

2022

Ontario Spring Cereal Performance Trials

Data collected in 2021

www.gocereals.ca



Conducted by the Ontario Cereal Crop Committee
Current as of March 1, 2022 v2

General Information:

Cereal Performance Trials are conducted annually by the Ontario Cereal Crops Committee (OCCC). For more information about the OCCC, go to the GoCereals.ca website under “About Us”.



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

“Intensive” 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 includes 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 GoCereals.ca website give multi-year data for all trait characteristics.

Plant Breeders’ Rights Status;   indicates varieties protected under PBR 91 or PBR78. Visit www.pbrfacts.ca 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 = hard red spring; efs = eastern feed spring; eow = (Canada Eastern Other Wheat) = does not meet quality standards for hrs; a = awned
- Barley: 2R = 2 Rowed, 6R = 6 Rowed

For more information contact:

Ellen Sparry, Trial Coordinator
C&M Seeds
Office# 519-343-3126
Email: esparry@redwheat.com

2022








Ontario Spring Cereal Performance Trials

Conducted by the Ontario Cereal Crop Committee ♦ www.gocereals.ca

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Table 1. 2021 Spring Wheat Performance Trial Cumulative Yield Index¹ Summary

| Cultivar | Class | Area 2 | | | | | Area 3 | | | | | Area 5 | | | | |
|--|-------|-------------------|------|------|------|------|-------------------|------|------|------|------|-------------------|------|------|------|------|
| | | 5 yr ² | 4 yr | 3 yr | 2 yr | 2021 | 5 yr ² | 4 yr | 3 yr | 2 yr | 2021 | 5 yr ² | 4 yr | 3 yr | 2 yr | 2021 |
| Furano | HRS | | | | | | 97 | 96 | 94 | 91 | 88 | 100 | 100 | 101 | 100 | 94 |
| MAJOR | HRS | | | | | | 100 | 100 | 100 | 99 | 100 | 99 | 103 | 105 | 103 | 96 |
| Fuzion | HRS | | | | | | 96 | 95 | 96 | 97 | 96 | 98 | 100 | 99 | 99 | 99 |
| Wilkin  | HRS | 108 | 105 | 105 | 102 | 94 | 101 | 101 | 99 | 97 | 97 | 98 | 92 | 91 | 91 | 97 |
| AAC Scotia  | HRS-a | 96 | 97 | 97 | 98 | 105 | 104 | 102 | 101 | 104 | 106 | 111 | 111 | 111 | 114 | 110 |
| TOPAZE | HRS-a | | | | | | | | | | 96 | | | | | |
| Raven  | HRS-a | 117 | 112 | 113 | 112 | 114 | 108 | 107 | 108 | 104 | 103 | 107 | 106 | 107 | 106 | 102 |
| Ventry | HRS-a | 105 | 104 | 104 | 102 | 101 | 100 | 100 | 100 | 97 | 94 | | | | | |
| AAC Synox  | HRS-a | | | | | | | 100 | 100 | 102 | 102 | | 91 | 89 | 91 | 95 |
| Memphre | HRS-a | | | | | | | | | 98 | 98 | | | | | |
| Maida  | HRS-a | | | | | | | | | 102 | 101 | | | | 112 | 105 |
| Agora | HRS | | | | 94 | 91 | | | | 103 | 101 | | | | 94 | 96 |
| AAC Harlaka | HRS-a | | | | 97 | 101 | | | | 98 | 97 | | | | 89 | 95 |
| Starlite  | HRS | | | | | 96 | | | | | 100 | | | | | 100 |
| Dagon  | EFS-a | | | | | | 106 | 104 | 104 | 101 | 102 | 101 | 104 | 106 | 109 | 101 |
| Means (t/ha) | | 3.96 | 4.31 | 4.33 | 3.94 | 4.18 | 3.51 | 3.66 | 3.96 | 3.68 | 3.76 | 3.92 | 4.01 | 4.18 | 4.05 | 3.96 |
| Means (bu/ac) | | 59 | 64 | 64 | 59 | 62 | 52 | 55 | 59 | 55 | 56 | 58 | 60 | 62 | 60 | 59 |
| Locations | | 12 | 10 | 9 | 6 | 3 | 13 | 10 | 7 | 4 | 3 | 13 | 10 | 7 | 4 | 2 |





Notes:

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 PBR 78. Visit pbrfacts.ca to learn more.

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Table 1a - Ontario Performance Trial; Spring Wheat 2021 Cumulative Yield Index¹
Intensive Trials
Summary for Area 2, OCCC, October 2021

| Class | Variety | 4-Year Index Fungicides | | 3-Year Index Fungicides | | 2-Year Index Fungicides | | 2021 Index Fungicides | |
|----------------|--|-------------------------|------|-------------------------|------|-------------------------|------|-----------------------|------|
| | | No | Yes | No | Yes | No | Yes | No | Yes |
| hrs | Wilkin  | 104 ² | 114 | 102 | 107 | 100 | 104 | 91 | 95 |
| | AAC Scotia (awned)  | 89 | 95 | 93 | 96 | 94 | 96 | 101 | 105 |
| | Raven (awned)  | 115 | 120 | 112 | 113 | 109 | 110 | 110 | 112 |
| | Ventry (awned) | 98 | 105 | 98 | 102 | 97 | 101 | 95 | 100 |
| | Agora | | | | | 92 | 99 | 90 | 101 |
| | AAC Harlaka (awned) | | | | | 94 | 95 | 97 | 96 |
| | Starlite  | | | | | | | 97 | 101 |
| Means (t/ha) | | 3.78 | 4.21 | 4.26 | 4.55 | 3.97 | 4.18 | 4.32 | 4.59 |
| Means (bu/ac) | | 56 | 63 | 63 | 68 | 59 | 62 | 64 | 68 |
| Location-Years | | 8 | | 6 | | 4 | | 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.



