2010

Ontario Spring Cereal Performance Trials

www.gocereals.ca

Conducted by the

Ontario Cereal Crop Committee

current as of November 2010

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 2010.

ADDITIONAL INFORMATION

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

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Tables

Reference

Table 1: Spring Wheat Performance Trial Cumulative Yield Index[1] Summary

		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)				
Cultivar	**Class[2]**	**5 yr[3]**	**4 yr**	**3 yr**	**2 yr**	**2010**	**5 yr[3]**	**4 yr**	**3 yr**	**2 yr**	**2010**	**5 yr[3]**	**4 yr**	**3 yr**	**2 yr**	**2010**
AC Brio	HRS						102	101	99	104	107	101	102	103	105	104
Superb	HRS-a	95	92	92	91	89										
Norwell	HRS-a	105	104	106	108	112	100	100	98	98	96	106	105	104	97	100
Sable	HRS-a	109	110	111	111	103	100	101	102	104	104	102	103	103	102	100
Orleans	HRS						99	99	98	102	103	99	99	99	100	99
Megantic	HRS-a						97	97	95	92	88	100	102	100	97	92
Kane	HRS-a		93	90	90	89		93	91	88	88		92	92	91	95
HY 124-HRS	HRS-a		109	111	108	105		102	101	99	97		99	98	102	101
Touran	HRS				94	97		104	106	104	107		100	100	101	101
MAJOR	HRS								103	110	110			96	95	102
RICHELIEU	HRS-a								100	102	97			101	106	106
Helios	HRS			91	90	94			98	97	95			98	98	90
Glenn	HRS-a			97	95	90			92	86	92			98	94	94
KINGSEY	HRS									109	107				102	104
Carberry	HRS-a					91					93					95
MAGOG	HRS										102					102
HY 162-HRF	EFS-a			124	125	123			114	114	111			108	105	97
Batiscan	EFS-a								111	109	107			108	110	107
Tokson	EFS-a					103					105					99
Hallmark	SD-a	90	88	86	86	76					67					97
Means (t/ha)		3.37	3.40	3.31	3.14	2.88	3.18	2.98	2.73	2.82	2.65	3.58	3.71	3.82	3.97	3.91
Means (bu/ac)		50.1	50.5	49.3	46.6	42.8	47.2	44.2	40.5	41.9	39.4	53.2	55.2	56.8	59.0	58.1
Locations		18	15	12	8	4	19	15	11	7	4	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. 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)**	Test Weight (kg/hL)	Protein (%)	Thousand Kernel Weight (g)	Lodging (0-9)[3]	Height (cm)	Heading[4] (days)	Mildew (0-9)[3]	Leaf Septoria (0-9)[3]	Straw Break (0-9)[3]
Superb	HRS-a	HS	7	72.2	15.3	34.5	0.8	93	55	4.3	3.9	2.0
Norwell	HRS-a	MR	7	75.2	14.6	32.8	0.3	101	54	1.3	3.8	1.5
Sable	HRS-a	HS	6	72.7	15.0	33.2	0.1	86	55	1.9	3.4	0.0
Kane	HRS-a	MS	3	73.5	14.9	30.9	1.9	95	55	5.0	3.9	1.5
HY 124-HRS	HRS-a	HS	3	71.6	15.0	39.5	1.3	87	58	0.0	2.6	1.0
Touran	HRS	MS	3	73.5	14.8	39.0	1.3	107	57	6.3	4.4	2.5
Helios	HRS	S	2	72.6	15.5	33.0	2.3	101	54	6.3	4.7	3.0
Glenn	HRS-a	MS	2	77.2	14.7	30.9	0.0	91	52	5.0	3.9	1.0
Carberry	HRS-a	--	--	73.7	15.7	31.1	0.2	80	52	5.1	4.1	0.0
HY 162-HRF	EFS-a	HS	2	71.1	13.7	38.7	0.2	92	53	0.0	3.7	1.0
Tokson	EFS-a	--	--	73.8	13.8	34.5	0.2	79	56	0.3	3.2	0.5
Hallmark	SD-a	HS	4	67.6	15.5	32.9	0.5	76	58	1.4	3.4	1.0
Means				72.9	14.9	34.2	0.7	91	55	3.1	3.8	1.3
