

2016

# Ontario Spring Cereal Performance Trials

Data collected 2011-2015

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**Conducted by the Ontario Cereal Crop Committee**

V2 Current as of December 25, 2015

## 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 2015.

### ADDITIONAL INFORMATION

Additional information is available at [www.gocereals.ca](http://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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# Ontario Spring Cereal Performance Trials

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**Table 1. 2015 Spring Wheat Performance Trial Cumulative Yield Index<sup>1</sup> Summary**


Cultivar	Class <sup>3</sup>	Area II <sup>2</sup>					Area III <sup>2</sup>					Area V <sup>2</sup>				
		5 yr <sup>4</sup>	4 yr	3 yr	2 yr	2015	5 yr <sup>4</sup>	4 yr	3 yr	2 yr	2015	5 yr <sup>4</sup>	4 yr	3 yr	2 yr	2015
Norwell	HRS-a	98	98	97	96	100	98	99	100	104	101	102	101	102	101	102
Sable	HRS-a	101	100	99	98	102	100	100	100	98	96	102	102	104	103	109
Orleans	HRS										99	100	100	101	102	
Megantic	HRS-a						97	98	99	100	105	99	98	98	94	88
HY 124-HRS	HRS-a	103	102	102	102	99	99	96	95	95	97	98	98	98	97	99
Touran	HRS-a															107
Furano	HRS						103	102	106	105	103	101	101	99	91	95
MAJOR	HRS						98	98	101	104	99	100	100	100	102	101
RICHELIEU	HRS-a						94	92	90	92	89					
Fuzion	HRS						97	96	95	96	94			98	99	96
Wilkin	HRS	102	101	100	101	101	99	99	99	102	108	102	102	104	107	104
AAC Scotia 	HRS-a	102	102	102	102	98	110	111	110	113	112	106	104	106	103	94
KINGSEY	HRS-a						99	98	98	100	98	103	101	100	101	97
Carberry	HRS-a	91	89	87	85	88	92	91	89	89	92	91	92	93	94	99
MAGOG	HRS						100	99	97	95	99	100	99	99	101	102
TOPAZE	HRS-a						98	96	96	94	83					
KLEOS	HRS							93	93	90	95		96	96	96	101
SS Blomidon	HRS				103	97				109	109				101	99
Moka	HRS									93	99				101	102
Pasteur	Other					104					100					104
Hoffman	EFS-a		109	110	110	103		112	110	111	112					107
Bangor	EFS-a				98	98					105	100			100	98
Means (t/ha)		4.28	4.34	4.56	4.72	4.86	3.70	3.75	3.55	3.83	4.56	4.18	4.15	4.47	4.55	5.12
Means (bu/ac)		64	65	68	70	72	55	56	53	57	68	62	62	67	68	76
Locations		15	13	10	8	4	14	11	9	6	3	14	10	7	4	2

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, 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 2a - Ontario Spring Wheat Varietal Characteristics Based on Data from Area 2, 2015**


Cultivar	Class <sup>1</sup>	Fusarium Data			Test Weight (kg/hL)	Protein (%)	1000 Kernel			Height (cm)	Heading <sup>4</sup> (days)	Maturity <sup>4</sup> (days)	Mildew (0-9) <sup>3</sup>	Leaf Rust (0-9) <sup>3</sup>	Leaf Septoria (0-9) <sup>3</sup>	Stem Break (0-9) <sup>3</sup>
		Combined Fusarium Rating <sup>2</sup>	DON Rating <sup>2</sup>	Years			Weight (g)	Lodging (0-9) <sup>3</sup>								
Norwell	HRS-a	MS	S	9	78.3	14.8	37.7	2.0	100	49	95	1.0	0.9	3.4	2.0	
Sable	HRS-a	HS	HS	9	77.9	14.6	39.4	0.9	84	51	98	2.5	2.4	3.8	1.0	
HY 124-HRS	HRS-a	HS	HS	9	76.5	14.2	47.6	1.6	90	55	97	0.0	0.3	2.9	1.5	
Wilkin	HRS	S	S	7	75.8	13.3	35.8	1.8	88	52	98	0.0	0.4	3.8	2.4	
AAC Scotia 	HRS-a	MR	MR	7	76.5	14.0	42.8	4.4	119	57	97	0.0	2.1	2.4	2.4	
Carberry	HRS-a	MS	MS	6	77.3	15.4	37.0	0.9	81	48	96	3.5	0.2	5.2	1.8	
SS Blomidon	HRS	S	MS	2	76.7	13.4	41.4	2.8	97	57	97	0.5	3.6	2.4	4.0	
Pasteur	Other	MS	MR	1	76.6	11.9	39.8	2.1	98	58	101	0.0	0.3	2.9	2.8	
Hoffman	EFS-a	S	HS	4	78.3	11.9	49.1	2.0	114	56	97	0.0	1.9	3.2	2.0	
Bangor	EFS-a	MS	MS	2	75.9	12.7	39.7	2.1	115	57	96	0.0	3.9	3.9	2.5	
Means					76.0	13.3	40.8	2.2	100	54	97	0.7	1.7	3.3	2.3	
Locations					4	1	3	4	4	4	2	2	4	4	2	