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Table 1b - Ontario Spring Wheat Varietal Characteristics¹ Based on Data from Area 2, 2021

| 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) | Mildew (0-9) ³ | | Leaf Septoria (0-9) ³ | Stripe Rust (0-9) ³ |
| Wilkin  | HRS | HS | S | 6 | 72.5 | 14.3 | 33.4 | 0.0 | 80 | 64 | 0.6 | 5.3 | 0.0 | 110 |
| AAC Scotia  | HRS-a | MR | MS | 6 | 73.6 | 14.4 | 41.4 | 3.3 | 104 | 68 | 0.1 | 4.2 | 2.0 | 88 |
| Raven  | HRS-a | MS | S | 6 | 76.0 | 14.1 | 42.1 | 0.0 | 90 | 65 | 0.5 | 3.1 | 0.0 | 113 |
| Ventry | HRS-a | MS | MR | 6 | 75.6 | 15.6 | 43.3 | 0.0 | 95 | 63 | 0.0 | 4.8 | 0.0 | 110 |
| Agora | HRS | S | HS | 2 | 76.2 | 15.5 | 38.5 | 0.0 | 94 | 65 | 5.1 | 4.8 | 0.0 | 83 |
| AAC Harlaka | HRS-a | MS | MS | 2 | 76.0 | 15.9 | 42.7 | 0.0 | 92 | 64 | 1.9 | 5.8 | 0.0 | 97 |
| Starlite  | HRS | HS | HS | 1 | 76.5 | 15.2 | 41.8 | 0.0 | 95 | 64 | 5.7 | 4.3 | 0.0 | 98 |
| Means | | | | | 75.2 | 15.0 | 40.4 | 0.5 | 93 | 65 | 2.0 | 4.6 | 0.3 | 4.83 t/ha |
| Locations | | | | | 3 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 1 | 1 |








Notes:

1. See Head to Head comparisons on GoCereals.ca website for multi-year data for trait characteristics.
2. MR=moderately resistant (best); MS=moderately susceptible; S=susceptible; HS=highly susceptible (worst)
3. For ratings 0-9, a high score is undesirable.

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

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**Table 1c - Ontario Performance Trial; Spring Wheat 2021 Cumulative Yield Index¹ Intensive Trials
Summary for Area 3, OCCC, October 2021**

| Class | Variety | 5-Year Index Fungicides | | 4-Year Index Fungicides | | 3-Year Index Fungicides | | 2-Year Index Fungicides | | 2021 Index Fungicides | |
|----------------|--|-------------------------|------|-------------------------|------|-------------------------|------|-------------------------|------|-----------------------|------|
| | | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes |
| hrs | Furano | 98 ² | 105 | 100 | 105 | 100 | 104 | 98 | 104 | 98 | 108 |
| | MAJOR | 94 | 102 | 95 | 101 | 98 | 102 | 94 | 100 | 95 | 103 |
| | Fuzion | 92 | 99 | 94 | 98 | 96 | 99 | 98 | 101 | 96 | 101 |
| | Wilkin  | 94 | 103 | 98 | 102 | 95 | 100 | 94 | 100 | 92 | 99 |
| | AAC Scotia (awned)  | 100 | 106 | 98 | 104 | 98 | 104 | 96 | 104 | 97 | 108 |
| | TOPAZE (awned) | | | | | | | | | 93 | 99 |
| | Raven (awned)  | 105 | 110 | 105 | 107 | 105 | 105 | 103 | 103 | 103 | 101 |
| | Ventry (awned) | 94 | 100 | 96 | 99 | 94 | 97 | 98 | 99 | 92 | 95 |
| | AAC Synox (awned)  | | | 98 | 102 | 99 | 102 | 98 | 103 | 95 | 102 |
| | Memphre (awned) | | | | | | | 98 | 100 | 99 | 104 |
| | Maida (awned)  | | | | | | | 104 | 108 | 102 | 113 |
| | Agora | | | | | | | 102 | 105 | 97 | 103 |
| | AAC Harlaka (awned) | | | | | | | 97 | 98 | 95 | 100 |
| | Starlite  | | | | | | | | | 94 | 100 |
| efs | Dagon (awned)  | 99 | 106 | 99 | 105 | 100 | 105 | 99 | 104 | 100 | 107 |
| Means (t/ha) | | 4.52 | 4.97 | 4.94 | 5.22 | 4.98 | 5.25 | 4.50 | 4.80 | 5.52 | 6.01 |
| Means (bu/ac) | | 67 | 74 | 74 | 78 | 74 | 78 | 67 | 71 | 82 | 89 |
| 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 - Ontario Spring Wheat Varietal Characteristics¹ Based on Data from Area 3, 2021

