
INFOSheet

Ministry of Agriculture, Food and
Rural Affairs
www.omafra.gov.on.ca

2005 PERFORMANCE TRIALS FOR WINTER WHEAT

Prepared by the Ontario Cereal Crop Committee

This INFOSheet contains the most recent varietal information on winter wheat that was planted in 2004 and harvested in 2005.

References:

OMAF Publication 811, *Agronomy Guide for Field Crops*

OMAF Publication 812, *Field Crop Protection Guide*

For more information contact:

Duane Falk, Department of Plant
Agriculture, University of Guelph
(519) 824-4120, duane.falk@uoguelph.ca

Peter Johnson, OMAF Stratford
(519) 271-8180
peter.johnson@omaf.gov.on.ca

Table of Contents:

- Table 1. Cumulative Yield Index Summary for Area I & II Combined.
- Table 2. Cumulative Yield Index Summary for Area I
- Table 3. Cumulative Yield Index Summary for Area II
- Table 4. Cumulative Yield Index Summary for Area III
- Table 5. Ontario Winter Wheat Varietal Characteristics Based on data from Across Ontario 2004

Table 1 - Ontario Performance Trial; Winter Wheat 2005 – Cumulative Yield Index¹ Summary for Area I & II Combined², OCCC, August 2005

Variety	Class ³	5 year	4 year	3 year	2 year	1 year
AC Ron	sww	102	100	99	98	96
Superior	sww	103	102	102	101	99
AC MacKinnon	sww	104	103	102	100	101
AC Mountain	sww	100	99	99	97	99
Caledonia ⁵	sww	99	97	94	93	95
Whitby	sww	101	98	98	98	99
TWF020:039	sww-a			102	100	99
25W41	sww-a				99	98
Genesis-D8006W	sww-a				102	100
Genesis-D6234W	sww					99
Wisdom	srw	102	102	101	101	103
Webster ⁵	srw	104	103	101	101	102
Warwick	srw	102	100	100	99	97
Sisson ⁵	srw	98	96	97	96	98
25R23	srw-a		108	107	107	105
Vienna	srw		109	109	109	109
FT Wonder	srw		102	101	102	103
25R47	srw-a			113	111	114
RC Strategy	srw			98	97	98
Tribute	srw				104	106
Emmit	srw				111	112
Genesis-E1007	srw-a					104
Genesis-R045	srw					101
AC Morley	hrw	100	98	98	98	94
Maxine	hrw-a	98	96	96	94	95
Platinum ⁵	hrw-a	91	88	89	89	88
Warthog	hrw	97	97	96	96	93
Harvard	hrw		103	101	99	98
Carlisle	hrw-a		101	101	100	102
AC Sampson	hrw		98	98	98	97
Mean (t/ha)		6.20	6.23	6.20	6.09	6.09
No. of locations		37	29	22	15	7

¹ Indexed for each site and then averaged, index = 100 x (variety yield/site yield). Values differing by less than 3 within a column may not represent true differences in yield.

² Area I & II Combined = 2900 West of Frontenac County

³ sww = soft white winter, srw = soft red winter, hrw = hard red winter, a = awned

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

⁵ Entry has been dropped from the 2005/2006 Winter Wheat Performance Trial.

Table 2 - Ontario Performance Trial; Winter Wheat 2005 – Cumulative Yield Index ¹ Summary for Area I², OCCC, August 2005

Variety	Class ³	5 YR	4 YR	3 YR	2 YR	1 YR
AC Ron	sww	102	99	98	98	99
Superior	sww	103	101	102	100	100
AC Mackinnon	sww	104	103	103	101	103
AC Mountain	sww	99	99	98	96	101
Caledonia ⁵	sww	98	97	94	95	98
Whitby	sww	101	99	98	99	103
TWF020:038	sww-a			98	95	93
25W41	sww-a				98	96
Genesis-D8006W	sww-a				96	94
Genesis-D6234W	sww					100
Wisdom	srw	102	101	101	101	105
Webster ⁵	srw	105	104	103	103	106
Warwick	srw	100	99	99	99	97
Sisson ⁵	srw	97	96	97	96	98
25R23	srw-a		111	111	110	108
Vienna	srw		108	108	109	107
FT Wonder	srw		101	100	102	104
25R47	srw-a			114	112	115
RC Strategy	srw			96	96	93
Tribute	srw				104	103
Emmit					110	110
Genesis-E1007	srw-a					100
Genesis-R045	srw					96
AC Morley	hrw	101	99	100	100	96
Maxine	hrw-a	98	97	97	97	96
Platinum ⁵	hrw-a	90	87	87	86	86
Warthog	hrw	99	99	99	100	99
Harvard	hrw		102	102	103	101
Carlisle	hrw-a		100	99	100	100
AC Sampson	hrw		97	97	97	95
Mean Yield		6.30	6.40	6.63	6.31	5.62
# of Locations		15	12	9	6	3

¹ Indexed for each site and then averaged. Index = 100 x (variety yield/site yield). Values differing by less than 3 within a column may not represent true differences in yield.

