
2014

Ontario Winter Wheat Performance Trials

Data collected 2010-2014
www.gocereals.ca



Conducted by the Ontario Cereal Crop Committee

Current as of March 1, 2015

Ontario Winter Wheat Performance Trials

This report has been prepared by the Ontario Cereal Crop Committee and contains the most recent varietal information on winter wheat that was planted in 2013 and harvested in 2014.

ADDITIONAL INFORMATION

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

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

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**Table 1 - Ontario Winter Wheat Performance Trial; Cumulative Yield Index¹
Summary for Area I & II Combined², OCCC, August 2014**

Class³	Variety	5 year	4 year	3 year	2 year	2014
sww	Ava	103 ⁴	103	102	102	102
	E0028W	98	97	96	93	100
	Venture		98	96	95	96
srw	Emmit	105	105	104	105	102
	R045	101	100	100	99	97
	PH55	103	104	102	102	100
	Branson	107	107	105	105	101
	HY 116-SRW	101	100	99	98	95
	Wave	105	104	104	104	100
	CM614	103	103	103	102	102
	WB425 (awned)		106	104	104	101
	CM249 (awned)		107	107	105	101
	OAC Flight (awned)		103	102	103	105
	25R34 (awned)			110	111	108
	25R40 (awned)			109	108	105
	HY 412-SRW			101	102	99
	Emperor			103	105	101
	Marker				104	107
UGRC Ring (awned)				103	105	
hww	Whitebear (awned)		95	92	89	86
hrw	AC Morley	97	98	98	99	95
	Wentworth	99	98	98	99	99
	Princeton	97	97	98	98	98
	Keldin (awned)	99	100	101	99	102
	Priesley	105	104	103	103	107
	AC Sampson		94	95	94	98
	Gallus (awned)		99	98	100	98
	HY 301-HRW			99	100	102
	Benefit				98	93
Means (t/ha)		5.65	5.68	5.58	5.65	6.30
Means (bu/ac)		84.1	84.4	82.9	84.0	93.7
Locations		31	24	18	11	4

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 Area I and II combined: see map of areas on www.gocereals.ca/variety_trial.php.

³ sww = soft white winter, srw = soft red winter, hww = hard white winter, hrw = hard red winter.

⁴ Cultivar yield rankings may vary from year to year. Decisions are therefore best made using data with the greatest number of years.

**Table 1a - Ontario Winter Wheat Performance Trial - Cumulative Yield Indices¹, Managed trials
Summary for Area I & II Combined², OCCC, August 2014**

Class ³	Variety	5-Year Index Fungicides		4-Year Index Fungicides		3-Year Index Fungicides		2-Year Index Fungicides		2014 Index Fungicides	
		No	Yes	No	Yes	No	Yes	No	Yes	No	Yes
sww	Ava	98 ⁴	105	98	105	97	106	97	106	98	108
	E0028W	94	108	94	108	92	108	90	105	97	106
	Venture			94	105	91	103	90	103	94	103
srw	Emmit	99	106	99	106	99	106	100	106	98	101
	R045	97	107	96	107	95	107	94	106	94	106
	PH55	99	104	99	105	98	104	98	105	97	103
	Branson	101	110	102	110	101	109	100	109	99	108
	HY 116-SRW	95	103	95	103	93	102	92	103	93	99
	Wave	99	105	99	105	99	105	98	104	96	96
	CM614	99	107	99	108	98	108	98	108	98	104
	WB425 (awned)			100	106	99	106	99	106	98	105
	CM249 (awned)			102	108	102	109	100	108	98	102
	OAC Flight (awned)			99	109	98	109	99	109	103	110
	25R34 (awned)					105	117	106	116	105	112
	25R40 (awned)					105	115	104	114	103	110
	Emperor					99	106	100	105	100	103
	Marker							99	109	105	110
UGRC Ring (awned)							99	112	102	112	
HY 412-SRW									95	104	
hww	Whitebear (awned)			88	99	86	98	84	96	84	92
hrw	AC Morley	93	99	94	100	93	101	94	103	92	99
	Wentworth	93	101	92	101	92	102	94	104	95	104
	Princeton	94	103	93	104	94	105	95	106	95	105
	Keldin (awned)	96	105	96	105	97	106	95	106	100	106
	Priesley	100	107	100	107	99	106	98	107	104	106
	AC Sampson			91	97	91	97	90	97	96	95
	Gallus (awned)			94	99	93	99	95	100	97	96
	HY 301-HRW					95	98	96	99	98	95
Benefit							93	99	89	94	
LSD (0.10)		3		4		5		5		7	
Means (t/ha)	5.72	6.31	5.76	6.34	5.58	6.16	5.51	6.09	6.28	6.70	
Means (bu/ac)	85.1	93.8	85.7	94.3	83.0	91.6	81.9	90.6	93.4	99.6	
Location-years		21		17		13		10		4	

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 Area I and II combined: see map of areas on www.gocereals.ca/variety_trial.php.

