



Agriculture Development Branch 2008 Performance Trials for Winter Wheat

Prepared by the Ontario Cereal Crop Committee

Infosheet

AUGUST 2008

This infosheet contains the most recent varietal information on winter wheat that was planted in 2007 and harvested in 2008.

Additional information on these trials is available at www.gocereals.ca

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 2008 – Cumulative Yield Index¹ Summary for Area I & II Combined², OCCC, August 2008.

Variety	Class ³	5 year	4 year	3 year	2 year	2008
Superior	sww	100 ⁴	100	100	101	101
AC Mackinnon	sww	101	102	102	100	100
AC Mountain	sww	99	99	100	99	98
Ashley	sww-a	99	98	98	96	96
25W41	sww-a	99	99	100	102	100
D8006W	sww-a	101	101	102	102	101
Ava	sww			102	102	101
E1009W	sww			101	97	93
E0028W	sww				104	102
Vienna	srw	101	98	95	96	97
FT Wonder	srw	99	98	96	96	97
25R47	srw-a	108	108	106	108	105
Emmit	srw	109	109	108	107	106
E1007R	srw-a		104	104	102	102
R045	srw-a		103	105	107	109
Huntley	srw-a		102	102	103	105
Becher	srw			103	103	104
ADV Dyno	srw			98	98	94
R055	srw			104	103	104
25R56	srw			107	106	102
25R51	srw				106	109
AC Morley	hrw	99	97	99	100	103
Maxine	hrw-a	93	92	91	91	96
Warthog	hrw	97	97	99	98	99
Harvard	hrw	97	96	96	95	95
Carlisle	hrw-a	97	96	94	93	93
Wentworth	hrw			101	100	103
FTHP Redeemer	hrw			87	86	86
Means		6.21	6.13	6.13	5.96	6.08
Locations		32	25	18	12	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.

TABLE 2 – Ontario Performance Trial: Winter Wheat 2008 – Cumulative Yield Index¹ Summary for Area I², OCCC, August 2008.

Variety	Class ³	5 year	4 year	3 year	2 year	2008
Superior	sww	100 ⁴	99	99	98	98
AC Mackinnon	sww	101	102	102	100	100
AC Mountain	sww	100	102	102	100	100
Ashley	sww-a	98	98	99	99	104
25W41	sww-a	101	102	104	106	106
D8006W	sww-a	100	101	103	106	105
Ava	sww			102	102	100
E1009W	sww			102	99	93
E0028W	sww				105	101
Vienna	srw	100	97	94	94	95
FT Wonder	srw	98	98	96	95	96
25R47	srw-a	110	110	109	110	109
Emmit	srw	107	106	105	105	100
E1007R	srw-a		104	105	103	103
R045	srw-a		101	103	106	110
Huntley	srw-a		102	102	104	106
Becher	srw			102	103	106
ADV Dyno	srw			100	99	93
R055	srw			103	102	102
25R56	srw			109	109	101
25R51	srw				106	111
AC Morley	hrw	99	97	98	98	100
Maxine	hrw-a	92	90	89	87	94
Warthog	hrw	100	100	100	98	98
Harvard	hrw	99	97	96	95	96
Carlisle	hrw-a	95	93	91	90	89
Wentworth	hrw			99	98	102
FTHP Redeemer	hrw			85	84	81
Means		6.26	6.10	6.23	5.98	6.07
Locations		16	13	10	7	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.

TABLE 3 – Ontario Performance Trial: Winter Wheat 2008 – Cumulative Yield Index¹ Summary for Area II², OCCC, August 2008.

Variety	Class ³	5 year	4 year	3 year	2 year	2008
Superior	sww	101 ⁴	100	101	105	102
AC Mackinnon	sww	101	102	103	101	99
AC Mountain	sww	97	97	97	97	96
Ashley	sww-a	100	99	97	91	90
25W41	sww-a	97	96	95	96	95
D8006W	sww-a	103	101	100	97	97
Ava	sww			103	103	101
E1009W	sww			100	95	93
E0028W	sww				103	102
Vienna	srw	102	100	95	100	98
FT Wonder	srw	99	98	96	97	97
25R47	srw-a	106	106	102	103	103
Emmit	srw	112	112	112	110	110
E1007R	srw-a		104	104	101	101
R045	srw-a		105	107	109	108
Huntley	srw-a		102	101	101	104
Becher	srw			105	102	102
ADV Dyno	srw			97	96	94
R055	srw			105	104	106
25R56	srw			104	102	103
25R51	srw				105	107
AC Morley	hrw	99	97	101	104	105
Maxine	hrw-a	94	94	94	96	97
Warthog	hrw	95	94	98	98	100
Harvard	hrw	96	95	95	96	95
Carlisle	hrw-a	99	99	98	96	97
AC Sampson	hrw	99	98	99	103	103
Wentworth	hrw			103	103	103
FTHP Redeemer	hrw			90	89	90
Means		6.16	6.17	5.99	5.93	6.09
Locations		16	12	8	5	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.

