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# INFOSheet

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Ministry of Agriculture, Food and  
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## 2006 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 2005 and harvested in 2006.

### **References:**

OMAFRA Publication 811, *Agronomy Guide for Field Crops*

OMAFRA Publication 812, *Field Crop Protection Guide*

### **For more information contact:**

Duane Falk, Department of Plant  
Agriculture, University of Guelph  
(519) 824-4120

[dfalk@uoguelph.ca](mailto:dfalk@uoguelph.ca)

Peter Johnson, OMAFRA Stratford  
(519) 271-8180

[peter.johnson@ontario.ca](mailto:peter.johnson@ontario.ca)

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**Table 1 - Ontario Performance Trial; Winter Wheat 2006 – Cumulative Yield Index<sup>1</sup> Summary for Area I & II Combined<sup>2</sup>, OCCC, August 2006**

Variety	Class <sup>3</sup>	5 year	4 year	3 year	2 year	1 year
Superior	sww	101 <sup>4</sup>	100	99	99	99
AC Mackinnon	sww	103	103	101	103	106
AC Mountain	sww	99	99	98	99	101
Ashley	sww-a		101	101	101	106
25W41	sww-a			98	96	96
D8006W	sww-a			101	100	103
D6234W <sup>5</sup>	sww				100	102
Wisdom	srw	101	100	100	101	100
Warwick <sup>5</sup>	srw	100	100	99	99	102
25R23 <sup>5</sup>	srw-a	107	106	105	104	105
Vienna	srw	104	103	102	99	90
FT Wonder	srw	100	99	100	100	97
25R47	srw-a		110	108	109	104
RC Strategy <sup>5</sup>	srw		98	97	98	99
Tribute	srw			103	104	102
Emmit	srw			110	110	109
Genesis: E1007R	srw-a				105	108
Genesis: R045	srw-a				99	98
Huntley	srw-a				102	100
ADV Dyno	srw					99
AC Morley	hrw	97	98	97	94	96
Maxine	hrw-a	95	94	93	93	91
Warthog	hrw	97	96	96	96	100
Harvard	hrw	101	99	98	97	97
Carlisle	hrw-a	99	98	98	98	96
AC Sampson	hrw	97	97	96	95	94
Means		6.44	6.47	6.41	6.31	6.48
Locations		32	26	20	13	6

<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 = 2300 Crop Heat Units or more, 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.

<sup>5</sup> Entry has been dropped from the 2006/2007 Winter Wheat Performance Trial.

**Table 2 - Ontario Performance Trial; Winter Wheat 2006 – Cumulative Yield Index <sup>1</sup> Summary for Area I<sup>2</sup>, OCCC, August 2006**

Variety	Class <sup>3</sup>	5 year	4 year	3 year	2 year	1 year
Superior	sww	101 <sup>4</sup>	101	100	101	102
AC Mackinnon	sww	103	102	102	104	105
AC Mountain	sww	99	99	99	103	106
Ashley	sww-a		97	96	96	99
25W41	sww-a			97	96	97
D8006W	sww-a			95	95	96
D6234W <sup>5</sup>	sww				101	103
Wisdom	srw	101	101	102	105	106
Warwick <sup>5</sup>	srw	98	98	98	98	101
25R23 <sup>5</sup>	srw-a	110	110	109	109	110
Vienna	srw	104	103	103	100	93
Ft Wonder	srw	100	99	100	101	99
25R47	srw-a		111	109	110	107
RC Strategy <sup>5</sup>	srw		95	95	94	96
Tribute	srw			101	101	99
Emmit	srw			107	107	104
Genesis: E1007R	srw-a				102	105
Genesis: R045	srw-a				96	96
Huntley	srw-a				100	98
ADV Dyno	srw					101
AC Morley	hrw	98	98	98	96	96
Maxine	hrw-a	95	95	94	94	92
Warthog	hrw	99	99	100	101	103
Harvard	hrw	100	100	100	99	98
Carlisle	hrw-a	97	97	97	97	94
AC Sampson	hrw	95	95	95	95	95
Means		6.56	6.76	6.54	6.26	6.87
Locations		15	12	9	6	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 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.