Locations				3	1	4	3	4	4	2	3	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 2010 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]	Straw Break (0-9)[3]	Straw Yield Index	
AC Brio	HRS	MS	7	71.6	15.6	35.7	3.0	100	51	2.3	7.4	1.8	0.3	102	
Norwell	HRS-a	MR	7	72.2	15.7	32.2	3.6	94	49	2.3	7.8	1.3	0.5	106	
Sable	HRS-a	HS	6	70.8	16.6	31.2	1.6	84	49	6.5	7.5	3.5	0.0	82	
Orleans	HRS	MS	5	71.2	15.2	35.8	3.0	96	52	2.0	7.9	1.3	0.0	90	
Megantic	HRS-a	MS	4	72.7	15.6	35.5	4.3	101	48	1.3	8.0	1.0	2.0	111	
Kane	HRS-a	MS	3	72.2	15.7	31.3	4.8	88	49	1.0	8.4	2.0	4.8	103	
HY 124-HRS	HRS-a	HS	3	70.5	16.0	35.9	4.1	86	52	1.5	6.1	2.0	4.8	95	
Touran	HRS	MS	3	71.4	15.2	38.3	2.3	96	51	1.5	7.9	1.8	0.1	108	
MAJOR	HRS	MR	2	72.4	14.8	34.7	4.6	101	57	2.8	6.1	0.3	3.1	104	
RICHELIEU	HRS-a	MS	1	70.7	15.7	36.0	4.8	99	52	4.0	8.1	1.5	3.4	111	
Helios	HRS	S	2	71.2	15.8	34.9	4.4	99	50	1.0	6.9	2.3	4.5	102	
Glenn	HRS-a	MS	2	73.6	15.4	29.9	2.1	84	48	0.3	7.5	2.3	1.3	69	
KINGSEY	HRS	MR	1	72.9	14.8	38.0	3.1	102	53	6.0	7.4	1.0	0.9	111	
Carberry	HRS-a	--	--	72.1	16.0	30.6	3.5	84	47	0.0	8.4	1.3	3.3	96	
MAGOG	HRS	--	--	71.3	15.6	35.5	3.5	96	52	1.8	7.9	1.5	1.6	99	
HY 162-HRF	EFS-a	HS	2	69.9	15.0	37.7	2.9	89	51	2.8	6.9	2.5	0.1	108	
Batiscan	EFS-a	MS	2	70.0	15.3	38.3	4.5	103	52	5.8	6.5	0.8	2.0	124	
Tokson	EFS-a	--	--	73.3	14.9	32.3	2.9	78	51	1.0	7.6	2.0	2.0	89	
Hallmark	SD-a	HS	4	66.2	15.7	31.6	5.9	73	53	0.3	7.7	1.8	9.0	88	
Means				71.4	15.5	34.5	3.6	92	51	2.3	7.5	1.7	2.3	3.01	t/ha
Locations				4	3	4	2	4	4	1	2	1	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 2010 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)	Lodging (0-9)[3]	Height (cm)	Heading[4] (days)	Maturity[4] (days)	Leaf Rust (0-9)[3]	Leaf Septoria (0-9)[3]	Barley Yellow Dwarf Virus (0-9)[3]	Straw Yield Index	
AC Brio	HRS	MS	7	72.2	38.7	1.0	93	65	105	1.3	1.7	1.0	106	
Norwell	HRS-a	MR	7	74.4	36.5	1.5	84	62	103	1.7	1.3	1.7	96	
Sable	HRS-a	HS	6	74.4	38.7	1.0	71	63	105	1.7	1.3	1.7	104	
Orleans	HRS	MS	5	72.5	39.5	1.0	90	65	107	2.0	2.0	1.0	89	
Megantic	HRS-a	MS	4	73.6	39.9	1.0	87	62	101	1.3	1.3	1.3	104	
Kane	HRS-a	MS	3	73.0	36.5	1.8	82	63	104	1.7	2.0	2.3	103	
HY 124-HRS	HRS-a	HS	3	71.9	43.0	1.0	80	66	106	1.3	1.7	1.3	116	
Touran	HRS	MS	3	73.6	42.7	1.0	89	65	104	2.3	1.7	1.3	104	
MAJOR	HRS	MR	2	73.1	39.8	1.0	92	68	109	1.7	1.7	1.3	111	
RICHELIEU	HRS-a	MS	1	71.2	40.3	2.5	93	67	104	1.3	1.7	1.3	108	
Helios	HRS	S	2	71.6	36.7	2.5	87	62	105	1.0	1.7	1.3	92	
Glenn	HRS-a	MS	2	75.3	35.6	1.3	78	61	106	2.0	1.7	1.7	83	
KINGSEY	HRS	MR	1	74.6	42.7	1.0	92	67	105	1.0	1.0	1.0	121	
Carberry	HRS-a	--	--	73.8	35.3	1.0	72	61	103	1.0	1.7	1.3	85	
MAGOG	HRS	--	--	71.9	38.9	1.3	90	64	104	2.0	1.0	1.7	99	
HY 162-HRF	EFS-a	HS	2	73.5	40.9	1.0	74	62	102	2.3	1.3	1.0	93	
Batiscan	EFS-a	MS	2	73.9	47.0	1.0	91	64	101	1.3	1.3	2.3	105	
Tokson	EFS-a	--	--	73.9	38.0	1.0	68	63	103	1.3	1.3	1.0	96	
Hallmark	SD-a	HS	4	71.2	37.6	1.0	65	67	106	1.3	1.3	2.0	87	
Means				73.1	39.4	1.3	83	64	104	1.6	1.5	1.5	5.06	t/ha
Locations				4	4	1	4	4	3	1	1	1	2	