³ sww = soft white winter, srw = soft red winter, hww = hard white winter, hrw = hard red winter.

⁴ Cultivar yield rankings may vary from year to year. Decisions are therefore best made using data with the greatest number of years.

Fungicide treatments included a T1 application of foliar fungicide at Zadoks Growth Stage 30 to 31, followed by a T3 application of fusarium fungicide during flowering.

The OCCC is thankful to the Grain Farmers of Ontario, BASF, Bayer and Syngenta for their financial support towards the managed trials.

**Table 2 - Ontario Winter Wheat Performance Trial; Cumulative Yield Index¹
Summary for Area I², OCCC, August 2014**

Class ³	Variety	5 year	4 year	3 year	2 year	2014
sww	Ava	103 ⁴	102	101	100	99
	E0028W	100	99	98	99	102
	Venture		100	97	97	98
srw	Emmit	104	103	102	104	102
	R045	102	99	98	97	96
	PH55	101	102	101	100	95
	Branson	103	104	103	101	100
	HY 116-SRW	101	102	100	103	106
	Wave	104	105	106	102	97
	CM614	105	105	105	104	100
	WB425 (awned)		103	102	97	97
	CM249 (awned)		109	110	108	104
	OAC Flight (awned)		102	102	104	111
	25R34 (awned)			113	110	106
	25R40 (awned)			112	109	109
	HY 412-SRW			103	103	100
	Emperor			101	100	102
	Marker				103	106
	UGRC Ring (awned)				105	105
25R46 (awned)					110	
hww	Whitebear (awned)		93	90	91	89
hrw	AC Morley	98	99	98	98	94
	Wentworth	99	98	98	100	100
	Princeton	97	97	98	101	98
	Keldin (awned)	100	100	100	100	99
	Priesley	103	102	102	100	97
	AC Sampson		93	93	94	96
	Gallus (awned)		95	93	97	96
	HY 301-HRW			100	100	97
	Benefit				97	93
Means (t/ha)		5.63	5.54	5.39	5.88	6.60
Means (bu/ac)		83.7	82.4	80.2	87.5	98.2
Locations		14	11	8	5	2

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 Area I: see map of areas on www.gocereals.ca/variety_trial.php.

³ sww = soft white winter, srw = soft red winter, hww = hard white winter, hrw = hard red winter.

⁴ Cultivar yield rankings may vary from year to year. Decisions are therefore best made using data with the greatest number of years.

**Table 2a - Ontario Winter Wheat Performance Trial - Cumulative Yield Indices¹, Managed trials
Summary for Area I², OCCC, August 2014**

