

2017



Ontario Spring Cereal Performance Trials

Data collected 2012-2016

www.gocereals.ca

Conducted by the Ontario Cereal Crop Committee

Current as of April 8, 2017

Ontario Spring Cereal Performance Trials

This report has been prepared by the Ontario Cereal Crop Committee and contains the most recent varietal information on spring cereals that were planted and harvested in 2016.

ADDITIONAL INFORMATION

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

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

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Table 1. 2016 Spring Wheat Performance Trial Cumulative Yield Index¹ Summary

Cultivar	Class ³	Area II ²					Area III ²					Area V ²				
		5 yr ⁴	4 yr	3 yr	2 yr	2016	5 yr ⁴	4 yr	3 yr	2 yr	2016	5 yr ⁴	4 yr	3 yr	2 yr	2016
Norwell	HRS-a	100	100	100	104	109	98	99	100	97	93	103	104	105	107	110
Sable	HRS-a	103	102	102	107	114	100	100	98	98	99	103	105	104	108	106
Megantic	HRS-a						98	98	98	100	96	97	96	93	90	91
HY 124-HRS	HRS-a	102	101	101	99	98	96	95	95	95	93	97	96	95	95	92
Touran	HRS-a														102	99
Furano	HRS						102	104	103	101	100	104	102	99	104	111
MAJOR	HRS						99	101	103	100	101	99	99	100	98	97
Fuzion	HRS						96	95	95	94	94		100	100	100	102
Wilkin	HRS	103	103	104	107	114	100	100	103	106	105	103	105	106	105	106
AAC Scotia 	HRS-a	100	100	100	95	92	110	109	111	109	106	104	105	103	100	104
MAGOG	HRS						98	97	95	96	94	98	97	98	97	94
TOPAZE	HRS-a						97	98	97	93	104					
KLEOS	HRS						93	92	90	93	90	93	93	91	91	84
Easton	HRS-a		110	108	108	106		108	109	108	107		102	102	101	103
AAC Fairwind 	HRS-a		100	98	96	90		109	106	102	109		103	104	107	110
SS Blomidon	HRS			99	94	90			105	102	95			100	99	98
Moka	HRS								93	96	93			98	97	93
Pasteur	Other				104	103				103	107				107	108
Hoffman	EFS-a	103	102	101	92	77	112	111	112	113	114				109	111
Sonika	TRIT-a				103	110				102	107				97	105
Means (t/ha)		4.27	4.41	4.50	4.46	3.94	3.81	3.66	3.89	4.30	4.03	4.16	4.39	4.40	4.57	4.19
Means (bu/ac)		63	66	67	66	59	57	55	58	64	60	62	65	65	68	62
Locations		16	13	11	7	3	14	12	9	6	3	13	10	7	5	3

Notes:

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. See area map on GoCereals.ca website.
3. HRS = hard red spring, EFS = eastern feed spring, TRIT = triticale, Other = does not meet quality standards for CEHRS, -a = awned
4. Cultivar yield ranking 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. Visit pbrfacts.ca to learn more.

Table 1a - Ontario Performance Trial; Spring Wheat 2016 Cumulative Yield Index¹ Intensive Trials
Summary for Area II², OCCC, November 2016

Class ³	Variety	3-Year Index Fungicides		2-Year Index Fungicides		2016 Index Fungicides	
		No	Yes	No	Yes	No	Yes
hrs	Norwell (awned)	92 ⁴	96	98	100	98	101
	Sable (awned)	99	107	102	108	104	112
	HY 124-HRS (awned)	98	105	98	100	94	96
	Wilkin	98	108	102	108	104	110
	AAC Scotia (awned) 	97	104	93	98	95	100
	Easton (awned)	104	109	104	104	101	98
	AAC Fairwind (awned) 	98	104	98	98	96	100
	SS Blomidon	96	103	95	100	94	97
other	Pasteur			106	111	106	109
efs	Hoffman (awned)	101	111	96	103	88	104
trit	Sonika (awned)			103	108	106	108
Means (t/ha)		4.27	4.61	4.33	4.51	4.12	4.33
Means (bu/ac)		63.5	68.6	64.3	67.0	61.3	64.4
Location-Years		6		4		2	

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

³ hrs = hard red spring, efs = eastern feed spring, trit = triticale, other = does not meet quality standards for CEHRS.

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.

The OCCC is thankful to 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. Visit pbrfacts.ca to learn more.

Table 1b - Ontario Performance Trial; Spring Wheat 2016 Cumulative Yield Index¹ Intensive Trials
Summary for Area III², OCCC, November 2016

Class ³	Variety	3-Year Index Fungicides		2-Year Index Fungicides		2016 Index Fungicides	
		No	Yes	No	Yes	No	Yes
hrs	Norwell (awned)	101 ⁴	103	97	101	93	96
	Sable (awned)	98	101	95	101	100	103
	Megantic (awned)	98	98	102	102	98	100
	HY 124-HRS (awned)	88	95	85	91	93	96
	Furano	102	102	100	101	105	108
	MAJOR	94	98	93	99	96	103
	Fuzion	94	97	91	95	99	103
	Wilkin	90	101	92	102	92	101
	AAC Scotia (awned) 	107	109	108	111	109	118
	MAGOG	95	104	92	104	93	101
	TOPAZE (awned)	96	103	94	102	93	101
	KLEOS	93	95	94	97	91	91
	Easton (awned)	98	109	97	108	95	107
	AAC Fairwind (awned) 	98	106	95	106	96	107
	SS Blomidon	107	111	104	109	98	102
	Moka	95	101	99	107	87	96
other	Pasteur			100	113	104	115
efs	Hoffman (awned)	109	115	109	118	119	128
trit	Sonika (awned)			106	112	102	108
Means (t/ha)		4.62	4.96	5.69	6.11	4.80	5.15
Means (bu/ac)		68.7	73.7	84.5	90.9	71.4	76.6
Location-Years		3		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 3: see map of areas on www.gocereals.ca/variety_trial.php.