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 2010 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 Performance Trial Cumulative Yield Index[1] 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	2010	5 yr[2]	4 yr	3 yr	2 yr	2010	5 yr[2]	4 yr	3 yr	2 yr	2010
2 Rowed															
AC Kings	98	98	98	97	97										
Formosa	95	94	93	91	91										
Chief	95	95	91	93	93	93	91	90	93	90					
Bornholm	98	97	96	97	98	98	97	96	97	96	101	102	101	100	96
HY 435-2R			100	102	99			101	101	98			102	100	100
Leader				94	95					93					
AC Parkhill					97					95					
Cerveza					93					87					101
6 Rowed															
AC Alma											99	100	100	101	94
Brucefield	104	107	108	110	107	100	101	102	103	104	101	100	99	103	101
Encore						107	106	105	104	107	104	103	103	103	104
OAC Cobourg	99	96	95	95	96										
OAC Kawartha	106	103	101	99	86	98	97	95	93	89					
Cyane	104	104	104	101	104	100	100	99	98	99	106	104	104	98	99
OAC Ripley	104	101	103	104	102					113					
Dignity	107	104	105	107	117										
HY 481-6R	106	107	108	107	103	102	102	104	102	104	103	103	103	104	109
Corcy					108	101	101	101	98	99					
Yielder	103	103	105	105	109	104	105	105	105	114	99	97	97	95	99
SYNABELLE						104	105	106	103	102		101	101	100	98
OCEANIK						105	105	103	106	100	100	100	100	101	92
SEDNA						97	97	95	100	99					
OAC Laverne	100	98	98	94	99			106	103	104					
Harmony							99	97	101	107		96	95	93	102
Synasolis							105	105	108	105		105	105	108	99
Raquel							99	100	102	100					
Amberly		101	99	97	98		100	99	100	103			98	100	96
HY101-6R			119	118	115			111	107	109			104	103	108
Alliance			106	104	110			107	105	113			98	99	100
HY 460-6R				104	96				107	110				109	108
Rhea				95	98				106	109				100	104
Means (t/ha)	4.63	4.56	4.46	4.30	4.23	3.87	3.87	3.60	3.67	3.16	4.23	4.42	4.45	4.58	4.85
Means (bu/ac)	68.9	67.8	66.3	63.9	62.8	57.6	57.5	53.6	54.5	46.9	62.9	65.8	66.2	68.1	72.1
Locations	18	14	11	7	3	13	11	9	6	3	13	11	9	6	2