| Cultivar | Class | ** Fusarium Data | | | 1000 | | | | | | | | Leaf Rust (0-9) ³ | Leaf Septoria (0-9) ³ | 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) | Mildew (0-9) ³ | | | |
| Furano | HRS | MS | MS | 6 | 78.3 | 13.9 | 35.4 | 0.0 | 83 | 59 | 106 | 6.3 | 1.2 | 2.0 | 106 |
| MAJOR | HRS | MR | MS | 6 | 78.6 | 14.1 | 38.3 | 0.0 | 86 | 61 | 106 | 0.0 | 0.2 | 1.1 | 114 |
| Fuzion | HRS | MS | MS | 6 | 77.4 | 14.5 | 36.5 | 2.7 | 83 | 55 | 104 | 0.3 | 1.2 | 2.6 | 109 |
| Wilkin  | HRS | HS | S | 6 | 76.5 | 14.0 | 33.1 | 0.0 | 69 | 53 | 105 | 0.3 | 0.2 | 5.1 | 64 |
| AAC Scotia  | HRS-a | MR | MS | 6 | 76.9 | 13.6 | 39.5 | 3.3 | 84 | 59 | 104 | 0.5 | 1.7 | 3.1 | 107 |
| TOPAZE | HRS-a | MS | S | 6 | 76.5 | 14.4 | 31.5 | 0.0 | 84 | 62 | 106 | 0.7 | 1.5 | 3.1 | 110 |
| Raven  | HRS-a | MS | S | 6 | 78.1 | 13.9 | 38.2 | 0.0 | 76 | 57 | 104 | 0.5 | 0.2 | 2.8 | 100 |
| Ventry | HRS-a | MS | MR | 6 | 79.4 | 15.7 | 40.0 | 0.7 | 79 | 53 | 103 | 0.2 | 0.0 | 3.9 | 74 |
| AAC Synox  | HRS-a | MR | MR | 4 | 80.5 | 15.6 | 35.1 | 1.3 | 77 | 54 | 103 | 0.7 | 0.3 | 3.8 | 91 |
| Memphre | HRS-a | MS | MS | 2 | 78.4 | 14.2 | 32.5 | 0.7 | 79 | 58 | 106 | 0.8 | 0.5 | 2.2 | 115 |
| Maida  | HRS-a | S | S | 2 | 78.3 | 14.1 | 35.1 | 0.0 | 85 | 59 | 105 | 0.2 | 3.2 | 3.0 | 118 |
| Agora | HRS | S | HS | 2 | 79.5 | 15.0 | 36.6 | 0.0 | 81 | 54 | 105 | 0.3 | 0.7 | 4.0 | 101 |
| AAC Harlaka | HRS-a | MS | MS | 2 | 78.8 | 16.0 | 36.0 | 0.0 | 79 | 54 | 103 | 0.3 | 0.7 | 3.8 | 91 |
| Starlite  | HRS | HS | HS | 1 | 78.8 | 15.2 | 38.8 | 0.0 | 82 | 55 | 104 | 1.2 | 1.0 | 2.1 | 115 |
| Dagon  | EFS-a | MS | MS | 5 | 78.7 | 14.1 | 32.7 | 0.0 | 71 | 56 | 104 | 0.3 | 0.0 | 2.8 | 86 |
| Means | | | | | 78.3 | 14.6 | 35.9 | 0.6 | 80 | 57 | 105 | 0.8 | 0.8 | 3.0 | 2.78 t/ha |
| Locations | | | | | 3 | 3 | 3 | 1 | 3 | 3 | 1 | 2 | 2 | 3 | 1 |








Notes:

1. See Head to Head comparisons on GoCereals.ca website for multi-year data for trait characteristics.
2. MR=moderately resistant (best); MS=moderately susceptible; S=susceptible; HS=highly susceptible (worst)
3. For ratings 0-9, a high score is undesirable.

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**Table 1e - Ontario Performance Trial; Spring Wheat 2021 Cumulative Yield Index¹ Intensive Trials
Summary for Area 5, OCCC, October 2021**

| Class | Variety | 5-Year Index Fungicides | | 4-Year Index Fungicides | | 3-Year Index Fungicides | | 2-Year Index Fungicides | | 2021 Index Fungicides | |
|----------------|--|-------------------------|------|-------------------------|------|-------------------------|------|-------------------------|------|-----------------------|------|
| | | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes |
| hrs | Furano | 98 ² | 102 | 96 | 104 | 95 | 105 | 90 | 105 | 80 | 101 |
| | MAJOR | 101 | 99 | 103 | 104 | 104 | 105 | 100 | 106 | 87 | 100 |
| | Fuzion | 94 | 102 | 97 | 102 | 94 | 100 | 88 | 98 | 87 | 102 |
| | Wilkin  | 97 | 100 | 87 | 91 | 88 | 92 | 85 | 92 | 93 | 103 |
| | AAC Scotia (awned)  | 111 | 120 | 115 | 122 | 114 | 123 | 115 | 131 | 108 | 133 |
| | Raven (awned)  | 107 | 105 | 103 | 104 | 104 | 104 | 99 | 103 | 92 | 100 |
| | AAC Synox (awned)  | | | 90 | 89 | 89 | 88 | 92 | 92 | 94 | 98 |
| | Maida (awned)  | | | | | | | 118 | 117 | 104 | 111 |
| | Agora | | | | | | | 89 | 92 | 91 | 97 |
| | AAC Harlaka (awned) | | | | | | | 84 | 88 | 87 | 98 |
| | Starlite  | | | | | | | | | 102 | 104 |
| efs | Dagon (awned)  | 99 | 104 | 104 | 106 | 105 | 107 | 105 | 110 | 94 | 105 |
| Means (t/ha) | | 3.82 | 3.99 | 3.8 | 3.89 | 4.15 | 4.24 | 4.16 | 4.43 | 4.38 | 4.95 |
| Means (bu/ac) | | 57 | 59 | 57 | 58 | 62 | 63 | 62 | 66 | 65 | 74 |
| Location-Years | | 5 | | 4 | | 3 | | 2 | | 1 | |








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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 - Ontario Spring Wheat Varietal Characteristics¹ Based on Data from Area 5, 2021

| Cultivar | Class ¹ | ** 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 | 73.9 | 13.4 | 31.1 | 87 | 61 | 97 | 111 |
| MAJOR | HRS | MR | MS | 6 | 71.7 | 13.4 | 31.6 | 89 | 61 | 100 | 134 |
| Fuzion | HRS | MS | MS | 6 | 75.1 | 14.0 | 31.5 | 91 | 57 | 95 | 117 |
| Wilkin  | HRS | HS | S | 6 | 75.9 | 13.8 | 30.3 | 69 | 56 | 93 | 62 |
| AAC Scotia  | HRS-a | MR | MS | 6 | 75.7 | 13.8 | 34.4 | 90 | 59 | 99 | 97 |
| Raven  | HRS-a | MS | S | 6 | 75.9 | 13.8 | 32.7 | 80 | 59 | 99 | 97 |
| AAC Synox  | HRS-a | MR | MR | 4 | 79.4 | 16.0 | 29.9 | 84 | 58 | 96 | 89 |
| Maida  | HRS-a | S | S | 2 | 76.5 | 14.1 | 34.1 | 90 | 57 | 99 | 102 |
| Agora | HRS | S | HS | 2 | 76.7 | 15.0 | 31.3 | 84 | 57 | 97 | 101 |
| AAC Harlaka | HRS-a | MS | MS | 2 | 77.5 | 15.8 | 31.3 | 83 | 57 | 94 | 78 |
| Starlite  | HRS | HS | HS | 1 | 77.3 | 14.1 | 33.3 | 86 | 57 | 95 | 113 |
| Dagon  | EFS-a | MS | MS | 5 | 76.4 | 13.0 | 27.9 | 72 | 59 | 99 | 98 |
| Means | | | | | 76.0 | 14.2 | 31.6 | 84 | 58 | 97 | 3.37 t/ha |
| Locations | | | | | 2 | 1 | 2 | 2 | 2 | 2 | 2 |
















Notes:

1. See Head to Head comparisons on GoCereals.ca website for multi-year data for trait characteristics.
2. MR=moderately resistant (best); MS=moderately susceptible; S=susceptible; HS=highly susceptible (worst)
3. For ratings 0-9, a high score is undesirable.