³ hrs = hard red spring, efs = eastern feed spring, trit = triticale, other = does not meet quality standards for CEHRS.

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 1c - Ontario Performance Trial; Spring Wheat 2016 Cumulative Yield Index¹ Intensive Trials
Summary for Area V², OCCC, November 2016

Class ³	Variety	3-Year Index Fungicides		2-Year Index Fungicides		2016 Index Fungicides	
		No	Yes	No	Yes	No	Yes
hrs	Norwell (awned)	101 ⁴	102	100	103	100	102
	Sable (awned)	100	104	99	105	100	105
	Megantic (awned)	96	100	93	100	101	103
	HY 124-HRS (awned)	94	98	93	98	92	97
	Touran (awned)			102	105	105	106
	Furano	95	98	96	100	102	103
	MAJOR	96	96	96	97	95	96
	Fuzion	97	98	96	96	100	97
	Wilkin	102	101	100	104	100	103
	AAC Scotia (awned) 	99	102	98	101	103	98
	MAGOG	98	100	96	99	96	98
	KLEOS	95	93	94	92	88	88
	Easton (awned)	99	102	98	106	98	105
	AAC Fairwind (awned) 	101	104	101	107	105	105
	SS Blomidon	102	105	102	107	98	104
	Moka	96	100	94	100	95	98
other	Pasteur			111	115	112	114
efs	Hoffman (awned)			109	116	111	117
trit	Sonika (awned)			94	101	98	101
Means (t/ha)		5.56	5.78	5.82	6.12	5.83	5.99
Means (bu/ac)		82.7	85.9	86.5	91.0	86.7	89.1
Location-Years		3		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 5: see map of areas on www.gocereals.ca/variety_trial.php.

³ hrs = hard red spring, efs = eastern feed spring, trit = triticale, other = does not meet quality standards for CEHRS.

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 2a - Ontario Spring Wheat Varietal Characteristics Based on Data from Area 2, 2016

Cultivar	Class ¹	Fusarium Data			1000								
		Combined Fusarium Rating ²	DON Rating ²	Years	Test Weight (kg/hL)	Protein (%)	Kernel Weight (g)	Lodging (0-9) ³	Height (cm)	Heading ⁴ (days)	Leaf Rust (0-9) ³	Leaf Septoria (0-9) ³	Stripe Rust (0-9) ³
Norwell	HRS-a	MS	S	10	78.2	14.5	34.4	0.0	87	55	0.0	4.0	2.4
Sable	HRS-a	HS	HS	10	77.4	14.5	35.7	0.0	75	55	4.0	3.5	1.6
HY 124-HRS	HRS-a	HS	HS	10	76.0	15.3	42.9	0.0	77	60	0.0	2.5	0.9
Wilkin	HRS	S	S	8	75.0	14.1	32.6	0.0	78	58	0.0	4.5	0.8
AAC Scotia 	HRS-a	MR	MS	8	74.1	13.9	36.6	2.0	95	60	0.0	3.5	5.3
Easton	HRS-a	MS	MS	6	76.4	14.3	33.6	0.0	75	59	0.0	4.0	0.5
AAC Fairwind 	HRS-a	MS	MS	6	76.0	13.8	33.9	0.0	95	60	4.0	4.5	6.3
SS Blomidon	HRS	S	MS	3	72.8	14.8	36.6	0.0	80	60	2.0	3.5	2.4
Pasteur	Other	S	MS	2	76.7	12.8	32.4	0.0	76	62	0.0	2.5	3.0
Hoffman	EFS-a	S	HS	5	72.0	13.0	33.7	0.0	92	60	0.0	5.5	7.4
Sonika	TRIT-a	MS	MS	2	66.5	11.5	38.0	0.0	93	59	0.0	2.0	0.3
Means					74.6	13.9	35.5	0.2	84	59	0.9	3.6	2.8
Locations					3	3	3	1	3	3	1	1	3

Notes:

1. HRS = hard red spring, EFS = eastern feed spring, TRIT = triticale, Other = does not meet quality standards for CEHRS, -a = awned
2. 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)
3. For ratings 0-9, a high score is undesirable.
4. Days from planting. Heading and Physiological Maturity vary from year to year and should only be used to indicate relative differences.




