

---

# 2015

## Ontario Winter Wheat Performance Trials

Data collected 2011-2015

[www.gocereals.ca](http://www.gocereals.ca)



**Conducted by the Ontario Cereal Crop Committee**

V2 Current as of December 25, 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 2014 and harvested in 2015

### ADDITIONAL INFORMATION

Additional information is available at [www.gocereals.ca](http://www.gocereals.ca), including

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

For more information contact:

Ellen Sparry  
Trial Coordinator  
C&M Seeds  
519-343-2126  
[esparry@redwheat.com](mailto:esparry@redwheat.com)

Peter Johnson  
Agronomist, Real Agriculture  
519-318-2040  
[peter.johnson@bell.net](mailto:peter.johnson@bell.net)








# 2015

## Ontario Winter Wheat Performance Trials

Conducted by the Ontario Cereal Crop Committee ♦ [www.gocereals.ca](http://www.gocereals.ca)

Table #	Table	Page #
1	Cumulative Yield Index Summary - Area I & II combined	4
1a	Cumulative Yield Index Summary - Area I & II combined, <b>INTENSIVE</b>	5
2	Cumulative Yield Index Summary - Area I	6
2a	Cumulative Yield Index Summary - Area I <b>INTENSIVE</b>	7
3	Cumulative Yield Index Summary - Area II	8
3a	Cumulative Yield Index Summary - Area II <b>INTENSIVE</b>	9
4	Cumulative Yield Index Summary - Area III	10
5a	Varietal Characteristics - Area I	11
5b	Varietal Characteristics - Area II	12
5c	Varietal Characteristics - Area III	13
6	Yield Index and Variety Characteristics for Area V	14
6a	Yield Index Summary - Area V <b>INTENSIVE</b> (2014 data)	15
7a	Ontario Winter Wheat Distributors	16
7b	Distributor Contact Information	17

**Table 1 - Ontario Winter Wheat Performance Trial; Cumulative Yield Index<sup>1</sup>  
Summary for Area I & II Combined<sup>2</sup>, OCCC, August 2015**


Class <sup>3</sup>	Variety	5 year	4 year	3 year	2 year	2015
sww	Ava	103 <sup>4</sup>	103	103	104	106
	Venture	98	95	95	95	95
	 25W31 (awned)					105
srw	Emmit	103	102	103	99	97
	Branson	107	105	105	103	105
	Wave	103	102	102	98	97
	CM614	103	103	103	103	105
	 WB425 (awned)	105	104	103	101	102
	CM249 (awned)	106	105	104	100	100
	 OAC Flight (awned)	102	101	101	100	96
	25R34 (awned)		108	108	105	102
	25R40 (awned)		108	108	106	106
	 HY 412-SRW		102	103	102	105
	 Emperor			103	103	101
	Marker			103	104	102
	UGRC Ring (awned)			103	102	101
	25R46 (awned)				100	96
Cruze (awned)					100	
hrw	AC Morley	98	98	99	97	99
	Princeton	97	97	97	95	93
	Priesley	103	102	102	102	99
	Keldin (awned)	100	100	98	99	97
	AC Sampson	95	95	96	98	98
	 Gallus (awned)	98	97	99	97	96
	 HY 301-HRW			98	98	96
Means (t/ha)	5.63	5.53	5.56	5.79	5.30	
Means (bu/ac)	84	82	83	86	79	
Locations	29	23	16	9	5	

<sup>1</sup> 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.








<sup>2</sup> Area I and II combined: see map of areas on [www.gocereals.ca/variety\\_trial.php](http://www.gocereals.ca/variety_trial.php).

<sup>3</sup> sww = soft white winter, srw = soft red winter, hrw = hard red winter.

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

 = PBR Status; indicates varieties protected under PBR 91. Visit [pbrfacts.ca](http://pbrfacts.ca) to learn more.

**Table 1a - Ontario Winter Wheat Performance Trial - Cumulative Yield Indices<sup>1</sup>, Managed trials  
Summary for Area I & II Combined<sup>2</sup>, OCCC, August 2015**

