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# INFOSheet

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Ministry of Agriculture, Food and  
Rural Affairs  
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## 2007 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 2006 and harvested in 2007.

### **References:**

OMAFRA Publication 811, *Agronomy Guide for Field Crops*

OMAFRA Publication 812, *Field Crop Protection Guide*

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**Table 1 - Ontario Performance Trial; Winter Wheat 2007 – Cumulative Yield Index<sup>1</sup> Summary for Area I & II Combined<sup>2</sup>, OCCC, August 2007**

Variety	Class <sup>3</sup>	5 year	4 year	3 year	2 year	2007
Superior	sww	101 <sup>4</sup>	100	100	100	103
AC Mackinnon	sww	103	102	103	105	103
AC Mountain	sww	100	99	100	101	101
Ashley	sww-a	101	100	99	100	97
25W41	sww-a		99	99	100	106
D8006W	sww-a		102	102	103	107
Ava	sww				104	106
E1009W	sww				106	105
FT Action	sww					90
Wisdom	srw	101	100	101	101	101
Warwick	srw	100	99	98	99	98
Vienna	srw	103	102	99	94	97
FT Wonder	srw	99	99	98	96	95
25R47	srw-a	111	109	109	107	112
Tribute	srw		103	103	102	101
Emmit	srw		110	110	110	110
E1007R	srw-a			105	106	104
R045	srw-a			101	102	106
Huntley	srw-a			102	100	100
Becher	srw				103	103
ADV Dyno	srw				102	106
R055	srw				104	103
25R56	srw				109	113
25R51	srw					103
AC Morley	hrw	98	97	95	97	98
Maxine	hrw-a	94	92	91	89	85
Warthog	hrw	97	97	96	99	96
Harvard	hrw	99	98	96	96	96
Carlisle	hrw-a	98	97	97	95	94
AC Sampson	hrw	96	96	94	93	91
Wentworth	hrw				100	97
FTHP Redeemer	hrw				88	88
Means		6.31	6.26	6.14	6.16	5.73
Locations		31	25	18	11	5

<sup>1</sup> 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.

<sup>2</sup> Area I & II Combined = all heat unit zones West of Frontenac County.

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

<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.

**Table 2 - Ontario Performance Trial; Winter Wheat 2007 – Cumulative Yield Index <sup>1</sup> Summary for Area I<sup>2</sup>, OCCC, August 2007**

Variety	Class <sup>3</sup>	5 year	4 year	3 year	2 year	2007
Superior	sww	101 <sup>4</sup>	100	100	100	100
AC Mackinnon	sww	103	102	103	104	102
AC Mountain	sww	100	100	103	104	101
Ashley	sww-a	98	97	96	97	97
25W41	sww-a		101	101	103	107
D8006W	sww-a		100	101	103	109
Ava	sww				104	105
E1009W	sww				106	105
FT Action	sww					86
Wisdom	srw	102	102	104	103	102
Warwick	srw	99	98	98	98	97
Vienna	srw	102	101	98	94	94
FT Wonder	srw	98	99	98	96	95
25R47	srw-a	112	111	111	110	114
Tribute	srw		102	101	100	103
Emmit	srw		109	108	108	111
E1007R	srw-a			104	106	105
R045	srw-a			99	101	104
Huntley	srw-a			102	101	104
Becher	srw				102	103
ADV Dyno	srw				103	106
R055	srw				104	104
25R56	srw				112	116
25R51	srw					104
AC Morley	hrw	99	99	97	98	98
Maxine	hrw-a	93	91	89	87	83
Warthog	hrw	100	101	100	101	99
Harvard	hrw	100	99	97	96	95
Carlisle	hrw-a	97	96	95	93	93
AC Sampson	hrw	95	94	93	92	89
Wentworth	hrw				98	95
FTHP Redeemer	hrw				87	88
Means		6.47	6.30	6.08	6.30	5.85
Locations		16	13	10	7	4

<sup>1</sup> 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.

<sup>2</sup> Area I = 2900 Crop Heat Units or more.

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

<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.

**Table 3 - Ontario Performance Trial; Winter Wheat 2007 – Cumulative Yield Index<sup>1</sup> Summary for Area II<sup>2</sup>, OCCC, August 2007**

Variety	Class <sup>3</sup>	5 year	4 year	3 year	2 year	2007 <sup>5</sup>
Superior	sww	101 <sup>4</sup>	100	99	100	117
AC Mackinnon	sww	103	102	102	106	107
AC Mountain	sww	99	97	97	97	98
Ashley	sww-a	104	103	103	105	95
25W41	sww-a		98	96	95	103
D8006W	sww-a		104	103	103	95
Ava	sww				103	108
E1009W	sww				106	105
FT Action	sww					104
Wisdom	srw	99	99	98	96	97
Warwick	srw	101	99	98	102	102
Vienna	srw	104	103	101	92	107
FT Wonder	srw	99	99	98	95	97
25R47	srw-a	109	107	107	101	106
Tribute	srw		105	106	104	93
Emmit	srw		112	112	112	108
E1007R	srw-a			105	105	99
R045	srw-a			104	104	111
Huntley	srw-a			101	98	85
Becher	srw				107	101
ADV Dyno	srw				99	106
R055	srw				104	97
25R56	srw				105	98
25R51	srw					96
AC Morley	hrw	97	96	93	95	97
Maxine	hrw-a	95	93	93	92	92
Warthog	hrw	93	92	91	95	86
Harvard	hrw	99	96	95	96	101
Carlisle	hrw-a	100	99	100	98	95
AC Sampson	hrw	98	98	96	94	101
Wentworth	hrw				103	104
FTHP Redeemer	hrw				90	86
Means		6.15	6.22	6.21	5.92	5.25
Locations		15	12	8	4	1

