
2018

Ontario Winter Wheat Performance Trials

Data collected 2014-2018

www.gocereals.ca



Conducted by the Ontario Cereal Crop Committee

Current as of August 14, 2019

Ontario Winter Wheat Performance Trials

This report has been prepared by the Ontario Cereal Crop Committee and contains the most recent varietal information on winter wheat that was planted in 2017 and harvested in 2018

ADDITIONAL INFORMATION

Additional information is available at www.gocereals.ca, including

- Map with area and individual locations
- Head to Head comparisons which give multi-year data
- Historical Performance reports

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2018















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Click on the desired table number to go to that table and to return to Table of Contents at the bottom of the page

Table #	Table	Page #
1	Cumulative Yield Index Summary - Area I & II combined	4
1a	Cumulative Yield Index Summary - Area I & II combined, INTENSIVE	5
2	Cumulative Yield Index Summary - Area I	6
2a	Cumulative Yield Index Summary - Area I INTENSIVE	7
3	Cumulative Yield Index Summary - Area II	8
3a	Cumulative Yield Index Summary - Area II INTENSIVE	9
4	Cumulative Yield Index Summary - Area III	10
4a	Cumulative Yield Index Summary - Area III INTENSIVE	11
5a	Varietal Characteristics - Area I	12
5b	Varietal Characteristics - Area II	13
5c	Varietal Characteristics - Area III	14
6	Cumulative Yield Index Summary - Area V	15
6a	Cumulative Yield Index Summary - Area V INTENSIVE	16
6b	Varietal Characteristics - Area V	17
7a	Ontario Winter Wheat Distributors	18
7b	Distributor Contact Information	19

**Table 1 - Ontario Winter Wheat Performance Trial; Cumulative Yield Index¹
Summary for Area I & II Combined², OCCC, August 2018**

Class ³	Variety	5 year	4 year	3 year	2 year	2018	
sww	25W31 (awned) 		96 ⁴	94	94	100	
	Ava				102	101	
	E0028W					105	
srw	Branson 	106	107	108	108	102	
	Wave	97	97	97	95	101	
	CM614	105	105	106	105	107	
	Secord (awned)	102	103	103	101	102	
	25R40 (awned) 	109	110	111	110	103	
	Emperor 	98	97	97	96	103	
	Marker	105	104	105	104	103	
	UGRC Ring (awned) 	105	105	106	104	101	
	25R46 (awned) 	91	90	88	90	100	
	Cruze (awned)		102	102	99	98	
	DS572SRW 			102	102	102	106
	Drew (awned)				93	92	96
	B654SRW 				109	108	102
	B743SRW 				106	104	97
	Measure (awned)					102	94
	25R61 (awned) 					98	104
	25R74 (awned) 					108	104
Blaze (awned)						102	
hrw	AC Morley	95	95	95	98	97	
	Priesley	105	105	107	104	101	
	Gallus (awned) 	101	101	103	100	96	
	JDC78 (awned) 			103	101	100	
	Arnold (awned)				92	92	
	Lexington (awned)					95	
	PRO 81 (awned) 					101	
efw	Frontenac					105	
Means (t/ha)		6.06	6.02	6.16	5.88	6.09	
Means (bu/ac)		90	90	92	88	91	
Location-years		29	25	20	13	6	

¹ Values differing by less than 3 within a column may not represent true differences in yield. Yield Indices are Heritability Adjusted Relative Values (HARV), which favour results from trial locations with high repeatability. For more information, see: Yan, W. Use of HARV in Variety Trial Summaries.
















² Area I and II combined: see map of areas on www.gocereals.ca website.

³ sww = soft white winter, srw = soft red winter, hrw = hard red winter, efw = eastern feed winter.

⁴ Cultivar yield rankings may vary from year to year. Decisions are therefore best made using data with the greatest number of years.

  PBR Status; indicates varieties protected under PBR 91 or PBR78. Visit pbrfacts.ca to learn more.

Table 1a - Ontario Winter Wheat Performance Trial - Cumulative Yield Indices¹, Intensive trials Summary for Area I & II Combined², OCCC, August 2018

