

2024

Ontario Spring Cereal Performance Trials

Data collected 2020-2024

www.gocrops.ca



Conducted by the Ontario Cereal Crop Committee
Current as of November 2024

General Information:

Cereal Performance Trials are conducted annually by the Ontario Cereal Crops Committee (OCCC). For more information about the OCCC, go to the [GoCrops](#) website under “About”.

Spring wheat and barley trials are conducted at 8 locations, barley and oat trials at 7 locations. A map showing the testing area and trial locations for each crop can be found on [GoCrops](#) under “Performance Trial Results”. Each trial consists of three replications and is managed according to the recommendations of the Ontario Ministry of Agriculture, Food and Agribusiness. Detailed information about the practices used and explanations of the terms can be found on [GoCrops](#) under “Performance Trial Results > Procedures: OCCC Trial Methods & Testing Procedures”. Trials are inspected by representatives of the OCCC after heading to ensure that they meet OCCC standards.

“Fungicide Applied” trials for spring cereals refers to trials that receive one or two applications of a foliar fungicide for the control of leaf diseases and/or Fusarium Head Blight. Fungicide treatments for spring wheat include a T1 (GS 30-31) and T3 (GS 60-65) application. Fungicide treatment for oats includes one T2 (GS 39) application. Fungicide treatment for barley may include one T3 application at head emergence (GS59). **The OCCC thanks the Grain Farmers of Ontario, BASF, Bayer and Syngenta for their financial support towards the intensive trials.**

The Yield Index reflects the performance of the variety relative to the average of the trials. Yield Indices are “Heritability Adjusted Relative Values” (HARV), which favour results from trial locations with high repeatability from rep to rep. For more information, see: [Yan, W. Use of HARV in Variety Trial Summaries](#). Index values differing by less than 3 within a column may not represent true differences in yield. Variety yield rankings may vary from year to year. Decisions are therefore best made using data with the greatest number of years.

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

Not all traits are expressed in any given year or area. For traits not reported in a table, see other area trait tables for that crop or previous years’ performance trial reports. Head-to-Head comparisons on [GoCrops](#) website give multi-year data for all trait characteristics.

Plant Breeders’ Rights Status;   indicates varieties protected under PBR 91 or PBR78. Visit [PBR Facts](#) to learn more.

Abbreviations:

- Days = days from planting
- Fusarium Ratings: “Combined Fusarium Ratings” for spring wheat 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. Ratings are, MR=moderately resistant (best); MS=moderately susceptible; S=susceptible; HS=highly susceptible (worst)
- Other Ratings: For ratings 0 - 9, a high score is undesirable. Disease ratings are taken from naturally occurring infection.
- Spring Wheat Classes: hrs = eastern hard red spring; efs = eastern feed; eow = Canada Eastern Other Wheat; a = awned
- Barley: 2R = 2 rowed, 6R = 6 rowed, 6Rhulless = 6 rowed hulless

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Table 1. Spring Wheat Cumulative Yield Index¹ Summary

Cultivar	Class	Area 2					Area 3					Area 5				
		5 yr ²	4 yr	3 yr	2 yr	2024	5 yr ²	4 yr	3 yr	2 yr	2024	5 yr ²	4 yr	3 yr	2 yr	2024
Furano	HRS						98	98	102	106	105	95	92	91	90	86
MAJOR	HRS						101	101	102	104	100	100	97	98	100	96
Fuzion	HRS						96	95	95	92	79	99	100	100	100	100
Wilkin 	HRS	103	102	105	98	98	98	98	99	95	96	92	95	94	92	85
Raven 	HRS-a	112	112	111	109	100	103	102	102	101	98	111	111	114	116	120
Ventry	HRS-a	103	103	104	101	111	100	99	102	98	101					
AAC Synox 	HRS-a						101	101	100	95	94	97	99	101	100	104
Agora	HRS						101	100	100	102	100	99	101	103	101	100
Starlite 	HRS							102	103	102	105		95	94	95	96
Arvida 	HRS							104	103	101	103		103	100	100	96
Audika	HRS									93	90				98	102
Kerson 	EFS-a										115					119
Means (t/ha)		4.34	4.55	4.77	3.84	3.16	3.96	4.01	4.13	4.14	4.10	4.24	4.28	4.41	4.25	3.50
Means (bu/ac)		64.5	67.7	70.9	57.0	47.0	58.8	59.6	61.4	61.6	60.9	63.0	63.6	65.5	63.3	52.1
Locations		14	11	8	5	2	11	10	7	4	2	9	7	5	4	2

¹ Values differing by less than 3 within a column may not represent true differences in yield.

² 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 or pbr78. Visit pbrfacts.ca to learn more.

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Table 1a - Spring Wheat Cumulative Yield Index¹ Area 2 Fungicide Applied

Class	Variety	5-Year Index Fungicides		4-Year Index Fungicides		3-Year Index Fungicides		2-Year Index Fungicides		2024 Index Fungicides	
		No	Yes	No	Yes	No	Yes	No	Yes	No	Yes
hrs	Wilkin 	103 ²	108	101	107	105	111	97	107	97	117
	Raven (awned) 	108	111	108	111	108	111	102	108	82	98
	Ventry (awned)	97	101	97	101	98	101	93	101	100	119
Means (t/ha)		4.33	4.55	4.58	4.82	4.73	4.96	4.64	5.13	5.21	6.41
Means (bu/ac)		64.4	67.6	68.1	71.7	70.3	73.8	69.0	76.2	77.5	95.4
Location-Years		9		7		5		3		1	

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Table 1b - Spring Wheat Varietal Characteristics¹ Area 2

Cultivar	Class	**Fusarium Data			1000							Straw Yield Index
		Combined Fusarium Rating ²	DON Rating ²	Years	Test Weight (kg/hL)	Protein (%)	Kernel Weight (g)	Lodging (0-9) ³	Heading (days)	Mildew (0-9) ³	Stripe Rust (0-9) ³	
Wilkin 	HRS	HS	S	6	67.7	12.4	31.6	0.0	57	1.0	0.0	95
Raven 	HRS-a	MS	S	6	69.3	13.5	31.3	5.3	59	3.0	0.0	112
Ventry	HRS-a	MS	MR	6	72.1	14.0	32.7	1.3	55	0.0	0.0	93
Means					69.7	13.3	31.8	2.2	57	1.3	0.0	6.12 t/ha
Locations					2.0	1.0	2.0	1.0	2	1.0	1.0	1

¹See Head to Head comparisons on GoCrops.ca website for multi-year data for trait characteristics.