Class ³	Variety	5-Year Index Fungicides		4-Year Index Fungicides		3-Year Index Fungicides		2-Year Index Fungicides		2014 Index Fungicides	
		No	Yes	No	Yes	No	Yes	No	Yes	No	Yes
sww	Ava	98 ⁴	103	97	102	96	102	97	103	97	104
	E0028W	98	108	97	108	96	107	95	104	99	108
	Venture			96	107	92	103	94	103	95	103
srw	Emmit	100	106	99	105	99	105	100	104	100	99
	R045	98	108	96	107	94	106	93	105	93	103
	PH55	98	104	99	105	98	103	96	101	93	100
	Branson	99	108	101	108	100	108	98	104	97	104
	HY 116-SRW	98	103	100	105	98	103	100	105	103	107
	Wave	100	108	102	108	101	109	99	105	95	100
	CM614	101	108	101	109	101	109	101	108	97	104
	WB425 (awned)			96	104	95	102	94	102	95	103
	CM249 (awned)			105	111	106	111	105	109	102	107
	OAC Flight (awned)			101	111	100	110	100	110	109	112
	25R34 (awned)					108	117	106	114	104	109
	25R40 (awned)					109	119	106	114	107	112
	Emperor					98	104	97	103	100	103
	Marker							100	104	103	103
	UGRC Ring (awned)							101	107	103	108
HY 412-SRW									98	102	
25R46 (awned)									107	109	
hww	Whitebear (awned)			87	97	85	95	87	96	86	94
hrw	AC Morley	94	97	95	98	94	98	95	100	91	96
	Wentworth	94	100	94	100	94	101	97	104	97	105
	Princeton	93	100	93	99	95	101	98	103	95	99
	Keldin (awned)	96	105	96	104	96	104	97	104	97	103
	Priesley	98	108	98	106	96	105	97	106	94	102
	AC Sampson			91	96	90	96	91	96	94	96
	Gallus (awned)			91	97	90	95	94	99	94	99
	HY 301-HRW					96	101	96	101	94	98
	Benefit							94	99	90	96
LSD (0.10)		5		5		6		6		6	
Means (t/ha)	5.87	6.43	5.85	6.36	5.65	6.15	5.88	6.37	6.60	7.04	
Means (bu/ac)	87.3	95.6	87.0	94.6	84.0	91.5	87.4	94.8	98.2	104.8	
Location-Years		10		8		6		5		2	

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 Area I: see map of areas on www.gocereals.ca/variety_trial.php.

³ sww = soft white winter, srw = soft red winter, hww = hard white winter, hrw = hard red

⁴ Cultivar yield rankings may vary from year to year. Decisions are therefore best made using data with the greatest number of years.

Fungicide treatments included a T1 application of foliar fungicide at Zadoks Growth Stage 30 to 31, followed by a T3 application of fusarium fungicide during flowering.

The OCCC is thankful to the Grain Farmers of Ontario, BASF, Bayer and Syngenta for their financial support towards the managed trials.

Table 3 - Ontario Winter Wheat Performance Trial; Cumulative Yield Index¹
Summary for Area II², OCCC, August 2014

Class ³	Variety	5 year	4 year	3 year	2 year	2014
sww	Ava	104 ⁴	103	104	103	105
	E0028W	96	94	94	89	98
	Venture		97	95	92	95
srw	Emmit	106	106	105	107	102
	R045	101	101	102	100	98
	PH55	104	105	103	104	105
	Branson	110	109	107	109	103
	HY 116-SRW	101	98	98	94	84
	Wave	105	103	103	106	102
	CM614	101	100	101	101	104
	WB425 (awned)		108	106	110	105
	CM249 (awned)		105	105	103	97
	OAC Flight (awned)		103	102	102	99
	25R34 (awned)			108	111	109
	25R40 (awned)			106	108	102
	HY 412-SRW			100	101	97
	Emperor			105	109	100
	Marker				105	108
UGRC Ring (awned)				103	104	
hww	Whitebear (awned)		97	93	87	82
hrw	AC Morley	97	97	98	99	95
	AC Sampson	97	95	96	95	99
	Wentworth	100	98	98	98	98
	Princeton	97	98	99	96	98
	Keldin (awned)	99	101	102	98	105
	Priesley	107	105	105	105	117
	Gallus (awned)		102	101	102	101
	HY 301-HRW			99	100	107
	Benefit				99	93
Means (t/ha)		5.67	5.79	5.73	5.45	6.00
Means (bu/ac)		84.4	86.1	85.2	81.0	89.1
Locations		17	13	10	6	2

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 Area II: see map of areas on www.gocereals.ca/variety_trial.php.

³ sww = soft white winter, srw = soft red winter, hww = hard white winter, hrw = hard red winter.

⁴ Cultivar yield rankings may vary from year to year. Decisions are therefore best made using data with the greatest number of years.

