

2012

Ontario Spring Cereal Performance Trials

Data collected 2007-2011

www.gocereals.ca



Conducted by the Ontario Cereal Crop Committee

Current as of February 3, 2012

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 2011.

ADDITIONAL INFORMATION

Additional information is available at www.gocereals.ca

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Table 1. Spring Wheat Cumulative Yield Index¹ Summary

Cultivar	Class ²	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 ³	4 yr	3 yr	2 yr	2011	5 yr ³	4 yr	3 yr	2 yr	2011	5 yr ³	4 yr	3 yr	2 yr	2011
AC Brio	HRS						101	100	103	104	101					
Norwell	HRS-a	104	106	107	109	103	98	96	96	94	92	105	104	100	103	106
Sable	HRS-a	109	110	110	103	104	100	101	102	101	98	103	102	102	101	101
Orleans	HRS						100	99	103	104	104	99	98	99	98	97
Megantic	HRS-a						96	94	92	89	91	101	100	98	97	100
Kane	HRS-a						93	91	90	91	95	91	91	90	91	87
HY 124-HRS	HRS-a	109	111	109	106	110	103	102	102	102	109	99	98	100	99	97
HY 017-HRS	HRS	104	104	101	100	101	105	104	101	104	102	102	102	101	101	98
Touran	HRS			93	95	91	104	105	104	105	103	101	102	102	104	106
Furano	HRS					84		102	107	106	105		97	99	101	100
MAJOR	HRS							102	106	105	98		97	97	100	99
RICHELIEU	HRS-a							100	101	98	101		100	104	102	100
Helios	HRS		91	90	93	90		97	97	96	96		100	99	97	103
Fuzion	HRS							99	102	99	99					
Glenn	HRS-a		96	95	92	95		93	89	94	96		96	93	92	90
Wilkin	HRS			116	115	113			98	97	97			101	100	101
KINGSEY	HRS								106	103	99			104	107	109
Griffon	HRS-a				98	93				97	100				99	102
Carberry	HRS-a				96	106				94	96				91	88
MAGOG	HRS									103	105				102	102
HY 162-HRF	EFS-a		124	124	122	120		111	109	105	98		109	107	105	111
Batiscan	EFS-a							108	105	103	97		109	111	111	113
Tokson	EFS-a				105	109				106	108				97	95
Hallmark	SD-a	88	87	88	81	93										
Means (t/ha)		3.45	3.39	3.27	3.20	3.91	3.08	2.91	3.04	3.05	3.54	3.84	3.93	4.07	4.11	4.26
Means (bu/ac)		51.3	50.3	48.6	47.6	58.2	45.8	43.2	45.3	45.3	52.7	57.1	58.5	60.5	61.1	63.3
Locations		17	14	10	6	2	18	14	10	7	3	17	15	11	7	4

- 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. HRS = hard red spring, EFS = eastern feed spring, SD = spring durum, -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

Table 2a - Ontario Spring Wheat Varietal Characteristics, Area 2/4

Cultivar	Class ¹	**Fusarium Rating ²	**Years (fusarium Data)	Thousand							Mildew (0-9) ³	Leaf Rust (0-9) ³	Leaf Septoria (0-9) ³	Barley Yellow Dwarf Virus (0-9) ³
				Test Weight (kg/hL)	Protein (%)	Kernel Weight (g)	Lodging (0-9) ³	Height (cm)	Heading ⁴ (days)	Maturity ⁴ (days)				
Norwell	HRS-a	MS	9	77.7	16.7	30.6	0.9	103	54	97	0.2	4.0	4.0	4.4
Sable	HRS-a	HS	8	78.4	15.8	33.5	0.0	94	54	94	0.3	5.3	3.8	4.8
HY 124-HRS	HRS-a	HS	5	76.2	15.7	40.5	0.0	89	57	97	1.0	1.3	2.6	3.5
HY 017-HRS	HRS	S	5	77.1	14.6	30.6	0.0	87	55	97	4.2	2.5	4.0	4.1
Touran	HRS	MS	5	78.6	16.1	38.3	1.4	103	56	95	2.8	5.9	5.0	5.0
Furano	HRS	MR	4	75.0	15.4	31.7	0.0	106	62	100	6.0	3.0	3.1	4.3
Helios	HRS	MS	4	76.7	16.8	30.8	5.0	102	53	88	5.8	3.6	5.3	5.4
Glenn	HRS-a	MS	4	78.6	16.2	33.0	0.1	100	52	92	2.2	1.6	4.0	5.5
Wilkin	HRS	S	3	75.7	14.8	29.7	0.0	95	55	93	0.3	2.4	4.4	4.8
Griffon	HRS-a	MS	2	78.6	17.8	32.6	4.3	103	54	91	5.3	1.3	3.9	4.5
Carberry	HRS-a	MR	2	78.9	16.3	35.7	0.0	88	52	94	2.3	1.9	3.4	5.1
HY 162-HRF	EFS-a	HS	4	77.2	15.1	40.4	0.0	97	53	90	0.3	4.5	5.8	5.5
Tokson	EFS-a	S	2	75.5	14.4	32.0	0.0	84	54	96	0.5	4.4	2.9	3.5
Hallmark	SD-a	HS	6	76.1	15.2	34.3	0.0	73	56	95	0.8	0.6	3.0	3.6
Means				77.2	15.8	33.8	0.8	95	55	94	2.3	3.0	3.9	4.6
Locations				2	1	2	2	3	3	1	2	2	1	1

