

Ontario Winter Wheat Performance Trial 2000

***Ministry of Agriculture and Food
Crop Technology Branch***



***Prepared by the Ontario Cereal Crop Committee
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This report contains the most recent varietal information on winter wheat that was planted in 1999 and harvested in 2000.

Contents:

Cumulative Yield Index Summary for Area I & II Combined

Cumulative Yield Index Summary for Area I

Cumulative Yield Index Summary for Area II

Cumulative Yield Index Summary for Area III

Varietal Characteristics Based on Data From Across Ontario 2000

Ontario Winter Wheat Performance Trial 2000; Cumulative Yield Index¹ Summary for Ontario, Area I & II OCCC August, 2000

Cultivar	Class ²	8 year	6 year	5 year	4 year	3 year	2 year	1 year
Harus	sww	99	97	97	98	100	99	101
Karena	sww	100	100	100	101	101	100	101
AC Ron	sww	102	101	100	100	100	99	101
OAC Ariss	sww	100	100	99	99	98	98	100
Marilee	sww		100	100	99	99	100	100
AC Cartier	sww					97	97	95
25W33	sww-a			105	104	104	105	106
Superior	sww				103	104	104	104
25W60	sww-a					110	107	109
AC MacKinnon	sww					100	96	95
AC Mountain	sww					104	99	101
AC Essex	sww					104	102	101
Caledonia	sww						103	104
TW96273	sww							102
Freedom	srw		105	104	103	103	102	104
Mendon	srw			105	104	105	103	101
2540	srw-a				107	107	104	101
25R26	srw-a					107	105	107
Ashland	srw					100	99	99
CM 951067	srw						105	108
Wisdom	srw						107	110
RC 98109	srw							117
CM546	srw							103
Fundulea	hrw	101	99	97	97	97	96	96
AC Morley	hrw			101	99	100	100	104
Hanover	hrw			93	93	93	92	90
Patriot	hrw				98	99	97	97
AC Delta	hrw					76	78	70
Maxim (CM 95009)	hrw						103	107
FWB 728	hrw							93
CM 96097	hrw							106
Platinum(CM97001)	hrw							83
Walkerton	hrw							83
TW95412	spww						106	109
Mean (t/ha)		5.37	5.56	5.42	5.73	5.71	5.90	5.88
No. of locations		66	50	38	30	23	16	8

¹ Indexed for each site and then averaged. Index = 100 x (variety yield/site yield). ² sww = soft white winter, srw = soft red winter, hrw = hard red winter, spww= specialty white winter, -a= awned. Cultivar yield rankings may vary from year to year. Decisions are therefore best made using data with the greatest number of years. AREA I = 2900 Corn Heat Units or more. AREA II =West of Frontenac between 2300 and 2900 Corn Heat Units.

Ontario Winter Wheat Performance Trial 2000; Cumulative Yield Index¹ Summary for Area I²
 OCCC August, 2000.

Cultivar	Class ³	8 year	6 year	5 year	4 year	3 year	2 year	1 year
Harus	sww	98	97	96	98	99	98	100
Karena	sww	98	98	97	98	97	96	96
AC Ron	sww	101	101	100	100	99	99	97
OAC Ariss	sww	100	99	99	98	97	98	98
Marilee	sww		97	98	96	97	99	98
AC Cartier	sww					96	96	95
25W33	sww-a			106	106	105	105	105
Superior	sww				100	100	102	100
25W60	sww-a					114	110	112
AC MacKinnon	sww					99	96	94
AC Mountain	sww					106	101	100
AC Essex	sww					106	103	102
Caledonia	sww						105	106
TW96273	sww							98
Freedom	srw		106	105	103	102	102	102
Mendon	srw			106	103	103	100	95
2540	srw-a				111	110	106	104
25R26	srw-a					111	106	107
Ashland	srw					100	97	95
CM 951067	srw						104	109
Wisdom	srw						109	113
RC 98109	srw							121
CM546	srw							107
Fundulea	hrw	103	102	100	100	99	98	98
AC Morley	hrw			98	96	96	97	102
Hanover	hrw			94	93	93	92	90
Patriot	hrw				99	101	98	101
AC Delta	hrw					72	76	68
Maxim (CM 95009)	hrw						102	109
FWB 728	hrw							100
CM 96097	hrw							112
Platinum(CM97001)	hrw							80
Walkerton	hrw							78
TW95412	spww						105	107
Mean (t/ha)		5.35	5.43	5.24	5.60	5.61	6.05	6.09
No. of locations		24	20	16	12	9	6	3

¹ Indexed for each site and then averaged. Index = 100 x (variety yield/site yield). ² AREA I = 2900 Corn Heat Units or more. ³ sww = soft white winter, srw = soft red winter, hrw = hard red winter, spww= specialty white winter, -a= awned. Cultivar yield rankings may vary from year to year. Decisions are therefore best made using data with the greatest number of years.