**Table 3a - Ontario Winter Wheat Performance Trial - Cumulative Yield Indices¹, Managed Trials
Summary for Area II², OCCC, August 2014**

Class ³	Variety	5-Year Index Fungicides		4-Year Index Fungicides		3-Year Index Fungicides		2-Year Index Fungicides		2014 Index Fungicides	
		No	Yes	No	Yes	No	Yes	No	Yes	No	Yes
sww	Ava	98 ⁴	108	98	108	98	110	96	110	100	112
	E0028W	92	107	91	108	89	108	84	107	94	105
	Venture			91	103	89	102	87	103	94	102
srw	Emmit	99	106	99	107	98	107	99	108	96	103
	R045	96	107	96	107	96	107	94	107	95	109
	PH55	99	105	100	106	99	106	99	108	102	106
	Branson	103	111	103	111	102	111	102	114	101	112
	HY 116-SRW	93	103	91	102	89	101	85	101	82	90
	Wave	97	103	97	103	97	103	98	102	97	93
	CM614	97	106	97	107	96	108	95	108	99	103
	WB425 (awned)			103	109	103	109	104	110	100	106
	CM249 (awned)			99	106	99	108	96	107	95	98
	OAC Flight (awned)			98	108	97	108	97	109	96	108
	25R34 (awned)					103	117	105	118	106	116
	25R40 (awned)					101	112	101	114	99	107
	Emperor					101	108	103	108	100	104
	Marker							99	114	106	117
	UGRC Ring (awned)							96	116	101	115
HY 412-SRW									93	107	
hww	Whitebear (awned)			89	101	86	100	82	96	81	91
hrw	AC Morley	92	100	93	102	93	103	92	106	93	102
	AC Sampson	93	100	91	98	91	99	89	98	97	93
	Wentworth	93	102	91	102	91	104	90	104	94	102
	Princeton	94	106	94	107	93	108	91	109	95	112
	Keldin (awned)	96	105	97	106	97	107	93	108	103	109
	Priesley	102	107	101	107	101	107	100	108	113	111
	Gallus (awned)			96	102	95	102	96	101	100	93
	HY 301-HRW					94	96	95	96	102	92
	Benefit						92	99	88	92	
LSD (0.10)		5		6		7		9		12	
Means (t/ha)		5.59	6.20	5.69	6.32	5.52	6.17	5.13	5.81	5.94	6.34
Means (bu/ac)		83.2	92.2	84.6	94.0	82.1	91.8	76.3	86.4	88.4	94.3
Location-Years		11		9		7		5		2	

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 Area II: see map of areas on www.gocereals.ca/variety_trial.php.

³ sww = soft white winter, srw = soft red winter, hww = hard white winter, hrw = hard red winter.

⁴ Cultivar yield rankings may vary from year to year. Decisions are therefore best made using data with the greatest number of years.

Fungicide treatments included a T1 application of foliar fungicide at Zadoks Growth Stage 30 to 31, followed by a T3 application of fusarium fungicide during flowering.

The OCCC is thankful to the Grain Farmers of Ontario, BASF, Bayer and Syngenta for their financial support towards the managed trials.

**Table 4 - Ontario Winter Wheat Performance Trial; Cumulative Yield Index¹
Summary for Area III², OCCC, August 2014**

Class ³	Variety	5 year	4 year	3 year	2 year	2014
sww	Ava	103 ⁴	103	103	103	101
srw	Emmit	103	104	103	101	99
	Branson	103	103	105	104	104
	HY 116-SRW	102	101	101	99	100
	CM614	104	103	104	108	106
	WB425 (awned)		101	102	103	99
	CM249 (awned)		102	102	106	104
	HY 412-SRW			101	104	98
	Emperor			98	99	99
	OAC Flight (awned)			100	94	95
	Marker				102	103
	UGRC Ring (awned)				104	103
	25R34 (awned)					102
	25R40 (awned)					106
	hrw	AC Morley	95	95	94	97
AC Sampson		98	98	98	99	97
Wentworth		98	97	96	98	102
Benefit		94	95	94	97	97
Princeton		97	94	93	93	97
Keldin (awned)		99	98	99	104	104
Gallus (awned)			101	102	102	99
Priesley				107	106	110
HY 301-HRW			95	89	92	
Means (t/ha)		6.23	6.32	6.33	5.98	5.38
Means (bu/ac)		92.6	94.0	94.1	89.0	80.0
Locations		11	8	6	3	2

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 Area III: see map of areas on www.gocereals.ca/variety_trial.php.

³ sww = soft white winter, srw = soft red winter, hww = hard white winter, hrw = hard red winter.

⁴ Cultivar yield rankings may vary from year to year. Decisions are therefore best made using data with the greatest number of years.

