

Ontario Winter Wheat Performance Trial 2001

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 2000 and harvested in 2001.

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**Ontario Winter Wheat Performance Trial 2001; Cumulative Yield Index¹ Summary for Area I²
OCCC August, 2001.**

Cultivar	Class ³	5 year	4 year	3 year	2 year	1 year
Harus	sww	99	99	99	102	104
Karena	sww	99	98	98	100	105
AC Ron	sww	101	100	102	102	108
OAC Ariss	sww	99	97	98	99	101
AC Cartier	sww		94	94	93	91
25W33	sww-a	105	104	104	104	103
Superior	sww	101	100	102	102	104
25W60	sww-a		112	110	111	110
AC MacKinnon	sww		99	97	97	101
AC Mountain	sww		102	99	98	96
AC Essex	sww		103	101	100	99
Caledonia	sww			102	101	97
Whitby	sww				102	106
TW97239	sww					95
Freedom	srw	101	101	100	100	99
Mendon	srw	103	103	101	100	106
2540	srw-a	109	108	105	104	105
Ashland	srw		99	97	96	98
Stealth (CM951067)	srw			105	108	107
Wisdom	srw			106	106	101
Clarity (CM 546)	srw-a				104	102
Genesis 99-5	srw					105
TW97613	srw					101
25R37	srw					105
25R49	srw					106
RC Doyle (RC98106)	srw					95
RC98110	srw-a					100
VA96W247(RC98111)	srw					101
RC98113	srw					98
Fundulea	hrw	98	96	96	95	92
AC Morley	hrw	97	96	99	102	102
Hanover	hrw	92	91	91	89	89
Patriot	hrw	97	98	95	96	92
Maxine	hrw-a			100	102	97
CM 96097	hrw				104	97
Platinum	hrw-a				88	96
TW025-C36	hrw					94
TW025-C76	hrw					94
Mean (t/ha)		5.75	5.81	6.13	6.18	6.23
No. 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.

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 2001; Cumulative Yield Index¹ Summary for Area II²
 OCCC August, 2001.

Cultivar	Class ³	5 year	4 year	3 year	2 year	1 year
Harus	sww	99	99	99	100	100
Karena	sww	103	103	102	103	102
AC Ron	sww	101	102	101	104	106
OAC Ariss	sww	100	99	99	101	103
AC Cartier	sww		96	97	94	96
25W33	sww-a	102	103	104	105	104
Superior	sww	106	106	106	106	105
25W60	sww-a		104	102	102	99
AC MacKinnon	sww		101	99	100	105
AC Mountain	sww		99	96	98	96
AC Essex	sww		100	99	100	100
Caledonia	sww			102	103	104
Whitby	sww				105	106
TW97239	sww					99
Freedom	srw	101	101	101	101	98
Mendon	srw	104	105	104	104	103
2540	srw-a	102	102	101	99	102
Ashland	srw		98	99	98	96
Stealth (CM951067)	srw			103	103	101
Wisdom	srw			103	104	101
Clarity (CM 546)	srw-a				99	99
Genesis 99-5	srw					105
TW97613	srw					106
25R37	srw					94
25R49	srw					107
RC Doyle (RC98106)	srw					91
RC98110	srw-a					104
VA96W247(RC98111)	srw					102
RC98113	srw					100
Fundulea	hrw	94	93	93	92	92
AC Morley	hrw	102	102	103	103	103
Hanover	hrw	92	91	92	91	93
Patriot	hrw	96	96	95	93	95
Maxine	hrw-a			102	102	99
CM 96097	hrw				100	102
Platinum	hrw-a				92	99
TW025-C36	hrw					93
TW025-C76	hrw					92
Mean (t/ha)		5.96	5.99	5.96	6.04	6.35
No. of locations		23	19	15	10	5

- 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 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 white winter, srw = soft red 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 Performance Trial 2001; Cumulative Yield Index¹ Summary for Area III²**
 OCCC August, 2001.

Cultivar	Class ³	5 year	4 year	3 year	2 year	1 year
Harus	sww	94	93	94	96	97
Karena	sww	100	98	97	101	101
AC Ron	sww	108	106	107	104	104
OAC Ariss	sww	97	95	92	95	95
AC Cartier	sww		110	111	113	113
25W33	sww-a	99	97	97	92	92
Superior	sww	112	111	113	112	113
25W60	sww-a		94	92	87	88
AC MacKinnon	sww		111	112	114	115
AC Mountain	sww		106	104	100	100
AC Essex	sww		111	111	107	108
Caledonia	sww			93	82	83
Whitby	sww				117	117
TW97239	sww					100
Freedom	srw	95	94	96	95	96
Mendon	srw	101	100	97	94	95
2540	srw-a	108	107	106	107	108
Ashland	srw		88	90	88	88
Stealth (CM951067)	srw			96	95	95
Wisdom	srw			106	103	104
Clarity (CM 546)	srw-a				106	106
Genesis 99-5	srw					98
TW97613	srw					97
25R37	srw					86
25R49	srw					95
RC Doyle (RC98106)	srw					86
RC98110	srw-a					105
VA96W247(RC98111)	srw					105
RC98113	srw					108
Fundulea	hrw	89	87	88	80	81
AC Morley	hrw	94	93	93	92	93
Hanover	hrw	97	95	98	95	96
Patriot	hrw	107	106	111	114	114
Maxine	hrw-a			95	94	95
CM 96097	hrw				114	115
Platinum	hrw-a				104	104
TW025-C36	hrw					98
TW025-C76	hrw					108
Mean (t/ha)		4.81	4.88	4.67	4.69	4.66
No. of locations		4	4	3	2	2

- 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 III = East of Frontenac between 2500 and 2900 Crop Heat Units. ** There were no yield data for Area III in 1997 and in 2000.
- 4 sww=soft white winter, srw=soft red 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.