Notes:

1. HRS = hard red spring, EFS = eastern feed spring, 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.


 = PBR Status; indicates varieties protected under PBR 91. Visit [pbrfacts.ca](http://pbrfacts.ca) to learn more.

**Table 2b - Ontario Spring Wheat Varietal Characteristics Based on Data from Area 3, 2015**

Cultivar	Class <sup>1</sup>	Fusarium Data			Spindle												
		Combined Fusarium Rating <sup>2</sup>	DON Rating <sup>2</sup>	Years	Test Weight (kg/hL)	Protein (%)	1000 Kernel Weight (g)	Streak		Lodging (0-9) <sup>3</sup>	Height (cm)	Heading <sup>4</sup> (days)	Maturity <sup>4</sup> (days)	Leaf Rust (0-9) <sup>3</sup>	Leaf Septoria (0-9) <sup>3</sup>	Septoria Glume Blotch (0-9) <sup>3</sup>	Straw Yield Index
								Virus (0-9) <sup>3</sup>	Mosaic (0-9) <sup>3</sup>								
Norwell	HRS-a	MS	S	9	73.9	13.6	31.8	1	2.6	107	52	114	1.7	3.6	0.5	100	
Sable	HRS-a	HS	HS	9	72.7	14.3	31.1	3	0.0	91	54	118	3.5	4.0	0.5	84	
Megantic	HRS-a	MS	S	9	77.2	14.0	37.3	1	4.0	117	54	108	3.3	3.8	0.0	104	
HY 124-HRS	HRS-a	HS	HS	9	70.0	14.6	35.2	5	0.9	94	56	118	0.9	3.7	1.0	98	
Furano	HRS	MR	MR	8	77.5	14.9	35.3	4	2.9	113	62	118	2.1	2.3	2.5	108	
MAJOR	HRS	MR	MR	8	77.2	14.6	36.2	3	2.4	114	63	116	0.5	1.5	1.5	105	
RICHELIEU	HRS-a	MS	MS	8	72.6	14.0	34.3	2	4.9	119	57	115	4.2	4.4	0.8	93	
Fuzion	HRS	MR	MS	8	73.7	14.1	34.8	2	6.6	121	58	110	3.9	4.2	1.3	104	
Wilkin	HRS	S	S	7	70.5	12.5	29.8	3	0.0	92	55	118	0.8	2.8	1.5	100	
AAC Scotia 	HRS-a	MR	MR	7	74.9	13.1	39.0	1	6.1	125	59	118	3.0	2.7	1.0	96	
KINGSEY	HRS-a	MS	MS	7	75.8	14.1	38.6	1	5.0	122	58	116	4.3	4.1	0.0	111	
Carberry	HRS-a	MS	MS	6	74.2	14.4	31.6	1	0.5	88	51	114	0.6	3.9	1.0	66	
MAGOG	HRS	S	S	6	74.5	14.2	37.4	1	2.3	110	55	108	4.1	4.7	0.5	84	
TOPAZE	HRS-a	MR	MS	5	76.0	15.2	31.7	3	3.5	115	63	115	3.3	2.5	1.3	113	
KLEOS	HRS	MS	MR	4	75.6	14.5	38.0	1	3.4	111	55	109	4.5	4.7	0.5	75	
SS Blomidon	HRS	S	MS	2	74.3	13.8	36.4	2	2.3	96	59	115	4.2	3.3	1.3	108	
Moka	HRS	MS	MS	2	76.4	13.4	37.8	1	4.1	114	54	108	4.3	4.7	0.8	89	
Pasteur	Other	MS	MR	1	74.2	13.5	30.1	3	0.5	101	60	118	0.3	1.8	3.0	118	
Hoffman	EFS-a	S	HS	4	74.5	12.9	39.4	4	4.9	121	57	114	3.6	3.4	1.0	115	
Bangor	EFS-a	MS	MS	2	73.7	13.0	34.4	2	3.5	122	58	118	4.3	4.1	1.0	116	
Means					73.8	13.8	34.8	2	2.9	110	57	115	2.8	3.4	1.0	7.75 t/ha	
Locations					2	1	3	1	2	3	3	1	3	3	1	1	