Class <sup>3</sup>	Variety	5-Year Index Fungicides		4-Year Index Fungicides		3-Year Index Fungicides		2-Year Index Fungicides		2015 Index Fungicides	
		No	Yes	No	Yes	No	Yes	No	Yes	No	Yes
sww	Ava	99 <sup>4</sup>	106	99	107	99	107	101	108	104	109
	Venture	93	103	90	101	90	101	92	99	89	96
	 25W31 (awned)									102	110
srw	Emmit	97	106	97	106	97	106	94	104	90	106
	Branson	102	110	101	110	100	110	100	110	101	111
	Wave	98	104	97	104	96	103	94	98	92	100
	CM614	99	108	99	108	99	108	100	106	102	109
	 WB425 (awned)	99	106	99	106	99	106	98	105	98	106
	CM249 (awned)	100	108	100	109	99	108	96	104	94	106
	 OAC Flight (awned)	98	107	97	107	97	107	97	105	92	99
	25R34 (awned)			104	115	104	114	102	111	98	111
	25R40 (awned)			104	115	103	114	103	111	103	113
	 HY 412-SRW			97	108	97	107	97	106	99	107
	 Emperor			98	106	98	106	97	105	94	107
	Marker					99	109	101	109	97	109
	UGRC Ring (awned)					98	111	98	111	95	110
25R46 (awned)									92	104	
Cruze (awned)									96	104	
hrw	AC Morley	94	101	94	103	95	104	94	103	97	108
	Princeton	92	103	92	103	92	104	91	102	86	99
	Priesley	99	106	98	105	97	105	99	104	95	101
	Keldin (awned)	95	104	95	104	94	104	95	103	90	100
	AC Sampson	91	97	91	97	90	97	94	96	92	97
	 Gallus (awned)	93	99	92	99	94	100	93	98	90	99
	 HY 301-HRW			93	98	93	98	92	95	85	96
Means (t/ha)	5.62	6.22	5.44	6.04	5.34	5.95	5.61	6.14	4.81	5.48	
Means (bu/ac)	83.6	92.4	80.8	89.7	79.5	88.5	83.4	91.3	71.6	81.5	
Location-years	21		17		14		8		4		


<sup>1</sup> 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.

<sup>2</sup> Area I and II combined: see map of areas on [www.gocereals.ca/variety\\_trial.php](http://www.gocereals.ca/variety_trial.php).

<sup>3</sup> sww = soft white winter, srw = soft red winter, hrw = hard red winter.








<sup>4</sup> 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.

 = PBR Status; indicates varieties protected under PBR 91. Visit [pbrfacts.ca](http://pbrfacts.ca) to learn more.

**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 Index<sup>1</sup>**  
**Summary for Area I<sup>2</sup>, OCCC, August 2015**

Class <sup>3</sup>	Variety	5 year	4 year	3 year	2 year	2015
sww	Ava	102 <sup>4</sup>	101	101	101	103
	Venture	99	97	98	99	99
	 25W31 (awned)					107
srw	Emmit	102	101	102	100	97
	Branson	104	103	102	102	104
	Wave	104	104	100	96	96
	CM614	106	106	105	103	106
	 WB425 (awned)	103	103	99	101	105
	CM249 (awned)	108	108	106	103	102
	 OAC Flight (awned)	102	101	103	106	100
	25R34 (awned)		111	108	105	105
	25R40 (awned)		110	107	106	103
	 HY 412-SRW		102	101	98	96
	 Emperor			100	99	100
	Marker				101	101
	UGRC Ring (awned)				104	104
	25R46 (awned)					105
Cruze (awned)						103
hrw	AC Morley	100	99	100	98	103
	Princeton	97	98	100	97	96
	Priesley	102	101	100	98	99
	Keldin (awned)	98	98	97	94	89
	AC Sampson	93	93	94	94	92
	 Gallus (awned)	95	94	97	96	95
	 HY 301-HRW			99	98	95
Means (t/ha)	5.53	5.40	5.78	6.09	5.46	
Means (bu/ac)	82.3	80.3	86.0	90.5	81.2	
Locations	13	10	7	4	2	

<sup>1</sup> 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.








<sup>2</sup> Area I: see map of areas on [www.gocereals.ca/variety\\_trial.php](http://www.gocereals.ca/variety_trial.php).

<sup>3</sup> sww = soft white winter, srw = soft red winter, hrw = hard red winter.

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

 = PBR Status; indicates varieties protected under PBR 91. Visit [pbrfacts.ca](http://pbrfacts.ca) to learn more.