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Table 2. 2021 Spring Barley Performance Trial Cumulative Yield Index¹ Summary











| Cultivar | Area 2 | | | | | Area 3 | | | | | Area 5 | | | | |
|--|-------------------|------|------|------|------|-------------------|------|------|------|------|-------------------|------|------|------|------|
| | 5 yr ² | 4 yr | 3 yr | 2 yr | 2021 | 5 yr ² | 4 yr | 3 yr | 2 yr | 2021 | 5 yr ² | 4 yr | 3 yr | 2 yr | 2021 |
| 2 Rowed | | | | | | | | | | | | | | | |
| Bornholm | 102 | 104 | 103 | 103 | 100 | 99 | 99 | 95 | 93 | 91 | | | 99 | 100 | 104 |
| AAC Purpose  | 100 | 101 | 99 | 99 | 99 | 97 | 98 | 97 | 98 | 96 | 100 | 98 | 96 | 91 | 84 |
| Champion  | | | | 96 | 95 | 102 | 103 | 104 | 107 | 108 | | | 94 | 85 | 75 |
| Corzo  | | | | | | | 99 | 97 | 96 | 92 | | 95 | 95 | 93 | 92 |
| AAC Synergy  | | | | 99 | 104 | | 93 | 96 | 96 | 97 | | | 100 | 100 | 95 |
| Esma  | | | | 102 | 99 | | | | 98 | 93 | | | | 109 | 102 |
| KWS Kellie  | | | | 88 | 85 | | | | 99 | 95 | | | | 94 | 81 |
| AAC Connect  | | | | 90 | 94 | | | | 88 | 91 | | | | 89 | 82 |
| RGT Planet  | | | | | 87 | | | | | 89 | | | | | 82 |
| 6 Rowed | | | | | | | | | | | | | | | |
| Dignity | 101 | 100 | 102 | 105 | 104 | 100 | 97 | 100 | 98 | 94 | | | | | |
| OCEANIK | | | | | | 106 | 107 | 103 | 104 | 105 | 103 | 102 | 103 | 99 | 100 |
| Harmony | | | | | | 106 | 109 | 107 | 108 | 112 | 97 | 98 | 95 | 96 | 102 |
| Amberly | 105 | 104 | 102 | 102 | 100 | 104 | 104 | 106 | 107 | 107 | | 105 | 103 | 105 | 109 |
| HY 621-6R | 104 | 103 | 101 | 103 | 103 | 102 | 101 | 98 | 98 | 103 | | | 97 | 100 | 108 |
| Chambly | | | | | | 107 | 105 | 104 | 105 | 107 | 102 | 101 | 100 | 104 | 106 |
| AAC Vitality  | 102 | 101 | 101 | 101 | 101 | 106 | 107 | 109 | 111 | 109 | 106 | 106 | 108 | 108 | 106 |
| AAC Montrose  | | | | | | | | | | | 98 | 97 | 97 | 91 | 98 |
| Marden | 103 | 101 | 101 | 104 | 102 | 96 | 93 | 92 | 88 | 96 | | | | | |
| Baden | 106 | 106 | 106 | 108 | 104 | 110 | 108 | 108 | 110 | 108 | 104 | 102 | 102 | 104 | 104 |
| DS8126RB | | 110 | 111 | 111 | 113 | | 112 | 112 | 117 | 117 | | | 107 | 102 | 100 |
| AAC Bloomfield  | | | | | | | 94 | 96 | 94 | 95 | | 104 | 103 | 101 | 104 |
| Sagamie | | | | | | | 98 | 99 | 95 | 90 | | | | | |
| Doriane  | | | | | | | | 106 | 108 | 105 | | | 106 | 104 | 110 |
| Rafale | | | | 103 | 104 | | | 99 | 96 | 104 | | | 99 | 102 | 100 |
| Ariber  | | | | | | | | | 103 | 108 | | | | 113 | 116 |
| Massy  | | | | 103 | 101 | | | | 108 | 112 | | | | | |
| Tsunami  | | | | | 104 | | | | | 98 | | | | | 104 |
| Means (t/ha) | 4.35 | 4.40 | 4.63 | 4.35 | 4.49 | 4.36 | 4.43 | 4.99 | 4.28 | 4.64 | 5.16 | 5.16 | 5.50 | 5.69 | 6.85 |
| Means (bu/ac) | 81 | 82 | 86 | 81 | 84 | 81 | 82 | 93 | 80 | 86 | 96 | 96 | 102 | 106 | 127 |
| Locations | 13 | 11 | 9 | 6 | 3 | 11 | 9 | 6 | 3 | 2 | 11 | 8 | 6 | 3 | 1 |

Notes:

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 PBR 78. Visit pbrfacts.ca to learn more.