**Table 5a - Ontario Winter Wheat Performance Trials; Varietal Characteristics Based on Data from Area I
OCCC, August 2014**

Variety	Fusarium Rating ¹	Years (fusarium Data)	Test Weight (kg/hL)	Protein (%)	Thousand Kernel Weight (g)	Winter Survival (%)	Lodging (0-9) ²	Height (cm)	Heading Date ³ (JD)	Leaf Septoria (0-9) ²
Ava	MR	8	77.7	8.3	40.6	88	0.0	94	158	3.1
E0028W	HS	7	75.1	9.3	46.4	92	0.4	84	154	5.3
Venture	S	4	77.2	9.5	38.0	85	0.0	77	157	3.4
Emmit	MS	11	77.0	9.8	41.0	89	0.1	87	155	3.5
R045	S	10	78.5	9.1	38.9	91	0.1	80	154	4.0
PH55	S	8	77.9	9.4	38.6	91	0.8	80	155	4.3
Branson	S	7	76.8	9.2	36.9	89	1.3	79	152	4.5
HY 116-SRW	MS	6	73.8	9.0	45.3	91	0.9	93	154	3.6
Wave	S	6	78.0	10.2	37.0	87	0.3	89	155	4.3
CM614	MS	5	78.7	9.4	41.8	91	1.0	85	154	4.1
WB425	MS	4	78.3	8.9	36.1	88	0.0	82	153	4.4
CM249	S	4	76.6	8.7	41.7	93	0.3	88	154	4.9
25R34	MR	3	76.7	8.7	41.4	93	0.9	83	154	4.1
25R40	S	3	77.5	8.6	44.5	91	0.1	75	154	3.8
HY 412-SRW	MS	3	78.1	9.2	41.2	84	0.0	88	160	2.5
Emperor	MS	3	77.8	9.0	38.4	89	1.0	90	153	5.9
OAC Flight	MS	4	78.1	9.5	38.4	92	0.3	89	155	4.4
Marker	MR	2	76.0	9.0	34.5	89	0.3	86	154	3.4
UGRC Ring	S	2	75.8	8.5	41.3	91	0.8	89	153	4.3
25R46	MR	1	78.8	8.9	41.7	88	0.0	79	154	3.6
Whitebear	S	4	77.8	10.1	49.5	85	1.0	77	154	6.4
AC Morley	MR	13	79.7	9.9	41.0	93	1.9	102	156	3.5
AC Sampson	S	13	76.5	9.7	43.7	94	0.0	92	158	4.1
Wentworth	HS	8	81.3	9.9	49.8	97	0.1	94	155	4.3
Benefit	MS	7	80.8	10.7	43.1	89	0.5	109	156	4.0
Princeton	S	6	79.6	9.5	48.0	94	0.6	94	155	4.4
Priesley	MS	5	75.6	9.5	43.4	86	0.0	80	155	3.7
Keldin	S	6	79.2	9.3	42.7	92	0.0	89	158	5.5
Gallus	S	4	79.6	9.8	46.5	87	0.0	85	155	4.9
HY 301-HRW	MS	3	81.2	10.2	37.9	92	0.1	89	155	6.3
Means			77.9	9.3	41.6	90	0.4	87	155	4.3
Locations			2	1	2	2	2	2	2	2

For traits not reported on this table see other area trait tables or previous year's performance trials. Not all traits are expressed in any given year or area. Head to Head comparisons on GoCereals.ca website give multi-year data for trait characteristics.

¹ Fusarium ratings are based on Fusarium head blight index and deoxynivalenol (DON) levels from inoculated provincial trials.

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

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

³ Heading may vary from year to year and should only be used to indicate relative differences.

**Table 5b - Ontario Winter Wheat Performance Trials; Varietal Characteristics Based on Data from Area II
OCCC, August 2014**