**Table 2a - Ontario Winter Wheat Performance Trial - Cumulative Yield Indices<sup>1</sup>, Managed trials  
Summary for Area I<sup>2</sup>, OCCC, August 2015**

Class <sup>3</sup>	Variety	5-Year Index Fungicides		4-Year Index Fungicides		3-Year Index Fungicides		2-Year Index Fungicides		2015 Index Fungicides	
		No	Yes	No	Yes	No	Yes	No	Yes	No	Yes
sww	Ava	98 <sup>4</sup>	103	96	103	97	104	98	105	99	106
	Venture	96	106	92	103	94	103	94	103	94	103
	 25W31 (awned)									105	116
srw	Emmit	97	104	96	104	97	104	95	101	89	104
	Branson	101	109	100	108	98	106	97	107	97	109
	Wave	99	107	98	106	96	104	92	100	90	100
	CM614	102	109	101	110	101	109	100	107	102	110
	 WB425 (awned)	96	106	96	105	95	105	97	109	100	114
	CM249 (awned)	103	110	103	110	102	108	99	106	96	106
	 OAC Flight (awned)	99	110	99	110	99	109	102	110	95	107
	25R34 (awned)			106	117	104	115	102	112	99	116
	25R40 (awned)			107	117	104	113	103	112	99	111
	 HY 412-SRW			97	105	97	104	94	100	90	99
	 Emperor			96	104	95	103	95	103	89	104
	Marker					97	105	97	106	90	110
	UGRC Ring (awned)					100	109	99	111	96	114
25R46 (awned)							101	109	95	109	
Cruze (awned)									96	105	
hrw	AC Morley	96	100	95	101	96	103	95	103	99	110
	Princeton	92	100	94	101	96	103	93	101	91	103
	Priesley	97	105	95	104	96	104	94	101	94	100
	Keldin (awned)	93	102	92	101	92	101	89	99	82	94
	AC Sampson	89	96	89	95	89	96	89	95	85	94
	 Gallus (awned)	90	97	89	96	92	99	91	99	89	98
	 HY 301-HRW			93	100	93	100	90	98	85	98
Means (t/ha)	5.79	6.35	5.61	6.18	5.78	6.36	6.08	6.71	5.46	6.30	
Means (bu/ac)	86.1	94.5	83.4	91.9	86.0	94.5	90.5	99.7	81.2	93.7	
Location-Years	10		8		7		4		2		


<sup>1</sup> 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.

<sup>2</sup> Area I: see map of areas on [www.gocereals.ca/variety\\_trial.php](http://www.gocereals.ca/variety_trial.php).

<sup>3</sup> sww = soft white winter, srw = soft red winter, hrw = hard red winter.








<sup>4</sup> 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.

 = PBR Status; indicates varieties protected under PBR 91. Visit [pbrfacts.ca](http://pbrfacts.ca) to learn more.

**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 Index<sup>1</sup>**  
**Summary for Area II<sup>2</sup>, OCCC, August 2015**


Class <sup>3</sup>	Variety	5 year	4 year	3 year	2 year	2015
sww	Ava	104 <sup>4</sup>	105	105	107	108
	Venture	96	94	92	93	92
	 25W31 (awned)					103
srw	Emmit	104	103	104	99	97
	Branson	108	107	108	105	106
	Wave	102	102	104	100	98
	CM614	101	102	102	104	104
	 WB425 (awned)	107	105	106	102	100
	CM249 (awned)	104	103	102	98	98
	 OAC Flight (awned)	101	100	100	96	94
	25R34 (awned)		107	108	104	101
	25R40 (awned)		107	108	105	108
	 HY 412-SRW		102	104	105	111
	 Emperor		105	106	106	101
	Marker			105	106	105
	UGRC Ring (awned)			101	101	99
	25R46 (awned)				93	93
	Cruze (awned)					98
hrw	AC Morley	97	97	98	96	96
	AC Sampson	96	97	97	101	102
	Princeton	97	97	94	93	90
	Priesley	104	103	103	106	99
	Keldin (awned)	101	102	99	103	102
	 Gallus (awned)	101	100	100	98	96
	 HY 301-HRW		97	97	97	91
Means (t/ha)	5.70	5.63	5.38	5.54	5.19	
Means (bu/ac)	84.8	83.7	80.0	82.4	77.1	
Locations	16	13	9	5	3	

<sup>1</sup> 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.

<sup>2</sup> Area II: see map of areas on [www.gocereals.ca/variety\\_trial.php](http://www.gocereals.ca/variety_trial.php).








<sup>3</sup> sww = soft white winter, srw = soft red winter, hrw = hard red winter.

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

 = PBR Status; indicates varieties protected under PBR 91. Visit [pbrfacts.ca](http://pbrfacts.ca) to learn more.