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]	Test Weight (kg/hL)	Thousand Kernel Weight (g)	Height (cm)	Straw Break (0-9)[2]	Heading[3] (days)	Mildew (0-9)[2]	Net Blotch (0-9)[2]	Spot Blotch (0-9)[2]
AC Kings	2R	63.2	46.0	97	3.1	56	1.8	6.3	3.5
AC Parkhill	2R	65.1	45.8	82	3.7	56	0.0	6.3	5.3
Formosa	2R	63.0	41.3	78	4.0	56	0.0	6.3	4.5
Chief	2R	57.9	46.5	85	5.9	56	0.0	6.8	4.0
Bornholm	2R	65.1	43.4	80	3.1	56	0.0	5.5	5.5
HY 435-2R	2R	64.4	41.1	85	3.8	56	0.0	5.8	4.5
Leader	2R	63.8	48.7	87	1.9	55	0.3	6.0	4.5
Cerveza	2R	59.6	40.3	79	2.7	58	3.5	4.3	3.0
Brucefield	6R	60.5	38.1	85	2.4	53	8.0	6.2	3.8
OAC Cobourg	6R	63.1	40.7	94	1.9	54	0.0	6.3	5.5
OAC Kawartha	6R	54.3	39.5	91	4.5	53	0.0	8.0	6.8
Cyane	6R	59.4	43.9	96	1.5	57	6.8	4.0	3.8
OAC Ripley	6R	61.0	38.5	87	2.1	55	0.0	4.7	3.3
Dignity	6R	61.5	42.1	92	1.3	56	0.0	5.0	3.8
HY 481-6R	6R	60.2	39.3	85	3.5	53	5.0	6.3	5.3
Corcy	6R	60.0	42.4	98	1.4	56	7.8	4.0	2.3
Yielder	6R	61.0	40.4	99	0.9	59	8.3	4.5	2.8
OAC Laverne	6R	64.1	39.6	90	1.8	54	0.0	6.2	3.8
Amberly	6R	58.3	42.9	97	2.5	58	5.5	5.3	3.8
HY101-6R	6R	60.5	45.0	77	0.9	53	0.0	4.2	4.3
Alliance	6R	61.7	39.7	90	2.3	54	0.0	5.8	3.0
HY 460-6R	6R	61.8	39.6	79	0.0	55	0.0	5.1	4.3
Rhea	6R	58.1	38.8	93	2.9	58	8.3	5.3	2.8
Means		61.2	41.9	88	2.5	56	2.4	5.6	4.1
Locations		3	4	4	4	4	1	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 4b: Ontario Spring Barley Varietal Characteristics, Area 3

Cultivar	Class[1]	Test Weight (kg/hL)	Thousand Kernel Weight (g)	Height (cm)	Lodging (0-9)[2]	Heading[3] (days)	Straw Yield Index	
AC Parkhill	2R	62.6	45.0	73	4.0	55	90	
Chief	2R	56.7	49.3	78	5.0	57	113	
Bornholm	2R	64.8	44.8	67	2.3	56	97	
HY 435-2R	2R	63.5	41.7	74	3.5	55	107	
Leader	2R	62.6	47.1	81	3.0	55	99	
Cerveza	2R	54.9	40.5	71	3.3	59	102	
Brucefield	6R	59.5	40.9	75	4.0	54	65	
Encore	6R	57.5	37.2	93	3.8	57	114	
OAC Kawartha	6R	56.1	43.2	81	4.5	53	102	
Cyane	6R	60.1	45.1	88	3.3	58	98	
OAC Ripley	6R	61.0	38.1	76	2.3	55	104	
HY 481-6R	6R	60.0	39.8	74	4.8	54	118	
Corcy	6R	59.4	40.5	91	3.5	56	95	
Yielder	6R	59.8	42.2	95	2.8	58	117	
SYNABELLE	6R	59.4	44.2	87	4.0	56	99	
OCEANIK	6R	56.8	38.6	81	4.0	57	113	
SEDNA	6R	56.5	40.8	86	3.5	58	81	
OAC Laverne	6R	61.8	36.6	82	3.8	55	97	
Harmony	6R	59.4	44.5	96	3.0	58	130	
Synasolis	6R	56.5	37.0	78	3.3	60	85	
Raquel	6R	62.2	43.8	84	4.0	57	95	
Amberly	6R	58.4	42.8	87	3.0	58	128	
HY101-6R	6R	57.7	42.2	62	3.3	53	76	
Alliance	6R	60.7	40.2	80	2.8	55	89	
HY 460-6R	6R	60.7	41.2	68	1.3	56	98	
Rhea	6R	59.3	44.3	86	2.8	58	90	
Means		59.5	42.0	81	3.4	56	2.53	t/ha
Locations		3	3	2	1	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, Area 5/6