Notes:

- HRS = hard red spring, EFS = eastern feed spring, Other = does not meet quality standards for CEHRS, -a = awned
- 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)
- For ratings 0-9, a high score is undesirable.
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**Table 2c - Ontario Spring Wheat Varietal Characteristics Based on Data from Area 5, 2015**

Cultivar	Class <sup>1</sup>	Fusarium Data			Test Weight (kg/hL)	Protein (%)	1000 Kernel				Straw Yield Index
		Combined Fusarium Rating <sup>2</sup>	DON Rating <sup>2</sup>	Years			Weight (g)	Height (cm)	Heading <sup>4</sup> (days)	Maturity <sup>4</sup> (days)	
Norwell	HRS-a	MS	S	9	79.1	14.2	45.3	106	62	98	92
Sable	HRS-a	HS	HS	9	78.5	14.3	45.9	91	64	101	106
Orleans	HRS	S	MS	9	78.4	13.2	48.7	112	64	97	86
Megantic	HRS-a	MS	S	9	79.5	13.5	48.3	115	60	98	80
HY 124-HRS	HRS-a	HS	HS	9	77.0	13.9	49.5	89	65	99	114
Touran	HRS-a	MS	S	9	79.3	13.5	51.5	107	61	98	93
Furano	HRS	MR	MR	8	78.7	13.8	46.7	109	69	101	127
MAJOR	HRS	MR	MR	8	79.1	13.5	49.1	111	70	102	131
Fuzion	HRS	MR	MS	8	78.1	13.6	48.9	116	67	98	114
Wilkin	HRS	S	S	7	75.2	13.0	43.5	91	62	98	93
AAC Scotia <sup>91</sup>	HRS-a	MR	MR	7	77.1	12.9	49.2	114	66	98	83
KINGSEY	HRS-a	MS	MS	7	80.1	13.2	52.8	113	64	99	101
Carberry	HRS-a	MS	MS	6	78.5	14.3	44.5	92	61	99	82
MAGOG	HRS	S	S	6	78.4	13.5	49.9	114	62	98	86
KLEOS	HRS	MS	MR	4	77.8	14.5	50.8	112	62	97	97
SS Blomidon	HRS	S	MS	2	76.3	13.7	49.1	101	67	99	96
Moka	HRS	MS	MS	2	79.3	13.5	50.9	112	64	98	85
Pasteur	Other	MS	MR	1	78.3	12.5	45.2	95	68	101	125
Hoffman	EFS-a	S	HS	4	78.0	11.5	51.3	113	64	98	87
Bangor	EFS-a	MS	MS	2	76.8	12.7	48.2	114	67	100	109
Means					77.2	13.4	48.2	106	64	99	6.75 t/ha
Locations					2	2	2	2	1	2	1

Notes:

1. HRS = hard red spring, EFS = eastern feed spring, 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. 2015 Spring Barley Performance Trial Cumulative Yield Index<sup>1</sup> Summary**