**Table 3a - Ontario Winter Wheat Performance Trial - Cumulative Yield Indices<sup>1</sup>, Managed Trials  
Summary for Area II<sup>2</sup>, OCCC, August 2015**

Class <sup>3</sup>	Variety	5-Year Index Fungicides		4-Year Index Fungicides		3-Year Index Fungicides		2-Year Index Fungicides		2015 Index Fungicides	
		No	Yes	No	Yes	No	Yes	No	Yes	No	Yes
sww	Ava	100 <sup>4</sup>	109	101	110	100	111	104	112	108	112
	Venture	90	100	88	99	86	99	89	95	85	89
	 25W31 (awned)									99	104
srw	Emmit	97	107	97	107	97	108	94	106	92	109
	Branson	103	111	102	111	103	114	103	113	105	113
	Wave	96	102	96	102	97	101	95	96	94	100
	CM614	98	107	97	107	97	108	100	105	102	107
	 WB425 (awned)	102	107	102	107	102	106	99	102	97	98
	CM249 (awned)	98	106	98	107	95	107	94	102	93	106
	 OAC Flight (awned)	96	105	95	104	95	104	93	100	89	92
	25R34 (awned)			101	114	103	114	102	110	97	105
	25R40 (awned)			102	113	103	114	103	111	106	115
	 HY 412-SRW			98	110	98	110	101	111	109	115
	 Emperor			100	108	101	108	99	107	99	110
	Marker					100	112	105	112	104	108
UGRC Ring (awned)					96	113	98	111	95	106	
25R46 (awned)									88	100	
	Cruze (awned)									95	102
hrw	AC Morley	93	103	93	104	93	106	93	104	94	106
	Princeton	92	105	91	105	88	105	88	103	82	95
	Priesley	100	106	100	106	99	106	105	106	96	102
	Keldin (awned)	97	106	98	107	95	107	101	107	98	106
	AC Sampson	92	99	93	99	92	98	98	96	99	100
	 Gallus (awned)	95	102	94	101	95	101	96	96	92	100
	 HY 301-HRW			92	96	92	95	93	93	85	93
Means (t/ha)		5.47	6.09	5.28	5.91	4.90	5.54	5.13	5.57	4.17	4.66
Means (bu/ac)		81.4	90.5	78.5	87.8	72.9	82.4	76.2	82.8	61.9	69.3
Location-Years		11		9		7		4		2	

<sup>1</sup> 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.


<sup>2</sup> Area II: see map of areas on [www.gocereals.ca/variety\\_trial.php](http://www.gocereals.ca/variety_trial.php).

<sup>3</sup> sww = soft white winter, srw = soft red winter, hrw = hard red winter.







<sup>4</sup> 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.**

 = PBR Status; indicates varieties protected under PBR 91. Visit [pbrfacts.ca](http://pbrfacts.ca) to learn more.

**Table 4 - Ontario Winter Wheat Performance Trial; Cumulative Yield Index<sup>1</sup>**  
**Summary for Area III<sup>2</sup>, OCCC, August 2015**


Class <sup>3</sup>	Variety	5 year	4 year	3 year	2 year	2015	
sww	Ava	103 <sup>4</sup>	103	103	102	103	
	Venture					100	
srw	Emmit	103	102	100	99	99	
	Branson	103	103	102	102	101	
	CM614	104	104	106	105	105	
	 WB425 (awned)	102	102	102	101	102	
	CM249 (awned)	102	102	104	103	101	
	 HY 412-SRW		102	104	102	104	
	 Emperor			97	97	96	95
	 OAC Flight (awned)			99	96	97	98
	Marker				103	103	104
	UGRC Ring (awned)				105	105	106
	Wave						98
	Cruze (awned)						100
hrw	AC Morley	95	94	96	95	95	
	AC Sampson	97	97	96	95	94	
	Princeton	94	94	93	95	94	
	Keldin (awned)	99	99	102	102	101	
	 Gallus (awned)	99	99	98	96	93	
	Priesley		105	104	105	102	
	 HY 301-HRW			95	93	95	97
Frontenac				101	101	103	
Means (t/ha)		5.85	5.77	5.31	4.89	4.55	
Means (bu/ac)		87.0	85.7	78.9	72.8	67.6	
Locations		11	9	6	5	3	

<sup>1</sup> 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.

<sup>2</sup> Area III: see map of areas on [www.gocereals.ca/variety\\_trial.php](http://www.gocereals.ca/variety_trial.php).

<sup>3</sup> sww = soft white winter, srw = soft red winter, hrw = hard red winter.

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

 = PBR Status; indicates varieties protected under PBR 91. Visit [pbrfacts.ca](http://pbrfacts.ca) to learn more.