Notes:

1. HRS = hard red spring, EFS = eastern feed spring, SD = spring durum, 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)
- ** These columns will be updated when the 2011 data are available.
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, Area 3

Cultivar	Class ¹	**Fusarium Rating ²	**Years (fusarium Data)	Test Weight (kg/hL)	Protein (%)	Thousand Kernel Weight (g)	Lodging (0-9) ³	Height (cm)	Heading ⁴ (days)	Leaf Rust (0-9) ³	Leaf Septoria (0-9) ³	Septoria Glume Blotch (0-9) ³
AC Brio	HRS	S	9	76.0	14.3	35.3	2.8	91	48	3.0	3.8	1.5
Norwell	HRS-a	MS	9	77.6	15.4	31.8	2.9	83	45	0.8	3.6	1.5
Sable	HRS-a	HS	8	76.9	15.4	33.8	1.8	75	46	5.1	2.5	1.5
Orleans	HRS	S	7	75.9	14.8	37.5	2.8	92	47	4.0	2.3	1.0
Megantic	HRS-a	MS	6	78.0	14.7	37.2	3.1	97	46	1.8	3.9	0.5
Kane	HRS-a	S	5	76.6	15.2	33.0	2.5	86	45	0.0	3.6	1.8
HY 124-HRS	HRS-a	HS	5	74.7	15.2	40.6	1.5	80	49	0.5	1.8	1.0
HY 017-HRS	HRS	S	5	75.9	14.2	34.6	2.3	76	47	0.6	3.9	0.0
Touran	HRS	MS	5	77.0	14.7	39.8	2.8	91	48	2.3	4.1	0.5
Furano	HRS	MR	4	76.9	14.3	34.8	2.0	95	52	0.6	3.4	0.0
MAJOR	HRS	MR	4	76.5	14.7	36.1	2.0	94	54	0.3	3.2	0.0
RICHELIEU	HRS-a	MS	3	74.8	13.8	37.5	3.0	93	49	3.3	3.7	0.3
Helios	HRS	MS	4	74.6	15.2	35.0	3.3	88	44	0.9	3.3	2.3
Fuzion	HRS	MR	4	74.9	14.6	38.0	3.1	97	49	3.3	2.5	1.3
Glenn	HRS-a	MS	4	78.5	15.3	31.5	2.4	83	43	0.0	3.6	2.0
Wilkin	HRS	S	3	73.5	13.9	30.9	2.5	81	48	2.1	3.6	0.3
KINGSEY	HRS	MS	3	77.0	14.4	39.2	3.0	101	50	3.5	1.2	0.8
Griffon	HRS-a	MS	2	75.7	16.3	33.0	2.6	91	46	0.0	3.5	1.3
Carberry	HRS-a	MR	2	76.5	15.7	33.0	2.3	77	43	0.1	2.2	0.0
MAGOG	HRS	S	2	76.9	14.7	38.3	2.9	96	47	3.5	3.4	2.3
HY 162-HRF	EFS-a	HS	4	74.9	13.8	41.0	2.6	84	45	1.8	3.4	0.5
Batiscan	EFS-a	S	4	75.8	14.5	40.4	3.3	97	47	2.9	3.3	1.5
Tokson	EFS-a	S	2	77.1	14.4	34.7	2.4	79	46	0.2	3.7	0.0
Means				76.2	14.8	36.0	2.6	88	47	1.8	3.2	0.9
Locations				3	2	3	2	3	3	3	2	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)
- ** These columns will be updated when the 2011 data are available.
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, Area 5/6