<sup>1</sup> 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.

<sup>2</sup> Area II = West of Frontenac County between 2300 and 2900 Crop Heat Units.

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

<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> Data from only one location. Variety decisions should not be made on only one location. Use multi year data.

**Table 4 - Ontario Performance Trial; Winter Wheat 2007 – Cumulative Yield Index<sup>1</sup> Summary for Area III<sup>2</sup>, OCCC, August 2007.**

Variety	Class <sup>3</sup>	5 year	4 year	2 year	2007
Superior	sww	105 <sup>4</sup>	106	105	107
AC Mackinnon	sww	103	105	107	106
AC Mountain	sww	106	108	110	111
Ashley	sww-a	100	99	99	105
25W41	sww-a		94	98	101
D8006W	sww-a		97	97	96
Ava	sww			106	104
E1009W	sww			100	98
FT Action	sww				90
Wisdom	srw	100	100	101	102
Warwick	srw	93	93	94	96
Vienna	srw	103	99	97	90
FT Wonder	srw	97	97	97	102
25R47	srw-a	112	109	111	114
Tribute	srw		90	88	94
Emmit	srw		111	112	109
E1007R	srw-a			109	110
R045	srw-a			98	103
Huntley	srw-a			93	92
Becher	srw			99	96
ADV Dyno	srw			110	110
R055	srw			95	94
25R56	srw			109	100
25R51	srw				101
AC Morley	hrw	97	101	102	104
Maxine	hrw-a	89	91	88	87
Warthog	hrw	99	100	100	100
Harvard	hrw	101	101	100	99
Carlisle	hrw-a	96	95	94	97
AC Sampson	hrw	100	102	100	101
Wentworth	hrw			100	92
FTHP Redeemer	hrw			88	91
Means		5.66	5.35	5.49	4.89
Locations		9	7	5	3

<sup>1</sup> 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.

<sup>2</sup> Area III = East of Frontenac County.

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

<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.