Ontario Winter Wheat Performance Trial 2000; Cumulative Yield Index¹ Summary for Area II²
 OCCC August, 2000.

Cultivar	Class ³	8 year	6 year	5 year	4 year	3 year	2 year	1 year
Harus	sww	99	97	97	98	100	99	102
Karena	sww	101	101	102	103	104	103	106
AC Ron	sww	102	101	99	100	101	99	104
OAC Ariss	sww	100	100	99	99	98	97	101
Marilee	sww		102	102	101	101	101	101
AC Cartier	sww					97	97	94
25W33	sww-a			104	102	103	104	107
Superior	sww				106	107	106	108
25W60	sww-a					106	104	106
AC MacKinnon	sww					101	96	96
AC Mountain	sww					102	97	101
AC Essex	sww					101	100	100
Caledonia	sww						101	102
TW96273	sww							106
Freedom	srw		104	103	102	103	102	106
Mendon	srw			104	104	107	105	106
2540	srw-a				102	103	101	97
25R26	srw-a					103	103	106
Ashland	srw					100	101	102
CM 951067	srw						105	107
Wisdom	srw						105	107
RC 98109	srw							112
CM546	srw							99
Fundulea	hrw	99	96	94	94	94	93	93
AC Morley	hrw			104	102	103	103	105
Hanover	hrw			92	92	92	92	90
Patriot	hrw				96	97	95	92
AC Delta	hrw					79	79	72
Maxim (CM 95009)	hrw						104	105
FWB 728	hrw							86
CM 96097	hrw							100
Platinum(CM97001)	hrw							85
Walkerton	hrw							88
TW95412	spww						106	111
Mean (t/ha)		5.39	5.68	5.60	5.85	5.81	5.74	5.66
No. of locations		42	30	22	18	14	10	5

Indexed for each site and then averaged. Index = 100 x (variety yield/site yield).² AREA II = West of Frontenac between 2300 and 2900 Corn Heat Units, Area IV = The Dundalk Plains with less than 2500 heat units, use Area II data..³ sww = soft white winter, srw = soft red winter, hrw = hard red winter, spww= specialty white winter, -a= awned. Cultivar yield rankings may vary from year to year. Decisions are therefore best made using data with the greatest number of years.

Ontario Winter Wheat Performance Trial 2000; Cumulative Yield Index¹ Summary for Area III²**

Cultivar	Class ³	7 year	6 year	4 year	2 year	1 year
Harus	sww	95	94	92	89	87
Karena	sww	102	98	96	96	88
AC Ron	sww	106	108	112	108	110
OAC Ariss	sww	98	99	97	96	85
Marilee	sww		103	104	101	102
AC Cartier	sww				107	104
25W33	sww-a			109	103	106
Superior	sww				109	113
25W60	sww-a				100	99
AC MacKinnon	sww				108	105
AC Mountain	sww				112	111
AC Essex	sww				116	117
Caledonia	sww					113
Freedom	srw		101	97	92	96
Mendon	srw			103	105	102
2540	srw-a				107	102
25R26	srw-a				94	92
Ashland	srw				89	92
CM 951067	srw					96
Wisdom;139J	srw					110
Fundulea	hrw	96	96	95	95	103
AC Morley	hrw			95	94	90
Hanover	hrw			103	96	102
Patriot	hrw				98	102
AC Delta	hrw				88	88
Maxim;CM 95009	hrw-a					93
TW95412	spww					95
Mean (t/ha)		5.20	4.90	4.97	5.05	4.74
No. of locations		9	5	3	2	1

¹ Indexed for each site and then averaged. Index = 100 x (variety yield/site yield). **There were no yield data for Area III in 1997 and in 2000. ²Area III = East of Frontenac between 2500 and 2900 Corn Heat Units. ³ sww=soft white winter, srw=soft red winter, spww= specialty white winter, hrw=hard red winter, -a= awned. Cultivar yield rankings may vary from year to year. Decisions are therefore best made using data with the greatest number of years.