Cultivar	Class ¹	**Fusarium Rating ²	**Years (fusarium Data)	Test Weight (kg/hL)	Thousand Kernel Weight (g)	Height (cm)	Heading ⁴ (days)	Maturity ⁴ (days)	Barley Yellow Dwarf Virus (0-9) ³	Straw Yield Index
Norwell	HRS-a	MS	9	77.0	36.0	90	52	96	1.0	85
Sable	HRS-a	HS	8	76.4	37.7	79	54	99	1.3	95
Orleans	HRS	S	7	75.5	38.4	94	54	96	1.8	85
Megantic	HRS-a	MS	6	76.6	38.0	104	52	96	1.3	100
Kane	HRS-a	S	5	77.2	35.5	87	52	96	3.8	93
HY 124-HRS	HRS-a	HS	5	75.4	41.0	86	55	98	1.5	118
HY 017-HRS	HRS	S	5	76.1	34.8	76	54	98	1.0	81
Touran	HRS	MS	5	76.6	42.8	98	54	97	1.0	99
Furano	HRS	MR	4	75.5	37.6	100	59	99	0.8	124
MAJOR	HRS	MR	4	75.3	37.4	101	60	99	1.3	129
RICHELIEU	HRS-a	MS	3	74.7	39.6	100	56	97	1.3	112
Helios	HRS	MS	4	75.9	37.9	94	51	96	1.3	86
Glenn	HRS-a	MS	4	78.6	35.0	87	51	96	1.0	89
Wilkin	HRS	S	3	73.1	34.9	81	54	97	1.3	104
KINGSEY	HRS	MS	3	77.2	42.4	104	57	98	1.3	120
Griffon	HRS-a	MS	2	76.8	35.9	96	53	96	1.5	99
Carberry	HRS-a	MR	2	78.1	36.2	80	54	96	1.0	98
MAGOG	HRS	S	2	76.1	38.9	96	54	96	1.5	88
HY 162-HRF	EFS-a	HS	4	74.8	42.0	87	52	96	1.3	85
Batiscan	EFS-a	S	4	76.2	46.1	105	56	97	2.0	107
Tokson	EFS-a	S	2	74.2	35.6	81	53	98	1.3	101
Means				76.0	38.3	92	54	97	1.4	5.37
Locations				4	4	4	4	4	1	4

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)
- ** These columns will be updated when the 2011 data are available.
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. Spring Barley Cumulative Yield Index¹ 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 ²	4 yr	3 yr	2 yr	2011	5 yr ²	4 yr	3 yr	2 yr	2011	5 yr ²	4 yr	3 yr	2 yr	2011
2 Rowed															
AC Kings	97	98	97	97	95										
Formosa	94	94	93	94	100										
Chief	94	90	92	90	86	90	89	91	87	84					
Bornholm	98	98	99	101	104	98	98	99	100	106	101	100	99	98	98
HY 435-2R		99	101	99	98		100	99	97	95		101	100	100	99
Pandora								95	92	98			100	101	102
AC Parkhill				96	96				93	89					
Bentley					96					89					91
6 Rowed															
Encore						107	106	105	107	108	103	103	103	103	102
OAC Kawartha	101	99	96	86	86	96	95	93	91	94					
Cyane	105	105	103	105	107	100	99	98	99	100	104	104	100	102	104
Dignity	106	106	108	116	113					103					
HY 481-6R	106	107	107	104	105	100	101	99	99	92	102	102	102	103	100
Corcy				104	97	101	101	99	100	102					
Yielder	104	105	106	109	110	105	105	105	111	106	97	97	96	99	98
SYNABELLE						103	104	101	100	95	101	101	100	100	101
OCEANIK						104	103	105	101	103	101	101	101	98	101
SEDNA						99	97	102	103	109					
OAC Laverne	98	98	94	98	97		104	101	102	98					
Harmony						101	99	103	108	109	95	95	94	97	95
Synasolis						106	106	109	108	113	105	105	106	103	104
Raquel						98	99	100	97	93					
Amberly	101	99	98	100	102	101	101	103	106	110		99	101	100	102
HY101-6R		118	116	113	110		109	105	104	98		103	102	103	101
HY 460-6R			107	104	115			110	114	119			106	103	101
Rhea			98	102	109			108	111	115			101	102	102
Alyssa				102	104				104	103				102	101
Rocket					94					104					97
Means (t/ha)	4.62	4.56	4.47	4.55	5.07	3.95	3.75	3.84	3.63	4.32	4.58	4.62	4.74	4.95	5.00
Means (bu/ac)	86.0	84.7	83.2	84.6	94.3	73.4	69.7	71.4	67.5	80.4	85.1	85.9	88.2	92.0	92.9
Locations	16	13	9	5	2	13	11	8	5	2	15	13	10	6	4