**Table 5a - Ontario Winter Wheat Performance Trials; Varietal Characteristics Based on Data from OCCC, August 2015**

Variety	Fusarium Data			Test Weight (kg/hL)	Protein (%)	Thousand Kernel Weight (g)	Lodging (0-9) <sup>2</sup>	Height (cm)	Heading Date <sup>3</sup> (JD)	Leaf Rust (0-9) <sup>2</sup>	Leaf Septoria (0-9) <sup>2</sup>
	Combined Rating <sup>1</sup>	DON Rating <sup>1</sup>	Years								
Ava	MR	MR	7	78.0	10.6	39.2	2.9	89	155	1.0	1.4
Venture	S	S	5	76.6	10.8	34.8	0.4	74	154	0.0	1.0
91 25W31	MS	MS	1	80.1	11.3	33.9	0.0	81	153	0.0	1.3
Emmit	MS	MS	7	77.0	11.0	40.1	2.1	84	152	0.0	1.6
Branson	S	MS	7	77.3	10.5	38.5	1.8	80	149	0.0	1.1
Wave	S	MS	7	76.4	12.3	35.8	2.1	86	151	0.0	1.5
CM614	MS	MS	6	79.7	10.5	42.2	1.8	85	151	0.0	1.5
91 WB425	MS	MR	5	80.1	10.3	35.2	0.9	81	149	0.0	1.0
CM249	S	MS	5	77.2	11.0	41.1	0.8	82	151	0.0	1.6
25R34	MR	MR	4	77.0	10.9	40.6	0.9	84	151	1.0	1.4
25R40	HS	S	4	77.6	10.1	43.3	0.6	73	152	0.0	1.3
91 HY 412-SRW	MS	S	4	75.5	10.5	38.1	1.9	85	156	0.0	1.4
91 Emperor	MS	MR	4	79.0	10.6	39.4	1.5	87	151	0.0	1.9
91 OAC Flight	MS	MS	5	78.8	11.0	38.7	0.9	81	152	0.0	2.1
Marker	MR	MR	3	75.9	10.3	33.1	2.4	85	151	0.0	1.9
UGRC Ring	MS	MS	3	77.5	10.5	40.2	1.5	85	150	1.5	1.4
25R46	MS	MR	2	79.2	10.2	41.3	0.1	74	152	0.0	1.4
Cruze	MS	MS	1	79.8	10.6	37.5	0.8	78	150	0.0	1.4
AC Morley	MR	MR	7	78.6	11.4	39.8	2.8	101	155	0.0	1.5
AC Sampson	S	S	7	71.8	11.6	39.8	1.5	87	156	2.5	1.4
Princeton	MS	S	7	78.7	11.7	43.6	2.6	87	152	0.0	2.5
Priesley	S	MS	6	75.1	11.5	39.6	0.1	74	152	0.5	1.9
Keldin	S	S	7	77.3	11.4	40.1	1.3	85	155	0.0	3.0
91 Gallus	MS	MS	5	80.1	11.4	45.7	0.1	83	152	0.0	1.6
91 HY 301-HRW	MS	MS	4	80.2	12.2	34.6	1.0	87	152	0.0	2.8
Means				77.8	10.9	39.0	1.3	83	152	0.3	1.6
Locations				1	1	1	2	2	2	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 Combined Fusarium Ratings are based on BOTH Fusarium head blight ratings and deoxynivalenol (DON) levels from inoculated provincial trials. DON Ratings are based only on 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.

91 = PBR Status; indicates varieties protected under PBR 91. Visit [pbrfacts.ca](http://pbrfacts.ca) to learn more.

**Table 5b - Ontario Winter Wheat Performance Trials; Varietal Characteristics Based on Data from Area II  
OCCC, August 2015**