Cultivar	Area II <sup>2</sup>					Area III <sup>2</sup>					Area V <sup>2</sup>				
	5 yr <sup>3</sup>	4 yr	3 yr	2 yr	2015	5 yr <sup>3</sup>	4 yr	3 yr	2 yr	2015	5 yr <sup>3</sup>	4 yr	3 yr	2 yr	2015
<b>2 Rowed</b>															
AC Kings	94	94	97	100	101										
Bornholm	102	102	102	101	106	98	97	95	92	100	100	100	102	100	106
Conestogo	97	99	99	98	101	98	98	97	89	96					
AAC Purpose				97	98				94	93				95	95
<b>6 Rowed</b>															
Cyane	107	107	106	107	104	107	108	109	109	109					
Dignity	106	105	104	102	99	99	98	100	102	104					
HY 481-6R	103	103	102	98	99	99	100	99	97	101	105	107	105	107	106
SYNABELLE											103	104	104	103	105
OCEANIK						100	99	99	107	113	104	106	104	108	109
OAC Laverne	103	104	103	102	105	101	101	100	98	101					
Harmony						109	109	113	109	101	96	97	99	103	101
Synasolis											110	112	107	103	99
Raquel						104	106	103	104	105					
Amberly	102	102	101	103	105	100	98	100	104	98					85
Alliance		103	104	101	97			103	103	103		97	99	98	101
HY 621-6R	109	111	109	102	95	107	110	104	99	96	106	108	101	98	101
Alyssa															99
AAC Mirabel					92		103	101	100	96		101	106	103	96
OAC Belwood		103	102	100	104		104	100	99	107					
Boroe														108	105
Pédibelle							98	97	95	87					
Masky								98	108	112			105	106	107
Chambly								110	102	105			102	98	104
AAC Vitality				99	98				106	95				103	96
AAC Montrose					100					91					106
<b>6 Rowed Hulless</b>															
AAC Azimuth										85					
Bastile															87
Means (t/ha)	4.25	4.11	4.26	4.50	3.73	4.29	4.29	4.70	5.86	7.02	4.21	3.96	4.52	4.99	5.93
Means (bu/ac)	79	76	79	84	69	80	80	87	109	131	78	74	84	93	110
Locations	17	15	12	8	4	12	10	7	4	2	15	11	7	4	2

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, 2015**

Cultivar	Class <sup>1</sup>	Test Weight (kg/hL)	1000 Kernel Weight (g)	Height (cm)	Lodging (0-9) <sup>2</sup>	Stem Break (0-9) <sup>2</sup>	Heading <sup>3</sup> (days)	Net Blotch (0-9) <sup>2</sup>	Spot Blotch (0-9) <sup>2</sup>
AC Kings	2R	64.5	47.7	88	2.3	5.9	55	3.8	3.8
Bornholm	2R	66.2	45.8	71	0.0	5.4	53	4.3	3.0
Conestogo	2R	65.5	44.6	79	0.3	6.8	52	4.0	4.8
AAC Purpose	2R	61.9	55.3	90	1.8	6.3	56	3.8	3.0
Cyane	6R	62.8	42.5	93	0.9	6.5	56	3.5	2.1
Dignity	6R	60.5	42.3	86	1.0	5.9	55	3.3	2.3
HY 481-6R	6R	62.1	42.2	79	1.8	4.3	48	3.8	2.0
OAC Laverne	6R	63.1	40.6	88	1.4	5.5	51	2.8	2.8
Amberly	6R	61.0	46.4	95	1.8	6.5	59	2.8	2.8
Alliance	6R	61.3	38.4	81	0.9	5.0	53	3.8	2.1
HY 621-6R	6R	60.9	46.8	81	1.1	2.9	49	3.5	1.6
AAC Mirabel	6R	58.5	43.6	90	1.3	5.5	58	3.3	4.0
OAC Belwood	6R	63.4	45.7	72	1.3	3.9	49	2.8	3.0
AAC Vitality	6R	60.1	43.6	99	1.9	5.3	58	4.0	3.5
AAC Montrose	6R	59.6	45.6	97	0.8	5.5	57	3.8	1.9
Means		62.1	44.7	86	1.2	5.4	54	3.5	2.8
Locations		4	4	3	2	2	3	2	2