Class ³	Variety	5-Year Index Fungicides		4-Year Index Fungicides		3-Year Index Fungicides		2-Year Index Fungicides		2018 Index Fungicides	
		No	Yes	No	Yes	No	Yes	No	Yes	No	Yes
sww	Ava							96 ⁴	103	99	100
	E0028W									103	102
	25W31 (awned) 			93	104	91	102	91	104	100	100
srw	Branson 	102	108	103	108	104	108	104	109	104	105
	Wave	93	101	92	102	92	102	90	102	98	101
	CM614	100	106	100	107	100	107	100	108	104	105
	Secord (awned)	98	107	98	108	99	108	98	109	102	105
	25R40 (awned) 	104	110	105	110	106	110	105	111	103	102
	Emperor 	94	106	93	106	93	106	91	106	103	105
	Marker	101	108	100	108	101	108	100	108	103	103
	UGRC Ring (awned) 	100	109	100	109	101	109	98	108	99	102
	25R46 (awned) 			87	105	85	106	85	106	100	102
	Cruze (awned)			97	106	97	106	94	106	97	102
	DS572SRW 			98	112	98	112	98	113	107	108
	Drew (awned)					89	104	87	104	95	98
	Measure (awned)							99	103	97	101
	B654SRW 					105	110	105	111	104	107
	B743SRW 					100	105	99	105	96	97
25R61 (awned) 							94	109	104	107	
25R74 (awned) 							104	108	104	104	
Blaze (awned)									100	102	
hrw	AC Morley	92	99	93	99	92	97	93	100	96	98
	Priesley	100	104	99	104	100	105	98	105	99	102
	Gallus (awned) 	95	99	95	100	97	100	94	98	94	95
	JDC78 (awned) 					98	105	97	106	99	101
	Arnold (awned)							88	93	93	93
	Lexington (awned) 									94	95
	PRO 81 (awned) 									98	100
efw	Frontenac									102	101
Means (t/ha)		5.85	6.41	5.76	6.35	5.95	6.53	5.68	6.31	5.83	5.96
Means (bu/ac)		87	95	86	94	89	97	84	94	87	89
Location-years		23		19		15		10		4	

¹ Values differing by less than 3 within a column may not represent true differences in yield. Yield Indices are Heritability Adjusted Relative Values (HARV), which favour results from trial locations with high repeatability. For more information, see: Yan, W. Use of HARV in Variety Trial Summaries.

² Area I and II combined: see map of areas on www.gocereals.ca website.
















³ sww = soft white winter, srw = soft red winter, hrw = hard red winter, efw = eastern feed winter..

⁴ Cultivar yield rankings may vary from year to year. Decisions are therefore best made using data with the greatest number of years. Fungicide treatments included a T1 application of foliar fungicide at Zadoks Growth Stage 30 to 31, followed by a T3 application of fusarium fungicide during flowering.

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  PBR Status; indicates varieties protected under PBR 91 or PBR78. Visit pbrfacts.ca to learn more.

**Table 2 - Ontario Winter Wheat Performance Trial; Cumulative Yield Index¹
Summary for Area I², OCCC, August 2018**

Class ³	Variety	5 year	4 year	3 year	2 year	2018
sww	25W31 (awned) 		102 ⁴	101	103	105
	Ava				97	96
	E0028W				99	102
srw	Branson 	104	104	104	104	105
	Wave	98	98	98	100	101
	CM614	103	104	103	104	103
	Secord (awned)	104	104	104	104	103
	25R40 (awned) 	109	109	111	108	105
	Emperor 	100	99	100	101	105
	Marker	103	103	104	103	103
	UGRC Ring (awned) 	104	104	105	102	100
	25R46 (awned) 	97	95	94	97	101
	Cruze (awned)		104	105	101	98
	DS572SRW 		104	104	108	109
	Drew (awned)			96	96	96
	B654SRW 			106	103	103
	B743SRW 			103	100	96
	Measure (awned)				100	96
	25R61 (awned) 				101	104
	25R74 (awned) 				105	105
Blaze (awned)					101	
hrw	AC Morley	94	94	92	96	97
	Priesley	102	103	104	99	99
	Gallus (awned) 	97	97	98	95	93
	JDC78 (awned) 			107	104	102
	Arnold (awned)				92	94
	Lexington (awned) 					94
	PRO 81 (awned) 					98
efw	Frontenac					102
Means (t/ha)		6.01	5.91	5.98	5.85	5.41
Means (bu/ac)		89	88	89	87	81
Location-Years		13	11	9	6	3

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² Area I : see map of areas on www.gocereals.ca website

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Table 2a - Ontario Winter Wheat Performance Trial - Cumulative Yield Indices¹, Intensive trials Summary for Area I², OCCC, August 2018

Class ³	Variety	5-Year Index Fungicides		4-Year Index Fungicides		3-Year Index Fungicides		2-Year Index Fungicides		2018 Index Fungicides	
		No	Yes	No	Yes	No	Yes	No	Yes	No	Yes
sww	Ava							96 ⁴	98	97	96
	E0028W							97	104	102	101
	25W31 (awned) 			100	104	99	101	101	102	103	101
srw	Branson 	100	105	101	105	102	104	101	104	104	105
	Wave	96	100	96	100	97	100	98	102	100	101
	CM614	100	105	101	105	100	104	102	105	103	103
	Secord (awned)	101	106	101	105	102	105	102	105	103	104
	25R40 (awned) 	105	109	105	108	107	107	106	106	104	102
	Emperor 	97	104	96	105	97	105	99	105	103	104
	Marker	101	105	100	106	103	105	102	104	103	101
	UGRC Ring (awned) 	101	107	101	107	102	105	100	104	100	100
	25R46 (awned) 	96	106	94	105	93	104	95	104	101	102
	Cruze (awned)			100	105	101	105	100	103	98	101
	DS572SRW 			101	110	102	109	105	109	107	108
	Drew (awned)					94	104	94	102	96	98
	Measure (awned)							99	100	97	100
	B654SRW 					103	104	101	103	103	103
	B743SRW 					99	102	98	100	97	97
25R61 (awned) 							99	107	103	105	
25R74 (awned) 							103	104	104	103	
Blaze (awned)									100	102	
hrw	AC Morley	93	98	93	98	92	95	95	98	97	99
	Priesley	99	101	100	101	101	101	97	99	99	100
	Gallus (awned) 	94	98	94	97	95	97	93	94	94	94
	JDC78 (awned) 					104	106	102	104	102	101
	Arnold (awned)							91	91	94	94
	Lexington (awned) 									95	95
	PRO 81 (awned) 									98	100
efw	Frontenac									102	99
Means (t/ha)		5.88	6.29	5.73	6.14	5.78	6.10	5.85	6.15	5.41	5.43
Means (bu/ac)		87	94	85	91	86	91	87	91	81	81
Location-Years		12		10		8		6		3	

