Means (bu/ac)	94.4	90.7	101.2	104.0	91.4	107.4	105.3	101.2	111.6	101.7	106.7	110.3	106.3	95.3	99.6
Hulless															
Navaro						85	84	86	82	96	79	79	79	85	89
IDAHO								83	81	86			82	82	89
Means (t/ha)						2.96	2.87	2.73	3.25	3.34	3.19	3.26	3.18	2.76	3.07
Means (bu/ac)						77.8	75.3	71.7	85.2	87.7	83.8	85.7	83.5	72.5	80.5
Locations	15	11	8	5	3	10	8	6	4	2	17	13	10	6	3

Notes:

1. Values differing by less than 3 within a column may not represent true differences in yield. Yield Indices are Heritability Adjusted Relative Values (HARV), which favour results from trial locations with high repeatability. For more information, see: Yan, W. Use of HARV in Variety Trial Summaries.
2. See area map on GoCereals.ca website.
3. Cultivar yield ranking may vary from year to year. Decisions are therefore best made using data with the greatest number of years. Rust races have overcome genetic resistance in the past 5 years, with some varieties being significantly impacted.

Table 6a - Ontario Oat Varietal Characteristics Based on Data from Area 2, 2013

Cultivar	Class ¹	Thousand				Lodging (0-9) ²	Crown Rust (0-9) ²	Leaf Septoria (0-9) ²	Stem Break (0-9) ²
		Test Weight (kg/hL)	Kernel Weight (g)	Heading ³ (days)	Height (cm)				
OAC Markdale	white	48.9	33.4	58	113	2.9	5.1	1.5	3.4
Prescott	white	52.0	34.0	55	103	1.9	5.6	0.5	3.4
Robust	white	50.5	30.0	57	101	2.7	5.4	0.0	3.9
RC Amaze	white	49.5	34.0	54	97	4.2	5.9	2.5	7.3
Oscar	white	51.3	35.5	56	100	2.8	5.4	0.5	4.8
HY 174-OA	white	49.9	37.8	56	115	4.4	4.9	1.0	5.5
Optimum	white	48.7	30.5	63	100	2.4	3.0	0.0	2.9
Bradley	white	50.0	35.6	59	109	3.6	3.9	0.5	4.8
CANTAL	white	51.8	36.2	60	117	5.4	4.1	4.0	5.4
AAC Bullet	white	49.9	38.7	59	104	1.1	2.3	0.0	2.3
AAC Roskens	tan	51.1	32.3	58	104	3.6	4.0	2.5	5.3
Nice	white	46.7	34.2	61	109	5.8	5.3	0.5	6.3
Riley	white	50.8	33.9	60	110	4.4	4.5	0.0	7.0
AAC Almonte	white	53.0	35.5	61	112	5.3	2.6	0.0	6.5
Means		50.3	34.4	58	107	3.6	4.4	1.0	4.9
Locations		3	3	4	4	4	4	1	2

Notes:

1. hull colour or hullless

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 6b - Ontario Oat Varietal Characteristics Based on Data from Area 3, 2013

Cultivar	Class ¹	Thousand					Stem Rust (0-9) ²	Crown Rust (0-9) ²
		Test Weight (kg/hL)	Kernel Weight (g)	Heading ³ (days)	Height (cm)	Lodging (0-9) ²		
OAC Markdale	white	50.6	32.8	61	121	4.3	6.7	6.1
Prescott	white	46.0	26.6	58	110	3.9	6.3	6.9
Robust	white	44.1	26.2	61	112	2.9	8.3	6.4
RC Amaze	white	48.0	32.4	57	108	3.6	8.0	6.4
Synextra	white	45.6	29.3	63	133	4.8	8.0	7.3
Dieter	white	44.7	32.4	64	125	5.6	7.3	7.0
Avatar	yellow	48.3	27.1	63	120	3.4	7.3	6.6
Oscar	white	47.8	30.2	58	113	3.5	6.7	6.9
HY 174-OA	white	45.3	31.9	59	126	5.5	4.7	5.9
Optimum	white	49.9	29.4	64	110	2.9	1.0	3.7
Hidalgo	white	41.6	24.8	64	116	5.1	8.3	7.4
Vitality	white	47.3	35.1	61	119	3.9	5.3	5.5
Bradley	white	47.9	34.6	63	119	3.6	5.0	5.7
CANTAL	white	50.7	32.7	63	129	7.0	6.3	5.8
AAC Bullet	white	51.7	39.5	63	117	2.9	1.0	2.8
AAC Roskens	tan	52.2	32.8	61	116	5.0	1.3	4.2
Nice	white	47.3	33.2	63	121	3.3	8.0	6.5
Riley	white	48.8	31.1	62	121	5.3	7.0	6.5
AAC Almonte	white	54.1	35.1	63	125	4.1	1.0	1.8
CDC Orrin	white	45.6	31.1	63	124	4.5	6.3	6.2
Navaro	hulless	67.8	30.2	63	114	3.0	1.0	3.5
IDAHO	hulless	69.9	28.1	64	118	3.6	1.0	4.9
Means		49.8	31.2	62	119	4.2	5.3	5.6
Locations		2	2	2	2	2	1	2