TABLE 0-1.

**Ontario Winter Wheat Varietal Characteristics Based on Data From Across Ontario 2001
OCCC August, 2001.**

Cultivar	Class	Test Weight (kg/hl)	1,000-Kernel Weight (g)	Winter Survival (%)	Lodging (0-9) ¹	Height (cm)	Heading Date ²	Powdery Mildew (0-9) ¹	Leaf Rust (0-9) ¹	Septoria (0-9) ¹	Glume Blotch (0-9) ¹	Fusarium Head Blight Index (0-100) ³	DON (ppm) ⁴
Harus	sww	77.9	41	92	0.2	102	5/6	2.4	2.7	4.3	1.5	37	5.7
Karena	sww	77.3	41	95	0.3	107	6/6	2.5	2.5	3.8	1.5	31	3.5
AC Ron	sww	77.6	42	92	0.9	104	6/6	3.6	3.7	3.7	0.0	33	7.6
OAC Ariss	sww	78.5	37	96	1.0	95	7/6	3.2	4.5	4.2	1.0	40	7.2
AC Cartier	sww	77.9	43	97	0.7	104	7/6	2.3	1.5	4.7	1.5	27	1.7
25W33	sww-a	76.9	35	88	0.5	84	5/6	2.4	0.6	4.2	0.5	28	8.7
Superior	sww	77.8	43	96	0.4	100	7/6	1.9	2.2	3.8	0.5	24	6.5
25W60	sww-a	77.9	39	82	0.9	93	3/6	3.5	1.3	4.7	3.0	34	11.9
AC MacKinnon	sww	76.7	39	95	0.7	100	4/6	3.3	5.1	5.5	2.5	27	13.6
AC Mountain	sww	76.3	40	95	1.7	101	5/6	3.2	2.8	4.2	1.0	33	8.2
AC Essex	sww	76.8	42	96	0.9	100	5/6	3.1	2.8	4.7	1.0	29	8.4
Caledonia	sww	77.3	42	94	0.2	86	5/6	3.3	1.4	4.0	0.5	39	13.4
Whitby(TW96273)	sww	77.1	44	97	1.1	105	8/6	2.0	1.8	4.2	0.5	28	6.5
TW97239	sww	78.8	36	91	0.2	88	3/6	1.0	1.9	4.0	1.0	25	5.2
Freedom	srw	76.4	37	94	0.3	95	4/6	2.8	1.1	4.0	2.0	30	5.8
Mendon	srw	75.7	43	93	2.5	102	2/6	4.3	1.2	5.0	1.5	26	6.9
2540	srw	78.5	41	93	0.2	89	3/6	3.2	0.9	4.2	1.5	25	12.7
Ashland	srw	75.3	34	93	0.4	93	1/6	5.3	1.1	5.2	2.5	29	7.3
Stealth (CM951067)	srw	77.5	40	87	0.2	93	5/6	5.4	2.9	4.0	2.0	27	6.1
Wisdom	srw	78.3	39	95	2.0	94	1/6	3.6	0.5	5.0	2.0	26	6.1
Clarity(CM546)	srw-a	78.5	41	97	0.5	98	4/6	2.1	2.5	4.0	1.0	28	4.9
Genesis 99-5	srw	77.4	38	95	2.3	97	4/6	3.5	1.0	3.5	0.5	30	7.1
TW97613	srw	78.9	43	92	0.6	96	3/6	2.6	0.8	3.7	0.0	27	5.7
25R37	srw	79.4	43	81	0.2	84	2/6	2.9	2.6	3.5	1.5	28	4.3
25R49	srw	79.1	42	96	0.5	85	1/6	1.6	1.3	4.2	0.5	33	8.5
RC Doyle (RC98106)	srw	78.2	40	95	0.5	95	31/5	6.3	1.0	4.5	3.0	26	5.3
RC98110	srw-a	77.5	42	87	0.2	87	3/6	0.4	3.2	4.0	0.0	30	15.2
VA96W-247 (RC98111)	srw	78.5	38	96	0.6	83	3/6	0.3	1.3	3.3	0.5	33	8.5
RC98113	srw	77.9	40	95	0.4	83	3/6	1.7	1.5	3.3	0.5	27	6.9
Fundulea	hrw	80.8	38	94	0.2	91	7/6	5.1	2.4	4.7	1.5	36	4.4
AC Morley	hrw	80.1	40	97	1.6	111	5/6	1.5	0.5	4.2	0.5	26	3.3
Hanover	hrw	76.1	44	96	0.4	94	6/6	4.5	2.8	5.0	1.5	41	9.4
Patriot	hrw	79.6	40	96	0.2	91	3/6	2.1	0.6	5.3	2.5	41	5.9
Maxine	hrw-a	79.5	46	98	0.2	94	2/6	0.1	0.7	4.5	0.0	27	6.2
CM96097	hrw	78.9	48	96	0.2	96	5/6	0.1	0.8	4.7	2.0	39	7.3
Platinum	hrw-a	81.2	44	99	0.2	111	8/6	1.9	1.5	3.8	0.5	21	1.4
TW025-C36	hrw	80.4	40	96	0.2	96	5/6	3.4	1.0	4.2	1.0	33	5.3
TW025-C76	hrw	79.5	39	97	0.2	94	4/6	3.7	0.8	4.5	0.5	33	4.8
No. of locations		10	10	6	6	10	9	7	5	3	1	2	1

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 % spikelets infected x % heads infected in inoculated, mist irrigated trials at Ridgetown College and Ottawa.

⁴ Deoxynivalenol (vomitoxin) in parts per million at Ridgetown College trials.