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² Area I: see map of areas on www.gocereals.ca website.

³ sww = soft white winter, srw = soft red winter, hrw = hard red winter, efw = eastern feed winter.

















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Fungicide treatments included a T1 application of foliar fungicide at Zadoks Growth Stage 30 to 31, followed by a T3 application of fusarium fungicide during flowering.

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**Table 3 - Ontario Winter Wheat Performance Trial; Cumulative Yield Index¹
Summary for Area II², OCCC, August 2018**

Class ³	Variety	5 year	4 year	3 year	2 year	2018
sww	Ava	106 ⁴	106	106	107	107
	25W31 (awned) 		92	89	87	95
	E0028W					108
srw	Branson 	109	110	110	111	100
	Wave	97	96	95	91	100
	CM614	106	107	107	107	111
	Secord (awned)	101	102	103	100	100
	25R40 (awned) 	109	110	111	112	102
	Emperor 	96	96	94	92	101
	Marker	106	106	106	105	102
	UGRC Ring (awned) 	105	106	107	105	102
	25R46 (awned) 	85	85	83	84	98
	Cruze (awned)		99	100	96	98
	DS572SRW 		100	100	97	104
	Drew (awned)			89	89	96
	B654SRW 			110	111	101
	B743SRW 			108	108	97
	Measure (awned)				104	92
	25R61 (awned) 				96	104
	25R74 (awned) 				112	104
Blaze (awned)					104	
hrw	AC Morley	96	96	96	100	98
	Princeton 	101	101	104	102	103
	Priesley	108	107	109	109	104
	Gallus (awned) 	104	104	106	105	100
	JDC78 (awned) 			100	99	97
	Arnold (awned)				92	90
	Lexington (awned) 					96
PRO 81 (awned) 					104	
efw	Frontenac					107
Means (t/ha)		6.09	6.10	6.29	5.91	6.76
Means (bu/ac)		91	91	94	88	101
Location-Years		16	14	11	7	3

¹ Values differing by less than 3 within a column may not represent true differences in yield. Yield Indices are Heritability Adjusted Relative Values (HARV), which favour results from trial locations with high repeatability. For more information, see: Yan, W. Use of HARV in Variety Trial Summaries.

















² Area II : see map of areas on www.gocereals.ca website.

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Table 3a - Ontario Winter Wheat Performance Trial - Cumulative Yield Indices¹, Intensive Trials Summary for Area II², OCCC, August 2018

Class ³	Variety	5-Year Index Fungicides		4-Year Index Fungicides		3-Year Index Fungicides		2-Year Index Fungicides		2018 Index Fungicides	
		No	Yes	No	Yes	No	Yes	No	Yes	No	Yes
sww	Ava	101 ⁴	109	101	109	99	108	97	111	106	111
	E0028W									103	105
	25W31 (awned) 			85	103	82	103	75	106	92	98
srw	Branson 	104	112	105	112	105	112	107	116	103	106
	Wave	91	101	89	103	87	104	77	102	92	101
	CM614	100	108	99	109	99	110	96	112	109	112
	Secord (awned)	96	109	95	111	96	112	91	114	100	107
	25R40 (awned) 	103	112	105	113	104	113	105	119	99	102
	Emperor 	92	107	91	107	88	107	80	107	105	108
	Marker	101	112	100	110	99	111	98	114	104	110
	UGRC Ring (awned) 	99	112	99	111	100	113	95	114	96	108
	25R46 (awned) 			79	106	76	107	71	111	96	101
	Cruze (awned)			94	107	93	108	86	110	94	104
	DS572SRW 			95	113	94	116	87	119	105	109
	Drew (awned)					84	104	77	108	93	95
	Measure (awned)							101	107	97	102
	B654SRW 					107	116	110	121	108	117
	B743SRW 					101	108	101	112	92	98
25R61 (awned) 							86	112	105	113	
25R74 (awned) 							107	114	104	105	
Blaze (awned)									99	103	
hrw	AC Morley	92	101	92	100	91	99	92	104	92	96
	Princeton 	93	105	92	104	95	106	92	107	91	105
	Priesley	101	108	98	107	99	108	100	114	99	107
	Gallus (awned) 	97	101	97	103	98	103	95	103	95	99
	JDC78 (awned) 					92	105	89	109	91	100
	Arnold (awned)							84	95	88	91
	Lexington (awned) 									92	94
PRO 81 (awned) 									97	100	
efw	Frontenac									102	106
Means (t/ha)		5.82	6.53	5.79	6.57	6.13	6.98	5.43	6.56	7.07	7.53
Means (bu/ac)		87	97	86	98	91	104	81	98	105	112
Location-Years		11		9		7		4		1	

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² Area II: see map of areas on www.gocereals.ca website.