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Table 2a - Ontario Spring Barley Varietal Characteristics¹ Based on Data from Area 2, 2021

| 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 ³ (days) | | |
| Bornholm | 2R | 64.7 | 40.7 | 62 | 5.3 | 61 | 1.7 | 90 |
| AAC Purpose  | 2R | 60.0 | 45.0 | 77 | 7.0 | 61 | 2.0 | 122 |
| Champion  | 2R | 62.7 | 43.6 | 66 | 5.7 | 61 | 1.0 | 83 |
| AAC Synergy  | 2R | 59.0 | 39.6 | 66 | 5.3 | 60 | 1.7 | 112 |
| Esma  | 2R | 58.2 | 37.9 | 58 | 6.7 | 61 | 1.3 | 83 |
| KWS Kellie  | 2R | 56.1 | 36.5 | 55 | 8.0 | 62 | 2.3 | 82 |
| AAC Connect  | 2R | 57.6 | 38.9 | 62 | 6.0 | 61 | 1.3 | 103 |
| RGT Planet  | 2R | 57.6 | 38.1 | 60 | 4.3 | 61 | 3.3 | 75 |
| Dignity | 6R | 57.7 | 37.9 | 75 | 1.7 | 60 | 1.3 | 93 |
| Amberly | 6R | 59.4 | 39.4 | 78 | 4.0 | 63 | 1.0 | 118 |
| HY 621-6R | 6R | 58.6 | 41.6 | 69 | 4.7 | 58 | 1.7 | 113 |
| AAC Vitality  | 6R | 53.5 | 36.1 | 77 | 6.3 | 63 | 2.7 | 131 |
| Marden | 6R | 59.7 | 40.9 | 69 | 2.3 | 56 | 1.7 | 79 |
| Baden | 6R | 58.2 | 32.4 | 58 | 2.0 | 60 | 1.7 | 81 |
| DS8126RB | 6R | 56.7 | 36.4 | 71 | 5.3 | 61 | 2.0 | 100 |
| Rafale | 6R | 60.4 | 36.6 | 79 | 3.7 | 60 | 1.3 | 98 |
| Massy  | 6R | 57.5 | 38.9 | 81 | 2.0 | 60 | 3.0 | 130 |
| Tsunami  | 6R | 57.6 | 38.3 | 73 | 1.7 | 60 | 3.7 | 109 |
| Means | | 58.6 | 38.8 | 69 | 4.6 | 60 | 1.9 | 6.80 t/ha |
| Locations | | 3 | 3 | 3 | 1 | 3 | 1 | 1 |















Notes:

1. See Head to Head comparisons on GoCereals.ca website for multi-year data for trait characteristics.
2. For ratings 0-9, a high score is undesirable.

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



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Table 2b - Ontario Spring Barley Varietal Characteristics¹ Based on Data from Area 3, 2021

| Cultivar | Class | 1000 | | | | | Straw Yield Index |
|--|-------|---------------------|-------------------|-------------|----------------|-----------------|-------------------|
| | | Test Weight (kg/hL) | Kernel Weight (g) | Height (cm) | Heading (days) | Maturity (days) | |
| Bornholm | 2R | 66.9 | 44.1 | 55 | 61 | 99 | 93 |
| AAC Purpose  | 2R | 62.8 | 51.5 | 67 | 62 | 101 | 108 |
| Champion  | 2R | 66.6 | 46.9 | 53 | 63 | 101 | 140 |
| Corzo  | 2R | 65.2 | 46.9 | 65 | 62 | 99 | 108 |
| AAC Synergy  | 2R | 66.1 | 44.8 | 62 | 62 | 100 | 104 |
| Esma  | 2R | 64.4 | 44.0 | 52 | 63 | 101 | 73 |
| KWS Kellie  | 2R | 63.4 | 44.2 | 45 | 63 | 99 | 116 |
| AAC Connect  | 2R | 64.1 | 45.4 | 55 | 62 | 100 | 119 |
| RGT Planet  | 2R | 63.8 | 44.9 | 53 | 62 | 99 | 132 |
| Dignity | 6R | 63.9 | 42.7 | 63 | 59 | 100 | 89 |
| OCEANIK | 6R | 62.4 | 44.4 | 73 | 61 | 100 | 120 |
| Harmony | 6R | 63.1 | 44.4 | 83 | 62 | 102 | 140 |
| Amberly | 6R | 63.5 | 45.8 | 73 | 65 | 103 | 80 |
| HY 621-6R | 6R | 62.2 | 43.7 | 62 | 58 | 101 | 80 |
| Chambly | 6R | 61.1 | 43.3 | 65 | 61 | 103 | 88 |
| AAC Vitality  | 6R | 60.1 | 43.6 | 68 | 64 | 102 | 121 |
| Marden | 6R | 62.8 | 44.3 | 55 | 57 | 100 | 58 |
| Baden | 6R | 62.1 | 37.4 | 58 | 60 | 99 | 73 |
| DS8126RB | 6R | 62.8 | 44.1 | 67 | 63 | 101 | 90 |
| AAC Bloomfield  | 6R | 61.4 | 41.1 | 62 | 60 | 102 | 98 |
| Sagamie | 6R | 63.1 | 43.8 | 68 | 61 | 101 | 87 |
| Doriane  | 6R | 64.4 | 46.2 | 75 | 65 | 103 | 112 |
| Rafale | 6R | 64.4 | 43.2 | 60 | 60 | 102 | 90 |
| Ariber  | 6R | 61.7 | 45.6 | 67 | 61 | 101 | 87 |
| Massy  | 6R | 63.3 | 43.5 | 73 | 61 | 101 | 109 |
| Tsunami  | 6R | 62.6 | 43.7 | 67 | 62 | 102 | 88 |
| Means | | 63.4 | 44.4 | 63 | 61 | 101 | 2.70 t/ha |
| Locations | | 2 | 2 | 1 | 2 | 1 | 1 |















Notes:

1. See Head to Head comparisons on GoCereals.ca website for multi-year data for trait characteristics.
2. For ratings 0-9, a high score is undesirable.