<sup>5</sup> Entry has been dropped from the 2006/2007 Winter Wheat Performance Trial

**Table 3 - Ontario Performance Trial; Winter Wheat 2006 – Cumulative Yield Index<sup>1</sup>  
Summary for Area II<sup>2</sup>, OCCC, August 2006**

Variety	Class <sup>3</sup>	5 year	4 year	3 year	2 year	1 year
Superior	sww	101 <sup>4</sup>	100	99	97	96
AC Mackinnon	sww	103	103	101	102	107
AC Mountain	sww	99	98	97	96	96
Ashley	sww-a		105	104	106	113
25W41	sww-a			98	96	95
D8006W	sww-a			106	105	109
D6234W <sup>5</sup>	sww				98	100
Wisdom	srw	100	99	98	97	94
Warwick <sup>5</sup>	srw	102	101	100	99	103
25R23 <sup>5</sup>	srw-a	105	103	103	101	100
Vienna	srw	104	103	102	99	87
FT Wonder	srw	100	99	99	99	95
25R47	srw-a		109	107	107	101
RC Strategy <sup>5</sup>	srw		100	99	100	102
Tribute	srw			104	106	106
Emmit	srw			112	113	115
Genesis: E1007R	srw-a				107	111
Genesis: R045	srw-a				101	99
Huntley	srw-a				103	102
ADV Dyno	srw					97
AC Morley	hrw	97	97	96	93	96
Maxine	hrw-a	95	94	92	92	90
Warthog	hrw	94	93	93	91	97
Harvard	hrw	101	99	95	95	96
Carlisle	hrw-a	101	100	99	100	98
AC Sampson	hrw	98	98	97	95	93
Means		6.32	6.22	6.31	6.35	6.09
Locations		17	14	11	7	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 II = West of Frontenac County between 2300 and 2900 Crop Heat Units.

<sup>3</sup> sww = soft winter wheat, 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> Entry has been dropped from the 2006/2007 Winter Wheat Performance Trial

**Table 4 - Ontario Performance Trial; Winter Wheat 2006 – Cumulative Yield Index<sup>1</sup>  
Summary for Area III<sup>2</sup>, OCCC, August 2006.**

Variety	Class <sup>3</sup>	5 year	4 year	3 year	1 year
Superior	sww	106 <sup>4</sup>	105	107	105
AC Mackinnon	sww	103	104	106	110
AC Mountain	sww	104	105	106	112
Ashley	sww-a		99	97	93
25W41	sww-a			92	95
D8006W	sww-a			100	100
S6234W <sup>5</sup>	sww				99
Wisdom	srw	101	100	102	102
Warwick <sup>5</sup>	srw	95	93	92	94
25R23 <sup>5</sup>	srw-a	100	99	99	101
Vienna	srw	108	109	106	106
FT Wonder	srw	97	97	96	93
25R47	srw-a		112	107	109
RC Strategy <sup>5</sup>	srw		93	91	88
Tribute	srw			90	82
Emmit	srw			112	118
Genesis: E1007R	srw-a				110
Genesis: R045	srw-a				95
Huntley	srw-a				96
ADV Dyno	srw				111
AC Morley	hrw	96	95	100	101
Maxine	hrw-a	93	91	95	92
Warthog	hrw	98	99	100	102
Harvard	hrw	101	103	103	103
Carlisle	hrw-a	98	97	96	93
AC Sampson	hrw	99	100	103	102
Means		6.07	5.98	5.62	6.28
Locations		9	6	4	2

<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 difference in yield.

<sup>2</sup> Area III = East of Frontenac County. \*\*There were no yield data for Area III in 2005.

<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> Entry has been dropped from the 2006/2007 Winter Wheat Performance Trial.

All Area III trials lost in 2005, thus no 2 year averages to report.