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Table 2b - Ontario Spring Wheat Varietal Characteristics Based on Data from Area 3, 2016

Cultivar	Class ¹	Fusarium Data			Years	Test Weight (kg/hL)	Protein (%)	1000 Kernel			Mildew (0-9) ³	Leaf Rust (0-9) ³	Leaf Septoria (0-9) ³
		Combined Fusarium		DON Rating ²				Weight (g)	Height (cm)	Heading ⁴ (days)			
		Rating ²	Rating ²										
Norwell	HRS-a	MS	S	10	76.2	15.2	34.9	72	50	1.3	1.3	2.1	
Sable	HRS-a	HS	HS	10	76.6	15.1	35.4	68	50	0.3	3.8	1.7	
Megantic	HRS-a	MS	S	10	77.0	14.9	39.7	76	50	0.0	1.0	1.9	
HY 124-HRS	HRS-a	HS	HS	10	74.4	15.1	41.5	73	53	1.0	1.6	0.7	
Furano	HRS	MR	MR	9	77.1	14.6	36.7	82	56	2.3	1.8	0.5	
MAJOR	HRS	MR	MR	9	76.2	14.6	37.3	85	57	0	0.9	1.1	
Fuzion	HRS	MS	MS	9	75.4	14.7	38.5	77	52	0.3	1.5	1.8	
Wilkin	HRS	S	S	8	73.6	14.3	33.2	71	52	1.3	1.1	1.4	
AAC Scotia 	HRS-a	MR	MS	8	74.3	14.1	39.6	82	55	0.3	1.8	2.1	
MAGOG	HRS	S	MS	7	75.7	14.5	37.9	77	53	1.3	2	1.6	
TOPAZE	HRS-a	MR	MS	6	69.9	15.0	33.8	82	58	2	1.3	0.4	
KLEOS	HRS	MS	MR	5	74.9	15.3	40.2	75	50	0.5	2.4	2.4	
Easton	HRS-a	MS	MS	6	75.7	14.7	34.0	70	56	0.5	1	0.5	
AAC Fairwind 	HRS-a	MS	MS	6	76.6	14.0	38.3	78	54	0	3.9	1.3	
SS Blomidon	HRS	S	MS	3	71.8	14.8	38.5	72	55	0.3	2.4	0.7	
Moka	HRS	MS	MS	3	76.4	15.1	41.6	68	50	0.3	2.5	2.5	
Pasteur	Other	S	MS	2	75.6	13.7	35.0	69	56	0.8	1.1	0.4	
Hoffman	EFS-a	S	HS	5	75.3	13.7	44.0	76	53	0	2.4	1.4	
Sonika	TRIT-a	MS	MS	2	62.6	13.1	37.6	78	54	0	1.1	0.4	
Means					74.5	14.6	37.8	75	53	0.6	1.8	1.3	
Locations					3	3	3	3	3	1	2	3	

Notes:

1. HRS = hard red spring, EFS = eastern feed spring, TRIT = triticale, Other = does not meet quality standards for CEHRS, -a = awned
2. 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)



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

4. Days from planting. Heading and Physiological Maturity vary from year to year and should only be used to indicate relative differences.



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Table 2c - Ontario Spring Wheat Varietal Characteristics Based on Data from Area 5, 2016

Cultivar	Class ¹	Fusarium Data			Test Weight (kg/hL)	Protein (%)	1000 Kernel				Straw Yield Index
		Combined Fusarium Rating ²	DON Rating ²	Years			Weight (g)	Height (cm)	Heading ⁴ (days)	Maturity ⁴ (days)	
Norwell	HRS-a	MS	S	10	77.9	14.8	34.3	90	58	104	79
Sable	HRS-a	HS	HS	10	76.3	14.5	33.7	79	59	107	95
Megantic	HRS-a	MS	S	10	76.9	13.6	35.1	102	58	101	91
HY 124-HRS	HRS-a	HS	HS	10	74.4	14.7	39.0	81	60	107	93
Touran	HRS-a	MS	S	10	76.6	14.0	39.0	94	59	103	110
Furano	HRS	MR	MR	9	76.2	13.9	35.8	100	64	108	130
MAJOR	HRS	MR	MR	9	75.6	14.2	35.3	100	66	110	127
Fuzion	HRS	MS	MS	9	75.1	13.9	35.4	101	60	106	108
Wilkin	HRS	S	S	8	73.2	13.6	31.7	81	59	104	87
AAC Scotia 	HRS-a	MR	MS	8	74.8	12.8	37.3	104	62	103	93
MAGOG	HRS	S	MS	7	75.1	13.5	35.3	94	58	106	69
KLEOS	HRS	MS	MR	5	74.0	14.3	36.3	94	60	105	58
Easton	HRS-a	MS	MS	6	75.2	14.2	32.3	81	64	109	109
AAC Fairwind 	HRS-a	MS	MS	6	76.5	12.9	35.0	102	61	107	95
SS Blomidon	HRS	S	MS	3	72.8	13.7	36.0	89	62	107	65
Moka	HRS	MS	MS	3	76.2	13.5	37.8	94	60	102	95
Pasteur	Other	S	MS	2	76.0	12.6	33.9	81	62	109	133
Hoffman	EFS-a	S	HS	5	76.3	12.4	40.1	100	62	108	107
Sonika	TRIT-a	MS	MS	2	63.3	11.6	36.9	91	63	110	159
Means					74.9	13.6	35.8	92	61	106	3.46 t/ha
Locations					3	2	3	3	3	2	1

Notes:

1. HRS = hard red spring, EFS = eastern feed spring, TRIT = triticale, Other = does not meet quality standards for CEHRS, -a = awned
2. 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)
3. For ratings 0-9, a high score is undesirable.
4. Days from planting. Heading and Physiological Maturity vary from year to year and should only be used to indicate relative differences.