³ sww = soft white winter, srw = soft red winter, hrw = hard red winter, efw = eastern feed winter.












⁴ Cultivar yield rankings may vary from year to year. Decisions are therefore best made using data with the greatest number of years.

Fungicide treatments included a T1 application of foliar fungicide at Zadoks Growth Stage 30 to 31, followed by a T3 application of fusarium fungicide during flowering.

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**Table 4 - Ontario Winter Wheat Performance Trial; Cumulative Yield Index¹
Summary for Area III², OCCC, August 2018**

Class ³	Variety	5 year	4 year	3 year	2 year	2018
sww	Ava	102 ⁴	102	102	101	105
srw	Branson 	103	103	104	105	101
	CM614	104	104	104	100	103
	Secord (awned)	103	102	103	103	103
	Emperor 	97	97	98	99	100
	Marker	104	104	104	103	103
	UGRC Ring (awned) 	105	106	106	103	101
	DS572SRW 		104	105	103	104
	Drew (awned)			100	101	101
	B654SRW 			106	108	105
	B743SRW 			99	96	92
	Measure (awned)				98	96
	Blaze (awned)					102
	hrw	AC Morley	94	94	93	90
Princeton 		98	98	99	98	104
Priesley		102	101	100	102	106
Gallus (awned) 		98	98	100	101	99
JDC78 (awned) 				97	101	99
Lexington (awned) 						100
PRO 81 (awned) 						101
efw	Frontenac					103
Means (t/ha)		5.68	5.74	6.17	7.06	7.27
Means (bu/ac)		85	85	92	105	108
Location-Years		12	10	7	5	3

¹ Values differing by less than 3 within a column may not represent true differences in yield. Yield Indices are Heritability Adjusted Relative Values (HARV), which favour results from trial locations with high repeatability. For more information, see: Yan, W. Use of HARV in Variety Trial Summaries.

² Area III : see map of areas on www.gocereals.ca website.




















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[Return to Index ...](#)

Table 4a - Ontario Winter Wheat Performance Trial - Cumulative Yield Indices¹, Intensive Summary for Area III², OCCC, August 2018

Class ³	Variety	2017 Index Fungicides	
		No	Yes
sww	Ava	87 ⁴	102
	25W31 (awned) 	98	101
srw	Emmit	105	113
	Branson 	106	112
	CM614	76	91
	WB425 (awned) 	97	118
	Secord (awned)	95	102
	25R34 (awned) 	92	106
	25R40 (awned) 	99	112
	HY 412-SRW 	96	104
	Emperor 	97	104
	OAC Flight (awned) 	101	103
	Marker	105	109
	UGRC Ring (awned) 	102	111
	25R46 (awned) 	104	110
	Cruze (awned)	108	108
	DS572SRW 	108	104
	Drew (awned)	98	103
	UGRC GL164	105	110
	Measure (awned)	97	97
	B654SRW 	103	112
	B743SRW 	93	106
25R61 (awned) 	105	113	
25R74 (awned) 	109	104	
hrw	AC Morley	89	88
	AC Sampson	81	102
	Princeton 	84	108
	Priesley	88	100
	Gallus (awned) 	99	103
	HY 301-HRW 	92	95
	JDC78 (awned) 	97	104
	Arnold (awned)	49	55
Means (t/ha)		6.74	7.28
Means (bu/ac)		100	108
Location-Years		1	

¹ Values differing by less than 3 within a column may not represent true differences in yield. Yield Indices are Heritability Adjusted Relative Values (HARV), which favour results from trial locations with high repeatability. For more information, see: Yan, W. Use of HARV in Variety Trial Summaries.

² Area II: see map of areas on www.gocereals.ca website.
