Variety	Fusarium Data			Test Weight (kg/hL)	Protein (%)	Thousand Kernel Weight (g)	Winter Survival (%)	Lodging (0-9) <sup>2</sup>	Height (cm)	Heading Date <sup>3</sup> (JD)	Powdery Mildew (0-9) <sup>2</sup>	Leaf Rust (0-9) <sup>2</sup>	Leaf Septoria (0-9) <sup>2</sup>
	Combined Rating <sup>1</sup>	DON Rating <sup>1</sup>	Years										
Ava	MR	MR	7	73.5	9.6	36.3	81	1.3	81	161	1.4	0.6	2.8
Venture	S	S	5	73.1	10.2	34.9	59	0.0	59	162	1.2	0.9	2.0
91 25W31	MS	MS	1	77.2	10.3	31.3	89	0.0	67	159	1.3	0.1	2.3
Emmit	MS	MS	7	74.9	10.7	39.9	75	0.5	73	159	2.6	2.1	3.5
Branson	S	MS	7	75.9	10.2	38.5	82	0.5	68	157	1.7	0.8	2.6
Wave	S	MS	7	74.7	10.7	33.3	77	0.5	72	160	1.4	1.4	3.0
CM614	MS	MS	6	76.3	10.4	38.3	86	1.3	73	159	2.8	0.3	2.7
91 WB425	MS	MR	5	77.6	9.8	31.6	84	0.5	70	157	1.1	2.0	2.3
CM249	S	MS	5	76.6	9.9	37.5	89	0.3	66	158	2.2	0.3	3.3
25R34	MR	MR	4	75.1	10.0	39.4	79	1.0	71	158	3.1	1.4	3.9
25R40	HS	S	4	75.9	9.8	39.3	70	0.0	61	159	1.8	3.5	2.8
91 HY 412-SRW	MS	S	4	75.0	10.0	37.8	87	0.8	78	163	1.8	0.1	2.3
91 Emperor	MS	MR	4	75.8	10.3	33.2	91	0.5	75	157	3.8	0.8	3.8
91 OAC Flight	MS	MS	5	74.8	10.3	37.5	73	0.5	67	160	2.3	1.0	2.9
Marker	MR	MR	3	74.9	9.9	33.8	78	0.8	73	158	2.4	1.3	2.7
UGRC Ring	MS	MS	3	76.2	9.9	35.3	91	1.3	74	157	3.1	0.6	4.0
25R46	MS	MR	2	74.9	9.9	37.3	68	0.0	66	159	3.3	1.6	3.3
Cruze	MS	MS	1	77.4	10.5	35.2	77	0.5	68	159	3.1	0.0	2.8
AC Morley	MR	MR	7	76.1	10.8	39.3	86	2.3	95	160	1.9	0.1	2.9
AC Sampson	S	S	7	73.4	10.6	36.7	85	0.8	80	163	1.0	4.0	3.6
Princeton	MS	S	7	75.6	11.0	39.3	92	0.8	79	159	3.4	0.8	4.8
Priesley	S	MS	6	74.6	10.6	42.3	83	0.0	63	160	0.8	0.1	2.9
Keldin	S	S	7	78.2	10.4	40.4	82	0.5	75	162	1.5	1.8	3.6
91 Gallus	MS	MS	5	78.0	10.8	42.4	85	0.0	69	160	1.0	0.3	3.6
91 HY 301-HRW	MS	MS	4	77.2	11.5	32.9	84	0.5	71	159	1.7	0.1	4.3
Means				75.7	10.3	36.9	81	0.6	72	159	2.1	1.0	3.2
Locations				2	1	1	3	1	3	3	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 Combined Fusarium Ratings are based on BOTH Fusarium head blight ratings and deoxynivalenol (DON) levels from inoculated provincial trials.

DON Ratings are based only on 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.

91 = PBR Status; indicates varieties protected under PBR 91. Visit pbrfacts.ca to learn more.

**Table 5c - Ontario Winter Wheat Performance Trial; Varietal Characteristics Based on Data from Area III  
OCCC, August 2015**