² MR=moderately resistant (best); MS=moderately susceptible; S=susceptible; HS=highly susceptible (worst)

** These columns will be updated when the 2024 data are available.

³ For ratings 0-9, a high score is undesirable. Disease ratings are taken from naturally occurring infection.



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Table 1c - Spring Wheat Cumulative Yield Index¹ Area 3 Fungicide Applied

Class	Variety	5-Year Index Fungicides		4-Year Index Fungicides		3-Year Index Fungicides		2-Year Index Fungicides		2024 Index Fungicides	
		No	Yes	No	Yes	No	Yes	No	Yes	No	Yes
hrs	Furano	103 ²	110	104	112	107	113	106	111	102	112
	MAJOR	99	103	100	105	102	105	104	107	97	106
	Fuzion	91	95	89	93	87	91	85	89	74	82
	Wilkin 	94	102	93	103	94	104	92	101	90	111
	Raven (awned) 	98	102	97	101	95	101	96	100	89	98
	Ventry (awned)	95	99	93	98	93	100	91	99	90	106
	AAC Synox (awned) 	97	102	96	101	97	101	93	97	85	90
	Agora	98	104	95	103	95	103	100	108	95	113
	Starlite 			95	100	95	100	97	102	100	113
	Arvida 			102	110	103	113	101	110	101	119
	Audika							95	100	90	102
efs	Kerson (awned) 									113	118
Means (t/ha)		4.66	4.99	4.98	5.37	4.77	5.13	4.81	5.08	4.52	5.13
Means (bu/ac)		69.2	74.2	74.0	79.9	70.9	76.3	71.5	75.6	67.2	76.3
Location-Years		5		4		3		2		1	

¹ Values differing by less than 3 within a column may not represent true differences in yield.

² Cultivar yield rankings may vary from year to year. Decisions are therefore best made using data with the greatest number of years.



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Table 1d - Spring Wheat Varietal Characteristics¹ Area 3

Cultivar	Class	**Fusarium Data			1000									Straw Yield Index
		Combined Fusarium Rating ²	DON Rating ²	Years	Test Weight (kg/hL)	Protein (%)	Kernel Weight (g)	Lodging (0-9) ³	Height (cm)	Heading (days)	Maturity (days)	Leaf Rust (0-9) ³	Leaf Septoria (0-9) ³	
Furano	HRS	MS	MS	6	75.7	13.5	34.2	0.5	110	53	88	1.3	3.8	111
MAJOR	HRS	MR	MS	6	74.5	13.5	33.9	1.2	108	54	88	0.0	3.2	118
Fuzion	HRS	MS	MS	6	68.5	14.5	28.5	7.8	112	53	85	0.0	6.3	85
Wilkin 	HRS	HS	S	6	71.6	13.5	27.9	0.0	89	47	87	2.0	5.3	103
Raven 	HRS-a	MS	S	6	73.7	13.1	31.0	2.0	103	51	87	3.0	5.8	114
Ventry	HRS-a	MS	MR	6	74.6	14.7	33.9	0.8	104	45	84	1.7	5.5	89
AAC Synox 	HRS-a	MR	MR	6	76.8	14.9	30.8	4.3	102	49	84	1.0	6.7	95
Agora	HRS	MS	S	4	74.9	14.5	31.8	0.0	101	48	87	1.0	5.8	88
Starlite 	HRS	HS	HS	3	75.5	14.3	34.9	0.8	108	48	83	1.0	4.3	97
Arvida 	HRS	MR	MR	2	76.1	12.9	33.0	0.7	109	47	81	2.0	4.5	96
Audika	HRS	MR	MS	1	76.6	14.4	31.1	4.3	105	52	87	1.3	4.8	100
Kerson 	EFS-a	--	--	--	74.9	12.5	36.6	4.7	109	51	88	1.3	3.5	103
Means					74.7	13.8	32.5	2.0	105	50	86	1.4	4.9	4.65 t/ha
Locations					2.0	2.0	2.0	2.0	2	2	1	1.0	2.0	1

¹See Head to Head comparisons on GoCrops.ca website for multi-year data for trait characteristics.

² MR=moderately resistant (best); MS=moderately susceptible; S=susceptible; HS=highly susceptible (worst)

** These columns will be updated when the 2024 data are available.

³ For ratings 0-9, a high score is undesirable. Disease ratings are taken from naturally occurring infection.



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Table 1e - Spring Wheat Cumulative Yield Index¹ Area 5 Fungicide Applied

Class	Variety	5-Year Index Fungicides		4-Year Index Fungicides		3-Year Index Fungicides		2-Year Index Fungicides		2024 Index Fungicides	
		No	Yes	No	Yes	No	Yes	No	Yes	No	Yes
hrs	Furano	91 ²	104	88	103	91	103	91	105	93	104
	MAJOR	96	100	92	97	93	96	97	95	86	81
	Fuzion	90	96	89	96	90	94	87	87	84	83
	Wilkin 	94	101	98	106	100	107	102	106	102	103
	Raven (awned) 	108	111	109	113	115	117	120	122	123	124
	AAC Synox (awned) 	96	98	98	101	99	102	99	103	103	106
	Agora	94	101	96	105	98	108	95	106	94	112
	Starlite 			90	96	86	93	87	92	86	86
	Arvida 			100	107	97	103	97	99	93	96
	Audika							101	99	105	104
efs	Kerson (awned) 									122	127
Means (t/ha)		4.90	5.23	5.18	5.61	5.45	5.83	5.66	5.90	5.19	5.41
Means (bu/ac)		72.8	77.8	77.0	83.4	81.0	86.7	84.2	87.8	77.2	80.5
Location-Years		5		4		3		2		1	

¹ Values differing by less than 3 within a column may not represent true differences in yield.