Notes:

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 6c - Ontario Oat Varietal Characteristics Based on Data from Area 5, 2013

Cultivar	Class ¹	Thousand						Barley	Straw
		Test Weight (kg/hL)	Kernel Weight (g)	Heading ³ (days)	Maturity ³ (days)	Height (cm)	Lodging (0-9) ²	Yellow Dwarf Virus (0-9) ²	
OAC Markdale	white	42.5	34.6	60	103	94	2.7	2.8	120
Alcyon	white	43.0	31.9	59	105	94	4.9	2.4	98
Prescott	white	43.7	31.9	56	100	84	4.4	4.0	85
Robust	white	47.4	32.8	59	101	83	2.3	1.5	69
Canmore	white	44.7	36.1	61	105	98	3.4	3.4	86
RC Amaze	white	46.1	34.5	57	100	83	4.5	0.5	69
Synextra	white	44.7	34.4	61	104	99	3.2	4.2	102
Dieter	white	44.3	38.2	62	106	94	4.4	2.0	118
Avatar	yellow	45.3	33.6	60	103	93	3.7	2.8	92
Oscar	white	44.2	36.5	57	101	82	4.9	2.0	81
HY 174-OA	white	46.4	38.3	57	104	91	3	1.3	107
Optimum	white	44.9	31.6	63	105	83	2.6	1.7	111
Hidalgo	white	43.8	34.1	62	103	86	2	1.0	97
Vitality	white	44.4	38.6	60	105	93	3.4	1.4	86
Bradley	white	42.5	36.5	60	105	93	2.4	1.0	115
CANTAL	white	45.8	34.6	60	102	103	6	1.4	113
AAC Bullet	white	44.7	36.6	62	105	87	1.8	1.4	126
AAC Roskens	tan	43.2	32.1	60	102	84	4.1	2.5	83
Nice	white	44.3	36.9	61	104	96	4.9	4.0	92
Riley	white	45.5	35.6	61	106	90	4.4	0.8	84
AAC Almonte	white	44.6	33.8	61	105	92	4.5	1.4	92
Navaro	hulless	56.0	31.3	63	104	88	0.3	2.5	135
IDAHO	hulless	58.7	30.2	63	105	93	2.1	3.5	138
Means		45.7	34.6	60	104	91	3.5	2.1	5.3 t/ha
Locations		3	3	3	2	3	3	2	3

Notes:

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 7a - Ontario Spring Wheat Distributors 2013

Class¹	Variety	Distributor
hrs	AC Brio	C & M Seeds
	Norwell (awned)	C & M Seeds
	Sable (awned)	C & M Seeds
	Orleans	SeCan Association
	Megantic (awned)	Synagri
	HY 124-HRS (awned)	Hyland Seeds
	HY 017-HRS	Hyland Seeds
	Touran	Elite Seeds
	Furano	C & M Seeds
	MAJOR	Synagri
	RICHELIEU (awned)	Pedigrain
	Fuzion	Semences Prograin Inc
	Wilkin	C & M Seeds
	AAC Scotia	Semican Inc
	KINGSEY	Semican Inc
	Carberry (awned)	SeCan Association
	MAGOG	Semican Inc
TOPAZE	Pedigrain	
KLEOS	Synagri	
AAC Brandon (awned)	SeCan Association	
efs	HY 162-HRF (awned)	Hyland Seeds
	Hoffman (awned)	Elite Seeds

Notes:

1. hrs = hard red spring, efs = eastern feed spring.