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Table 3. 2016 Spring Barley Performance Trial Cumulative Yield Index¹ Summary

Cultivar	Area II ²					Area III ²					Area V ²				
	5 yr ³	4 yr	3 yr	2 yr	2016	5 yr ³	4 yr	3 yr	2 yr	2016	5 yr ³	4 yr	3 yr	2 yr	2016
2 Rowed															
AC Kings	95	96	99	99	95										
Bornholm	102	101	100	103	99	96	95	93	97	94	101	102	101	103	102
Conestogo	99	99	98	100	99	97	95	90	93	90					
AAC Purpose			97	97	96			95	96	99			96	96	97
Champion					109					103					104
6 Rowed															
Cyane	105	104	104	101	96	107	107	106	105	101					
Dignity	105	104	102	100	101	98	100	102	103	101					
OCEANIK						100	101	107	110	107	107	107	110	112	114
OAC Laverne	103	102	101	103	101	102	101	100	103	105					104
Harmony						108	110	107	102	103	94	95	95	92	86
Synasolis											111	108	106	105	109
Raquel						106	103	104	104	104					
Amberly	101	101	102	103	100	100	102	105	103	107				92	97
Alliance	103	103	101	98	98		102	102	101	100	96	97	96	96	93
HY 621-6R	108	107	101	96	97	106	101	96	93	90	106	101	99	100	99
Alyssa														97	96
AAC Mirabel						103	101	100	97	99	100	103	100	96	96
OAC Belwood	102	101	100	101	98	103	100	99	104	101					
Boroe													108	107	108
Masky							99	106	107	102		104	105	104	103
Chambly							107	101	102	98		101	98	101	98
AAC Vitality			101	101	105			105	100	104			100	96	96
DS7176RB			100	100	99			105	105	97			96	96	95
AAC Montrose														106	105
DS8126RB					113					113					112
6 Rowed Hulless															
AAC Azimuth									86	86					
Bastile													75	67	
Means (t/ha)	4.24	4.41	4.64	4.30	4.95	4.30	4.63	5.33	5.61	4.37	4.10	4.57	4.83	5.10	4.66
Means (bu/ac)	79	82	86	80	92	80	86	99	104	81	76	85	90	95	87
Locations	18	15	11	7	3	12	9	6	4	2	14	10	7	5	3

Notes:

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. See area map on GoCereals.ca website.
3. Cultivar yield ranking may vary from year to year. Decisions are therefore best made using data with the greatest number of years

Table 4a - Ontario Spring Barley Varietal Characteristics Based on Data from Area 2, 2016

Cultivar	Class¹	Test Weight (kg/hL)	1000 Kernel Weight (g)	Height (cm)	Heading³ (days)
AC Kings	2R	64.4	49.9	83	56
Bornholm	2R	66.8	46.7	67	57
Conestogo	2R	65.4	46.7	77	55
AAC Purpose	2R	60.4	55.3	79	57
Champion	2R	64.7	50.2	69	57
Cyane	6R	59.6	44.9	80	57
Dignity	6R	60.9	43.8	78	56
OAC Laverne	6R	63.1	42.6	77	55
Amberly	6R	61.2	44.9	79	58
Alliance	6R	60.6	44.6	74	56
HY 621-6R	6R	61.1	46.2	80	51
OAC Belwood	6R	63.4	46.5	72	52
AAC Vitality	6R	57.0	45.0	77	58
DS7176RB	6R	56.4	46.6	73	56
DS8126RB	6R	60.4	43.1	73	57
Means		61.7	46.5	76	56
Locations		3	3	3	3

Notes:

1. 2R = 2 Row, 6R = 6 Row
2. For ratings 0-9, a high score is undesirable.
3. Days from planting. Heading and Physiological Maturity vary from year to year and should only be used to indicate relative differences.

Table 4b - Ontario Spring Barley Varietal Characteristics Based on Data from Area 3, 2016

Cultivar	Class ¹	Test Weight (kg/hL)	1000 Kernel Weight (g)	Height (cm)	Heading ³ (days)	Maturity ³ (days)
Bornholm	2R	70.2	46.8	49	70	79
Conestogo	2R	68.9	44.4	55	71	78
AAC Purpose	2R	67.3	53.9	62	69	86
Champion	2R	68.3	45.8	57	70	88
Cyane	6R	65.5	45.0	68	65	84
Dignity	6R	68.2	43.3	61	68	83
OCEANIK	6R	63.5	43.5	62	66	83
OAC Laverne	6R	70.4	41.5	58	65	82
Harmony	6R	66.6	45.1	71	64	87
Raquel	6R	70.1	43.8	63	63	82
Amberly	6R	66.2	45.3	68	64	86
Alliance	6R	68.0	43.6	59	69	83
HY 621-6R	6R	66.0	44.6	63	64	79
AAC Mirabel	6R	64.3	42.3	60	65	85
OAC Belwood	6R	66.6	43.8	51	69	78
Masky	6R	66.5	41.5	60	70	86
Chambly	6R	66.1	45.0	55	66	85
AAC Vitality	6R	65.3	46.6	68	72	89
DS7176RB	6R	64.5	45.7	61	67	86
DS8126RB	6R	67.1	44.0	64	66	85
AAC Azimuth	6R hullless	73.2	37.0	64	63	84
Means		67.3	44.4	61	67	84
Locations		2	2	2	2	1

Notes:

1. 2R = 2 Row, 6R = 6 Row
2. For ratings 0-9, a high score is undesirable.
3. Days from planting. Heading and Physiological Maturity vary from year to year and should only be used to indicate relative differences.