² Cultivar yield rankings may vary from year to year. Decisions are therefore best made using data with the greatest number of years.

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Table 1f - Spring Wheat Varietal Characteristics¹ Area 5

Cultivar	Class	**Fusarium Data			1000						
		Combined Fusarium Rating ²	DON Rating ²	Years	Test Weight (kg/hL)	Protein (%)	Kernel Weight (g)	Height (cm)	Heading (days)	Maturity (days)	Straw Yield Index
Furano	HRS	MS	MS	6	59.6	13.5	27.2	103	80	95	107
MAJOR	HRS	MR	MS	6	70.4	13.7	29.4	102	80	96	102
Fuzion	HRS	MS	MS	6	70.8	13.7	30.0	105	82	93	96
Wilkin 	HRS	HS	S	6	57.9	13.8	28.5	80	63	92	94
Raven 	HRS-a	MS	S	6	72.9	13.3	33.2	95	75	94	102
AAC Synox 	HRS-a	MR	MR	6	77.8	14.5	29.1	94	74	92	91
Agora	HRS	MS	S	4	75.3	14.5	30.4	96	73	93	102
Starlite 	HRS	HS	HS	3	75.8	14.1	32.5	94	73	91	96
Arvida 	HRS	MR	MR	2	61.9	12.7	29.5	105	78	90	89
Audika	HRS	MR	MS	1	74.0	14.2	27.8	104	78	94	102
Kerson 	EFS-a	--	--	--	72.5	12.7	31.6	102	78	95	120
Means					68.7	13.7	29.6	98	76	93	5.05 t/ha
Locations					2.0	2.0	2.0	2	2	2	1

¹See Head to Head comparisons on GoCrops.ca website for multi-year data for trait characteristics.

² MR=moderately resistant (best); MS=moderately susceptible; S=susceptible; HS=highly susceptible (worst)

** These columns will be updated when the 2024 data are available.

³ For ratings 0-9, a high score is undesirable. Disease ratings are taken from naturally occurring infection.



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Table 2. Spring Barley Cumulative Yield Index¹ Summary

Cultivar	Area 2					Area 3					Area 5				
	5 yr ²	4 yr	3 yr	2 yr	2024	5 yr ²	4 yr	3 yr	2 yr	2024	5 yr ²	4 yr	3 yr	2 yr	2024
2 Rowed															
Bornholm	100	99	98	99	102	95	95	96	91	96	99	98	97	97	92
AAC Synergy 	100	101	100	101	103	93	92	91	88	85	99	97	98	97	91
Esma 	103	103	104	101	105	95	93	93	88	82	105	102	102	98	103
6 Rowed															
Dignity	101	100	99	97	97	99	98	99	99	104					
OCEANIK						101	100	99	98	96	101	102	102	101	97
Nordbec														81	81
Amberly	101	100	100	99	94	105	105	104	104	102	106	107	107	107	111
Chambly						106	107	107	105	105	105	106	106	108	102
AAC Vitality 	99	99	98	97	89	106	104	103	103	96	105	103	103	100	97
AAC Montrose 											95	98	98	95	93
Baden	105	103	102	102	105	108	107	107	110	116	106	107	108	109	109
DS8126RB	109	109	108	105	105	112	112	110	109	108	104	105	106	103	106
Rafale	102	102	101	101	105	101	104	104	100	99	101	101	101	102	99
Ariber 			102	101	97	105	106	105	106	95	108	107	105	104	107
Massy 	100	99	98	98	94	102	103	100	97	98			102	104	99
AAC Cranbrook 		104	102	100	103		107	109	108	100		109	109	109	112
Tsunami		102	102	101	101		104	107	106	107		100	99	100	100
6 Rowed Hulless															
AAC Malcolm 		97	97	100	100		91	93	95	96					
Means (t/ha)	5.02	5.30	5.69	5.23	5.06	5.03	5.23	5.49	5.02	5.93	6.36	6.94	6.97	6.92	7.80
Means (bu/ac)	93.3	98.5	105.8	97.2	94.1	93.4	97.3	102.1	93.3	110.2	118.2	129.0	129.6	128.7	145.0
Locations	14	11	8	5	2	9	8	6	3	1	7	5	4	3	1

¹ Values differing by less than 3 within a column may not represent true differences in yield.

² Cultivar yield ranking may vary from year to year. Decisions are therefore best made using data with the greatest number of years



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Table 2a - Spring Barley Varietal Characteristics¹ Area 2

Cultivar	Class	1000					Net Blotch (0-9) ²	Spot Blotch (0-9) ²	Straw Yield Index
		Test Weight (kg/hL)	Kernel Weight (g)	Height (cm)	Lodging (0-9) ²	Heading (days)			
Bornholm	2R	63.3	45.1	78	0.0	58	0.0	4.5	97
AAC Synergy 	2R	56.8	45.3	76	0.3	59	4.0	0.5	101
Esma 	2R	52.7	47.2	68	0.2	58	0.0	0.0	106
Dignity	6R	56.6	44.4	87	0.2	57	0.0	0.0	83
Amberly	6R	56.8	42.3	95	1.2	59	3.0	0.5	105
AAC Vitality 	6R	49.4	37.1	91	4.3	60	0.0	3.0	98
Baden	6R	58.4	39.1	78	0.0	56	0.0	0.5	100
DS8126RB	6R	55.3	41.0	84	1.3	58	7.0	0.0	100
Rafale	6R	59.6	43.1	95	1.8	57	0.5	0.0	96
Ariber 	6R	52.3	39.0	88	1.2	58	0.0	0.0	96
Massy 	6R	55.6	40.1	97	1.3	59	0.0	1.0	105
AAC Cranbrook 	6R	55.5	40.9	90	0.8	57	0.0	0.5	108
Tsunami	6R	55.9	43.5	91	0.0	59	4.0	1.0	110
AAC Malcolm  6R hulless		56.9	40.0	90	1.8	56	5.5	0.5	94
Means		56.1	42.0	86	1.0	58	1.7	0.9	3.99 t/ha
Locations		2.0	2.0	2	2.0	2	1.0	1.0	1

¹See Head to Head comparisons on GoCrops.ca website for multi-year data for trait characteristics.