Cultivar	Class[1]	Test Weight (kg/hL)	Thousand Kernel Weight (g)	Height (cm)	Lodging (0-9)[2]	Heading[3] (days)	Maturity[3] (days)	Leaf Rust (0-9)[2]	Barley Yellow Dwarf Virus (0-9)[2]	Spot Blotch (0-9)[2]	Straw Yield Index	
Bornholm	2R	64.3	45.3	66	1.3	64	95	1.5	1.5	3.8	100	
HY 435-2R	2R	63.5	43.8	71	2.0	64	95	2.0	2.0	2.8	106	
Cerveza	2R	59.7	44.0	67	1.7	67	96	1.8	1.8	2.3	113	
AC Alma	6R	56.4	41.3	76	1.8	63	96	2.3	1.0	3.3	87	
Brucefield	6R	59.4	40.0	72	2.3	60	95	1.5	1.0	3.0	79	
Encore	6R	57.2	41.2	82	1.8	65	98	2.5	1.0	2.8	123	
Cyane	6R	58.9	44.6	84	1.1	66	96	1.5	1.0	2.5	107	
HY 481-6R	6R	59.2	39.7	72	3.8	60	95	1.5	1.3	2.8	80	
Yielder	6R	58.3	44.4	82	0.6	66	96	2.0	1.8	2.5	105	
SYNABELLE	6R	58.5	45.7	83	1.5	64	97	1.8	1.5	2.8	95	
OCEANIK	6R	56.6	41.2	79	1.6	65	96	1.5	1.5	3.0	97	
Harmony	6R	58.7	43.9	89	1.0	65	98	2.8	1.0	3.5	133	
Synasolis	6R	57.7	40.0	77	1.7	67	97	1.0	1.3	3.3	105	
Amberly	6R	59.0	45.2	85	2.4	66	96	2.3	1.0	3.3	103	
HY101-6R	6R	57.0	43.8	63	1.6	60	95	1.3	1.0	2.5	65	
Alliance	6R	61.3	39.1	80	2.4	61	96	2.5	1.3	2.8	94	
HY 460-6R	6R	60.9	40.3	70	0.8	62	96	1.0	1.0	2.5	97	
Rhea	6R	58.5	43.5	82	1.1	65	97	2.8	1.8	2.8	112	
Means		59.2	42.6	77	1.7	64	96	1.8	1.3	2.9	5.18	t/ha
Locations		4	4	4	4	4	3	1	1	1	2	