² AREA I = 2900 Crop Heat Units or more

³ sww = soft white winter, srw = soft red winter, hrw = hard red winter, a = awned

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

⁵ Entry has been dropped from the 2005/2006 Winter Wheat Performance Trial

**Table 3 - Ontario Performance Trial; Winter Wheat 2005 – Cumulative Yield Index¹
Summary for Area II², OCCC, August 2005**

Variety	Class ³	5 YR	4 YR	3 YR	2 YR	1 YR
AC Ron	sww	103	101	100	98	93
Superior	sww	104	102	102	102	99
AC Mackinnon	sww	103	102	102	100	100
Caledonia ⁵	sww	99	96	93	92	94
AC Mountain	sww	100	100	99	98	98
Whitby	sww	100	98	98	97	95
TWF020:038	sww-a			104	103	103
25W41	sww-a				100	98
Genesis-D8006W	sww-a				106	104
Genesis-D6234W	sww					98
Wisdom	srw	103	102	101	101	101
Webster ⁵	srw	104	102	100	100	99
Warwick	srw	103	101	101	99	97
Sisson ⁵	srw	98	96	96	97	98
25R23	srw-a		106	105	105	103
Vienna	srw		109	109	109	110
FT Wonder	srw		102	102	102	103
25R47	srw-a			113	110	114
RC Strategy	srw			99	98	101
Tribute	srw				105	108
Emmit	srw				111	114
Genesis-E1007	srw-a					106
Genesis-R045	srw					104
AC Morley	hrw	100	98	97	97	92
Maxine	hrw-a	97	96	95	93	95
Platinum ⁵	hrw-a	92	89	90	90	90
Warthog	hrw	95	95	94	93	89
Harvard	hrw		103	100	97	95
Carlisle	hrw-a		103	101	101	102
AC Sampson	hrw		98	99	100	98
Mean Yield		6.13	6.12	5.90	5.95	6.45
# of Locations		22	17	13	9	4

¹ Indexed for each site and then averaged. Index = 100 x (variety yield/site yield). Values differing by less than 3 within a column may not represent true differences in yield.

² Area II = West of Frontenac County between 2300 and 2900 Crop Heat Units, Area IV = The Dundalk Plains with less than 2500 heat units, use Area II data

³ sww = soft winter wheat, srw = soft red winter, hrw = hard red winter, a = awned

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

⁵ Entry has been dropped from the 2005/2006 Winter Wheat Performance Trial

2004 DATA⁶

**Table 4 - Ontario Performance Trial; Winter Wheat 2004 – Cumulative Yield Index¹
Summary for Area III², OCCC, August 2004.**

Variety	Class ³	5 YR	4 YR	3 YR	2 YR	1 YR
AC Ron	sww	102	102	101	105	111
Superior	sww	111	112	112	112	115
AC Mackinnon	sww	106	107	103	103	107
AC Mountain	sww	105	105	108	110	114
Caledonia	sww	89	89	93	79	66
Whitby	sww	102	103	95	94	96
25W41	sww-a					85
Wisdom	srw	102	103	102	100	101
Webster	srw		102	104	100	96
Warwick	srw		96	96	90	89
Whitney ⁵	srw		101	99	96	95
Sisson	srw		100	96	91	83
25R23	srw-a			98	95	88
Vienna	srw			107	112	107
Kristy ⁵	srw			108	108	111
FT Wonder	srw			95	95	99
25R47	srw-a				113	109
RC Strategy	srw				103	105
Tribute	srw					96
AC Morley	hrw	94	95	96	97	104
Maxine	hrw-a	93	94	93	94	107
Platinum	hrw-a	95	95	91	89	89
Warthog	hrw		98	98	100	105
Harvard	hrw			103	109	109
Carlisle	hrw-a			99	99	95
AC Sampson	hrw			105	109	118
Mean Yield		5.96	5.94	6.59	7.22	6.76
# of Locations		6	6	4	2	1

¹ Indexed for each site and then averaged. Index = 100 x (variety yield/site yield). Values differing by less than 3 within a column may not represent true difference in yield.