Variety	Fusarium Data			Test Weight (kg/hL)	Protein (%)	Thousand Kernel Weight (g)	Winter Survival (%)	Lodging (0-9) <sup>2</sup>	Height (cm)	Heading Date <sup>3</sup> (JD)	Powdery Mildew (0-9) <sup>2</sup>	Leaf Rust (0-9) <sup>2</sup>	Leaf Septoria (0-9) <sup>2</sup>	Septoria Glume Blotch (0-9) <sup>2</sup>
	Combined Rating <sup>1</sup>	DON Rating <sup>1</sup>	Years											
Ava	MR	MR	7	75.0	10.1	40.4	93	0	80	156	2.7	1.4	4.6	2.5
Venture	S	S	5	73.3	11.1	39.0	92	0.7	66	158	1.1	1.0	2.6	1.3
Emmit	MS	MS	7	74.9	10.5	40.8	94	0	76	156	4.1	2.0	4.1	2.3
Branson	S	MS	7	74.5	11.2	39.1	96	2.7	73	155	2.2	0.8	3.3	0.3
Wave	S	MS	7	77.6	11.5	37.6	93	2	80	156	3.0	0.9	3.8	1.0
CM614	MS	MS	6	77.0	10.7	44.3	98	2.3	82	156	2.6	0.6	3.1	1.0
 WB425	MS	MR	5	76.6	10.5	35.9	95	0	78	154	0.8	0.8	3.6	1.5
CM249	S	MS	5	75.2	10.4	42.7	96	1	74	157	2.6	0.9	3.5	1.5
 HY 412-SRW	MS	S	4	75.4	10.7	43.2	96	0	79	158	2.9	0.5	3.0	2.0
 Emperor	MS	MR	4	75.8	11.2	37.5	93	2.3	82	155	4.6	0.5	4.3	3.0
 OAC Flight	MS	MS	5	75.5	11.3	43.2	94	1	74	156	4.3	2.3	3.3	3.0
Marker	MR	MR	3	74.0	10.2	35.9	94	0	79	155	4.0	1.5	3.4	2.0
UGRC Ring	MS	MS	3	73.3	10.2	41.8	91	1.3	80	155	3.6	1.1	4.3	1.0
Cruze	MS	MS	1	75.7	11.3	39.0	96	2	69	155	3.3	1.4	3.0	0.5
AC Morley	MR	MR	7	76.1	11.6	43.1	98	2.7	94	156	1.3	0.6	3.6	2.0
AC Sampson	S	S	7	72.7	10.6	44.5	96	0.7	81	158	1.9	2.3	4.6	1.3
Princeton	MS	S	7	77.2	11.2	48.1	93	3.3	84	156	5.1	1.0	3.5	2.0
Priesley	S	MS	6	73.3	10.3	42.8	95	0	69	155	1.3	1.5	3.3	2.5
Keldin	S	S	7	77.2	11.5	46.5	96	0	78	158	1.3	1.4	4.4	1.3
Gallus	MS	MS	5	77.0	11.4	47.8	96	1.7	74	156	1.1	1.3	4.5	1.5
 HY 301-HRW	MS	MS	4	77.3	11.7	38.7	97	0	78	156	1.0	0.5	3.3	0.8
Frontenac	MS	MS	3	76.7	10.4	43.1	93	3.7	89	156	2.1	0.6	4.3	1.0
Means				75.5	10.9	41.6	95	1.2	78	156	2.6	1.1	3.7	1.6
Locations				3	1	3	3	1	3	2	2	2	2	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 Combined Fusarium Ratings are based on BOTH Fusarium head blight ratings and deoxynivalenol (DON) levels from inoculated provincial trials.

DON Ratings are based only on 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.

 = PBR Status; indicates varieties protected under PBR 91. Visit pbrfacts.ca to learn more.

**Table 6 - Ontario Winter Wheat Cumulative Yield Index<sup>1</sup> and Varietal Characteristics  
Summary for Area V<sup>2</sup>, OCCC, August 2015**

Class <sup>3</sup>	Variety	Yield Index		Fusarium Data			Thousand						
		2 year	2015	Combined Rating <sup>5</sup>	DON Rating <sup>5</sup>	Years	Test Weight (kg/hL)	Kernel Weight (g)	Winter Survival (%)	Lodging (0-9) <sup>6</sup>	Height (cm)	Heading Date <sup>7</sup> (JD)	Straw Yield Index
sww	Ava	106 <sup>4</sup>	109	MR	MR	7	73.2	31.0	93	0	105	220	126
srw	Emmit	100	97	MS	MS	7	71.1	31.7	78	0.5	88	216	101
	Branson	101	102	S	MS	7	71.7	30.4	68	0.3	82	215	109
	CM614	96	99	MS	MS	6	74.5	32.9	65	1.5	92	217	102
	 WB425 (awned)	99	98	MS	MR	5	71.4	27.2	93	0.8	86	215	80
	 HY 412-SRW	105	106	MS	S	4	72.3	35.4	99	0	94	220	107
	Wave		98	S	MS	7	--	--	83	--	95	170	--
	 Emperor		97	MS	MR	4	--	--	90	--	95	170	--
	Marker		94	MR	MR	3	70.2	27.2	68	0	92	217	85
	UGRC Ring (awned)		103	MS	MS	3	72.3	35.0	100	2.5	96	215	93
Cruze (awned)		101	MS	MS	1	73.9	34.6	88	0	84	215	99	
hrw	Princeton	95	94	MS	S	7	73.9	37.2	76	0.8	100	218	73
	Priesley	105	101	S	MS	6	66.9	30.1	90	0	80	218	103
	 Gallus (awned)	92	89	MS	MS	5	73.3	34.9	70	0	95	216	78
	 HY 301-HRW	103	104	MS	MS	4	71.7	29.2	61	0	85	220	132
	Frontenac	101	100	MS	MS	3	73.9	35.8	65	4	97	217	113
	AC Morley		101	MR	MR	7	73.9	33.8	74	4.5	109	218	122
	AC Sampson		93	S	S	7	71.4	34.9	93	0.3	102	221	78
Means		8.10 t/ha 120 bu/ac	8.15 t/ha 121 bu/ac				72.2	32.6	81	0.9	93	214	7.40 t/ha
Locations		3	2				1	1	1	1	2	2	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 Combined Fusarium Ratings are based on BOTH Fusarium head blight ratings and deoxynivalenol (DON) levels from inoculated provincial trials.