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: Spring Oat Performance Trial Cumulative Yield Index[1] 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[3]	2 yr[3]	2010[3]	5 yr[2]	4 yr	3 yr[3]	2 yr[3]	2010[3]	5 yr[2]	4 yr	3 yr[3]	2 yr[3]	2010[3]
Hulled															
Manotick	97	94	92	93	81	106	104	105	103	99					
OAC Markdale	96	97	96	96	92										
Alcyon	95	93	93	88	81						102	99	100	100	102
Sherwood	102	94	91	86	75	104	98	95	99	103	105	103	103	102	98
Prescott	96	88	88	87	73	108	97	95	97	109	102	102	102	100	99
Lois											105	104	104	102	104
Lachute	99	96	97	94	91	109	102	101	106	105	104	105	105	101	98
Robust	114	113	115	112	123	113	108	109	103	99	95	95	95	96	93
Bia											110	111	110	112	108
Canmore											107	107	104	104	103
RC Amaze		116	119	119	133		110	112	100	93		95	95	93	89
Synextra							94	92	97	111		102	103	102	104
Dieter								102	107	111			111	112	113
Oscar				102	101				107	105				100	101
OA1174-3				113	124				102	101				95	102
Vitality										103					103
Bradley					112					105					107
CANTAL										116					108
Means (t/ha)	3.88	3.56	3.46	3.26	2.31	4.06	4.36	4.06	4.54	4.54	4.06	4.28	4.31	4.09	4.72
Means (bu/ac)	57.7	52.9	51.5	48.5	34.3	60.4	64.9	60.4	67.5	67.5	60.4	63.7	64.1	60.9	70.2
Hulless															
Navaro							88	92	84	78		76	76	78	79
AC Gwen					30					75					84
Means (t/ha)					1.38		3.34	3.21	3.42	3.24		3.16	3.19	3.21	3.52
Means (bu/ac)					20.5		49.6	47.7	50.9	48.1		46.9	47.4	47.8	52.3
Locations	18	14	11	7	3	10	8	6	4	2	16	12	10	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. 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 3 years, with some varieties being significantly impacted.

Table 6a: Ontario Spring Oat Varietal Characteristics, Area 2/4

Cultivar	Class[1]	Test Weight (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]	Leaf Septoria (0-9)[2]	Stem Break (0-9)[2]
Manotick	yellow	35.5	32.1	56	100	5.4	2.3	6.8	3.7	6.3
OAC Markdale	white	40.3	27.8	60	109	4.7	2.0	4.6	1.7	7.5
Alcyon	white	36.8	29.2	60	106	5.0	2.8	6.0	2.3	5.8
Sherwood	white	35.6	28.7	58	97	5.5	2.5	6.8	4.3	8.3
Prescott	white	38.0	26.8	56	96	5.1	1.8	7.0	3.3	6.2
Lachute	white	35.2	27.3	58	104	5.8	2.0	6.5	3.0	6.8
Robust	white	41.5	29.0	59	98	1.8	2.8	2.7	2.3	2.9
RC Amaze	white	43.2	30.8	56	100	4.4	3.0	1.9	2.0	6.9
Oscar	white	40.1	31.8	56	99	5.9	1.5	5.5	3.3	6.9
OA1174-3	white	40.9	32.6	58	110	4.6	2.5	3.5	2.0	5.1
Bradley	white	39.0	31.6	60	105	1.5	1.8	3.4	2.3	3.3
AC Gwen	hulless	47.8	23.5	64	104	4.6	2.5	5.3	3.0	5.7
Means		39.5	29.3	58	102	4.5	2.3	5.0	2.8	6.0
Locations		3	3	4	4	4	1	2	1	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 6b: Ontario Spring Oat Varietal Characteristics, Area 3

Cultivar	Class[1]	Test Weight (kg/hL)	Thousand Kernel Weight (g)	Heading[3] (days)	Height (cm)	Lodging (0-9)[2]	Crown Rust (0-9)[2]	Straw Yield Index	
Manotick	yellow	44.0	38.2	63	88	7.0	1.0	78	
Sherwood	white	48.6	39.3	62	87	7.0	0.0	76	
Prescott	white	50.4	34.4	61	91	7.5	1.0	86	
Lachute	white	46.3	35.6	63	101	7.3	0.7	78	
Robust	white	50.5	33.5	63	84	6.8	0.0	99	
RC Amaze	white	48.2	35.9	63	84	7.0	0.0	90	
Synextra	white	53.2	37.5	64	113	7.3	3.0	103	
Dieter	white	48.5	39.5	65	103	7.3	0.7	90	
Oscar	white	49.6	35.9	62	89	7.0	0.0	75	
OA1174-3	white	49.6	39.9	62	103	7.0	0.0	98	
Vitality	white	49.9	40.9	64	96	7.3	1.0	98	
Bradley	white	49.1	36.0	64	98	6.5	0.0	128	
CANTAL	white	52.1	37.8	65	118	7.3	1.0	121	
Navaro	hulless	60.6	25.9	65	88	2.0	0.0	164	
AC Gwen	hulless	53.4	29.0	65	102	7.0	1.3	116	
Means		50.3	36.0	63	96	6.7	0.6	3.46	t/ha
Locations		2	2	2	2	1	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 6c: Ontario Spring Oat Varietal Characteristics, Area 5/6