Variety	Fusarium Rating ¹	Years (fusarium Data)	Test Weight (kg/hL)	Protein (%)	Thousand Kernel Weight (g)	Winter Survival (%)	Lodging (0-9) ²	Height (cm)	Heading Date ³ (JD)	Powdery Mildew (0-9) ²	Leaf Rust (0-9) ²	Leaf Septoria (0-9) ²
Ava	MR	8	78.6	10.6	42.1	88	1.0	91	167	1.4	2.6	3.6
E0028W	HS	7	75.2	10.5	44.8	89	1.0	81	164	0.6	4.2	4.4
Venture	S	4	78.2	11.0	37.5	89	1.0	70	166	1.0	2.1	3.7
Emmit	MS	11	78.7	10.7	44.6	79	1.0	81	165	1.7	3.7	3.9
R045	S	10	80.1	10.7	41.8	84	1.0	81	164	2.2	2.8	4.0
PH55	S	8	78.9	10.5	40.2	81	1.0	79	165	0.3	3.2	3.4
Branson	S	7	78.0	10.7	40.8	94	1.0	80	162	1.2	1.3	3.2
HY 116-SRW	MS	6	77.6	10.5	46.2	94	3.3	85	164	0.6	2.7	4.8
Wave	S	6	79.6	11.2	39.6	82	1.0	86	165	1.2	2.5	4.1
CM614	MS	5	79.3	10.5	44.2	88	1.7	86	164	1.3	1.8	4.7
WB425	MS	4	80.2	10.6	37.1	94	1.0	80	162	0.0	1.6	3.8
CM249	S	4	78.3	10.8	43.5	80	1.0	82	164	1.2	1.9	3.9
25R34	MR	3	77.8	10.6	42.8	92	1.3	81	164	2.0	1.6	3.7
25R40	S	3	78.2	10.6	42.4	89	1.3	70	163	0.3	3.3	3.6
HY 412-SRW	MS	3	78.7	10.6	42.6	81	1.0	84	169	0.8	1.3	3.3
Emperor	MS	3	79.2	11.0	39.2	95	1.7	91	163	1.7	3.3	4.4
OAC Flight	MS	4	78.8	10.5	42.5	90	1.0	79	164	1.2	2.1	3.7
Marker	MR	2	78.4	9.8	37.4	92	1.0	85	164	1.5	3.8	3.9
UGRC Ring	S	2	78.1	10.4	43.0	91	1.0	85	164	1.3	3.6	4.4
Whitebear	S	4	77.8	13.0	54.7	86	2.7	73	164	0.3	1.9	4.0
AC Morley	MR	13	79.3	12.4	44.9	78	1.0	102	167	0.5	0.5	4.1
AC Sampson	S	13	76.3	11.8	44.4	87	1.3	91	170	0.0	3.1	4.3
Wentworth	HS	8	79.8	11.4	50.9	85	1.0	91	166	1.3	1.7	4.4
Benefit	MS	7	80.8	12.1	44.1	80	1.0	110	167	0.0	1.8	3.8
Princeton	S	6	79.5	11.4	50.4	88	1.3	92	166	1.9	0.9	3.9
Priesley	MS	5	77.5	10.4	49.1	82	1.0	77	166	0.0	1.2	4.3
Keldin	S	6	80.1	11.5	48.4	84	1.3	84	168	0.5	1.4	3.8
Gallus	S	4	80.3	11.9	51.2	87	1.0	86	165	0.2	1.9	3.7
HY 301-HRW	MS	3	81.0	12.5	39.8	82	1.0	86	166	0.2	0.8	3.9
Means			78.8	11	43.8	87	1.2	84	165	0.9	2.2	3.9
Locations			2	1	2	2	1	2	2	2	2	3

For traits not reported on this table see other area trait tables or previous year's performance trials. Not all traits are expressed in any given year or area. Head to Head comparisons on GoCereals.ca website give multi-year data for trait characteristics.

¹ Fusarium ratings are based on Fusarium head blight index and deoxynivalenol (DON) levels from inoculated provincial trials.

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

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

³ Heading may vary from year to year and should only be used to indicate relative differences.

**Table 5c - Ontario Winter Wheat Performance Trial; Varietal Characteristics Based on Data from Area III
OCCC, August 2014**