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. 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, Area 2/4

Cultivar	Class ¹	Thousand Kernel					Mildew (0-9) ²	Leaf Rust (0-9) ²	Net Blotch (0-9) ²	Barley Yellow Dwarf Virus (0-9) ²
		Test Weight (kg/hL)	Weight (g)	Height (cm)	Lodging (0-9) ²	Heading ³ (days)				
AC Kings	2R	62.6	43.9	97	2.8	56	0.0	1.0	3.3	4.8
AC Parkhill	2R	64.2	40.7	84	3.0	54	0.0	1.0	5.0	6.0
Formosa	2R	64.3	42.3	86	2.2	56	0.0	0.8	4.3	4.0
Chief	2R	60.2	44.3	94	3.8	56	0.0	0.5	5.4	5.5
Bornholm	2R	66.5	44.4	84	2.8	55	0.0	1.3	4.0	4.5
HY 435-2R	2R	61.2	42.2	85	5.0	56	0.0	1.0	3.9	5.5
Bentley	2R	58.8	40.6	89	3.8	56	0.3	1.0	2.7	3.8
OAC Kawartha	6R	56.0	34.3	91	1.7	52	0.0	0.0	7.1	4.8
Cyane	6R	61.7	46.8	103	2.1	55	5.3	1.3	3.1	4.1
Dignity	6R	61.8	40.0	92	1.1	53	0.0	1.5	3.7	4.3
HY 481-6R	6R	61.1	38.3	90	3.2	50	1.0	2.0	3.7	4.5
Corcy	6R	62.2	42.6	102	3.5	54	3.0	3.0	3.1	4.3
Yielder	6R	62.8	44.5	99	2.7	57	7.8	1.3	3.0	4.1
OAC Laverne	6R	63.0	37.0	96	2.7	51	0.0	1.3	3.5	4.3
Amberly	6R	60.8	44.1	102	1.9	58	0.0	1.5	2.8	3.4
HY101-6R	6R	59.1	36.6	79	2.2	51	0.3	1.0	4.1	5.5
HY 460-6R	6R	62.3	40.1	83	1.8	54	0.0	2.0	2.8	4.0
Rhea	6R	64.1	43.9	98	2.0	57	8.0	3.0	3.6	3.3
Alyssa	6R	60.0	40.2	94	2.2	59	8.3	3.5	3.5	3.3
Rocket	6R	58.1	34.3	91	2.0	58	8.8	2.5	2.8	3.8
Means		61.5	41.0	92	2.6	55	2.1	1.5	3.8	4.4
Locations		2	2	3	3	3	1	1	3	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, Area 3

Cultivar	Class ¹	Thousand				Leaf Rust (0-9) ²	Spot Blotch (0-9) ²
		Test Weight (kg/hL)	Kernel Weight (g)	Height (cm)	Heading ³ (days)		
AC Parkhill	2R	66.5	46.1	74	50	0.0	6.3
Chief	2R	60.9	49.1	79	51	0.0	7.7
Bornholm	2R	68.4	46.2	67	51	0.0	4.7
HY 435-2R	2R	66.6	44.9	73	51	0.0	4.3
Pandora	2R	67.3	45.2	75	52	0.0	5.0
Bentley	2R	59.8	44.3	74	52	1.0	4.3
Encore	6R	60.4	41.8	79	55	0.0	9.0
OAC Kawartha	6R	59.2	43.9	78	49	0.0	9.0
Cyane	6R	61.2	46.3	83	54	0.0	1.3
Dignity	6R	63.2	43.9	82	52	2.0	6.7
HY 481-6R	6R	62.9	41.0	75	48	1.7	5.3
Corcy	6R	61.4	44.4	85	51	0.0	4.3
Yielder	6R	62.1	43.6	80	55	0.0	4.3
SYNABELLE	6R	60.5	46.1	89	52	0.0	5.7
OCEANIK	6R	61.3	43.6	82	54	0.0	4.7
SEDNA	6R	58.4	41.5	80	54	3.3	4.3
OAC Laverne	6R	64.3	42.0	79	51	0.0	6.0
Harmony	6R	61.4	44.0	89	55	0.0	4.3
Synasolis	6R	62.0	40.6	75	57	0.0	4.0
Raquel	6R	65.5	46.5	83	50	1.7	4.3
Amberly	6R	63.0	46.6	84	56	0.0	4.3
HY101-6R	6R	60.5	44.4	63	50	1.7	4.0
HY 460-6R	6R	63.8	40.8	70	51	0.0	5.0
Rhea	6R	63.8	43.3	76	55	0.0	6.0
Alyssa	6R	60.9	40.7	77	56	0.0	4.0
Rocket	6R	62.4	40.6	75	57	2.7	3.0
Means		62.6	43.9	78	53	0.5	5.1
Locations		3	3	2	2	1	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, Area 5/6