Table 4c - Ontario Spring Barley Varietal Characteristics Based on Data from Area 5, 2016

Cultivar	Class ¹	Test Weight (kg/hL)	1000 Kernel Weight (g)	Height (cm)	Lodging (0-9) ³	Heading ³ (days)	Straw Yield Index
Bornholm	2R	68.2	44.6	61	3.5	60	92
AAC Purpose	2R	62.9	53.4	80	0.5	59	96
Champion	2R	66.0	46.6	69	0.5	60	80
OCEANIK	6R	62.5	44.2	79	1.0	59	88
OAC Laverne	6R	66.0	41.5	74	0.0	58	98
Harmony	6R	61.7	44.2	85	0.0	60	116
Synasolis	6R	62.8	41.9	75	1.0	61	131
Amberly	6R	62.9	42.6	86	1.0	61	107
Alliance	6R	63.2	44.3	74	0.0	59	102
HY 621-6R	6R	63.2	41.7	75	1.8	58	106
Alyssa	6R	61.9	42.5	77	0.0	61	116
AAC Mirabel	6R	60.8	42.5	76	0.0	58	88
Boroe	6R	63.8	44.2	82	0.0	58	115
Masky	6R	64.8	41.8	74	0.0	59	82
Chambly	6R	62.1	44.2	73	0.0	59	117
AAC Vitality	6R	61.5	44.1	83	0.0	60	102
DS7176RB	6R	59.9	45.4	75	0.0	59	79
AAC Montrose	6R	62.1	44.7	81	0.0	59	108
DS8126RB	6R	63.9	44.5	74	1.0	59	90
Bastile	6R hulless	71.7	36.9	75	0.3	62	86
Means		63.6	43.8	76	0.5	59	5.82 t/ha
Locations		3	3	3	2	3	1

Notes:

1. 2R = 2 Row, 6R = 6 Row
2. For ratings 0-9, a high score is undesirable.
3. Days from planting. Heading and Physiological Maturity vary from year to year and should only be used to indicate relative differences.

Table 5. 2016 Oat Performance Trial Cumulative Yield Index¹ Summary

Cultivar	Area II ²					Area III ²					Area V ²				
	5 yr ³	4 yr	3 yr	2 yr	2016	5 yr ³	4 yr	3 yr	2 yr	2016	5 yr ³	4 yr	3 yr	2 yr	2016
Hulled															
OAC Markdale		90	89	92	87		97	97	91	93				96	93
Canmore											100	100	101	102	104
RC Amaze	91	89	88	92	95	99	97	93	94	94				101	97
Synextra											94	94	95	96	95
Dieter						97	95	97	94	99	99	98	96	95	97
Avatar						98	96	100	99	103					
Oscar											101	101	102	100	98
Hidalgo						89	87	93	96	105	104	99	99	99	100
Vitality											101	101	98	98	100
AAC Bullet	115	118	119	107	105	108	109	104	104	95	102	101	102	100	99
AAC Roskens	102	101	99	96	91	105	107	102	97	88					
Nice											107	105	102	103	106
Riley	97	95	91	97	101	103	104	101	101	103	98	95	94	98	97
AAC Almonte		109	111	106	98		104	103	97	94		97	97	93	96
Bolina												106	108	108	105
CDC Orrin							102	105	103	108					
AAC Richmond				105	106				108	110				100	103
AAC Oaklin		109	109	102	95		110	104	102	92		101	100	98	98
AAC Pontiac			107	102	100			100	97	91			98	95	95
Kara			112	105	104			107	105	105			109	104	102
Akina			114	104	106			109	108	104			109	103	102
AAC Nicolas									110	104			110	106	104
Fiona				100	98				94	97				96	97
AAC Kolosse				103	102				108	104				100	99
AAC Noranda				100	98				111	104				104	104
AAC Blake				107	107				108	105				102	103
Kyron					105					108					105
Pomona					102					96					102
AAC NORMANDIN										98					
Means (t/ha)	3.82	3.70	3.76	3.83	4.71	4.32	4.27	4.43	4.56	5.14	4.13	4.35	4.63	4.94	4.77
Means (bu/ac)	100	97	99	101	124	114	112	116	120	135	108	114	122	130	125
Locations	15	13	10	7	3	10	8	6	4	2	13	10	7	5	3

Notes:

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. See area map on GoCereals.ca website.

3. Cultivar yield ranking may vary from year to year. Decisions are therefore best made using data with the greatest number of years. Rust races have overcome genetic resistance in the past 7 years, with some varieties being significantly impacted.

**Table 5a - Ontario Performance Trial; Oat 2016 Cumulative Yield Index¹ Intensive Trials
Summary for Area II², OCCC, November 2016**

Class ³	Variety	3-Year Index Fungicides		2-Year Index Fungicides		2016 Index Fungicides	
		No	Yes	No	Yes	No	Yes
white	OAC Markdale	87 ⁴	98	92	96	89	96
	RC Amaze	84	91	90	92	94	92
	AAC Bullet	109	115	103	104	100	104
	Riley	91	100	102	101	104	106
	AAC Richmond			108	107	104	105
	AAC Oaklin	103	107	102	100	101	100
	AAC Pontiac	101	107	100	100	96	93
	Kara	104	109	104	98	104	97
	Akina	109	112	104	102	107	105
	Fiona			99	99	98	101
	AAC Kolosse			102	103	99	103
	AAC Noranda			98	90	96	97
	AAC Blake			105	109	104	108
	Kyron					104	105
	Pomona					98	105
tan	AAC Roskens	96	99	97	97	92	97
	AAC Almonte	100	100	102	98	98	98
Means (t/ha)		4.05	4.35	4.07	4.08	4.31	4.39
Means (bu/ac)		106.2	114.3	106.8	107.0	113.2	115.2
Location-Years		6		4		2	

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

³ hull colour.