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**Table 5a - Ontario Winter Wheat Performance Trials; Varietal Characteristics Based on Data from Area I
OCCC, August 2018**

Variety	Fusarium Data			Test Weight (kg/hL)	Protein (%)	1000 Kernel Weight (g)	Winter Survival (%)	Lodging (0-9) ²	Height (cm)	Heading Date ³ (JD)	Maturity Date (JD)
	Combined Fusarium Rating ¹	Don Rating ¹	Years								
Ava	MR	MS	6	77.2	11.5	32.7	100	0.0	86	153	189
E0028W	HS	HS	5	75.3	11.9	38.1	100	0.4	75	151	188
25W31 	MS	S	4	79.4	13.0	28.2	100	0.0	74	152	190
Branson 	S	MS	6	76.0	11.8	32.0	100	0.9	75	150	187
Wave	S	MS	6	78.7	12.6	32.6	100	0.3	83	151	187
CM614	MS	MS	6	78.6	11.9	34.8	100	1.4	78	151	188
Secord	S	MS	6	77.4	12.2	34.3	100	0.5	79	151	190
25R40 	HS	S	6	76.5	11.9	33.5	100	0.3	68	151	190
Emperor 	MS	MR	6	76.7	12.1	33.6	100	1.3	84	150	187
Marker	MR	MR	6	75.6	11.5	28.5	100	0.0	76	152	188
UGRC Ring 	MS	MR	6	76.5	12.1	34.5	95	0.0	76	150	190
25R46 	MS	MS	5	78.3	12.4	32.0	100	0.0	71	151	190
Cruze	MS	MR	4	79.0	12.3	32.0	100	0.3	70	150	188
DS572SRW 	S	HS	4	80.0	11.8	39.8	100	0.8	87	152	187
Drew	MS	MR	3	78.3	12.4	29.8	100	0.0	72	150	190
Measure	MS	MR	2	77.0	12.5	34.0	100	0.9	77	151	187
B654SRW 	S	MS	3	76.7	10.9	33.6	100	2.8	83	151	184
B743SRW 	MS	MS	3	78.8	12.7	33.8	100	1.9	81	153	188
25R61 	MR	MS	2	76.0	12.3	30.2	100	0.0	77	150	190
25R74 	MS	MS	2	77.1	12.4	28.1	93	0.0	70	150	190
Blaze	MR	MR	1	78.1	12.1	35.3	100	0.0	77	152	191
AC Morley	MR	MS	6	79.0	13.2	34.4	100	1.4	93	152	187
Priesley	S	S	6	75.3	12.3	36.2	100	0.0	71	152	189
Gallus 	S	S	6	79.9	13.3	38.4	100	0.0	75	151	190
JDC78 	S	S	3	77.3	12.8	34.4	100	0.9	70	152	190
Arnold	S	MS	2	82.1	14.9	38.1	100	0.0	81	153	191
Lexington 	MS	MR	1	80.4	13.8	40.6	100	1.0	77	152	187
PRO 81 	MS	MS	1	81.0	13.6	33.9	100	0.0	79	152	187
Frontenac	MS	MR	4	79.0	12.9	37.3	100	0.8	89	151	191
Means				78.0	12.5	34.0	100	0.5	78	151	189
Locations				3	3	3	1	2	3	2	1

For traits not reported on this table see other area trait tables or previous year's performance trials. Not all traits are expressed in any given year or area. Head to Head comparisons on GoCereals.ca website give multi-year data for trait characteristics.

1 Combined Fusarium Ratings are based on BOTH Fusarium head blight ratings and deoxynivalenol (DON) levels from inoculated provincial trials.

DON Ratings are based only on DON levels from inoculated provincial trials.

















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

2 For ratings 0-9, a high score is undesirable.

3 Heading may vary from year to year and should only be used to indicate relative differences.

  PBR Status; indicates varieties protected under PBR 91 or PBR 78. Visit pbrfacts.ca to learn more.

**Table 5b - Ontario Winter Wheat Performance Trials; Varietal Characteristics Based on Data from Area II
OCCC, August 2018**