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

[!\[\]\(74d4806277d7e73349d8e8c0897931e9_img.jpg\) Return to Index ...](#)

Table 2c - Ontario Spring Barley Varietal Characteristics¹ Based on Data from Area 5, 2021

| Cultivar | Class | 1000 | | Height (cm) | Lodging (0-9) ² | Stem Break (0-9) ² | Heading ³ (days) | Maturity ³ (days) | Net Blotch (0-9) ² | Spot Blotch (0-9) ² | Straw Yield Index |
|--|-------|---------------------|-------------------|-------------|----------------------------|-------------------------------|-----------------------------|------------------------------|-------------------------------|--------------------------------|-------------------|
| | | Test Weight (kg/hL) | Kernel Weight (g) | | | | | | | | |
| Bornholm | 2R | 62.4 | 37.9 | 63 | 1.3 | 4.3 | 54 | 96 | 1.3 | 3.3 | 71 |
| AAC Purpose  | 2R | 59.3 | 41.0 | 81 | 6.0 | 4.7 | 54 | 89 | 3.7 | 2.0 | 94 |
| Champion  | 2R | 57.9 | 37.1 | 64 | 4.7 | 4.7 | 54 | 92 | 1.3 | 2.3 | 93 |
| Corzo  | 2R | 62.6 | 42.6 | 81 | 2.3 | 3.0 | 54 | 92 | 2.3 | 2.7 | 112 |
| AAC Synergy  | 2R | 58.6 | 36.8 | 68 | 4.0 | 2.7 | 55 | 91 | 1.0 | 2.3 | 116 |
| Esma  | 2R | 58.5 | 40.1 | 59 | 1.7 | 3.0 | 54 | 94 | 1.3 | 3.3 | 104 |
| KWS Kellie  | 2R | 58.0 | 32.9 | 63 | 2.0 | 6.0 | 57 | 88 | 2.0 | 3.0 | 73 |
| AAC Connect  | 2R | 58.4 | 33.6 | 68 | 4.0 | 2.7 | 54 | 89 | 1.0 | 2.3 | 86 |
| RGT Planet  | 2R | 57.7 | 35.8 | 72 | 2.7 | 5.3 | 54 | 90 | 1.0 | 3.3 | 79 |
| OCEANIK | 6R | 58.8 | 36.3 | 68 | 3.3 | 1.7 | 54 | 90 | 3.7 | 2.3 | 99 |
| Harmony | 6R | 62.1 | 41.1 | 85 | 2.0 | 0.3 | 54 | 92 | 1.7 | 2.0 | 135 |
| Amberly | 6R | 60.8 | 40.5 | 72 | 2.3 | 0.7 | 58 | 95 | 1.7 | 2.3 | 90 |
| HY 621-6R | 6R | 59.9 | 38.4 | 64 | 2.3 | 0.0 | 54 | 98 | 2.0 | 2.7 | 110 |
| Chambly | 6R | 59.7 | 38.8 | 69 | 1.0 | 0.3 | 54 | 100 | 2.3 | 2.7 | 111 |
| AAC Vitality  | 6R | 58.3 | 39.4 | 66 | 1.3 | 0.7 | 57 | 92 | 5.0 | 1.7 | 119 |
| AAC Montrose  | 6R | 59.1 | 38.2 | 75 | 3.0 | 1.0 | 54 | 95 | 1.3 | 3.7 | 117 |
| Baden | 6R | 58.4 | 31.0 | 52 | 2.0 | 1.3 | 54 | 90 | 1.7 | 3.3 | 61 |
| DS8126RB | 6R | 58.7 | 38.5 | 69 | 3.7 | 1.7 | 54 | 97 | 1.0 | 2.3 | 120 |
| AAC Bloomfield  | 6R | 59.0 | 36.1 | 71 | 3.0 | 1.3 | 54 | 93 | 1.7 | 2.3 | 96 |
| Doriane  | 6R | 59.4 | 38.0 | 79 | 1.3 | 0.3 | 57 | 98 | 2.3 | 2.3 | 122 |
| Rafale | 6R | 60.0 | 35.3 | 68 | 3.7 | 1.0 | 52 | 97 | 2.0 | 2.0 | 75 |
| Ariber  | 6R | 57.3 | 36.4 | 73 | 2.0 | 1.0 | 54 | 92 | 2.0 | 2.0 | 81 |
| Tsunami  | 6R | 60.4 | 36.5 | 68 | 1.7 | 0.0 | 54 | 96 | 2.0 | 3.0 | 138 |
| Means | | 59.4 | 37.5 | 70 | 2.7 | 2.1 | 54 | 93 | 2.0 | 2.6 | 3.39 t/ha |
| Locations | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |










Notes:

1. See Head to Head comparisons on GoCereals.ca website for multi-year data for trait characteristics.
2. For ratings 0-9, a high score is undesirable.

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

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Table 3. 2021 Oat Performance Trial Cumulative Yield Index¹ Summary

| Cultivar | Area 2 | | | | | Area 3 | | | | | Area 5 | | | | |
|---|-------------------|------|------|------|------|-------------------|------|------|------|------|-------------------|------|------|------|------|
| | 5 yr ² | 4 yr | 3 yr | 2 yr | 2021 | 5 yr ² | 4 yr | 3 yr | 2 yr | 2021 | 5 yr ² | 4 yr | 3 yr | 2 yr | 2021 |
| Hulled | | | | | | | | | | | | | | | |
| OAC Markdale | 80 | 80 | 81 | 82 | 83 | 93 | 95 | 93 | 92 | 88 | | | | | |
| RC Amaze | 91 | 95 | 96 | 99 | 90 | 91 | 99 | 93 | 90 | 87 | | | | | |
| Avatar | | | | | | 89 | 94 | 90 | 97 | 96 | | | | | |
| Hidalgo | | | | | | | | | | | 96 | 96 | 93 | 90 | 99 |
| Vitality | | | | | | 91 | 96 | 97 | 96 | 96 | 99 | 98 | 96 | 96 | 101 |
| AAC Bullet | 97 | 94 | 91 | 95 | 83 | 106 | 98 | 97 | 91 | 90 | | | | | |
| CDC Orrin  | | | | 101 | 101 | 108 | 111 | 106 | 104 | 102 | 100 | 100 | 97 | 98 | 96 |
| AAC Richmond | 98 | 96 | 93 | 95 | 96 | 98 | 97 | 102 | 106 | 108 | 106 | 107 | 106 | 105 | 104 |
| AAC Oaklin | 94 | 88 | 85 | 88 | 78 | 105 | 97 | 95 | 87 | 86 | 98 | 96 | 96 | 93 | 89 |
| Akina  | | | | | | | | | | | 103 | 104 | 102 | 100 | 98 |
| AAC Nicolas  | | | | | | | | | | | 103 | 102 | 102 | 107 | 109 |
| AAC Banner  | 112 | 109 | 109 | 98 | 98 | 110 | 107 | 110 | 103 | 104 | | | | | |
| Kalio  | | | | | | | | 101 | 101 | 100 | | 99 | 100 | 100 | 104 |
| CDC Arborg  | | | | | | | | | | | | | 101 | 99 | 105 |
| AAC Chandler  | | | | | | | | | | | | | 104 | 105 | 100 |
| AAC Stature  | | | | 117 | 107 | 113 | | | 94 | 92 | | | | | |
| AAC Reid  | | | | 128 | 127 | 125 | | | | | | | | 94 | 96 |
| Alise | | | | | | | | | 102 | 102 | | | | 101 | 98 |
| Orford | | | | 105 | 105 | | | | 104 | 105 | | | | 96 | 97 |
| Mistral | | | | | | | | | | | | | | | 96 |
| Means (t/ha) | 3.66 | 3.61 | 3.74 | 3.62 | 3.75 | 3.72 | 3.81 | 4.26 | 4.03 | 4.22 | 5.05 | 4.90 | 5.15 | 4.86 | 4.78 |
| Means (bu/ac) | 96 | 95 | 98 | 95 | 98 | 98 | 100 | 112 | 106 | 111 | 133 | 129 | 135 | 128 | 126 |
| Locations | 14 | 11 | 9 | 6 | 3 | 9 | 7 | 5 | 3 | 2 | 13 | 10 | 7 | 4 | 2 |