² For ratings 0-9, a high score is undesirable. Disease ratings are taken from naturally occurring infection.

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Table 2b - Spring Barley Varietal Characteristics¹ Area 3

Cultivar	Class	1000						Net Blotch (0-9) ²	Straw Yield Index
		Test Weight (kg/hL)	Kernel Weight (g)	Height (cm)	Lodging (0-9) ²	Heading (days)	Maturity (days)		
Bornholm	2R	62.3	37.4	73	2.3	49	77	8.0	55
AAC Synergy 	2R	52.5	29.7	85	8.0	57	77	7.3	67
Esma 	2R	52.3	29.6	77	8.0	49	77	8.0	37
Dignity	6R	53.9	34.8	95	1.0	53	83	6.3	107
OCEANIK	6R	51.9	30.8	85	3.7	54	80	7.3	102
Amberly	6R	53.2	36.3	97	2.0	56	87	4.3	137
Chambly	6R	52.2	32.7	88	3.7	55	85	6.3	128
AAC Vitality 	6R	51.4	34.1	93	7.3	55	86	6.0	114
Baden	6R	53.6	29.8	85	6.0	48	80	8.0	76
DS8126RB	6R	53.8	35.8	93	5.0	51	83	6.7	59
Rafale	6R	55.8	32.8	93	4.3	54	84	5.3	186
Ariber 	6R	51.9	33.8	97	7.7	55	83	6.3	100
Massy 	6R	54.6	33.3	98	2.3	52	82	6.3	117
AAC Cranbrook 	6R	52.5	33.5	93	5.0	56	84	5.3	108
Tsunami	6R	52.9	35.7	92	3.0	56	85	4.7	117
AAC Malcolm 	6R hulless	49.1	28.6	82	6.0	48	82	6.7	91
Means		53.4	33.1	89	4.7	53	82	6.4	4.10 t/ha
Locations		1.0	1.0	1	1.0	1	1	1.0	1

¹See Head to Head comparisons on GoCrops.ca website for multi-year data for trait characteristics.

² For ratings 0-9, a high score is undesirable. Disease ratings are taken from naturally occurring infection.



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Table 2c - Spring Barley Varietal Characteristics¹ Area 5

Cultivar	Class	1000						Straw Yield Index
		Test Weight (kg/hL)	Kernel Weight (g)	Height (cm)	Lodging (0-9) ²	Heading (days)	Maturity (days)	
Bornholm	2R	66.4	46.9	72	0.0	59	80	91
AAC Synergy 	2R	61.6	45.3	76	0.0	59	81	126
Esma 	2R	61.7	50.5	66	0.0	61	80	104
OCEANIK	6R	57.0	40.7	85	3.0	55	81	100
Nordbec	6R	56.8	36.4	71	0.0	50	73	56
Amberly	6R	61.6	49.1	90	0.3	56	86	113
Chambly	6R	59.1	46.5	83	1.3	56	84	109
AAC Vitality 	6R	56.1	42.9	88	3.3	54	85	108
AAC Montrose 	6R	56.5	44.5	89	3.3	54	83	115
Baden	6R	61.4	39.6	69	0.0	53	80	87
DS8126RB	6R	60.0	42.3	82	2.7	53	82	95
Rafale	6R	61.3	41.6	86	3.0	54	81	89
Ariber 	6R	58.2	44.0	80	3.3	56	83	89
Massy 	6R	60.7	44.9	93	1.0	55	83	124
AAC Cranbrook 	6R	61.3	46.3	83	0.3	55	84	90
Tsunami	6R	59.7	43.0	85	0.0	55	83	103
Means		60.0	44.0	81	1.4	56	82	3.75 t/ha
Locations		1.0	1.0	1	1.0	1	1	1

¹See Head to Head comparisons on GoCrops.ca website for multi-year data for trait characteristics.

² For ratings 0-9, a high score is undesirable. Disease ratings are taken from naturally occurring infection.



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Ontario Cereal Crop Performance Trials 2024

Table 3. Oat Cumulative Yield Index¹ Summary

Cultivar	Area 2					Area 3					Area 5				
	5 yr ²	4 yr	3 yr	2 yr	2024	5 yr ²	4 yr	3 yr	2 yr	2024	5 yr ²	4 yr	3 yr	2 yr	2024
Hulled															
RC Amaze	101	99	102	102	118	98	99	103	101	107					
Avatar						83	81	76	83	67					
AAC Bullet	92	89	91	87	84	89	89	88	89	86				97	98
AAC Richmond											100	98	95	93	86
AAC Oaklin	86	82	84	81	78	84	83	82	82	79	95	94	96	95	96
AAC Nicolas 											102	101	99	97	98
Kalio 											104	106	107	108	108
AAC Chandler 											102	100	100	99	98
AAC Reid 	117	113	109	104	101	118	120	123	117	127					
AAC Zip 									91	82				110	109
Alise						92	91	87	88	80	100	100	100	102	103
AAC Captain 		113	107	106	93		118	119	114	120					
AAC Wallace 										93					97
AAC Loki 												102	101	100	101
Nika 												105	106	105	106
Mistral												101	103	101	100
AAC Basil 			112	110	112			118	118	125			104	103	100
AAC Wight 													104	104	106
Shaka 														101	103
Annie				115	128				120	137				100	98
Trinity				91	86				104	108				104	105
AAC Marquis 														96	92
Means (t/ha)	4.2	4.45	4.75	4.30	3.41	3.92	3.96	3.86	3.91	3.45	5.40	5.53	5.85	5.61	4.98
Means (bu/ac)	110.3	116.8	124.8	113.0	89.5	103.0	104.1	101.2	102.5	90.5	141.6	145.0	153.6	147.3	130.8
Locations	14	11	8	5	2	9	8	6	4	2	9	7	5	4	2

¹ Values differing by less than 3 within a column may not represent true differences in yield.