**Table 5 - Ontario Winter Wheat Varietal Characteristics Based on Data from Across Ontario 2006, OCCC, August 2006.**

Variety	Test Wt (kg/hl)	TKW (g)	Winter Survival (%)	Lodging (0-9) <sup>1</sup>	Height (cm)	Heading Date <sup>2</sup>	Powdery Mildew (0-9) <sup>1</sup>	Leaf Rust (0-9) <sup>1</sup>	Septoria (0-9) <sup>1</sup>	Fusarium Rating <sup>4</sup>	Years (Fusarium Data)
Superior	73.9	40.0	89	1.8	102	156	3.5	4.5	4.9	<b>S</b>	5
AC Mackinnon	73.8	39.9	92	1.6	99	153	2.3	4.3	5.0	<b>HS</b>	5
AC Mountain	73.8	40.8	92	2.1	102	154	3.5	5.7	4.6	<b>S</b>	5
Ashley	74.0	42.7	94	2.0	101	156	0.9	1.5	4.7	<b>MS</b>	3
25W41	76.0	37.0	80	1.0	83	153	6.1	2.2	5.4	<b>S</b>	3
D8006W	73.8	41.1	93	1.9	92	152	1.3	3.0	4.4	<b>HS</b>	3
D6234W <sup>5</sup>	75.6	37.2	88	2.4	94	155	2.2	3.9	5.1	<b>HS</b>	2
Wisdom	76.0	37.1	91	2.0	94	150	4.3	1.1	5.0	<b>MR</b>	5
Warwick <sup>5</sup>	76.8	40.0	94	1.4	93	152	2.3	1.3	4.6	<b>MS</b>	5
25R23 <sup>5</sup>	75.8	39.1	88	0.4	90	154	3.1	5.4	3.8	<b>S</b>	5
Vienna	73.0	32.8	90	2.8	94	153	0.2	7.5	3.5	<b>MR</b>	5
FT Wonder	76.8	42.7	92	2.5	94	152	2.4	6.2	4.7	<b>MR</b>	5
25R47	74.2	37.8	93	1.7	84	153	4.5	3.2	4.6	<b>S</b>	4
RC Strategy <sup>5</sup>	76.6	34.3	90	2.9	82	151	2.0	1.2	3.5	<b>S</b>	4
Tribute	79.3	37.5	84	0.5	79	152	0.4	1.0	2.7	<b>S</b>	3
Emmit	75.1	39.4	93	2.0	92	153	4.0	5.2	5.0	<b>MS</b>	3
Genesis: E1007R	76.5	39.6	95	1.0	90	153	2.9	3.4	5.0	<b>HS</b>	2
Genesis: R045	76.0	35.1	94	2.5	85	153	1.9	2.2	3.8	<b>S</b>	2
Huntley	77.0	42.0	86	4.3	95	151	3.0	1.4	3.5	<b>MS</b>	1
ADV Dyno	73.4	40.8	93	2.5	96	157	3.0	4.9	5.1	<b>MR</b>	1
AC Morley	77.9	39.2	84	3.7	114	155	2.2	0.9	3.5	<b>MR</b>	5
Maxine	77.8	44.0	89	1.4	90	153	4.6	2.6	5.3	<b>HS</b>	5
Warthog	78.0	38.6	90	1.6	98	155	3.1	2.2	4.7	<b>MS</b>	5
Harvard	78.5	44.3	92	0.5	95	153	4.3	2.3	5.3	<b>S</b>	5
Carlisle	78.5	48.2	91	1.3	85	151	3.3	3.0	5.2	<b>MS</b>	5
AC Sampson	74.7	41.4	90	2.7	100	157	3.8	5.5	4.8	<b>HS</b>	5
# of Locations	8	8	4	4	8	7	5	3	4		

<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);

MS=moderately susceptible; S=susceptible; HS=highly susceptible (worst);

<sup>5</sup> Entry has been dropped from the 2006/2007 Winter Wheat Performance Trial