Table 7b - Ontario Barley Distributors 2013

Class¹	Variety	Distributor
2r	AC Kings	Bramhill Seeds
	AC Parkhill	SeCan Association
	Bornholm	Hyland Seeds
	Pandora	Synagri
	Conestogo	SeCan Association
	Bentley	C & M Seeds
	OAC Macton	SeCan Association
6r	Cyane	Elite Seeds
	OAC Ripley	Advantage Seed Growers
	Dignity	SeCan Association
	HY 481-6R	Hyland Seeds
	Tradition	Semican Inc
	SYNABELLE	Synagri
	OCEANIK	Synagri
	OAC Laverne	Bramhill Seeds
	Harmony	Synagri
	Synasolis	Synagri
	Raquel	Pedigrain
	Amberly	PRO Seeds/Sevita International
	HY 101-6R	Hyland Seeds
	Alliance	Advantage Seed Growers
	HY 460-6R	Hyland Seeds
	Rhea	Elite Seeds
	HY 621-6R	Hyland Seeds
	AAC Mirabel	SeCan Association
	OAC Belwood	SeCan Association
	Pédibelle	Pedigrain
Masky	Synagri	
Chambly	Semences Prograin Inc	

Notes:

1. 2r = 2 Row, 6r = 6 Row

Table 7c - Ontario Oat Distributors 2013

Class	Variety	Distributor
hulled	OAC Markdale	PRO Seeds/Sevita International
	Alcyon	Advantage Seed Growers
	Prescott	C & M Seeds
	Robust	PRO Seeds/Sevita International
	Canmore	Semican Inc
	RC Amaze	PRO Seeds/Sevita International
	Synextra	Synagri
	Dieter	SeCan Association
	Avatar	Pedigrain
	Oscar	Advantage Seed Growers
	HY 174-OA	Hyland Seeds
	Optimum	Eastern Grains Inc
	Hidalgo	Synagri
	Vitality	Synagri
	Bradley	SeCan Association
	CANTAL	Semican Inc
	AAC Bullet	SeCan Association
	AAC Roskens	SeCan Association
Nice	Elite Seeds	
Riley	C & M Seeds	
AAC Almonte	SeCan Association	
CDC Orrin	Semican Inc	
hulless	Navaro	Semican Inc
	IDAHO	Semican Inc

Table 7d - Distributor Contact Information

Distributor	Address
Advantage Seed Growers	P.O. Box 351, Lucknow, ON, N0G 2H0 Tel: 519-440-6406 Fax: 519-812-1010 Internet: www.advantageseeds.com
Bramhill Seeds	5220 Hwy 23, RR#2, Palmerston, ON, N0G 2P0 Tel: 519-343-3630 Fax: 519-343-2037 Internet: www.bramhillseeds.com
C&M Seeds	6180 5th Line, Palmerston, ON, N0G 2P0 Tel: 1-888-733-9432 Fax: 519-343-3792 Internet: www.redwheat.com
Eastern Grains Inc	260 3rd Tier Road, LSD Drummond, NB, E3Y 2V2 Tel: 506-473-6661 Fax: 506-473-6606 Internet: www.easterngrains.ca
Elite Seeds	Available through your local Agromart Tel: 519-282-6701 Internet: www.eliteseeds.ca
Hyland Seeds	P.O. Box 1090, 5 Hyland Drive Blenheim, ON, N0P 1A0 Tel: 519-676-8146 Fax: 519-676-6800 Internet: www.hylandseeds.com
Pedigrain	5175 Boul. Laurier Est, St Hyacinthe, QC, J2R 2B4 Tel: 819-347-7502 Fax: 450-799-3229
PRO Seeds/Sevita International	595570 County Rd 59, RR6 Woodstock, ON, N4S 7W1 Tel: 1-888-537-5157 Fax: 519-533-0773 Internet: www.proseeds.ca
SeCan	400-300 Terry Fox Drive, Kanata, ON, K2K 0E3 Tel: 1-866-797-7874 Fax: 613-592-9497 Internet: www.secan.com
Semences Prograin	145 Bas Rivière Nord, St Césaire, QC, J0L 1T0 Tel: 1-800-817-3732 Fax: 450-469-4547 Internet: www.semencesprograin.com
Semican Inc	366, Rang 10, Plessisville, QC, G6L 2Y2 Tel: 1-866-362-3385 Fax: 819-362-3385 Internet: www.semican.ca
Synagri	5175 Boul. Laurier Est, St Hyacinthe, QC, J2R 2B4 Tel: 450-799-3226 Fax: 450-799-3229 Internet: www.synagri.ca