Cultivar	Class ¹	Test Weight (kg/hL)	Thousand		Lodging (0-9) ²	Heading ³ (days)	Maturity ³ (days)	Leaf Rust (0-9) ²	Barley Yellow Dwarf Virus (0-9) ²		Straw Yield Index
			Kernel Weight (g)	Height (cm)					Dwarf	Virus	
Bornholm	2R	66.3	48.4	74	0.5	57	89	1.8	2.5	98	
HY 435-2R	2R	65.0	46.6	82	2.0	58	89	2.0	2.2	98	
Pandora	2R	64.5	48.0	85	1.0	56	89	1.8	2.0	93	
Bentley	2R	60.1	45.2	82	1.3	57	89	2.3	2.1	93	
Encore	6R	60.2	44.1	91	0.8	58	93	2.3	1.3	119	
Cyane	6R	59.5	46.8	91	0.0	57	91	2.8	1.4	103	
HY 481-6R	6R	61.2	42.6	79	0.3	54	90	2.3	1.0	84	
Yielder	6R	59.8	45.0	96	1.3	59	91	2.3	1.6	105	
SYNABELLE	6R	60.6	48.0	94	1.5	56	91	1.8	1.8	118	
OCEANIK	6R	59.6	45.2	89	1.8	56	90	2.3	1.9	90	
Harmony	6R	60.8	46.4	96	0.3	59	92	2.3	2.0	113	
Synasolis	6R	60.2	43.8	82	0.5	60	92	1.8	1.0	91	
Amberly	6R	61.1	49.4	91	2.0	58	94	2.0	1.3	116	
HY101-6R	6R	60.5	45.1	73	0.3	54	89	3.0	1.4	75	
HY 460-6R	6R	62.2	43.0	79	0.3	56	91	2.0	1.4	91	
Rhea	6R	60.7	45.2	87	1.3	59	93	2.3	1.5	104	
Alyssa	6R	59.9	45.4	86	3.3	60	92	2.0	1.0	105	
Rocket	6R	60.2	41.4	86	1.5	60	93	2.0	1.5	104	
Means		61.2	45.5	86	1.1	57	91	2.1	1.6	4.37	
Locations		4	4	4	1	4	4	1	2	4	

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. Oat³ Cumulative Yield Index¹ 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 ²	4 yr	3 yr	2 yr	2011	5 yr ²	4 yr	3 yr	2 yr	2011	5 yr ²	4 yr	3 yr	2 yr	2011
Hulled															
Manotick	95	94	96	92	102	103	103	102	99	99					
OAC Markdale	98	98	98	99	105										
Prescott	90	90	90	85	97	95	93	94	98	88	103	104	103	104	108
Lachute	97	98	95	95	99	99	97	99	95	85	106	106	104	104	109
Robust	113	114	112	117	112	107	108	103	101	103	95	94	95	93	92
Bia											111	111	112	110	112
Canmore											108	106	106	107	111
RC Amaze	115	117	117	123	113	108	109	100	97	101	97	97	96	96	102
Synextra						95	94	97	104	98	100	101	99	99	95
Dieter							103	105	107	103		113	115	117	119
Avatar								102	102	102				109	108
Vitality									107	110				108	111
Bradley				112	111				107	109				100	96
CANTAL									117	118				109	109
Means (t/ha)	3.56	3.49	3.34	2.86	3.57	4.03	3.72	3.95	3.69	2.72	4.45	4.49	4.39	4.85	4.97
Means (bu/ac)	93.5	91.5	87.7	75.0	93.8	105.8	97.5	103.6	96.8	71.5	116.7	117.9	115.3	127.3	130.5
Hulless															
Navaro						89	93	87	86	93	74	74	75	74	70
AC Gwen				41	52				75	74				77	72
Means (t/ha)				1.75	2.12	2.96	2.81	2.82	2.66	2.22	3.30	3.33	3.37	3.51	3.50
Means (bu/ac)				45.9	55.7	77.8	73.8	74.1	69.7	58.2	86.5	87.4	88.5	92.0	91.8
Locations	17	14	10	6	3	10	8	6	4	2	16	14	11	7	4