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.

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

**Table 5b - Ontario Performance Trial; Oat 2016 Cumulative Yield Index¹
Intensive Trials
Summary for Area III², OCCC, November 2016**

Class ³	Variety	2-Year Index Fungicides		2016 Index Fungicides	
		No	Yes	No	Yes
yellow	Avatar	96 ⁴	110	96	104
white	OAC Markdale	101	96	89	92
	RC Amaze	86	98	87	102
	Dieter	95	108	93	109
	Hidalgo	90	110	99	111
	AAC Bullet	95	100	92	101
	Riley	99	108	98	113
	CDC Orrin	103	112	102	112
	AAC Richmond			108	114
	AAC Oaklin	98	95	88	87
	AAC Pontiac	100	104	87	93
	Kara	105	108	104	109
	Akina	109	112	107	112
	AAC Nicolas			98	97
	Fiona			92	108
	AAC Kolosse			105	105
	AAC Noranda			98	100
	AAC Blake			99	105
	Kyron			107	116
	Pomona			87	97
	AAC NORMANDIN			95	108
tan	AAC Roskens	98	108	83	108
	AAC Almonte	100	103	86	99
Means (t/ha)		3.97	4.37	5.19	5.81
Means (bu/ac)		104.2	114.6	136.3	152.6
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 3: see map of areas on www.gocereals.ca/variety_trial.php.

³ hull colour.

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.

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

**Table 5c - Ontario Performance Trial; Oat 2016 Cumulative Yield Index¹ Intensive Trials
Summary for Area V², OCCC, November 2016**

Class ³	Variety	3-Year Index Fungicides		2-Year Index Fungicides		2016 Index Fungicides	
		No	Yes	No	Yes	No	Yes
white	OAC Markdale			97 ⁴	97	93	96
	Canmore	100	104	98	105	99	110
	RC Amaze			97	100	95	96
	Synextra	91	94	95	97	96	99
	Dieter	91	92	93	96	90	92
	Oscar	98	100	98	100	94	96
	Hidalgo	99	105	96	103	94	103
	Vitality	95	97	94	98	91	100
	AAC Bullet	103	103	100	102	97	103
	Nice	98	100	100	102	100	103
	Riley	90	97	92	100	89	101
	Bolina	110	110	104	108	101	109
	AAC Richmond			100	105	104	110
	AAC Oaklin	101	104	96	102	91	103
	AAC Pontiac	96	99	97	101	92	98
	Kara	113	115	105	108	104	110
	Akina	106	111	101	106	99	106
	AAC Nicolas	113	113	103	107	99	105
	Fiona			92	100	91	103
	AAC Kolosse			103	101	103	105
AAC Noranda			99	105	97	107	
AAC Blake			100	105	101	106	
Kyron					104	110	
Pomona					103	110	
tan	AAC Almonte	92	97	93	99	93	103
Means (t/ha)		5.30	5.51	5.70	6.01	5.76	6.24
Means (bu/ac)		139.2	144.6	149.7	157.7	151.1	163.8
Location-Years		3		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 5: see map of areas on www.gocereals.ca/variety_trial.php.

³ hull colour.

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.

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

Table 6a - Ontario Oat Varietal Characteristics Based on Data from Area 2, 2016

Cultivar	Class¹	Test Weight (kg/hL)	1000 Kernel Weight (g)	Heading³ (days)	Height (cm)	Crown Rust (0-9)²	Leaf Septoria (0-9)²
OAC Markdale	white	44.7	36.8	56	89	2.3	1.5
RC Amaze	white	47.6	39.0	51	81	3.8	2.0
AAC Bullet	white	47.5	43.9	57	85	1.0	4.0
AAC Roskens	tan	45.4	35.2	56	83	2.0	4.5
Riley	white	49.3	41.5	58	94	3.3	3.5
AAC Almonte	tan	47.9	38.1	60	92	1.5	5.5
AAC Richmond	white	46.3	38.4	64	98	1.0	3.5
AAC Oaklin	white	47.7	42.5	58	86	1.3	3.0
AAC Pontiac	white	46.2	38.2	57	75	1.1	2.0
Kara	white	46.1	38.8	58	82	1.3	1.5
Akina	white	42.9	39.7	57	85	1.4	2.0
Fiona	white	44.4	39.0	58	93	2.8	5.0
AAC Kolosse	white	45.5	39.5	59	91	1.0	4.0
AAC Noranda	white	44.0	36.9	60	86	1.4	4.5
AAC Blake	white	45.4	42.3	60	90	1.4	3.5
Kyron	white	46.2	39.2	59	85	1.1	3.0
Pomona	white	52.5	40.7	59	90	1.3	4.0
Means		46.5	39.4	58	87	1.7	3.4
Locations		3	3	3	3	2	1

Notes:

1. hull colour
2. For ratings 0-9, a high score is undesirable.
3. Days from planting. Heading and Physiological Maturity vary from year to year and should only be used to indicate relative differences.