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.

TABLE 4 – Ontario Performance Trial: Winter Wheat 2008 – Cumulative Yield Index¹ Summary for Area III², OCCC, August 2008.

Variety	Class ³	5 year	3 year	2 year	2008
Superior	sww	104 ⁴	104	105	106
AC Mackinnon	sww	102	104	100	94
AC Mountain	sww	105	106	105	101
Ashley	sww-a	97	98	101	99
D8006W	sww-a	99	100	101	109
Ava	sww		103	102	102
E1009W	sww		96	94	92
Ninja	sww			104	99
E0028W	sww			106	104
FT Wonder	srw	94	94	95	90
Emmit	srw	108	110	108	110
E1007R	srw-a		107	108	108
R045	srw-a		99	102	104
Becher	srw		101	100	109
ADV Dyno	srw		105	103	99
R055	srw		97	98	104
AC Morley	hrw	98	99	100	98
Warthog	hrw	97	97	96	94
Harvard	hrw	97	96	94	92
AC Sampson	hrw	99	99	99	98
Wentworth	hrw		100	96	104
FTHP Redeemer	hrw		84	84	79
Benefit	hrw			100	99
CARNAVAL	hrw-a				103
Means		5.21	5.20	4.80	4.57
Locations		10	8	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 III = East 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.

All Area III trials lost in 2005, thus no 4 year averages to report.

TABLE 5a – Ontario Winter Wheat Varietal Characteristics Based on Data from Area I, OCCC, August 2008.

Variety	Test Weight (kg/hl)	Thousand Kernel Weight (g)	Winter Survival (%)	Lodging (0-9) ¹	Height (cm)	Heading Date ² (JD)	Powdery Mildew (0-9) ¹	Leaf Rust (0-9) ¹	Leaf Septoria (0-9) ¹	Stem Rust (0-9) ¹	Fusarium Rating ⁴	Years (fusarium Data)
Superior	74.5	43.4	97	0.0	93	157	1.2	3.5	2.4	1.5	S	7
AC Mackinnon	75.2	42.2	100	0.5	92	155	1.7	3.8	2.3	1.8	HS	7
AC Mountain	74.0	44.1	97	0.5	95	156	1.0	4.6	3.5	2.0	S	7
Ashley	75.2	47.6	95	1.0	95	158	1.0	0.2	1.8	1.8	MS	5
25W41	75.9	38.8	95	0.5	85	155	1.2	3.3	2.2	1.0	MS	5
D8006W	75.2	46.0	99	0.5	85	154	1.0	1.0	2.7	1.5	S	5
Ava	75.6	39.4	96	0.0	92	157	2.5	2.2	1.8	2.0	MR	3
E1009W	75.8	43.0	98	0.0	83	157	1.2	2.0	2.6	1.3	S	3
E0028W	73.3	44.5	98	0.5	85	154	1.0	2.5	3.0	2.0	HS	2
Vienna	73.8	35.1	95	2.0	92	155	1.8	7.8	2.3	1.0	MR	7
FT Wonder	77.1	48.3	98	1.0	88	154	1.0	6.0	2.8	0.5	MR	7
25R47	75.9	41.0	99	0.0	81	154	2.7	0.8	2.3	1.3	MS	6
Emmit	75.4	42.7	98	0.0	88	156	1.9	2.8	2.1	0.8	MS	5
E1007R	76.5	41.6	96	0.0	87	154	1.0	2.5	2.0	2.0	S	4
R045	76.5	40.0	97	2.0	82	153	1.0	2.3	1.9	1.0	HS	4
Huntley	77.3	46.9	97	2.5	94	153	2.3	0.0	2.6	0.8	MS	3
Becher	76.5	43.9	96	1.0	95	156	1.3	0.4	1.4	1.8	HS	3
ADV Dyno	73.1	42.8	96	0.0	87	159	1.0	1.4	3.3	1.5	MS	3
R055	76.8	41.2	95	1.5	81	154	1.0	1.1	1.6	0.8	S	3
25R56	74.5	37.2	95	0.0	81	155	2.5	1.1	1.7	1.3	S	3
25R51	75.3	40.1	98	0.5	87	153	1.2	1.1	2.6	1.0	MR	2
AC Morley	78.2	44.7	100	0.0	105	156	1.0	0.3	2.3	1.0	MR	7
Maxine	78.7	49.2	95	0.5	89	154	2.4	3.1	2.9	1.3	S	7
Warthog	78.7	41.9	97	1.0	91	156	1.0	0.8	2.9	0.8	MS	7
Harvard	78.0	46.7	98	0.0	91	154	1.5	2.8	3.6	1.5	HS	7
Carlisle	80.1	52.1	95	0.0	84	153	1.9	1.4	2.4	1.8	MS	7
Wentworth	78.7	53.8	100	0.0	92	156	2.6	1.4	3.4	0.8	HS	3
FTHP Redeemer	78.4	45.4	97	0.0	94	157	1.7	0.3	3.4	1.3	MR	3
Means	76.2	43.7	97	0.6	89	155	1.5	2.1	2.5	1.3		
Locations	3	3	2	2	3	3	2	2	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.