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, 2015**

Cultivar	Class <sup>1</sup>	Test	1000	Height (cm)	Lodging (0-9) <sup>2</sup>	Stem	Heading <sup>3</sup> (days)	Maturity <sup>3</sup> (days)	Leaf	Spot	Straw
		Weight (kg/hL)	Kernel Weight (g)			Break (0-9) <sup>2</sup>			Rust (0-9) <sup>2</sup>	Blotch (0-9) <sup>2</sup>	Yield Index
Bornholm	2R	69.4	47.5	78	2.4	6.8	54	90	5.0	2.0	77
Conestogo	2R	68.2	45.4	85	5.0	7.3	53	87	5.0	1.0	95
AAC Purpose	2R	63.7	56.2	95	5.1	7.8	54	91	5.3	0.7	94
Cyane	6R	65.8	47.3	103	2.4	6.8	54	101	3.3	2.3	88
Dignity	6R	64.0	47.0	99	2.3	7.0	53	102	1.7	0.7	108
HY 481-6R	6R	65.0	39.4	87	3.8	7.8	49	93	3.0	2.5	89
OCEANIK	6R	64.4	47.9	105	2.6	8.0	53	94	4.0	1.5	111
OAC Laverne	6R	67.1	44.5	101	3.0	4.0	51	100	3.8	1.8	95
Harmony	6R	64.1	48.7	112	3.8	2.5	55	104	1.5	2.8	96
Raquel	6R	67.9	48.9	102	2.8	6.8	53	96	2.0	1.3	89
Amberly	6R	64.8	49.8	106	2.8	1.5	55	96	4.3	4.0	103
Alliance	6R	65.0	44.2	100	2.4	6.7	52	94	3.3	1.0	79
HY 621-6R	6R	64.3	45.6	90	7.1	5.0	50	93	2.8	2.8	109
AAC Mirabel	6R	60.3	43.8	93	5.6	6.8	55	92	6.0	1.3	127
OAC Belwood	6R	67.5	51.0	88	0.6	5.8	48	93	2.0	1.0	100
Pédibelle	6R	63.9	43.6	99	5.4	3.0	56	104	3.3	1.7	79
Masky	6R	66.8	45.5	98	2.5	6.0	54	104	3.5	2.5	98
Chambly	6R	62.9	46.4	97	3.9	2.8	54	103	4.8	2.8	120
AAC Vitality	6R	61.6	44.9	99	5.4	5.8	55	97	5.8	1.8	155
AAC Montrose	6R	59.5	44.1	104	6.5	5.3	54	103	2.8	1.5	115
AAC Azimuth	6R hulless	74.9	38.9	101	4.3	7.5	52	99	3.0	3.0	74
Means		65.3	46.2	97	3.8	5.7	53	97	3.6	1.9	4.91 t/ha
Locations		2	2	2	2	1	2	2	1	1	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, 2015**

Cultivar	Class <sup>1</sup>	Test Weight (kg/hL)	1000 Kernel Weight (g)	Height (cm)	Lodging (0-9) <sup>3</sup>	Heading <sup>3</sup> (days)	Maturity <sup>3</sup> (days)	Straw Yield Index
Bornholm	2R	69.4	52.6	87	1.3	66	90	103
AAC Purpose	2R	65.1	61.3	100	3.0	65	95	148
HY 481-6R	6R	63.5	47.8	91	3.3	60	92	67
SYNABELLE	6R	64.5	49.4	99	1.1	64	94	71
OCEANIK	6R	63.0	50.0	102	1.3	66	96	112
Harmony	6R	64.1	51.9	109	0.9	65	96	121
Synasolis	6R	62.6	45.7	94	1.3	67	94	102
Amberly	6R	61.1	48.3	102	2.9	60	95	100
Alliance	6R	63.3	48.6	97	0.0	64	96	96
HY 621-6R	6R	64.0	52.7	97	1.9	62	94	70
Alyssa	6R	62.5	47.5	97	4.0	68	96	120
AAC Mirabel	6R	61.5	48.1	98	2.1	66	93	96
Boroe	6R	63.2	49.7	101	0.0	61	93	95
Masky	6R	64.8	47.2	97	1.6	65	96	106
Chambly	6R	63.4	51.5	97	0.4	64	97	89
AAC Vitality	6R	62.3	49.5	102	1.1	66	96	106
AAC Montrose	6R	62.4	51.6	104	1.1	62	96	104
Bastile	6R hullless	73.9	46.2	99	2.5	71	94	95
Means		64.1	49.9	98	1.6	64	95	6.31 t/ha
Locations		2	2	2	2	1	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 5. 2015 Oat Performance Trial Cumulative Yield Index<sup>1</sup> Summary**