Variety	Fusarium Data			Test Weight (kg/hL)	Protein (%)	1000 Kernel Weight (g)	Winter Survival (%)	Lodging (0-9) ²	Height (cm)	Heading Date ³ (JD)	Powdery Mildew (0-9) ²	Leaf Rust (0-9) ²	Stripe Rust (0-9) ²	Maturity Date (JD)
	Combined Fusarium Rating ¹	Don Rating ¹	Years											
Ava	MR	MS	6	75.6	10.5	37.6	97	3.3	93	161	4.3	0.0	2.0	202
E0028W	HS	HS	5	73.8	10.5	42.9	97	5.0	80	159	3.3	1.0	0.5	195
25W31 	MS	S	4	75.6	11.8	33.1	95	1.5	74	160	4.5	0.3	0.0	199
Branson 	S	MS	6	74.4	10.7	36.7	94	6.0	79	157	4.0	0.0	0.0	195
Wave	S	MS	6	76.8	11.9	36.0	98	2.5	88	160	1.3	0.0	0.0	195
CM614	MS	MS	6	76.7	10.5	41.3	98	5.0	85	158	3.5	0.3	0.5	199
Secord	S	MS	6	74.8	10.8	38.6	100	3.0	82	158	1.5	0.0	0.0	195
25R40 	HS	S	6	75.0	9.8	40.1	96	2.0	70	159	1.2	0.0	1.5	197
Emperor 	MS	MR	6	77.3	11.1	36.2	97	5.8	89	158	4.7	1.3	2.5	199
Marker	MR	MR	6	74.9	10.3	32.4	94	3.0	80	159	1.5	0.3	0.0	199
UGRC Ring 	MS	MR	6	74.3	11.0	37.9	95	3.5	82	158	3.8	0.0	1.5	197
25R46 	MS	MS	5	74.0	10.5	35.8	97	2.0	76	158	4.7	0.0	0.5	198
Cruze	MS	MR	4	77.1	11.0	36.1	95	2.8	72	158	4.8	0.0	1.5	198
DS572SRW 	S	HS	4	78.0	10.8	46.5	93	3.5	91	160	0.8	1.0	2.0	201
Drew	MS	MR	3	75.3	11.5	33.2	90	1.5	73	158	1.5	0.3	1.0	197
Measure	MS	MR	2	77.0	11.5	40.7	92	7.0	84	158	1.7	0.3	0.0	197
B654SRW 	S	MS	3	75.1	9.9	41.5	99	7.5	90	159	4.5	0.0	0.0	195
B743SRW 	MS	MS	3	76.8	11.1	36.3	92	5.5	87	162	3.7	0.0	0.0	200
25R61 	MR	MS	2	74.0	10.7	34.9	99	1.5	84	158	5.5	0.0	0.0	194
25R74 	MS	MS	2	75.6	11.1	35.0	94	2.3	72	158	1.5	0.0	0.0	200
Blaze	MR	MR	1	75.9	10.8	39.0	97	3.0	81	160	3.3	0.0	0.0	198
AC Morley	MR	MS	6	78.5	11.9	38.3	99	5.3	102	162	0.8	0.0	0.0	196
Princeton 	S	S	6	77.8	11.3	45.3	99	4.3	88	160	2.2	0.0	0.0	195
Priesley	S	S	6	75.2	11.3	43.8	99	2.0	77	160	1.7	0.0	0.5	202
Gallus 	S	S	6	78.9	12.2	46.4	98	1.3	86	161	1.0	0.0	0.0	198
JDC78 	S	S	3	75.5	11.7	39.8	92	2.3	72	160	2.7	0.0	0.0	203
Arnold	S	MS	2	79.4	13.6	39.0	95	1.3	87	160	1.0	0.0	1.5	200
Lexington 	MS	MR	1	78.9	11.9	47.3	96	4.0	80	161	3.0	0.0	0.0	197
PRO 81 	MS	MS	1	79.8	12.7	39.5	96	1.3	87	160	0.8	0.0	0.0	197
Frontenac	MS	MR	4	77.8	11.7	42.9	98	2.8	97	159	1.0	0.0	0.0	195
Means				76.3	11.2	39.1	96	3.4	83	159	2.7	0.2	0.5	198
Locations				3	1	3	2	1	3	3	2	1	1	1

For traits not reported on this table see other area trait tables or previous year's performance trials. Not all traits are expressed in any given year or area. Head to Head comparisons on GoCereals.ca website give multi-year data for trait characteristics.



1 Combined Fusarium Ratings are based on BOTH Fusarium head blight ratings and deoxynivalenol (DON) levels from inoculated provincial trials.

DON Ratings are based only on DON levels from inoculated provincial trials.

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












2 For ratings 0-9, a high score is undesirable.

3 Heading may vary from year to year and should only be used to indicate relative differences.

  PBR Status; indicates varieties protected under PBR 91 or PBR 78. Visit pbrfacts.ca to learn more.

[Return to Index ...](#)

**Table 5c - Ontario Winter Wheat Performance Trials; Varietal Characteristics Based on Data from Area III
OCCC, August 2018**



Variety	Fusarium Data			Test Weight (kg/hL)	Protein (%)	1000 Kernel Weight (g)	Winter Survival (%)	Lodging (0-9) ²	Height (cm)	Heading Date ³ (JD)	Leaf Septoria (0-9) ²	Straw Yield Index
	Combined Fusarium Rating ¹	Don Rating ¹	Years									
Ava	MR	MS	6	72.9	7.8	36.1	91	1.4	98	157	3.9	110
Branson 	S	MS	6	73.1	8.3	34.4	90	2.5	84	154	4.4	92
CM614	MS	MS	6	74.0	8.6	37.3	87	1.4	89	156	4.6	108
Secord	S	MS	6	70.6	8.7	37.3	87	0.4	85	157	4.5	106
Emperor 	MS	MR	6	73.2	9.1	34.9	88	1.1	96	154	3.8	111
Marker	MR	MR	6	72.4	8.4	31.2	88	1.6	86	155	4.3	97
UGRC Ring 	MS	MR	6	65.9	8.6	36.6	85	0.6	90	156	4.1	90
DS572SRW 	S	HS	4	74.5	8.7	45.3	83	0.8	98	156	4.4	92
Drew	MS	MR	3	73.1	9.0	32.7	90	0.3	79	156	5.1	86
Measure	MS	MR	2	73.6	9.2	38.7	86	2.9	89	155	5.0	87
B654SRW 	S	MS	3	73.1	8.1	37.7	92	1.4	95	156	4.1	106
B743SRW 	MS	MS	3	74.1	9.7	35.5	82	2.0	95	156	3.9	82
Blaze	MR	MR	1	72.4	9.1	38.2	87	2.1	87	157	3.4	84
AC Morley	MR	MS	6	74.5	10.2	38.3	89	1.9	111	157	3.7	141
Princeton 	S	S	6	74.0	9.3	43.4	90	0.5	100	157	5.0	118
Priesley	S	S	6	72.7	9.9	41.2	94	0.0	80	156	4.5	103
Gallus 	S	S	6	75.3	10.0	43.7	90	0.1	87	156	4.1	80
JDC78 	S	S	3	72.5	9.5	39.1	90	1.0	76	156	4.8	90
Lexington 	MS	MR	1	75.8	10.6	43.9	93	0.5	88	156	4.4	111
PRO 81 	MS	MS	1	77.0	10.0	37.3	91	0.5	92	156	4.0	102
Frontenac	MS	MR	4	75.6	8.8	43.6	91	0.5	102	156	4.9	103
Means				73.4	9.1	38.4	89	1.1	91	156	4.3	2.47 t/ha
Locations				3	1	3	2	2	3	1	2	1