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);

TABLE 5b – Ontario Winter Wheat Varietal Characteristics Based on Data from Area II, OCCC, August 2008.

Variety	Test Weight (kg/hl)	Thousand Kernel Weight (g)	Winter Survival (%)	Lodging (0-9) ¹	Height (cm)	Heading Date ² (JD)	Powdery Mildew (0-9) ¹	Leaf Rust (0-9) ¹	Leaf Septoria (0-9) ¹	Stem Rust (0-9) ¹	Fusarium Rating ⁴	Years (fusarium Data)
Superior	75.9	41.8	96	1.3	106	161	2.7	5.2	3.9	2.8	S	7
AC Mackinnon	75.4	38.2	96	0.7	103	159	3.0	3.2	5.0	3.0	HS	7
AC Mountain	74.8	39.9	97	0.7	106	160	2.9	5.9	5.0	4.3	S	7
Ashley	75.1	41.5	94	1.0	108	162	0.3	1.5	3.6	3.0	MS	5
25W41	77.0	36.0	95	0.0	86	159	4.7	5.0	5.2	3.2	MS	5
D8006W	74.7	41.6	98	0.7	95	159	2.1	3.7	5.2	2.7	S	5
Ava	76.7	34.5	95	0.7	101	161	4.1	5.3	4.6	3.3	MR	3
E1009W	76.6	38.4	97	0.0	86	161	1.3	5.4	5.4	3.9	S	3
E0028W	73.4	39.9	98	0.7	95	160	2.1	5.8	5.6	2.9	HS	2
Vienna	75.6	31.0	97	1.0	95	159	2.2	7.9	5.2	2.9	MR	7
FT Wonder	80.4	45.1	96	0.3	96	158	2.0	5.2	5.2	1.4	MR	7
25R47	76.3	36.5	96	0.3	85	159	4.9	1.9	4.4	2.4	MS	6
Emmit	78.3	41.7	97	0.7	94	160	4.1	5.4	4.5	1.6	MS	5
E1007R	77.0	35.7	97	0.0	91	159	2.4	5.6	4.5	3.4	S	4
R045	78.4	36.4	97	0.3	86	159	5.3	3.3	4.9	1.3	HS	4
Huntley	80.3	42.4	96	1.7	100	158	3.2	1.4	4.9	0.8	MS	3
Becher	77.4	38.7	96	1.0	100	161	1.8	2.3	3.6	2.2	HS	3
ADV Dyno	74.3	37.6	95	1.3	98	162	1.6	5.4	4.8	4.2	MS	3
R055	78.5	37.4	96	1.3	89	160	2.0	2.2	3.8	0.8	S	3
25R56	76.1	32.9	95	0.7	87	159	4.6	3.0	4.4	2.1	S	3
25R51	77.4	36.1	97	0.3	89	158	5.6	2.3	5.2	1.6	MR	2
AC Morley	80.9	40.3	96	2.0	114	161	1.8	1.3	4.0	0.8	MR	7
Maxine	80.9	44.5	97	0.7	93	159	4.6	5.2	5.6	1.6	S	7
Warthog	81.2	38.4	95	0.3	97	161	2.9	1.7	5.4	0.7	MS	7
Harvard	80.5	43.3	98	0.3	100	159	3.6	5.3	5.1	3.3	HS	7
Carlisle	81.1	48.3	96	0.0	89	157	4.0	3.3	5.7	3.3	MS	7
AC Sampson	77.6	42.4	97	2.0	101	162	2.8	6.4	5.0	1.8	HS	7
Wentworth	80.5	49.8	97	0.3	105	160	3.5	2.8	4.5	0.9	HS	3
FTHP Redeemer	81.5	43.8	96	0.7	104	161	3.2	1.4	6.2	2.1	MR	3
Means	77.7	39.8	96	0.7	96	160	3.1	3.9	4.8	2.3		
Locations	4	4	2	3	4	4	4	2	4	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.