Cultivar	Area II <sup>2</sup>					Area III <sup>2</sup>					Area V <sup>2</sup>				
	5 yr <sup>3</sup>	4 yr	3 yr	2 yr	2015	5 yr <sup>3</sup>	4 yr	3 yr	2 yr	2015	5 yr <sup>3</sup>	4 yr	3 yr	2 yr	2015
<b>Hulled</b>															
OAC Markdale			91	90	96			99	99	89					99
Canmore											102	99	98	99	99
RC Amaze	94	90	87	85	90	101	101	98	93	93					107
Synextra						94	93	90	92	87	94	94	93	95	97
Dieter						98	96	93	96	90	105	100	99	95	91
Avatar						98	97	94	99	95					
Oscar		86	84	80	88			99	93	91		102	101	105	102
HY 174-OA	99	96	94	88	89	100	96	93	90	92	101	100	98	95	97
Hidalgo						90	85	80	88	86	106	105	99	98	98
Vitality						101	98	97	93	86	105	102	102	96	97
Bradley	97	94	93	88	86	101	99	98	97	90	97	98	96	94	98
CANTAL											101	98	97	101	96
AAC Bullet	116	118	122	124	109	110	111	113	108	113	103	103	102	104	103
AAC Roskens		105	104	102	100		109	113	109	107					
Nice												107	105	99	99
Riley		96	93	86	94		103	105	100	98		99	94	93	100
AAC Almonte			112	116	111			107	107	101			97	97	89
Bolina													106	110	112
CDC Orrin								100	103	99					
AAC Richmond					103					106					97
AAC Oaklin			113	115	107			116	109	112			102	101	99
AAC Pontiac				109	104				104	102				101	96
Kara				116	107				108	104				114	108
Akina				117	102				112	111				114	105
AAC Nicolas					101					116				115	109
Means (t/ha)	3.56	3.60	3.39	3.36	3.24	3.87	4.12	4.00	4.08	4.02	4.11	3.93	4.17	4.52	5.20
Means (bu/ac)	93	95	89	88	85	102	108	105	107	106	108	103	109	119	136
Locations	15	12	10	7	4	10	8	6	4	2	14	10	7	4	2

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 6a - Ontario Oat Varietal Characteristics Based on Data from Area 2, 2015**

Cultivar	Class <sup>1</sup>	Test Weight (kg/hL)	1000 Kernel Weight (g)	Heading <sup>3</sup> (days)	Height (cm)	Lodging (0-9) <sup>2</sup>	Crown Rust (0-9) <sup>2</sup>	Leaf Septoria (0-9) <sup>2</sup>	Stem Break (0-9) <sup>2</sup>
OAC Markdale	white	53.7	34.0	53	113	3.7	2.2	4.3	8.9
RC Amaze	white	52.4	35.2	50	104	5.4	3.1	4.3	9.0
Oscar	white	53.3	35.1	51	104	4.8	3.8	4.8	8.6
HY 174-OA	white	52.6	37.6	51	118	4.7	2.8	3.9	7.8
Bradley	white	51.1	37.8	53	114	3.8	1.4	3.5	8.5
AAC Bullet	white	54.6	41.3	55	111	3.2	0.2	2.9	8.6
AAC Roskens	tan	53.3	35.0	53	114	5.7	0.7	4.9	9.0
Riley	white	51.3	34.5	55	122	6.3	2.9	3.8	9.0
AAC Almonte	tan	54.0	40.2	60	118	5.3	0.2	4.0	8.4
AAC Richmond	white	54.7	39.3	63	130	4.3	0.3	3.1	8.1
AAC Oaklin	white	55.9	40.8	56	117	4.3	0.2	3.6	8.9
AAC Pontiac	white	54.5	34.6	58	108	3.7	0.3	2.8	8.8
Kara	white	55.7	39.4	57	107	2.7	0.4	2.8	7.8
Akina	white	52.7	38.5	55	105	3.8	1.2	2.9	7.8
AAC Nicolas	white	52.9	36.0	61	119	5.3	0.3	3.8	8.6
Means		53.5	37.3	55	113	4.5	1.3	3.7	8.5
Locations		3	4	2	3	3	3	2	2