² Area III = East of Frontenac between 2500 and 2900 Crop Heat Units. **There were no yield data for Area III in 2000.

³ sww = soft white winter, srw = soft red winter, hrw = hard red winter, a = awned

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

⁵ Entry has been dropped from the 2004/2005 Winter Wheat Performance Trial.

⁶ All Area III trials lost in 2005

Table 5 - Ontario Winter Wheat Varietal Characteristics Based on Data from Across Ontario 2005, OCCC, August 2005.

Variety	Test Wt (kg/hl)	TKW (g)	Winter Survival (%)	Lodging (0-9) ¹	Height (cm)	Heading Date ²	Powdery Mildew (0-9) ¹	Stripe Rust (0-9) ¹	Septoria (0-9) ¹	Fusarium Rating ⁴	Years (Fusarium Data)
AC Ron	74.7	39	76	1.6	92	158	3.2	3.0	4.1	HS	4
Superior	75.2	39	81	2.5	91	159	2.7	1.3	3.4	S	4
AC Mackinnon	76.0	38	80	1.6	92	157	3.2	2.3	3.9	HS	4
AC Mountain	75.7	40	78	2.8	94	158	3.4	4.7	3.8	MS	4
Caledonia ⁵	75.9	39	71	1.2	78	159	3.2	2.0	3.5	HS	4
Whitby	74.2	38	77	4.5	94	160	1.9	2.3	3.8	MS	4
TWF020:038	74.7	39	80	2.9	94	160	0.5	0.3	3.3	MS	2
25W41	76.8	33	73	1.1	78	158	5.2	1.0	2.7	S	2
Genesis:D8006W	74.6	40	81	1.8	85	158	1.0	1.0	4.6	HS	2
Genesis:D6234W	76.7	35	74	2.5	86	159	2.9	5.3	4.3	MS	1
Wisdom	77.0	34	84	4.2	88	157	6.1	2.0	4.9	MR	4
Webster ⁵	75.2	38	85	3.8	87	158	2.9	0.7	4.0	S	4
Warwick	76.5	38	84	2.7	90	157	2.6	0.0	4.2	MS	4
Sisson ⁵	78.4	37	77	3.9	76	157	2.2	3.0	4.6	HS	4
25R23	77.1	38	79	1.1	82	158	3.2	4.7	2.4	S	4
Vienna	77.1	32	81	2.0	89	157	0.2	3.0	4.3	MR	4
FT Wonder	78.7	42	83	2.8	86	156	2.2	0.7	4.3	MR	4
25R47	76.7	36	82	1.9	80	157	3.8	0.7	2.8	S	3
RC Strategy	76.2	31	80	4.0	76	157	1.9	5.0	4.4	S	3
Tribute	80.5	35	79	3.4	79	156	0.4	4.3	3.5	MS	2
Emmit	77.0	37	83	2.5	85	158	3.1	3.3	3.7	MS	2
Genesis:E1007	78.0	37	72	1.4	82	158	2.3	3.3	3.5	S	1
Genesis:R045	77.7	34	81	3.4	81	157	1.6	1.3	4.8	MS	1
AC Morley	78.2	37	82	1.5	103	158	1.6	1.0	3.8	MR	4
Maxine	80.2	42	77	1.8	84	158	3.9	1.0	3.9	S	4
Platinum ⁵	79.0	39	80	0.2	99	161	1.1	0.0	3.9	MR	4
Warthog	79.9	37	83	0.8	91	159	2.0	1.0	3.6	MS	4
Harvard	80.2	44	78	0.9	91	157	3.5	0.7	3.5	S	4
Carlisle	79.8	47	80	2.2	82	157	2.6	0.3	4.4	MS	4
AC Sampson	76.2	39	84	2.5	89	161	2.0	0.0	4.3	S	4
# of Locations	7	6	2	2	6	5	2	1	3		

¹ For ratings 0-9, a high score is undesirable.

² Heading may vary from year to year and should only be used to indicate relative differences.

³ Entry has been dropped from the 2004-2005 Winter Wheat Performance Trial.

⁴ 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);

⁵ Entry has been dropped from the 2005/2006 Winter Wheat Performance Trial