Variety	Fusarium Rating ¹	Years (fusarium Data)	Test Weight (kg/hL)	Thousand Kernel Weight (g)	Winter Survival (%)	Lodging (0-9) ²	Height (cm)	Heading Date ³ (JD)	Powdery Mildew (0-9) ²	Leaf Rust (0-9) ²	Leaf Septoria (0-9) ²
Ava	MR	8	76.8	40.3	85	0.9	93	157	3.5	0.8	2.8
Emmit	MS	11	77.3	42.9	74	1.6	83	155	3.5	0.0	2.1
Branson	S	7	76.4	38.1	77	1.8	80	154	3.5	0.8	2.1
HY 116-SRW	MS	6	76.5	45.2	84	0.6	88	155	3.5	0.0	1.9
CM614	MS	5	77.8	43.6	79	2.9	85	155	2.0	0.0	3.4
WB425	MS	4	77.7	36.3	75	0.5	82	154	1.5	1.0	2.8
CM249	S	4	76.1	42.8	87	0	85	155	1.5	0.0	3.1
25R34	MR	3	75.9	42.8	77	0.6	78	155	2.8	1.0	2.4
25R40	S	3	76.5	42.7	78	0	73	155	1.3	1.0	1.9
HY 412-SRW	MS	3	77.9	42.4	70	0	84	157	1.5	0.0	4.4
Emperor	MS	3	77.4	39.1	81	0.1	89	154	1.5	0.0	3.8
OAC Flight	MS	4	76.4	39.7	76	1.4	80	155	3.5	2.3	2.8
Marker	MR	2	76.6	35.5	80	0.3	84	154	2.3	1.3	3.3
UGRC Ring	S	2	75.5	39.2	85	2	87	155	2.8	0.0	2.4
AC Morley	MR	13	78.3	43.9	81	0.8	108	155	2.5	1.5	2.3
AC Sampson	S	13	73.6	41.0	76	0.5	90	157	2.0	0.0	2.4
Wentworth	HS	8	79.5	50.6	85	0.5	96	155	3.3	1.5	2.1
Benefit	MS	7	79.9	43.8	85	0.8	108	155	3.0	1.3	2.0
Princeton	S	6	79.2	47.6	74	2.1	103	155	2.0	0.0	3.3
Priesley	MS	5	74.9	43.2	78	0.1	78	155	2.5	0.0	2.6
Keldin	S	6	78.2	46.9	79	0	86	157	5.0	1.0	1.8
Gallus	S	4	78.2	48.5	84	0.1	83	155	2.0	0.0	2.6
HY 301-HRW	MS	3	79.8	37.0	84	0.1	85	154	3.8	0.0	2.8
Means			77.2	42.3	80	0.8	87	155	2.6	0.6	2.6
Locations			1	2	2	2	2	1	1	1	2

For traits not reported on this table see other area trait tables or previous year's performance trials. Not all traits are expressed in any given year or area. Head to Head comparisons on GoCereals.ca website give multi-year data for trait characteristics.

¹ Fusarium ratings are based on Fusarium head blight index and deoxynivalenol (DON) levels from inoculated provincial trials.

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

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

³ Heading may vary from year to year and should only be used to indicate relative differences.

**Table 6 - Ontario Winter Wheat Performance Trial; 2014 Cumulative Yield Index¹ and Varietal Characteristics
Based on Data from Area V², OCCC, August 2014**

Class ³	Variety	Yield Index	Fusarium Rating ⁵	Years (fusarium Data)	Test Weight (kg/hL)	Thousand Kernel Weight (g)	Winter Survival (%)	Lodging (0-9) ⁶	Height (cm)	Heading Date ⁷ (JD)	Straw Yield Index
sww	Ava	101 ⁴	MR	8	74.5	41.3	53	0.0	99	155	114
srw	Emmit	107	MS	11	74.9	43.8	98	0.5	93	155	105
	Branson	99	S	7	74.5	42.6	93	0.0	84	153	81
	HY 116-SRW	94	MS	6	74.1	48.3	29	0.0	96	154	92
	CM614	92	MS	5	75.4	46.0	19	1.5	90	155	80
	WB425 (awned)	100	MS	4	76.5	39.4	73	0.0	89	156	86
	HY 412-SRW	103	MS	3	75.9	45.3	76	0.0	91	155	102
hrw	Wentworth	94	HS	8	77.8	51.7	55	0.0	102	156	90
	Benefit	88	MS	7	78.1	46.4	80	0.0	116	157	119
	Princeton	97	S	6	76.9	48.5	96	2.3	106	157	109
	Priesley	113	MS	5	75.1	48.0	95	0.0	84	152	117
	Keldin (awned)	103	S	6	78.1	47.7	79	0.0	86	153	97
	Gallus (awned)	96	S	4	78.1	48.8	90	0.0	94	154	104
	HY 301-HRW	102	MS	3	78.1	40.7	98	0.0	94	154	105
Means		7.98 t/ha 118.6 bu/ac			76.3	45.6	74	0.3	94	155	7.30 t/ha
Locations		1			1	1	1	1	1	1	1

For traits not reported on this table see other area trait tables or previous year's performance trials. Not all traits are expressed in any given year or area. Head to Head comparisons on GoCereals.ca website give multi-year data for trait characteristics.