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, 2015**

Cultivar	Class <sup>1</sup>	Test				Crown Rust (0-9) <sup>2</sup>
		Weight (kg/hL)	1000 Kernel Weight (g)	Heading <sup>3</sup> (days)	Height (cm)	
OAC Markdale	white	56.5	33.8	56	103	5.0
RC Amaze	white	55.3	34.1	53	95	6.5
Synextra	white	57.4	33.3	57	117	6.6
Dieter	white	54.7	33.1	59	112	6.3
Avatar	yellow	58.6	32.6	57	100	6.5
Oscar	white	56.1	32.0	53	92	5.9
HY 174-OA	white	55.3	35.5	56	110	6.0
Hidalgo	white	53.2	28.8	60	98	6.8
Vitality	white	54.7	34.7	55	104	5.5
Bradley	white	53.3	34.2	58	105	6.0
AAC Bullet	white	58.5	39.2	57	98	1.0
AAC Roskens	tan	58.5	33.8	55	97	2.9
Riley	white	56.4	34.3	57	111	5.5
AAC Almonte	tan	59.4	34.8	60	108	0.0
CDC Orrin	white	55.2	33.0	59	106	5.6
AAC Richmond	white	56.3	35.2	66	116	2.6
AAC Oaklin	white	58.6	36.9	57	103	0.0
AAC Pontiac	white	57.5	33.7	61	97	1.0
Kara	white	56.3	35.6	59	93	3.8
Akina	white	55.4	35.5	56	98	4.3
AAC Nicolas	white	56.4	34.2	61	100	2.6
Means		56.3	34.2	58	103	4.3
Locations		2	2	1	2	2

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, 2015**

Cultivar	Class <sup>1</sup>	Test	1000	Heading <sup>3</sup> (days)	Maturity <sup>3</sup> (days)	Height (cm)	Lodging (0-9) <sup>2</sup>	Stem	Straw
		Weight (kg/hL)	Kernel Weight (g)					Break (0-9) <sup>2</sup>	Yield Index
OAC Markdale	white	45.1	44.4	68	96	112	3.1	8.0	110
Canmore	white	46.4	49.3	71	98	114	3.1	8.0	133
RC Amaze	white	45.8	41.3	67	93	102	3.9	8.0	86
Synextra	white	48.5	45.1	71	98	118	3.5	4.0	92
Dieter	white	45.7	46.7	71	98	117	4.5	8.0	121
Oscar	white	46.4	48.9	69	93	101	3.0	6.5	84
HY 174-OA	white	44.8	46.9	67	96	109	3.1	8.0	100
Hidalgo	white	43.2	41.9	70	96	99	3.6	8.0	99
Vitality	white	42.6	53.3	70	98	108	3.6	8.0	97
Bradley	white	44.4	44.5	71	97	107	2.0	4.3	112
CANTAL	white	49.1	46.5	69	96	126	4.1	8.0	128
AAC Bullet	white	46.3	46.6	72	97	101	2.9	6.3	95
Nice	white	45.5	48.4	70	100	111	4.6	7.0	95
Riley	white	46.9	51.5	68	98	111	4.0	8.0	79
AAC Almonte	tan	45.7	43.1	71	96	108	3.5	8.0	105
Bolina	white	47.1	43.7	70	101	98	4.0	7.0	90
AAC Richmond	white	45.8	44.4	74	101	117	3.0	4.0	123
AAC Oaklin	white	45.5	49.5	72	96	104	3.3	8.0	95
AAC Pontiac	white	45.0	43.6	73	96	91	2.8	6.0	82
Kara	white	45.4	51.6	72	97	100	3.5	6.0	90
Akina	white	42.4	51.6	70	96	103	2.8	7.8	85
AAC Nicolas	white	42.9	46.0	74	98	106	2.9	8.0	100
Means		45.5	46.8	70	97	107	3.4	7.0	5.73 t/ha
Locations		2	2	1	2	2	2	1	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 2015**

<b>Class<sup>1</sup></b>	<b>Variety</b>	<b>Distributor</b>
hrs	Norwell (awned)	C & M Seeds
	Sable (awned)	C & M Seeds
	Orleans	SeCan Association
	Megantic (awned)	Synagri
	HY 124-HRS (awned)	Dow Seeds
	Touran (awned)	Elite Seeds
	Furano	C & M Seeds
	MAJOR	Synagri
	RICHELIEU (awned)	Pedigrain
	Fuzion	Semences Prograin Inc
	Wilkin	C & M Seeds
	AAC Scotia (awned)	Semican Inc
	KINGSEY (awned)	Semican Inc
	Carberry (awned)	SeCan Association
	MAGOG	Semican Inc
	TOPAZE (awned)	Pedigrain
efs	KLEOS	Synagri
	SS Blomidon	Elite Seeds
	Moka	Semican Inc
	Pasteur	SeCan Association
	Hoffman (awned)	Elite Seeds
	Bangor (awned)	Semican Inc

Notes:

1. hrs = hard red spring, efs = eastern feed spring.