Notes:





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 13 years, with some varieties being significantly impacted.

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

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**Table 3a - Ontario Performance Trial; Oat 2021 Cumulative Yield Index¹ Intensive Trials
Summary for Area 2, OCCC, October 2021**

| Hull Colour | Variety | 5-Year Index Fungicides | | 4-Year Index Fungicides | | 3-Year Index Fungicides | | 2-Year Index Fungicides | | 2021 Index Fungicides | |
|----------------|---|-------------------------|------|-------------------------|------|-------------------------|------|-------------------------|------|-----------------------|------|
| | | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes |
| white | OAC Markdale | 83 ² | 95 | 80 | 95 | 77 | 94 | 76 | 92 | 79 | 102 |
| | RC Amaze | 92 | 109 | 93 | 111 | 92 | 113 | 96 | 117 | 82 | 105 |
| | AAC Bullet | 95 | 110 | 91 | 111 | 90 | 113 | 94 | 115 | 80 | 109 |
| | CDC Orrin  | | | | | | | 96 | 109 | 98 | 120 |
| | AAC Richmond | 93 | 102 | 91 | 104 | 90 | 104 | 93 | 106 | 91 | 107 |
| | AAC Oaklin | 91 | 106 | 86 | 105 | 84 | 106 | 88 | 107 | 73 | 101 |
| | AAC Banner  | 96 | 105 | 93 | 105 | 92 | 106 | 85 | 98 | 89 | 105 |
| | AAC Stature  | | | | | 99 | 109 | 91 | 103 | 93 | 105 |
| | AAC Reid  | | | | | 113 | 117 | 115 | 116 | 107 | 110 |
| | Orford | | | | | | | 100 | 108 | 99 | 116 |
| Means (t/ha) | | 3.86 | 4.33 | 3.78 | 4.39 | 3.86 | 4.54 | 3.71 | 4.29 | 4.01 | 4.88 |
| Means (bu/ac) | | 101 | 114 | 99 | 115 | 101 | 119 | 97 | 113 | 105 | 128 |
| Location-Years | | 9 | | 7 | | 6 | | 4 | | 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.

Rust races have overcome genetic resistance in the past 13 years, with some varieties being significantly impacted.

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



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**Table 3b - Ontario Performance Trial; Oat 2021 Cumulative Lodging Score¹ Intensive Trials
Summary for Area 2, OCCC, October 2021**

| Hull Colour | Variety | 5-Year Lodging Score Fungicides | | 4-Year Lodging Score Fungicides | | 3-Year Lodging Score Fungicides | | 2-Year Lodging Score Fungicides | | 2021 Lodging Score Fungicides | |
|----------------|---|---------------------------------|--------------|---------------------------------|-----|---------------------------------|-----|---------------------------------|-----|-------------------------------|-----|
| | | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes |
| | | white | OAC Markdale | 3.6 ² | 2.2 | 4.1 | 1.4 | 4.8 | 1.7 | 4.1 | 2.2 |
| | RC Amaze | 3.9 | 1.9 | 4.9 | 1.5 | 4.7 | 1.3 | 3.0 | 1.2 | 0.0 | 0.0 |
| | AAC Bullet | 3.4 | 1.8 | 3.8 | 1.0 | 4.4 | 1.1 | 3.7 | 1.2 | 2.3 | 0.3 |
| | CDC Orrin  | | | | | | | 3.4 | 1.7 | 1.7 | 0.3 |
| | AAC Richmond | 3.8 | 3.7 | 4.3 | 2.4 | 5.0 | 2.9 | 4.9 | 3.8 | 2.8 | 2.5 |
| | AAC Oaklin | 4.5 | 1.8 | 5.5 | 1.2 | 6.0 | 0.9 | 5.8 | 1.0 | 4.8 | 0.0 |
| | AAC Banner  | 4.1 | 4.0 | 3.8 | 3.4 | 4.2 | 3.7 | 5.0 | 5.5 | 3.0 | 4.0 |
| | AAC Stature  | | | | | 2.8 | 1.6 | 3.1 | 2.3 | 0.3 | 0.0 |
| | AAC Reid  | | | | | 1.3 | 0.8 | 2.1 | 1.1 | 0.5 | 0.0 |
| | Orford | | | | | | | 3.4 | 3.3 | 0.8 | 1.0 |
| Means | | 3.5 | 2.5 | 3.9 | 1.8 | 4.3 | 1.8 | 3.9 | 2.3 | 1.7 | 0.8 |
| Location-Years | | 8 | | 6 | | 5 | | 3 | | 2 | |





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 PBR78. Visit pbrfacts.ca to learn more.