² 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 16 years, with some varieties being significantly impacted.



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**Table 3a - Ontario Performance Trial; Oat 2024 - Cumulative Yield Index¹
Summary for Area 2 & 3 Combined, OCCC, August 2024**

Hull Colour	Variety	5 Year	4 Year	3 Year	2 Year	2024
white	RC Amaze	100 ²	99	102	102	112
	AAC Bullet	91	89	90	88	85
	AAC Oaklin	85	82	83	81	78
	AAC Reid 	117	116	115	110	114
	AAC Captain 		115	112	110	106
	AAC Basil 			114	113	118
	Annie				118	133
	Trinity				97	97
Means (t/ha)		4.07	4.19	4.28	4.08	3.43
Means (bu/ac)		106.8	110.1	112.3	107.0	90.1
Location-Years		23	19	14	9	4

¹ Values differing by less than 3 within a column may not represent true differences in yield.

² 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 pbr78s. Visit pbrfacts.ca to learn more.

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Ontario Cereal Crop Performance Trials 2024

Table 3b - Oat Cumulative Yield Index¹ Area 2 and 3 Fungicide Applied

Hull Colour	Variety	5-Year Index Fungicides		4-Year Index Fungicides		3-Year Index Fungicides		2-Year Index Fungicides		2024 Index Fungicides	
		No	Yes	No	Yes	No	Yes	No	Yes	No	Yes
white	RC Amaze	91 ²	116	87	115	90	119	89	115	92	135
	AAC Bullet	85	108	80	107	80	108	78	103	66	112
	AAC Oaklin	78	104	73	103	73	105	72	101	58	111
	AAC Reid 	108	117	106	117	105	120	104	115	110	128
	AAC Captain 			105	118	103	118	103	117	100	127
	AAC Basil 					101	127	103	125	103	143
	Annie							112	128	126	150
	Trinity							88	110	80	117
Means (t/ha)		4.33	5.23	4.60	5.74	4.67	5.92	4.77	5.82	3.56	5.15
Means (bu/ac)		113.8	137.4	120.8	150.5	122.6	155.5	125.2	152.8	93.5	135.1
Location-Years		14		11		8		5		2	

¹ Values differing by less than 3 within a column may not represent true differences in yield.

² 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 pbr78s. Visit pbrfacts.ca to learn more.

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Ontario Cereal Crop Performance Trials 2024

Table 3c - Oat Cumulative Yield Index¹ Area 2 Fungicide Applied

Hull Colour	Variety	5-Year Index Fungicides		4-Year Index Fungicides		3-Year Index Fungicides		2-Year Index Fungicides		2024 Index Fungicides	
		No	Yes	No	Yes	No	Yes	No	Yes	No	Yes
white	RC Amaze	92 ²	113	87	109	89	110	83	107	80	119
	AAC Bullet	88	111	82	108	83	108	78	104	67	120
	AAC Oaklin	82	105	75	103	76	104	73	101	59	114
	AAC Reid 	106	114	101	112	98	113	94	110	88	113
	AAC Captain 			101	115	98	113	98	114	80	119
	AAC Basil 					98	118	95	118	85	128
	Annie							102	119	104	129
	Trinity							83	113	67	127
Means (t/ha)		4.42	5.32	4.78	5.89	5.13	6.35	5.00	6.29	4.42	6.83
Means (bu/ac)		116.0	139.6	125.4	154.5	134.6	166.7	131.3	165.0	115.9	179.2
Location-Years		9		7		5		3		1	

¹ Values differing by less than 3 within a column may not represent true differences in yield.

² 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 pbr78s. Visit pbrfacts.ca to learn more.

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Ontario Cereal Crop Committee Performance Trials 2024

Table 3d - Oat Cumulative Lodging Score¹ Area 2 Fungicide Applied

Hull Colour	Variety	5-Year Lodging Score Fungicides		4-Year Lodging Score Fungicides		3-Year Lodging Score Fungicides		2-Year Lodging Score Fungicides		2024 Lodging Score Fungicides	
		No	Yes	No	Yes	No	Yes	No	Yes	No	Yes
white	RC Amaze	3.5 ²	0.7	2.6	0.2	3.8	0.3	4.7	0.3	9.0	0.7
	AAC Bullet	4.4	1.1	4.0	0.8	4.8	1.1	4.5	0.3	9.0	0.7
	AAC Oaklin	5.7	1.0	5.3	0.7	5.6	1.1	4.5	0.0	9.0	0.0
	AAC Reid 	2.2	1.3	1.7	1.0	2.3	1.5	0.5	0.3	1.0	0.0
	AAC Captain 			1.1	0.3	1.1	0.4	0.7	0.0	1.3	0.0
	AAC Basil 					2.9	0.7	4.3	0.0	8.7	0.0
	Annie							4.2	0.2	7.3	0.0
	Trinity							4.5	0.7	9.0	0.0
Means		3.9	1.9	3.1	1.2	3.9	1.5	3.3	0.2	6.8	0.2
Location-Years		7		6		4		2		1	

¹ Lodging scores range from 0 to 9. A high score is undesirable.

² Cultivar lodging 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 pbr78s. Visit pbrfacts.ca to learn more.