Table 6b - Ontario Oat Varietal Characteristics Based on Data from Area 3, 2016

Cultivar	Class ¹	Test Weight (kg/hL)	1000 Kernel Weight (g)	Heading ³ (days)	Height (cm)	Lodging (0-9) ²	Crown Rust (0-9) ²	Leaf Septoria (0-9) ²
OAC Markdale	white	53.3	35.7	63	80	1.5	4.0	1.5
RC Amaze	white	55.4	37.6	61	74	0.0	4.9	1.3
Dieter	white	54.2	41.6	64	82	0.3	4.4	2.3
Avatar	yellow	57.5	40.0	63	75	5.0	3.8	1.0
Hidalgo	white	54.0	38.9	64	69	0.3	4.8	1.8
AAC Bullet	white	52.7	40.1	62	72	0.0	1.1	1.8
AAC Roskens	tan	54.0	36.0	63	76	1.5	1.0	2.0
Riley	white	55.8	39.9	63	80	1.8	2.8	1.3
AAC Almonte	tan	55.4	38.7	64	80	0.3	0.1	3.5
CDC Orrin	white	55.2	44.0	64	82	1.8	3.3	1.3
AAC Richmond	white	55.0	41.2	66	86	0.0	1.4	0.8
AAC Oaklin	white	53.8	41.4	62	74	0.0	0.5	1.3
AAC Pontiac	white	53.3	36.8	62	67	0.5	2.8	1.5
Kara	white	54.9	41.4	63	74	0.0	2.3	1.0
Akina	white	52.8	39.7	63	73	0.0	2.3	1.5
AAC Nicolas	white	52.2	37.0	64	80	0.0	2.9	1.5
Fiona	white	53.0	40.1	64	77	2.5	4.0	2.5
AAC Kolosse	white	54.2	37.5	64	79	0.0	1.1	1.3
AAC Noranda	white	52.5	41.6	64	80	1.0	1.3	1.5
AAC Blake	white	51.9	41.1	65	78	0.5	2.4	1.0
Kyron	white	53.7	40.2	64	78	1.0	2.8	1.0
Pomona	white	59.0	39.7	63	79	0.5	0.3	2.0
AAC NORMANDIN	white	54.0	39.1	65	81	0.3	4.1	2.8
Means		54.3	39.5	63	77	0.8	2.5	1.6
Locations		2	2	2	3	1	2	1

Notes:

1. hull colour

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

3. Days from planting. Heading and Physiological Maturity vary from year to year and should only be used to indicate relative differences.

Table 6c - Ontario Oat Varietal Characteristics Based on Data from Area 5, 2016

Cultivar	Class ¹	Test Weight (kg/hL)	1000 Kernel Weight (g)	Heading ³ (days)	Maturity ³ (days)	Height (cm)	Lodging (0-9) ²	Straw Yield Index
OAC Markdale	white	42.6	34.2	60	102	96	1.4	119
Canmore	white	45.2	37.4	64	101	106	0.0	97
RC Amaze	white	44.6	34.6	58	101	87	0.3	91
Synextra	white	47.0	34.3	62	101	109	0.0	91
Dieter	white	45.1	36.3	64	101	102	0.8	107
Oscar	white	44.9	36.7	59	101	88	1.3	105
Hidalgo	white	43.1	31.9	63	101	88	0.0	80
Vitality	white	42.9	37.9	61	102	100	2.3	83
AAC Bullet	white	44.0	35.5	63	101	89	0.0	110
Nice	white	42.6	37.5	63	101	102	0.1	95
Riley	white	45.4	37.9	63	102	99	0.4	84
AAC Almonte	tan	45.0	33.8	64	102	101	0.1	121
Bolina	white	45.7	33.5	65	104	86	0.0	99
AAC Richmond	white	44.4	36.8	67	104	106	0.0	145
AAC Oaklin	white	44.7	37.2	63	103	93	0.0	99
AAC Pontiac	white	43.9	33.8	62	101	82	0.0	99
Kara	white	43.3	37.8	63	101	87	0.0	83
Akina	white	41.3	37.0	61	102	88	1.5	91
AAC Nicolas	white	42.5	31.9	64	101	93	0.0	103
Fiona	white	42.5	32.4	62	101	96	0.0	70
AAC Kolosse	white	43.6	34.5	63	102	97	1.0	111
AAC Noranda	white	42.3	35.4	63	104	98	0.0	109
AAC Blake	white	41.5	34.2	64	103	95	0.0	121
Kyron	white	42.5	36.4	63	101	94	0.0	88
Pomona	white	47.3	36.5	63	104	95	0.0	100
Means		43.9	35.4	63	102	95	0.4	5.91 t/ha
Locations		3	3	3	2	3	2	1



Notes:

1. hull colour

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

3. Days from planting. Heading and Physiological Maturity vary from year to year and should only be used to indicate relative differences.

Table 7a - Ontario Spring Wheat Distributors 2016

Class ¹	Variety	Distributor
hrs	Norwell (awned)	C & M Seeds
	Sable (awned)	C & M Seeds
	Megantic (awned)	Synagri
	HY 124-HRS (awned)	Alliance Agri-Turf/Beatty Seeds/Snobelen Farms
	Touran (awned)	Elite Seeds
	Furano	C & M Seeds
	MAJOR	Synagri
	Fuzion	Semences Prograin Inc
	Wilkin	C & M Seeds
	AAC Scotia (awned) 	Semican Inc
	MAGOG	Semican Inc
	TOPAZE (awned)	Pedigrain
	KLEOS	Synagri
	Easton (awned)	C & M Seeds
AAC Fairwind (awned) 	C & M Seeds	
SS Blomidon	Elite Seeds	
Moka	Semican Inc	
other	Pasteur	SeCan Association
efs	Hoffman (awned)	Elite Seeds
trit	Sonika (awned)	Elite Seeds

Notes:

1. hrs = hard red spring, efs = eastern feed spring, trit=triticale, other = does not meet quality standards for CEHRS.