For traits not reported on this table see other area trait tables or previous year's performance trials. Not all traits are expressed in any given year or area. Head to Head comparisons on GoCereals.ca website give multi-year data for trait characteristics.

1 Combined Fusarium Ratings are based on BOTH Fusarium head blight ratings and deoxynivalenol (DON) levels from inoculated provincial trials.
DON Ratings are based only on DON levels from inoculated provincial trials.
MR=moderately resistant (best); MS=moderately susceptible; S=susceptible; HS=highly susceptible (worst).





2 For ratings 0-9, a high score is undesirable.

3 Heading may vary from year to year and should only be used to indicate relative differences.

  PBR Status; indicates varieties protected under PBR 91 or PBR 78. Visit pbrfacts.ca to learn more.

[Return to Index ...](#)

**Table 6 - Ontario Winter Wheat Performance Trial; Cumulative Yield Index¹
Summary for AreaV², OCCC, August 2018⁵**

Class ³	Variety	2018
srw	CM614	98 ⁴
	Marker	116
	Cruze (awned)	102
	Drew (awned)	66
	Blaze (awned)	110
hrw	Princeton 	105
	Priesley	106
	AC Morley	116
	JDC78 (awned) 	65
	Lexington (awned) 	74
	PRO 81 (awned) 	126
efw	Frontenac	115
Means (t/ha)		3.15
Means (bu/ac)		47
Location-Years		1

¹ Values differing by less than 3 within a column may not represent true differences in yield. Yield Indices are Heritability Adjusted Relative Values (HARV), which favour results from trial locations with high repeatability. For more information, see: Yan, W. Use of HARV in Variety Trial Summaries.

² Area V : see map of areas on www.gocereals.ca/variety_trial.php (2018 location is Emo).

³ sww = soft white winter, srw = soft red winter, hrw = hard red winter, efw = eastern feed winter.








⁴ Cultivar yield rankings may vary from year to year. Decisions are therefore best made using data with the greatest number of years.



PBR Status; indicates varieties protected under PBR 91 or PBR 78. Visit pbrfacts.ca to learn more.

[Return to Index ...](#)

**Table 6a - Ontario Winter Wheat Performance Trial - Cumulative Yield Indices¹,
Intensive Trials Summary for Area V², OCCC, August 2018⁵**

Class ³	Variety	2-Year Index Fungicides		2016 Index Fungicides	
		No	Yes	No	Yes
sww	Ava	99 ⁴	95	99	92
srw	CM614	95	97	99	99
	HY 412-SRW 	108	109	114	114
	UGRC C2-5			103	103
	DS572SRW 			99	96
	UGRC GL164			109	106
	B654SRW 			97	101
	B743SRW 			99	97
	Curtis 			103	101
hrw	Princeton 	95	98	94	94
	Priesley	107	106	105	99
	Gallus (awned) 	92	92	87	86
Means (t/ha)		7.77	7.84	7.52	7.37
Means (bu/ac)		116	117	112	110
Location-Years		2		1	

¹ Values differing by less than 3 within a column may not represent true differences in yield. Yield Indices are Heritability Adjusted Relative Values (HARV), which favour results from trial locations with high repeatability. For more information, see: Yan, W. Use of HARV in Variety Trial Summaries.

² Area V: see map of areas on www.gocereals.ca/variety_trial.php.

³ sww = soft white winter, srw = soft red winter, hrw = hard red winter, efw = eastern feed winter.

⁴ Cultivar yield rankings may vary from year to year. Decisions are therefore best made using data with the greatest number of years.

⁵ Data for 2016 presented as 2017-2018 trials did not survive.





Fungicide treatments included a T1 application of foliar fungicide at Zadoks Growth Stage 30 to 31, followed by a T3 application of fusarium fungicide during flowering.

The OCCC thanks the Grain Farmers of Ontario, BASF, Bayer and Syngenta for their financial support towards the intensive trials.