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Ontario Cereal Crop Performance Trials 2024

Table 3e - Oat Varietal Characteristics¹ Area 2

Cultivar	Hull Colour	Test Weight (kg/hL)	1000 Kernel Weight (g)	Heading (days)	Height (cm)	Lodging (0-9) ²	Crown Rust (0-9) ²	Straw Yield Index
RC Amaze	white	33.1	24.2	55	106	6.0	6.8	98
AAC Bullet	white	31.4	25.2	58	113	8.2	7.2	93
AAC Oaklin	white	29.9	24.3	60	115	7.8	7.0	76
AAC Reid 	white	34.3	26.4	63	128	4.2	6.0	126
AAC Captain 	white	32.7	21.8	64	120	4.5	6.2	107
AAC Basil 	white	28.9	24.1	58	116	6.8	6.2	92
Annie	white	34.5	24.6	60	126	7.7	4.8	116
Trinity	white	27.8	20.4	62	120	5.5	7.3	93
Means		31.6	23.9	60	118	6.3	6.4	4.60 t/ha
Locations		2.0	2.0	2	1	2.0	2.0	1

¹See Head to Head comparisons on GoCrops.ca website for multi-year data for trait characteristics.

² For ratings 0-9, a high score is undesirable. Disease ratings are taken from naturally occurring infection.



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Ontario Cereal Crop Performance Trials 2024

Table 3f - Oat Cumulative Yield Index¹ Area 3 Fungicide Applied

Hull Colour	Variety	5-Year Index Fungicides		4-Year Index Fungicides		3-Year Index Fungicides		2-Year Index Fungicides		2024 Index Fungicides	
		No	Yes	No	Yes	No	Yes	No	Yes	No	Yes
white	RC Amaze	89 ²	120	87	126	92	133	97	126	103	150
	Avatar	72	95	64	93	55	87	63	87	36	66
	AAC Bullet	79	103	77	106	74	108	77	102	66	103
	AAC Oaklin	73	101	70	104	68	107	71	102	58	108
	AAC Reid 	113	122	115	127	117	131	119	124	131	143
	AAC Zip 							72	95	53	80
	Alise	79	100	73	101	64	96	67	89	47	79
	AAC Captain 			112	125	112	128	111	121	120	136
	AAC Wallace 									65	89
	AAC Basil 					106	140	114	136	122	159
	Annie							127	142	147	171
	Trinity							95	105	93	106
Means (t/ha)		4.23	5.13	4.40	5.56	4.16	5.44	4.55	5.39	3.04	4.11
Means (bu/ac)		111.1	134.6	115.5	146.0	109.2	142.9	119.5	141.5	79.7	108.0
Location-Years		5		4		3		2		1	

¹ Values differing by less than 3 within a column may not represent true differences in yield.

² 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 pbr78s. Visit pbrfacts.ca to learn more.

Ontario Cereal Crop Committee Performance Trials 2024

Table 3g - Oat Cumulative Lodging Score¹ Area 3 Fungicide Applied

Hull Colour	Variety	5-Year Lodging Score Fungicides		4-Year Lodging Score Fungicides		3-Year Lodging Score Fungicides		2-Year Lodging Score Fungicides		2024 Lodging Score Fungicides	
		No	Yes	No	Yes	No	Yes	No	Yes	No	Yes
white	RC Amaze	4.5 ²	2.1	5.3	2.2	6.4	0.6	5.2	0.2	8.0	0.3
	Avatar	6.4	4.2	6.8	4.8	8.6	6.1	8.3	4.7	8.7	8.0
	AAC Bullet	4.3	3.1	4.8	3.5	5.8	3.6	4.3	3.3	8.0	6.7
	AAC Oaklin	5.1	2.7	5.1	2.6	6.8	3.4	5.7	2.5	8.0	5.0
	AAC Reid 	2.1	1.5	1.9	1.4	2.6	1.7	1.8	2.3	3.7	4.7
	AAC Zip 							4.7	3.8	8.0	7.7
	Alise	2.9	1.9	2.8	2.1	3.7	2.8	1.0	2.7	2.0	5.3
	AAC Captain 			3.4	2.1	4.2	2.7	3.8	3.0	7.0	6.0
	AAC Wallace 									8.0	8.0
	AAC Basil 					5.3	0.8	4.0	1.0	7.7	2.0
	Annie							2.7	1.7	5.3	3.3
	Trinity							5.2	4.3	8.0	7.7
Means		3.9	2.4	4.2	2.5	5.3	3.0	4.0	2.6	6.9	5.4
Location-Years		5		4		3		2		1	

¹ Lodging scores range from 0 to 9. A high score is undesirable.

² Cultivar lodging 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 pbr78s. Visit pbrfacts.ca to learn more.

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Ontario Cereal Crop Performance Trials 2024

Table 3h - Oat Varietal Characteristics¹ Area 3

Cultivar	Hull Colour	Test Weight (kg/hL)	1000 Kernel Weight (g)	Heading (days)	Maturity (days)	Height (cm)	Lodging (0-9) ²	Crown Rust (0-9) ²	Straw Yield Index
RC Amaze	white	41.3	26.6	48	77	88	8.0	7.5	85
Avatar	white	40.6	23.2	54	78	93	8.7	8.8	64
AAC Bullet	white	39.1	27.6	52	78	90	8.0	8.3	85
AAC Oaklin	white	41.2	27.5	53	78	95	8.0	8.3	65
AAC Reid 	white	40.0	29.6	55	82	103	3.7	5.2	136
AAC Zip 	white	39.3	22.0	59	79	87	8.0	8.0	86
Alise	white	36.5	24.5	57	80	101	2.0	8.7	101
AAC Captain 	white	45.3	26.8	57	84	95	7.0	2.8	153
AAC Wallace 	white	36.9	24.4	61	78	98	8.0	7.2	105
AAC Basil 	white	40.1	27.3	52	81	92	7.7	4.0	98
Annie	white	44.9	31.3	54	84	103	5.3	4.5	138
Trinity	white	38.6	26.7	56	78	93	8.0	6.5	85
Means		40.3	26.5	55	80	95	6.9	6.7	4.91 t/ha
Locations		2.0	2.0	2	1	2	1.0	2.0	1

¹See Head to Head comparisons on GoCrops.ca website for multi-year data for trait characteristics.