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 Area V = see area map on GoCereals.ca website.

3 sww = soft white winter, srw = soft red winter, hww = hard white winter, hrw = hard red winter.

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

5 Fusarium ratings are based on Fusarium head blight index and deoxynivalenol (DON) levels from inoculated provincial trials.

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

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

7 Heading may vary from year to year and should only be used to indicate relative differences.

Table 6a - Ontario Winter Wheat Performance Trial - Cumulative Yield Indices¹

**Managed Trials
Summary for Area V², OCCC, August 2014**

Class ³	Variety	2-Year Index ⁵ Fungicides		2014 Index Fungicides	
		No	Yes	No	Yes
sww	Ava	106 ⁴	106	100	98
srw	Emmit	106	109	105	111
	Branson	102	102	98	100
	HY 116-SRW	100	101	94	94
	CM614	96	99	92	95
	WB425 (awned)	100	102	99	101
	HY 412-SRW	102	104	101	104
hrw	Wentworth	97	100	94	97
	Benefit			89	90
	Princeton	100	101	96	101
	Priesley	103	105	110	113
	Keldin (awned)	103	104	101	103
	Gallus (awned)	97	96	96	98
	HY 301-HRW	97	99	100	104
LSD (0.10)		7		4	
Mean (t/ha)		7.29	7.41	7.98	8.23
Mean (bu/ac)		108.4	110.1	118.6	122.3
Location-Years		2		1	

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 Area V = see area map on GoCereals.ca website.

³ sww = soft white winter, srw = soft red winter, hrw = hard red winter.

⁴ Cultivar yield rankings may vary from year to year. Decisions are therefore best made using data with the greatest number of years.

⁵ 2-year indices are calculated from 2012 and 2014 data.

Fungicide treatments included a T1 application of foliar fungicide at Zadoks Growth Stage 30 to 31, followed by a T3 application of fusarium fungicide during flowering.

The OCCC is thankful to the Grain Farmers of Ontario, BASF, Bayer and Syngenta for their financial support towards the managed trials.

Table 7a - Ontario Winter Wheat Distributors 2014, OCCC, August 2014

Class¹	Variety	Distributor
sww	Ava	Hyland Seeds
	E0028W	Parrish & Heimbecker Limited
	Venture	SeCan Association
srw	Emmit	Hyland Seeds
	R045	Advantage Seed Growers
	PH55	Parrish & Heimbecker Limited
	Branson	Hyland Seeds
	HY 116-SRW	Hyland Seeds
	Wave	SeCan Association
	CM614	C & M Seeds
	WB425 (awned)	C & M Seeds
	CM249 (awned)	C & M Seeds
	25R34 (awned)	Pioneer Hi-Bred
	25R40 (awned)	Pioneer Hi-Bred
	HY 412-SRW	Hyland Seeds
	Emperor	SeCan Association
OAC Flight (awned)	Elite Seeds	
Marker	Bramhill Seeds	
UGRC Ring (awned)	Ridgetown Campus, U. of Guelph	
25R46 (awned)	Pioneer Hi-Bred	
hww	Whitebear (awned)	C & M Seeds
hrw	AC Morley	Advantage Seed Growers
	AC Sampson	Bramhill Seeds
	Wentworth	Hyland Seeds
	Benefit	PRO Seeds/Sevita International
	Princeton	C & M Seeds
	Priesley	C & M Seeds
	Keldin (awned)	C & M Seeds
	Gallus (awned)	C & M Seeds
HY 301-HRW	Hyland Seeds	

¹ sww = soft white winter, srw = soft red winter, hww = hard white winter, hrw = hard red winter.

Table 7b - Ontario Winter Wheat Distributor/Sponsor Contact Information 2014

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
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
Parrish and Heimbecker Ltd	23312 Dundonald Rd, Glencoe, ON, N0L 1M0 Tel: 519-287-3317
Pioneer Hi-Bred Ltd	Box 730, 7398 Queen's Line, Chatham, ON, N7M 5L1 Tel: 1-800-265-9435 Internet: www.pioneer.com
PRO Seeds of Canada/ 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
University of Guelph, Ridgetown Campus	120 Main St E, Ridgetown, ON, N0P 2C0 Tel: 519-674-1557 ext63557 Fax: 519-674-1600 Internet: www.ridgetownc.uoguelph.ca