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);

TABLE 5c – Ontario Winter Wheat Varietal Characteristics Based on Data from Area III, OCCC, August 2008.

Variety	Test Weight (kg/hl)	Thousand Kernel Weight (g)	Winter Survival (%)	Lodging (0-9) ¹	Height (cm)	Heading Date ² (JD)	Leaf Rust (0-9) ¹	Fusarium Rating ⁴	Years (fusarium Data)
Superior	70.1	42.4	89	3.0	92	161	2.5	S	7
AC Mackinnon	73.2	41.8	66	0.0	92	167	0.0	HS	7
AC Mountain	68.8	40.3	78	3.0	91	160	4.3	S	7
Ashley	68.8	40.8	66	3.0	92	162	0.0	MS	5
D8006W	68.6	42.2	90	2.0	82	159	0.0	S	5
Ava	70.9	38.5	75	3.0	86	162	0.5	MR	3
E1009W	70.1	37.3	76	2.0	74	161	0.5	S	3
Ninja	72.4	44.7	83	4.0	94	162	0.0	S	2
E0028W	66.9	42.7	77	2.0	77	160	3.3	HS	2
FT Wonder	73.2	44.0	70	4.0	82	160	7.3	MR	7
Emmit	72.5	40.1	84	2.0	83	160	1.8	MS	5
E1007R	73.1	39.5	82	2.0	78	160	2.5	S	4
R045	71.9	36.8	85	2.0	74	159	1.8	HS	4
Becher	73.8	41.1	81	2.0	87	161	0.8	HS	3
ADV Dyno	71.5	40.6	87	5.0	86	162	1.0	MS	3
R055	73.1	38.4	90	3.0	72	160	0.0	S	3
AC Morley	74.4	39.0	85	4.0	99	160	0.0	MR	7
Warthog	75.6	40.2	83	2.0	87	162	0.0	MS	7
Harvard	74.7	43.2	76	3.0	85	160	2.3	HS	7
AC Sampson	71.4	37.3	83	6.0	86	163	5.8	HS	7
Wentworth	74.7	44.9	88	1.0	87	161	0.0	HS	3
FTHP Redeemer	75.2	41.3	85	6.0	88	161	0.0	MR	3
Benefit	75.4	41.1	85	2.0	105	161	0.0	S	2
CARNAVAL	73.5	39.1	91	4.0	86	160	0.0	MS	1
Means	72.2	40.7	82	3.0	86	161	1.4		
Locations	3	3	2	1	3	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.

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);

TABLE 6 – Ontario Winter Wheat Distributors 2008, OCCC, August 2008.

Variety	Class¹	Distributor
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	Parrish & Heimbecker Limited
Ninja (95:056:187)	sww	SeCan Association
FT Action (OTF13-81)	sww	Hyland Seeds
E0028W	sww	Parrish & Heimbecker Limited
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	Parrish & Heimbecker Limited
R045 (GENESIS:R045)	srw-a	Advantage Seed Growers
Huntley (IL98.5258)	srw-a	SeCan Association
Becher (CM708)	srw	C & M Seeds
ADV Dyno (TW98617)	srw	Advantage Seed Growers
R055 (GB069R)	srw	Parrish & Heimbecker Limited
25R56 (XW04A)	srw	Pioneer Hi-Bred
25R51	srw	Pioneer Hi-Bred
R065 (GB434)	srw	Genesis Brand Seeds
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
Benefit (95-094-197)	hrw	SeCan Association
CARNAVAL (TW061-002)	hrw-a	Synagri

¹ sww = soft white winter, srw = soft red winter, hrw = hard red winter, a = awned.