² For ratings 0-9, a high score is undesirable. Disease ratings are taken from naturally occurring infection.



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Ontario Cereal Crop Performance Trials 2024

Table 3i - Oat Cumulative Yield Index¹ Area 5 Fungicide Applied

Hull Colour	Variety	5-Year Index Fungicides		4-Year Index Fungicides		3-Year Index Fungicides		2-Year Index Fungicides		2024 Index Fungicides	
		No	Yes	No	Yes	No	Yes	No	Yes	No	Yes
white	AAC Bullet							99 ²	100	101	102
	AAC Richmond	103	101	103	101	102	99	100	98	100	98
	AAC Oaklin	94	96	95	96	98	97	97	96	102	99
	AAC Nicolas 	103	105	103	103	100	101	97	98	100	94
	Kalio 	102	105	103	104	102	102	102	106	99	103
	AAC Chandler 	102	104	101	103	102	104	100	100	97	96
	AAC Zip 							100	105	95	102
	Alise	97	100	97	102	98	100	100	103	98	99
	AAC Wallace 									101	103
	AAC Loki 			101	105	101	103	96	101	98	99
	Nika 			103	105	103	106	99	104	99	108
	Mistral			100	97	102	100	97	99	98	101
	AAC Basil 					103	104	98	105	98	105
	AAC Wight 					99	103	98	106	95	105
	Shaka 							98	101	99	100
	Annie							100	102	100	100
	Trinity							101	106	97	103
	AAC Marquis 							98	104	97	102
Means (t/ha)		6.27	6.52	6.66	6.89	7.07	7.30	7.05	7.48	6.83	7.28
Means (bu/ac)		164.6	171.1	174.9	180.8	185.6	191.5	185.1	196.4	179.2	191.0
Location-Years		5		4		3		2		1	

¹ Values differing by less than 3 within a column may not represent true differences in yield.

² 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 pbr78s. Visit pbrfacts.ca to learn more.

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Ontario Cereal Crop Committee Performance Trials 2024

Table 3j - Oat Cumulative Lodging Score¹ Area 5 Fungicide Applied

Hull Colour	Variety	5-Year Lodging Score Fungicides		4-Year Lodging Score Fungicides		3-Year Lodging Score Fungicides		2-Year Lodging Score Fungicides		2024 Lodging Score Fungicides	
		No	Yes	No	Yes	No	Yes	No	Yes	No	Yes
white	AAC Bullet							2.5 ²	3.0	0.0	0.7
	AAC Richmond	3.5	2.7	3.8	3.1	4.1	3.3	5.7	5.0	5.7	4.3
	AAC Oaklin	1.6	1.9	1.9	2.0	1.4	1.6	2.2	2.3	0.3	0.3
	AAC Nicolas 	1.2	1.3	1.4	1.3	1.1	1.2	1.7	1.8	0.0	0.0
	Kalio 	2.7	2.6	2.3	2.6	2.0	1.8	2.8	2.7	0.0	0.0
	AAC Chandler 	2.2	2.0	2.4	2.3	2.2	2.1	3.3	3.2	0.0	0.0
	AAC Zip 							2.7	2.8	0.0	0.0
	Alise	1.4	1.4	1.5	1.8	1.6	2.0	2.3	3.0	0.3	0.3
	AAC Wallace 									1.0	2.3
	AAC Loki 			1.1	1.0	1.1	1.0	1.7	1.5	0.0	0.0
	Nika 			1.9	1.3	2.0	1.4	2.7	2.2	0.3	0.0
	Mistral			2.3	2.3	2.1	2.3	3.2	3.5	0.3	1.7
	AAC Basil 					1.6	1.7	2.3	2.5	0.0	0.0
	AAC Wight 					1.9	1.7	2.7	2.5	0.0	0.0
	Shaka 							2.2	1.5	0.0	0.0
	Annie							3.2	2.7	0.7	0.3
	Trinity							3.0	2.3	0.0	0.0
	AAC Marquis 							3.0	2.5	0.0	0.3
Means		2.1	2.0	2.2	2.1	2.2	2.0	2.9	2.8	0.4	0.5
Location-Years		5		4		3		2		1	

¹ Lodging scores range from 0 to 9. A high score is undesirable.

² Cultivar lodging 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 pbr78s. Visit pbrfacts.ca to learn more.

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Ontario Cereal Crop Performance Trials 2024

Table 3k - Oat Varietal Characteristics¹ Area 5

Cultivar	Hull Colour	Test Weight (kg/hL)	1000 Kernel Weight (g)	Heading (days)	Maturity (days)	Height (cm)	Lodging (0-9) ²	Barley Yellow Dwarf Virus (0-9) ²	Leaf Septoria (0-9) ²	Straw Yield Index
AAC Bullet	white	46.3	31.0	58	91	101	0.8	0.7	2.3	96
AAC Richmond	white	43.3	28.3	64	97	114	5.0	0.7	2.7	102
AAC Oaklin	white	44.8	29.9	58	89	99	2.8	1.0	3.3	86
AAC Nicolas 	white	45.4	28.5	60	92	108	1.8	1.0	4.0	115
Kalio 	white	45.8	29.8	56	88	103	1.5	2.3	3.3	90
AAC Chandler 	white	42.9	26.8	61	92	96	3.3	1.0	4.3	83
AAC Zip 	white	44.7	29.5	62	92	98	0.3	1.3	3.3	105
Alise	white	42.6	28.9	61	94	116	2.2	1.3	2.7	103
AAC Wallace 	white	44.2	28.2	64	95	106	2.8	1.7	2.3	113
AAC Loki 	white	44.7	28.3	59	91	104	1.7	1.3	3.3	104
Nika 	white	45.1	29.5	61	92	110	0.7	1.3	4.3	90
Mistral	white	45.2	29.3	54	90	101	1.8	1.0	4.0	106
AAC Basil 	white	42.0	26.0	56	91	98	2.2	0.7	4.0	88
AAC Wight 	white	43.9	29.3	61	93	107	0.7	0.7	3.3	104
Shaka 	white	45.9	27.3	59	92	110	1.7	1.3	4.0	104
Annie	white	44.6	28.2	58	91	113	1.7	1.0	3.3	110
Trinity	white	44.9	29.1	60	92	103	1.8	1.7	2.7	102
AAC Marquis 	white	41.9	28.4	61	93	108	2.0	1.3	3.7	97
Means		44.3	28.7	59	92	105	1.9	1.2	3.4	4.35 t/ha
Locations		2.0	2.0	2	2	2	2.0	1.0	1.0	1

¹See Head to Head comparisons on GoCrops.ca website for multi-year data for trait characteristics.