  PBR Status; indicates varieties protected under PBR 91 or PBR 78. Visit pbrfacts.ca to learn more.

[Return to Index ...](#)

**Table 6b - Ontario Winter Wheat Performance Trials; Varietal Characteristics
Based on Data from Area V
OCCC, August 2018 ⁴**

Variety	Fusarium Data			Test Weight (kg/hL)	1000 Kernel Weight (g)	Height (cm)
	Combined Fusarium Rating ¹	Don Rating ¹	Years			
CM614	MS	MS	6	69.0	34.8	79
Marker	MR	MR	6	71.5	28.4	77
Cruze	MS	MR	4	73.2	32.1	71
Drew	MS	MR	3	69.8	31.6	72
Blaze	MR	MR	1	69.4	33.6	78
AC Morley	MR	MS	6	73.2	37.6	102
Princeton 	S	S	6	69.8	40.8	84
Priesley	S	S	6	69.4	36.4	76
JDC78 	S	S	3	69.8	35.1	67
Lexington 	MS	MR	1	71.1	37.4	75
PRO 81 	MS	MS	1	74.4	34.5	83
Frontenac	MS	MR	4	73.2	38.6	87
Means				71.1	35.1	79
Locations				1	1	1

For traits not reported on this table see other area trait tables or previous year's performance trials. Not all traits are expressed in any given year or area. Head to Head comparisons on GoCereals.ca website give multi-year data for trait characteristics.

1 Combined Fusarium Ratings are based on BOTH Fusarium head blight ratings and deoxynivalenol (DON) levels from inoculated provincial trials.

DON Ratings are based only on DON levels from inoculated provincial trials.

















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

2 For ratings 0-9, a high score is undesirable.

3 Heading may vary from year to year and should only be used to indicate relative differences.

  PBR Status; indicates varieties protected under PBR 91 or PBR 78. Visit pbrfacts.ca to learn more.

Table 7a - Ontario Winter Wheat Distributors 2018

Class ³	Variety	Distributor
sww	Ava	Brevant
	E0028W	SeCan Association
	25W31 (awned) 	Pioneer Hi-Bred
srw	Branson 	Brevant
	Wave	SeCan Association
	CM614	C & M Seeds
	Secord (awned)	SeCan Association
	25R40 (awned) 	Pioneer Hi-Bred
	Emperor 	SeCan Association
	Marker	Bramhill Seeds
	UGRC Ring (awned) 	Elite Seeds
	25R46 (awned) 	Pioneer Hi-Bred
	Cruze (awned)	C & M Seeds
	DS572SRW 	Brevant
	Drew (awned)	C & M Seeds
	Measure (awned)	Bramhill Seeds
	B654SRW 	Brevant
	B743SRW 	Brevant
25R61 (awned) 	Pioneer Hi-Bred	
25R74 (awned) 	Pioneer Hi-Bred	
Blaze (awned)	C & M Seeds	
hrw	AC Morley	Advantage Seed Growers
	Princeton 	C & M Seeds
	Priesley	C & M Seeds
	Gallus (awned) 	C & M Seeds
	JDC78 (awned) 	C & M Seeds
	Arnold (awned)	C & M Seeds
	Lexington (awned) 	C & M Seeds
PRO 81 (awned) 	C & M Seeds	
efw	Frontenac	Semican Inc

¹ sww = soft white winter, srw = soft red winter, hrw = hard red winter, efw = eastern feed winter.

  PBR Status; indicates varieties protected under PBR 91 or PBR78. Visit pbrfacts.ca to learn more.

Table 7b - Ontario Winter Wheat Distributor/Sponsor Contact Information

Distributor	Address
Advantage Seed Growers	P.O. Box 351, Lucknow, ON, N0G 2H0 Tel: 519-440-6406 Fax: 519-812-1010 Website: www.advantageseeds.com
Bramhill Seeds	5220 Hwy 23, RR#2, Palmerston, ON, N0G 2P0 Tel: 519-343-3630 Fax: 519-343-2037 Internet: www.bramhillseeds.com
Brevant seeds	Suite 2400, 215-2nd St, SW, Calgary, AB T2P 1M4 Tel: 519-359-3934 Website: www.brevant.ca
C&M Seeds	6180 5th Line, Palmerston, ON, N0G 2P0 Tel: 1-888-733-9432 Fax: 519-343-3792 Website: www.redwheat.com
Elite Seeds	Available through your local Agromart Tel: 519-282-6701 Website: www.eliteseeds.ca
Pioneer Hi-Bred	Box 730, 7398 Queen's Line, Chatham, ON, N7M 5L1 Tel: 1-800-265-9435 Website: www.pioneer.com
SeCan Association	400-300 Terry Fox Drive, Kanata, ON, K2K 0E3 Tel: 1-866-797-7874 Fax: 613-592-9497 Website: www.secan.com
Semican Inc	366, Rang 10, Plessisville, QC, G6L 2Y2 Tel: 1-866-362-3385 Fax: 819-362-3385 Website: www.semican.ca