**All Area III trials lost in 2005, thus no 3 year averages to report.**

**Table 5 - Ontario Winter Wheat Varietal Characteristics Based on Data from Across Ontario 2007, OCCC, August 2007.**

Variety	Test Wt (kg/hl)	TKW (g)	Winter Survival (%)	Lodging (0-9) <sup>1</sup>	Height (cm)	Heading Date <sup>2</sup> (JD)	Powdery Mildew (0-9) <sup>1</sup>	Leaf Rust (0-9) <sup>1</sup>	Leaf Septoria (0-9) <sup>1</sup>	BYDV (0-9) <sup>1</sup>	Fusarium Rating <sup>4</sup>	Years (Fusarium Data)
Superior	74.4	39.4	91	2.0	90	157	0.9	2.2	2.3	1.3	<b>S</b>	6
AC Mackinnon	75.2	37.0	95	1.8	88	155	0.8	2.7	2.3	1.0	<b>HS</b>	6
AC Mountain	73.9	39.1	94	2.0	93	156	1.4	2.3	2.8	1.2	<b>S</b>	6
Ashley	74.3	42.2	92	1.3	89	158	0.3	1.5	2.2	0.4	<b>MS</b>	4
25W41	76.9	35.1	92	1.0	73	155	2.4	1.0	1.6	0.7	<b>S</b>	4
D8006W	75.5	43.3	94	1.3	81	154	0.7	2.3	2.1	0.9	<b>HS</b>	4
Ava	75.7	36.2	89	1.8	88	157	1.8	1.7	2.5	1.5	<b>MR</b>	2
E1009W	76.9	38.0	89	1.5	75	156	0.9	2.5	2.4	1.1	<b>S</b>	2
FT Action	74.0	40.1	89	1.5	94	158	0.9	1.6	2.5	1.4	<b>MR</b>	1
Wisdom	76.2	36.9	94	2.0	83	154	1.8	1.7	2.8	1.0	<b>MR</b>	6
Warwick	75.8	39.4	92	2.5	84	154	1.0	0.4	2.5	1.2	<b>MS</b>	6
Vienna	75.6	32.4	91	2.3	83	155	0.5	5.3	3.2	2.0	<b>MR</b>	6
FT Wonder	77.1	41.3	94	2.5	83	154	1.6	4.2	3.2	1.3	<b>MR</b>	6
25R47	75.1	37.2	94	1.5	73	154	1.6	0.7	1.9	0.6	<b>S</b>	5
Tribute	78.4	39.0	88	2.0	69	154	0.4	0.9	2.2	0.8	<b>MS</b>	4
Emmit	76.9	38.5	95	1.5	80	155	1.8	3.1	2.6	1.3	<b>MS</b>	4
E1007R	77.4	38.6	95	1.0	77	154	0.8	2.0	2.1	1.1	<b>S</b>	3
R045	77.2	37.0	92	1.3	76	154	1.1	0.9	2.9	1.1	<b>S</b>	3
Huntley	77.9	41.3	90	2.5	86	153	0.6	1.4	1.7	0.7	<b>S</b>	2
Becher	76.7	39.5	94	1.5	87	156	0.8	0.4	2.4	0.7	<b>HS</b>	2
ADV Dyno	73.9	39.4	92	1.5	84	158	1.1	2.6	3.3	1.0	<b>MR</b>	2
R055	76.4	35.5	95	2.3	76	155	1.0	0.9	2.4	1.1	<b>HS</b>	2
25R56	75.2	33.1	93	1.5	73	155	1.4	0.7	1.9	0.5	<b>HS</b>	2
25R51	75.0	35.4	95	1.3	75	153	2.1	1.6	2.8	0.7	<b>MR</b>	1
AC Morley	77.2	38.7	94	2.3	103	156	0.6	0.4	2.4	1.3	<b>MR</b>	6
Maxine	78.0	42.9	90	2.3	80	155	1.5	2.4	3.0	1.4	<b>HS</b>	6
Warthog	77.7	37.8	94	1.3	87	157	1.2	0.7	2.8	2.0	<b>MS</b>	6
Harvard	77.4	44.1	93	1.8	86	155	1.4	3.0	3.0	1.7	<b>S</b>	6
Carlisle	79.1	48.0	94	1.8	76	154	1.0	4.0	2.8	1.9	<b>MS</b>	6
AC Sampson	74.8	39.9	93	2.0	86	159	0.6	2.9	2.5	1.1	<b>HS</b>	6
Wentworth	77.6	46.3	95	1.8	90	156	1.4	0.7	2.5	1.5	<b>HS</b>	2
FTHP Redeemer	78.0	42.9	94	1.3	89	156	1.7	0.4	2.8	1.5	<b>MR</b>	2
Means	76.3	39.2	93	1.8	83	155	1.1	1.9	2.5	1.2		
# of Locations	8	8	7	1	7	6	4	3	3	3		

<sup>1</sup> For ratings 0-9, a high score is undesirable.

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

<sup>4</sup> Fusarium ratings are based on Fusarium head blight ratings and deoxynivalenol (DON) levels from inoculated provincial trials.

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

**Table 6 – Ontario Winter Wheat Distributors 2007, OCCC, August 2007.**

<b>Variety</b>	<b>Class<sup>1</sup></b>	<b>Distributor</b>
Superior (TW93211)	sww	Advantage Seed Growers
AC Mackinnon (PRC9308)	sww	PRO Seeds
AC Mountain (H649.14)	sww	SeCan Association
Ashley (TWF020:038)	sww-a	Hyland Seeds
25W41	sww-a	Pioneer Hi-Bred
D8006W (GENESIS-D8006W)	sww-a	Advantage Seed Growers
Ava (TW122:001)	sww	Hyland Seeds
E1009W (GENESIS:E1009)	sww	Genesis Brand Seeds
FT Action (OTF13-81)	sww	Hyland Seeds
Wisdom (139J)	srw	Hyland Seeds
Warwick (TW97613)	srw	Hyland Seeds
Vienna (CM24)	srw	C & M Seeds
FT Wonder (OTH017.033)	srw	Hyland Seeds
25R47	srw-a	Pioneer Hi-Bred
Tribute (VA98W.593)	srw	C & M Seeds
Emmit (TW044.094)	srw	Hyland Seeds
E1007R (GENESIS:E1007R)	srw-a	Genesis Brand Seeds
R045 (GENESIS:R045)	srw-a	Genesis Brand Seeds
Huntley (IL98.5258)	srw-a	SeCan Association
Becher (CM708)	srw	C & M Seeds
ADV Dyno (TW98617)	srw	Advantage Seed Growers
R055 (GB069R)	srw	Genesis Brand Seeds
25R56 (XW04A)	srw	Pioneer Hi-Bred
25R51	srw	Pioneer Hi-Bred
AC Morley (H242.31.1)	hrw	Advantage Seed Growers
Maxine (CM95009)	hrw-a	C & M Seeds
Warthog (TW025.C36)	hrw	Hyland Seeds
Harvard (CM98036)	hrw	C & M Seeds
Carlisle (CM98091)	hrw-a	C & M Seeds
AC Sampson	hrw	Bramhill Seeds
Wentworth (TW070:015)	hrw	Hyland Seeds
FTHP Redeemer (KV12401)	hrw	Bramhill Seeds

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