² For ratings 0-9, a high score is undesirable. Disease ratings are taken from naturally occurring infection.



PBR Status; indicates varieties protected under PBR 91 or pbr78. Visit pbrfacts.ca to learn more.

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Ontario Cereal Crop Performance Trials 2024

Table 4a - Spring Wheat Distributors

Class ¹	Variety	Distributor
hrs	Furano	C&M Seeds
	MAJOR	Synagri
	Fuzion	Semences Prograin Inc
	Wilkin 	C&M Seeds
	Raven (awned) 	C&M Seeds
	Ventry (awned)	SeCan Association
	AAC Synox (awned) 	Synagri
	Agora	Semican Inc
	Starlite 	Snobelen Farms/Marc Bercier Seed Cleaning
	Arvida 	Semican Inc
	Audika	Synagri
efs	Kerson (awned) 	Maizex

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



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Ontario Cereal Crop Performance Trials 2024

Table 4b - Spring Barley Distributors

Class ¹	Variety	Distributor
2r	Bornholm	Alliance Agri-Turf/Beatty Seeds/Snobelen Farms
	AAC Synergy 	Semican Inc
	Esma 	SeCan Association
6r	Dignity	SeCan Association
	OCEANIK	Synagri
	Nordbec	Labonte Seed Ltd.
	Amberly	Rosebank Seed Farms Ltd.
	Chambly	Semences Prograin Inc
	AAC Vitality 	Advantage Seed Growers
	AAC Montrose 	Labonte Seed Ltd.
	Baden	SeCan Association
	DS8126RB	Alliance Agri-Turf/Beatty Seeds/Snobelen Farms
	Rafale	Semican Inc
	Ariber 	Marc Bercier Seed Cleaning
	Massy 	Snobelen Farms
	AAC Cranbrook 	SeCan Association
	Tsunami	Semican Inc
6r hulless	AAC Malcolm 	SeCan Association

¹ 2r = 2 Row, 6r = 6 Row, 6R hulless = 6 Row hulless



PBR Status; indicates varieties protected under PBR 91 or pbr78s. Visit pbrfacts.ca to learn more.

Ontario Cereal Crop Performance Trials 2024

Table 4c - Oat Distributors

Class	Variety	Distributor
hulled	RC Amaze	Rosebank Seed Farms Ltd.
	Avatar	Pedigrain
	AAC Bullet	SeCan Association
	AAC Richmond	Semican Inc
	AAC Oaklin	C&M Seeds
	AAC Nicolas 	SeCan Association
	Kalio 	Maizex
	AAC Chandler 	Labonte Seed Ltd.
	AAC Reid 	Alliance Agri-Turf
	AAC Zip 	Semican Inc
	Alise	Marc Bercier Seed Cleaning
	AAC Captain 	SeCan Association
	AAC Wallace 	Semican Inc
	AAC Loki 	Synagri
	Nika 	Maizex
	Mistral	Synagri
	AAC Basil 	SeCan Association
	AAC Wight 	SeCan Association
	Shaka 	Maizex
	Annie	C&M Seeds
	Trinity	C&M Seeds
	AAC Marquis 	SeCan Association



PBR Status; indicates varieties protected under PBR 91 or pbr78s. Visit pbrfacts.ca to learn more.

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Table 4d - Distributor Contact Information

Distributor	Address
Advantage Seed Growers	c/o Midnight Acres 600 River Rd, Lindsay, ON, K9V 4R4 Tel: 705-878-8200
Alliance Agri-Turf	7386 9th Line, RR3 Thornton, Ontario, L0L 2N0 Tel: 1-800-971-4870 Fax: 905-857-8215 Website: www.allianceagri-turf.com
Beatty Seeds Ltd	289 County Road 12, PO Box 358, Bloomfield, Ontario, K0K 1G0 Tel: 1-613-393-2333 Fax: 1-613-393-1038 Website: www.beattyseeds.com
C&M Seeds	6180 5th Line, Palmerston, ON, N0G 2P0 Tel: 1-888-733-9432 Fax: 519-343-3792 Website: www.redwheat.com
Labonte Seeds	Box 130, New Liskeard, ON, P0J 1P0 Tel: 1-705-647-3129
Maizex Seeds Inc	4488 Mint Line, Tilbury, ON, N0P 2L0 Tel: 1-877-682-1720 Website: www.maizex.com
Marc Bercier Cleaning Inc	251 Caledonia Rd, Saint Isidore, ON, K0C 2B0 Tel: 1-613-524-2981 Website: www.marcbercier.com
Pedigrain	5175 Boul. Laurier Est, St Hyacinthe, QC, J2R 2B4 Tel: 819-347-7502 Fax: 450-799-3229 Website: www.pedigrain.ca
Rosebank Seed Farms Ltd	7340 Perth Line, Staffa, ON, N0K 1Y0 Tel: 1-519-345-2697 www.rosebankseeds.ca
SeCan Association	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 Street, Lucknow, Ontario, N0G 2H0 Tel: 1-519-528-2092 Fax: 1-519-528-3542 Website: www.snobelengrain.com
Synagri	5175 Boul. Laurier Est, St Hyacinthe, QC, J2R 2B4 Tel: 450-799-3226 Fax: 450-799-3229 Website: www.synagri.ca