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

Table 7b - Ontario Barley Distributors 2016

Class¹	Variety	Distributor
2r	AC Kings	Bramhill Seeds
	Bornholm	Alliance Agri-Turf/Beatty Seeds/Snobelen Farms
	Conestogo	SeCan Association
	AAC Purpose	Bramhill Seeds
	Champion	Semican Inc
6r	Cyane	Elite Seeds
	Dignity	SeCan Association
	OCEANIK	Synagri
	OAC Laverne	Bramhill Seeds
	Harmony	Synagri
	Synasolis	Synagri
	Raquel	Pedigrain
	Amberly	Rosebank Seed Farms Ltd.
	Alliance	Advantage Seed Growers
	HY 621-6R	Alliance Agri-Turf/Beatty Seeds/Snobelen Farms
	Alyssa	Elite Seeds
	AAC Mirabel	SeCan Association
	OAC Belwood	SeCan Association
	Boroe	Elite Seeds
	Masky	Synagri
Chambly	Semences Prograin Inc	
AAC Vitality	Alliance Agri-Turf/Beatty Seeds/Snobelen Farms	
DS7176RB	Alliance Agri-Turf/Beatty Seeds/Snobelen Farms	
AAC Montrose	SeCan Association	
DS8126RB	Alliance Agri-Turf/Beatty Seeds/Snobelen Farms	
6r hulless	AAC Azimuth	Pedigrain
	Bastile	Synagri

Notes:

1. 2r = 2 Row, 6r = 6 Row

Table 7c - Ontario Oat Distributors 2016

Class	Variety	Distributor
hulled	OAC Markdale	Rosebank Seed Farms Ltd.
	Canmore	Semican Inc
	RC Amaze	Rosebank Seed Farms Ltd.
	Synextra	Synagri
	Dieter	SeCan Association
	Avatar	Pedigrain
	Oscar	Advantage Seed Growers
	Hidalgo	Synagri
	Vitality	Synagri
	AAC Bullet	SeCan Association
	AAC Roskens	SeCan Association
	Nice	Elite Seeds
	Riley	C & M Seeds
	AAC Almonte	Advantage Seed Growers
	Bolina	Elite Seeds
	CDC Orrin	Semican Inc
	AAC Richmond	Semican Inc
	AAC Oaklin	C & M Seeds
	AAC Pontiac	Semican Inc
	Kara	Elite Seeds
Akina	Elite Seeds	
AAC Nicolas	SeCan Association	
Fiona	Cerela Inc.	
AAC Kolosse	William Houde Ltd	
AAC Noranda	Semican Inc	
AAC Blake	SeCan Association	
Kyron	Elite Seeds	
Pomona	Elite Seeds	
AAC NORMANDIN	William Houde Ltd	

Table 7d - Distributor 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
Alliance Agri-Turf Ltd	7386 9th Line, Thornton, ON, L0L 2N0 Tel: 1-800-971-4870 Fax: 905-857-8215 Website: allianceagri-turf.com
Beatty Seeds Ltd.	289 Country Rd 12, PO Box 358, Bloomfield, ON, K0K 1G0 Tel: 613-393-2333 Fax: 613-393-1038
Bramhill Seeds	5220 Hwy 23, RR#2, Palmerston, ON, N0G 2P0 Tel: 519-343-3630 Fax: 519-343-2037 Website: www.bramhillseeds.com
C&M Seeds	6180 5th Line, Palmerston, ON, N0G 2P0 Tel: 1-888-733-9432 Fax: 519-343-3792 Website: www.redwheat.com
Cerela Inc.	881, 4ième rang, Saint-Hughes, QC, J0H 1N0 Tel: 450-794-2358 Website: www.cerela.ca
Elite Seeds	Available through your local Agromart Tel: 519-282-6701 Website: www.eliteseeds.ca
Pedigrain	5175 Boul. Laurier Est, St Hyacinthe, QC, J2R 2B4 Tel: 819-347-7502 Fax: 450-799-3229
Rosebank Seed Farms Ltd	7340 Perth Line, Staffa, ON, N0K 1Y0 Tel: 1-519-345-2697
SeCan	400-300 Terry Fox Drive, Kanata, ON, K2K 0E3 Tel: 1-866-797-7874 Fax: 613-592-9497 Website: www.secan.com
Semences Prograin	145 Bas Rivière Nord, St Césaire, QC, J0L 1T0 Tel: 1-800-817-3732 Fax: 450-469-4547 Website: www.semencesprograin.com
Semican Inc	366, Rang 10, Plessisville, QC, G6L 2Y2 Tel: 1-866-362-3385 Fax: 819-362-3385 Website: www.semican.ca
Snobelen Farms Ltd.	323 Havelock St, Lucknow, ON, N0G 2H0 Tel: 519-528-2092 Fax: 519-528-3542 Website: snobelengroup.com
Synagri	5175 Boul. Laurier Est, St Hyacinthe, QC, J2R 2B4 Tel: 450-799-3226 Fax: 450-799-3229 Website: www.synagri.ca
William Houde Ltd.	8, 3ieme Rang Ouest, St Simon, QC, J0H 1Y0 Phone: 450-798-2002 Fax: 450-798-2776 Website: www.williamhoude.com