DON Ratings are based only on 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.

 = PBR Status; indicates varieties protected under PBR 91. Visit pbrfacts.ca to learn more.

**Table 6a - Ontario Winter Wheat Performance Trial - Cumulative Yield Indices<sup>1</sup>**

**Managed Trials  
Summary for Area V<sup>2</sup>, OCCC, August 2014**

Class <sup>3</sup>	Variety	2-Year Index <sup>5</sup> Fungicides		2014 Index Fungicides	
		No	Yes	No	Yes
sww	Ava	106 <sup>4</sup>	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	

<sup>1</sup> 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.

<sup>2</sup> Area V = see area map on GoCereals.ca website.

<sup>3</sup> sww = soft white winter, srw = soft red winter, hrw = hard red winter.

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








<sup>5</sup> 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.

 = PBR Status; indicates varieties protected under PBR 91. Visit pbrfacts.ca to learn more.

**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**

Class <sup>1</sup>	Variety	Distributor
sww	Ava	Dow Seeds
	Venture	SeCan Association
	 25W31 (awned)	Pioneer Hi-Bred
srw	Emmit	Dow Seeds
	Branson	Dow Seeds
	25R39	Pioneer Hi-Bred
	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	Dow Seeds
	 Emperor	SeCan Association
	 OAC Flight (awned)	Elite Seeds
	Marker	Bramhill Seeds
	UGRC Ring (awned)	Elite Seeds
	25R46 (awned)	Pioneer Hi-Bred
Cruze (awned)	C & M Seeds	
hrw	AC Morley	Advantage Seed Growers
	AC Sampson	Bramhill Seeds
	Princeton	C & M Seeds
	Priesley	C & M Seeds
	Keldin (awned)	C & M Seeds
	 Gallus (awned)	C & M Seeds
	 HY 301-HRW	Dow Seeds
	Frontenac	Semican Inc

<sup>1</sup> sww = soft white winter, srw = soft red winter, hrw = hard red winter.

 = PBR Status; indicates varieties protected under PBR 91. Visit [pbrfacts.ca](http://pbrfacts.ca) to learn more.



**Table 7b - Ontario Winter Wheat Distributor/Sponsor Contact Information 2015**

Distributor	Address
Advantage Seed Growers	P.O. Box 351, Lucknow, ON, N0G 2H0 Tel: 519-440-6406 Fax: 519-812-1010 Internet: <a href="http://www.advantageseeds.com">www.advantageseeds.com</a>
Bramhill Seeds	5220 Hwy 23, RR#2, Palmerston, ON, N0G 2P0 Tel: 519-343-3630 Fax: 519-343-2037 Internet: <a href="http://www.bramhillseeds.com">www.bramhillseeds.com</a>
C&M Seeds	6180 5th Line, Palmerston, ON, N0G 2P0 Tel: 1-888-733-9432 Fax: 519-343-3792 Internet: <a href="http://www.redwheat.com">www.redwheat.com</a>
Dow Seeds	P.O. Box 1090, 5 Hyland Drive Blenheim, ON, N0P 1A0 Tel: 519-676-8146 Fax: 519-676-6800 Internet: <a href="http://www.dowseeds.com">www.dowseeds.com</a>
Elite Seeds	Available through your local Agromart Tel: 519-282-6701 Internet: <a href="http://www.eliteseeds.ca">www.eliteseeds.ca</a>
Pioneer Hi-Bred Ltd	Box 730, 7398 Queen's Line, Chatham, ON, N7M 5L1 Tel: 1-800-265-9435 Internet: <a href="http://www.pioneer.com">www.pioneer.com</a>
SeCan Association	400-300 Terry Fox Drive, Kanata, ON, K2K 0E3 Tel: 1-866-797-7874 Fax: 613-592-9497 Internet: <a href="http://www.secan.com">www.secan.com</a>
Semican Inc	366 Rang 10, Plessisville, QC G6L 2Y2 Tel: 1-866-736-4226 Internet: <a href="http://www.semican.ca">www.semican.ca</a>