**Table 7b - Ontario Barley Distributors 2015**

<b>Class<sup>1</sup></b>	<b>Variety</b>	<b>Distributor</b>
2r	AC Kings	Bramhill Seeds
	Bornholm	Dow Seeds
	Conestogo	SeCan Association
	AAC Purpose	Bramhill Seeds
6r	Cyane	Elite Seeds
	Dignity	SeCan Association
	HY 481-6R	Dow Seeds
	SYNABELLE	Synagri
	OCEANIK	Synagri
	OAC Laverne	Bramhill Seeds
	Harmony	Synagri
	Synasolis	Synagri
	Raquel	Pedigrain
	Amberly	Rosebank Seed Farms Ltd.
	Alliance	Advantage Seed Growers
	HY 621-6R	Dow Seeds
	Alyssa	Elite Seeds
	AAC Mirabel	SeCan Association
	OAC Belwood	SeCan Association
	Boroe	Elite Seeds
Pédibelle	Pedigrain	
Masky	Synagri	
Chambly	Semences Prograin Inc	
AAC Vitality	AAFC (Barley Group)	
AAC Montrose	SeCan Association	
6r hullless	AAC Azimuth	Pedigrain
	Bastile	Synagri

Notes:

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

**Table 7c - Ontario Oat Distributors 2015**

<b>Class</b>	<b>Variety</b>	<b>Distributor</b>
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
	HY 174-OA	Dow Seeds
	Hidalgo	Synagri
	Vitality	Synagri
	Bradley	SeCan Association
	CANTAL	Semican Inc
	AAC Bullet	SeCan Association
	AAC Roskens	SeCan Association
	Nice	Elite Seeds
	Riley	C & M Seeds
	AAC Almonte	SeCan Association
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	

**Table 7d - Distributor Contact Information**

Distributor	Address
AAFC	ECORC, 960 Carling Ave, Ottawa, ON, K1A 0C6 Tel: 613-759-1307
Advantage Seed Growers	P.O. Box 351, Lucknow, ON, N0G 2H0 Tel: 519-440-6406 Fax: 519-812-1010 Internet: <a href="http://www.advantageseeds.com">www.advantageseeds.com</a>
Bramhill Seeds	5220 Hwy 23, RR#2, Palmerston, ON, N0G 2P0 Tel: 519-343-3630 Fax: 519-343-2037 Internet: <a href="http://www.bramhillseeds.com">www.bramhillseeds.com</a>
C&M Seeds	6180 5th Line, Palmerston, ON, N0G 2P0 Tel: 1-888-733-9432 Fax: 519-343-3792 Internet: <a href="http://www.redwheat.com">www.redwheat.com</a>
Dow Seeds	P.O. Box 1090, 5 Hyland Drive Blenheim, ON, NOP 1A0 Tel: 519-676-8146 Fax: 519-676-6800 Internet: <a href="http://www.hylandseeds.com">www.hylandseeds.com</a>
Elite Seeds	Available through your local Agromart Tel: 519-282-6701 Internet: <a href="http://www.eliteseeds.ca">www.eliteseeds.ca</a>
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 Internet: <a href="http://www.secan.com">www.secan.com</a>
Semences Prograin	145 Bas Rivière Nord, St Césaire, QC, J0L 1T0 Tel: 1-800-817-3732 Fax: 450-469-4547 Internet: <a href="http://www.semencesprograin.com">www.semencesprograin.com</a>
Semican Inc	366, Rang 10, Plessisville, QC, G6L 2Y2 Tel: 1-866-362-3385 Fax: 819-362-3385 Internet: <a href="http://www.semican.ca">www.semican.ca</a>
Synagri	5175 Boul. Laurier Est, St Hyacinthe, QC, J2R 2B4 Tel: 450-799-3226 Fax: 450-799-3229 Internet: <a href="http://www.synagri.ca">www.synagri.ca</a>