Cultivar	Class[1]	Test Weight (kg/hL)	Thousand Kernel Weight (g)	Heading[3] (days)	Maturity[3] (days)	Height (cm)	Lodging (0-9)[2]	Barley Yellow Dwarf Virus (0-9)[2]	Leaf Septoria (0-9)[2]	Straw Yield Index	
Alcyon	white	43.9	40.5	63	99	98	4.1	3.3	2.3	110	
Sherwood	white	44.7	41.6	60	99	83	3.6	2.8	3.0	100	
Prescott	white	45.7	36.1	59	98	83	3.5	3.0	2.8	92	
Lois	white	40.9	43.6	61	101	90	4.2	2.8	3.0	95	
Lachute	white	42.4	38.7	62	97	90	3.9	2.3	3.0	94	
Robust	white	45.2	33.7	62	97	78	1.4	2.3	2.3	65	
Bia	white	43.3	34.4	66	97	91	3.8	4.0	2.5	97	
Canmore	white	47.9	41.7	65	99	96	3.5	3.3	2.3	108	
RC Amaze	white	41.4	38.2	60	99	85	3.7	2.5	2.3	74	
Synextra	white	47.3	39.9	65	97	100	2.7	3.5	2.5	106	
Dieter	white	43.9	41.1	67	97	98	4.1	4.0	2.5	106	
Oscar	white	45.7	39.5	60	97	82	4.1	3.0	2.5	94	
OA1174-3	white	44.5	40.7	61	102	95	4.2	2.5	2.5	102	
Vitality	white	44.1	42.7	64	98	90	3.4	3.0	2.0	105	
Bradley	white	43.0	39.4	64	100	90	3.1	1.8	2.3	107	
CANTAL	white	47.1	40.5	65	98	101	5.0	3.0	2.0	122	
Navaro	hulless	54.2	33.5	67	98	84	0.5	2.8	2.3	115	
AC Gwen	hulless	51.3	36.7	66	103	96	3.8	2.5	2.8	108	
Means		45.4	39.0	63	99	91	3.5	2.9	2.5	4.8	t/ha
Locations		4	4	4	2	4	4	1	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 7a: Ontario Spring Wheat Distributors, 2010

Class[1]	Variety	Distributor
hrs	AC Brio (QW547-31)	C & M Seeds
	Superb (BW252) (awned)	SeCan Association
	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
	Touran	La Coop Fédérée
	MAJOR (BS03-250)	Synagri
	RICHELIEU (BS02-126) (awned)	Pedigrain
	Helios (PT211)	La Coop Fédérée
	Glenn (awned)	C & M Seeds
	KINGSEY (01SW5.10)	Semican Inc
	Carberry (BW 874) (awned)	SeCan Association
	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 Spring Barley Distributors, 2010

Class[1]	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
	Leader (CH9622-7)	Eastern Grains Inc
	Cerveza (BM9831D-290)	AAFC (Barley Group)
6r	AC Alma (AB151)	Advantage Seed Growers
	Brucefield (OS93-709)	Hyland Seeds
	Encore (AB183-5)	SeCan Association
	OAC Cobourg (ADB006055)	Advantage Seed Growers
	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 (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
	Alliance (GB046034)	Advantage Seed Growers
	HY 460-6R (GB046001)	Hyland Seeds
	Rhea (UL097.8)	La Coop Fédérée

Notes:

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

Table 7c: Ontario Spring Oat Distributors, 2010

Class	Variety	Distributor
hulled	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
	Canmore	Semican Inc
	RC Amaze (P971A41-4-6-7)	PRO Seeds
	Synextra (98AS9.23)	Synagri
	Dieter (OA1063-8)	SeCan Association
	Oscar (Bailey)	Advantage Seed Growers
	OA1174-3	Hyland Seeds
	Vitality	Synagri
	Bradley (OA1176-1)	SeCan Association
	CANTAL	Semican Inc
hulless	Navaro	Semican Inc
	AC Gwen	La Coop Fédérée