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. 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 in the past 4 years, with some varieties being significantly impacted.

Table 6a - Ontario Oat Varietal Characteristics Based, Area 2/4

Cultivar	Class ¹	Test Weight (kg/hL)	Thousand		Heading ³ (days)	Height (cm)	Lodging (0-9) ²	Crown Rust (0-9) ²	Barley Yellow Dwarf Virus (0-9) ²	Leaf Septoria (0-9) ²
			Kernel Weight (g)	Kernel Weight (g)						
Manotick	yellow	41.4	31.6	57	107	0.5	5.4	4.5	3.1	
OAC Markdale	white	44.4	28.4	58	114	1.0	6.3	2.5	2.4	
Prescott	white	45.4	29.9	55	105	3.0	6.1	3.6	3.1	
Lachute	white	40.4	30.7	56	107	0.0	4.6	2.6	2.9	
Robust	white	44.6	26.4	59	101	0.0	4.1	3.9	2.6	
RC Amaze	white	44.2	33.2	55	105	0.0	3.9	4.9	2.3	
Bradley	white	42.0	30.2	60	112	4.0	5.8	2.5	2.1	
AC Gwen	hulless	48.8	21.7	61	112	5.5	6.5	1.6	3.0	
Means		43.9	29.0	58	108	1.8	5.3	3.3	2.7	
Locations		2	2	3	3	1	2	1	1	

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 6b - Ontario Oat Varietal Characteristics, Area 3

Cultivar	Class ¹	Thousand				Lodging (0-9) ²	Stem Rust (0-9) ²	Crown Rust (0-9) ²	Leaf Septoria (0-9) ²
		Test Weight (kg/hL)	Kernel Weight (g)	Heading ³ (days)	Height (cm)				
Manotick	yellow	47.4	38.3	51	79	0.3	7.0	5.3	0.0
Prescott	white	50.9	33.8	50	79	0.3	6.0	5.8	0.0
Lachute	white	46.1	33.9	51	83	0.0	4.5	6.0	1.0
Robust	white	53.9	33.6	53	76	0.0	4.0	5.6	0.0
RC Amaze	white	50.9	36.3	50	80	0.3	4.8	5.8	0.0
Synextra	white	53.8	36.1	56	97	0.8	5.5	6.1	0.0
Dieter	white	50.2	37.4	56	91	1.0	4.5	6.0	0.0
Avatar	yellow	51.8	34.6	54	87	0.8	4.5	5.9	0.0
Vitality	white	50.8	41.7	54	87	0.3	1.5	4.9	0.8
Bradley	white	52.0	38.1	54	86	0.0	1.3	5.0	0.0
CANTAL	white	53.9	36.9	55	106	1.5	3.5	5.3	3.5
Navaro	hulless	63.1	29.8	54	78	0.0	0.0	4.3	0.0
AC Gwen	hulless	51.4	25.2	56	93	1.0	4.5	6.4	0.0
Means		52.0	35.0	53	86	0.5	4.0	5.5	0.4
Locations		2	2	2	2	1	1	2	1