**Ontario Winter Wheat Varietal Characteristics Based on Data from Across Ontario, 2000
OCCC August, 2000**

Cultivar	Test Weight	1000 Kernel Weight	Lodging (0-9) ²	Survival (%)	Height (cm)	Heading ¹ Date	Powdery Mildew (0-9) ²	Leaf Rust (0-9) ²	Stem Rust (0-9) ²	BYDV (0-9) ²	Septoria (0-9) ²	Phys. ¹ Mat.
Harus;sww	72.6	34	0.9	98	107	4/6	2.9	4.0	1.0	0.2	5.0	10/7
Karena; sww	71.4	34	1.5	98	111	4/6	2.6	4.1	3.0	0.2	4.0	11/7
AC Ron;sww	70.1	34	1.1	97	111	4/6	3.9	4.4	2.0	0.3	4.7	11/7
OAC Ariss;sww	72.4	31	1.5	99	104	5/6	3.9	6.1	2.0	0.2	5.2	12/7
Marilee;sww	70.0	37	1.3	97	108	5/6	4.1	6.1	1.0	0.5	5.7	13/7
AC Cartier;sww	73.9	37	1.2	97	111	5/6	2.6	2.1	1.5	0.0	5.3	12/7
25W33;sww	70.9	30	0.7	96	91	1/6	2.3	1.6	0.5	0.2	3.5	10/7
Superior;sww	72.5	36	1.5	99	106	4/6	2.8	4.5	3.0	0.5	4.0	13/7
25W60;sww	73.3	36	0.6	99	97	31/5	3.2	2.5	0.0	0.0	3.9	8/7
AC MacKinnon	69.4	31	0.9	99	104	2/6	3.0	6.5	1.5	0.2	4.9	10/7
AC Mountain	70.9	33	1.5	98	107	3/6	4.4	5.1	2.5	0.4	4.8	9/7
AC Essex;sww	71.7	34	1.1	99	107	3/6	4.2	4.5	1.5	0.4	4.4	9/7
Caledonia;sww	71.4	36	0.6	95	94	2/6	2.9	3.0	1.0	0.0	3.4	10/7
TW96273;sww	70.8	35	2.1	96	109	5/6	2.5	2.0	0.0	0.0	4.7	12/7
Freedom;srw	72.5	32	1.4	95	100	2/6	3.5	0.8	0.5	0.4	4.0	11/7
Mendon;srw	71.6	37	3.6	100	108	31/5	4.0	3.8	0.5	0.0	4.5	7/7
2540;srw-a	72.5	35	0.9	96	95	2/6	4.2	4.9	1.0	0.0	4.7	10/7
25R26;srw-a	72.1	33	0.3	98	89	2/6	4.5	1.6	0.5	0.1	4.1	10/7
Ashland;srw	70.9	31	1.2	98	98	4/6	5.1	1.5	0.0	0.6	4.6	12/7
CM951067;srw	74.7	34	0.3	98	99	4/6	4.8	2.5	1.0	0.2	3.5	11/7
Wisdom;srw	74.2	35	1.3	98	99	30/5	2.9	0.5	0.0	0.2	3.9	9/7
RC98109;srw	74.4	38	2.1	99	99	29/5	0.4	3.0	0.5	0.1	4.3	8/7
CM 546;srw	74.5	34	2.1	99	103	1/6	2.4	2.8	0.0	0.0	4.9	8/7
Fundulea;hrw	75.5	32	0.6	96	100	5/6	4.5	2.1	0.0	0.5	5.3	9/7
AC Morley;hrw	76.3	35	2.8	99	115	4/6	2.0	1.2	0.5	1.0	3.3	11/7
Hanover;hrw	71.3	35	0.1	99	99	4/6	4.6	3.6	2.5	0.4	5.0	12/7
Patriot;hrw	76.1	38	0.7	97	96	1/6	3.3	1.5	1.0	0.1	4.0	9/7
AC Delta;hrw	70.9	33	1.8	100	115	10/6	3.1	3.2	1.0	0.8	4.1	14/7
Maxim;hrw-a	76.3	41	1.3	96	98	1/6	0.4	2.1	0.0	0.4	3.7	10/7
FWB728;hrw	74.4	37	0.4	90	90	2/6	4.3	0.8	0.5	0.1	5.9	10/7
CM96097;hrw	74.6	43	1.0	98	102	2/6	0.6	2.1	0.5	0.7	3.2	10/7
Platinum;hrw	75.2	36	2.6	98	113	7/6	2.3	1.8	0.5	0.0	2.8	14/7
Walkerton;hrw	68.6	37	0.2	85	98	11/6	0.3	0.5	0.0	0.3	3.0	17/7
TW95412;spww	73.1	35	1.9	98	109	4/6	2.7	4.4	1.0	0.0	3.2	10/7
no. of locations	8	7	7	2	8	6	7	7	1	1	4	4

¹Heading and Physiological Maturity dates vary from year to year and should only be used to indicate relative differences. ²For ratings 0-9 a high score is undesirable. hrw=hard red winter, srw=soft red winter, sww=soft white winter, spww= specialty white winter, -a=awned.

All varieties showed similar susceptibility to fusarium head blight in this year's field trials.