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, Area 5/6

Cultivar	Class ¹	Thousand					Barley Yellow Dwarf Virus (0-9) ²	Straw Yield Index
		Test Weight (kg/hL)	Kernel Weight (g)	Heading ³ (days)	Maturity ³ (days)	Height (cm)		
Prescott	white	48.5	36.7	54	93	89	2.0	86
Lachute	white	45.4	39.9	55	94	96	1.8	87
Robust	white	49.8	37.6	57	94	86	1.5	85
Bia	white	45.7	38.1	59	93	103	2.8	106
Canmore	white	47.0	43.3	59	93	102	2.5	103
RC Amaze	white	47.1	39.3	53	92	86	2.8	72
Synextra	white	47.2	39.6	58	92	109	3.5	122
Dieter	white	46.7	41.1	60	93	104	2.0	124
Avatar	yellow	46.5	40.7	59	93	96	2.3	80
Vitality	white	44.6	44.3	58	93	98	2.0	82
Bradley	white	44.9	39.5	58	93	96	1.8	108
CANTAL	white	47.8	40.1	58	91	114	3.0	114
Navaro	hulless	52.0	35.2	62	94	89	1.5	116
AC Gwen	hulless	47.9	38.2	59	96	99	2.3	114
Means		47.2	39.5	58	93	98	2.3	5.62
Locations		4	4	4	4	4	1	4

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

Class¹	Variety	Distributor
hrs	AC Brio (QW547-31)	C & M Seeds
	Norwell (B89-12-51-1248) (awned)	C & M Seeds
	Sable (CM2032) (awned)	C & M Seeds
	Orleans (BS98-581)	Synagri
	Megantic (BS00-708) (awned)	Synagri
	Kane (BW 342) (awned)	SeCan Association
	HY 124-HRS (SW124-029) (awned)	Hyland Seeds
	HY 017-HRS (98S017-01)	Hyland Seeds
	Touran	La Coop Fédérée
	Furano (BS03-244)	C & M Seeds
	MAJOR (BS03-250)	Synagri
	RICHELIEU (BS02-126) (awned)	Pedigrain
	Helios (PT211)	La Coop Fédérée
	Fuzion (W984-8767)	Semences Prograin Inc
	Glenn (awned)	C & M Seeds
	Wilkin (ACS54617)	C & M Seeds
efs	KINGSEY (01SW5.10)	Semican Inc
	Griffon (SQB004) (awned)	Semences du Quebec Ltee
	Carberry (BW 874) (awned)	SeCan Association
sd	MAGOG	Semican Inc
efs	HY 162-HRF (SW162-008) (awned)	Hyland Seeds
	Batiscan (01SW2.33) (awned)	Semican Inc
	Tokson (awned)	La Coop Fédérée
sd	Hallmark (ACS98735) (awned)	C & M Seeds

Notes:

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

Table 7b - Ontario Barley Distributors

Class¹	Variety	Distributor
2r	AC Kings (AB 159-10)	Bramhill Seeds
	AC Parkhill (OBT 186-13)	SeCan Association
	Formosa (CM 94534)	C & M Seeds
	Chief (CH 9202-32)	SeCan Association
	Bornholm (T367-032)	Hyland Seeds
	HY 435-2R (T435-036)	Hyland Seeds
6r	Pandora (T435-031)	Synagri
	Bentley	C & M Seeds
	Encore (AB183-5)	SeCan Association
	OAC Kawartha (GB006028)	SeCan Association
	Cyane (CFO142AA45)	La Coop Fédérée
	Dignity (CRB026039)	SeCan Association
	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 (OS00-12.16)	Pedigrain
	OAC Laverne (GB026019)	Bramhill Seeds
	Harmony (OS02-13,26)	Synagri
	Synasolis	Synagri
	Raquel (OS98-17,47)	Pedigrain
	Amberly (OS02-13,14)	PRO Seeds
	HY101-6R (GB036101)	Hyland Seeds
HY 460-6R (GB046001)	Hyland Seeds	
Rhea (UL097.8)	La Coop Fédérée	
Alyssa (UL138)	La Coop Fédérée	
Rocket (SQO005L)	Semences du Quebec Ltee	

Notes:

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

Table 7c - Ontario Oat Distributors

Class	Variety	Distributor
hulled	Manotick (OA 981-9)	SeCan Association
	OAC Markdale (GA 921021)	PRO Seeds
	Prescott (OA1021-1)	C & M Seeds
	Lachute (OA1046-3)	SeCan Association
	Robust (P973A38-9-3-27)	PRO Seeds
	Bia (CFA00137)	La Coop Fédérée
	Canmore	Semican Inc
	RC Amaze (P971A41-4-6-7)	PRO Seeds
	Synextra (98AS9.23)	Synagri
	Dieter (OA1063-8)	SeCan Association
	Avatar (SO04278)	Pedigrain
	Vitality	Synagri
hulless	Bradley (OA1176-1)	SeCan Association
	CANTAL	Semican Inc
hulless	Navaro	Semican Inc
	AC Gwen (OT297)	La Coop Fédérée