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Table 3c - Ontario Oat Varietal Characteristics¹ Based on Data from Area 2, 2021

| Cultivar | Hull Colour | 1000 | | | | | | Crown Rust (0-9) ² | Straw Yield Index |
|---|-------------|---------------------|-------------------|----------------|-----------------|-------------|----------------------------|-------------------------------|-------------------|
| | | Test Weight (kg/hL) | Kernel Weight (g) | Heading (days) | Maturity (days) | Height (cm) | Lodging (0-9) ² | | |
| OAC Markdale | white | 37.7 | 30.6 | 60 | 93 | 99 | 4.1 | 6.4 | 94 |
| RC Amaze | white | 39.6 | 30.7 | 57 | 87 | 85 | 3.0 | 7.2 | 98 |
| AAC Bullet | white | 38.2 | 32.6 | 61 | 90 | 96 | 4.6 | 6.7 | 92 |
| CDC Orrin  | white | 38.0 | 33.8 | 64 | 96 | 108 | 3.8 | 5.6 | 105 |
| AAC Richmond | white | 36.7 | 32.2 | 68 | 94 | 112 | 2.8 | 5.3 | 100 |
| AAC Oaklin | white | 37.8 | 32.3 | 62 | 92 | 97 | 6.2 | 6.8 | 84 |
| AAC Banner  | white | 37.3 | 28.7 | 65 | 97 | 97 | 4.2 | 2.3 | 100 |
| AAC Stature  | white | 44.0 | 32.0 | 61 | 93 | 85 | 1.9 | 1.9 | 104 |
| AAC Reid  | white | 43.1 | 32.6 | 65 | 94 | 109 | 1.1 | 1.7 | 131 |
| Orford | white | 39.1 | 28.9 | 66 | 91 | 103 | 1.7 | 5.5 | 92 |
| Means | | 39.2 | 31.5 | 63 | 93 | 99 | 3.3 | 4.9 | 5.46 t/ha |
| Locations | | 3 | 3 | 3 | 1 | 2 | 3 | 3 | 1 |






Notes:

1. See Head to Head comparisons on GoCereals.ca website for multi-year data for trait characteristics.
2. For ratings 0-9, a high score is undesirable.

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

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Table 3d - Ontario Performance Trial; Oat 2021 Cumulative Yield Index¹ Intensive Summary for Area 3, OCCC, October 2021

| Hull Colour | Variety | 5-Year Index | | 4-Year Index | | 3-Year Index | | 2-Year Index | | 2021 Index | |
|----------------|---|-----------------|------|--------------|------|--------------|------|--------------|------|------------|------|
| | | Fungicides | | Fungicides | | Fungicides | | Fungicides | | Fungicides | |
| | | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes |
| white | OAC Markdale | 86 ² | 99 | 89 | 98 | 85 | 98 | 88 | 95 | 77 | 95 |
| | RC Amaze | 81 | 101 | 89 | 102 | 85 | 101 | 84 | 100 | 73 | 106 |
| | Avatar | 82 | 103 | 93 | 107 | 90 | 108 | 96 | 107 | 92 | 110 |
| | Vitality | 86 | 100 | 93 | 102 | 92 | 102 | 94 | 103 | 92 | 110 |
| | AAC Bullet | 101 | 106 | 93 | 100 | 91 | 101 | 88 | 97 | 86 | 101 |
| | CDC Orrin  | 101 | 109 | 103 | 108 | 103 | 110 | 101 | 110 | 91 | 111 |
| | AAC Richmond | 95 | 109 | 97 | 107 | 97 | 109 | 102 | 106 | 101 | 107 |
| | AAC Oaklin | 98 | 107 | 88 | 98 | 85 | 98 | 80 | 92 | 76 | 96 |
| | AAC Banner  | 105 | 107 | 103 | 106 | 103 | 106 | 97 | 101 | 92 | 107 |
| | Kalio  | | | | | 103 | 104 | 101 | 101 | 95 | 101 |
| | AAC Stature  | | | | | | | 92 | 93 | 86 | 96 |
| | AAC Reid  | | | | | | | 107 | 108 | 109 | 116 |
| | Alise | | | | | | | 100 | 106 | 100 | 115 |
| | Orford | | | | | | | 100 | 108 | 96 | 112 |
| Means (t/ha) | | 4.07 | 4.62 | 4.22 | 4.66 | 4.44 | 4.97 | 4.32 | 4.74 | 4.97 | 5.84 |
| Means (bu/ac) | | 107 | 121 | 111 | 122 | 117 | 131 | 113 | 125 | 131 | 153 |
| 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.

Rust races have overcome genetic resistance in the past 13 years, with some varieties being significantly impacted.



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

Table 3e - Ontario Performance Trial; Oat 2021 Cumulative Lodging Score¹ Intensive Summary for Area 3, OCCC, October 2021

| Hull Colour | Variety | 4-Year Lodging Score Fungicides | | 3-Year Lodging Score Fungicides | | 2-Year Lodging Score Fungicides | | 2021 Lodging Score Fungicides | |
|----------------|---|---------------------------------|-----|---------------------------------|-----|---------------------------------|-----|-------------------------------|-----|
| | | No | Yes | No | Yes | No | Yes | No | Yes |
| white | OAC Markdale | 3.5 ² | 2.8 | 1.7 | 0.7 | 1.4 | 0.5 | 0.3 | 0.0 |
| | RC Amaze | 4.6 | 4.8 | 3.3 | 3.4 | 1.5 | 4.5 | 2.0 | 7.3 |
| | Avatar | | | 4.8 | 1.8 | 3.2 | 1.4 | 1.3 | 1.0 |
| | Vitality | | | 2.2 | 2.2 | 0.0 | 2.4 | 0.0 | 3.0 |
| | AAC Bullet | 3.3 | 2.5 | 1.9 | 1.6 | 2.1 | 2.3 | 1.7 | 3.3 |
| | CDC Orrin  | | | 3.8 | 1.9 | 3.7 | 2.3 | 3.3 | 1.3 |
| | AAC Richmond | 3.3 | 2.6 | 1.3 | 1.3 | 0.8 | 1.5 | 0.0 | 0.7 |
| | AAC Oaklin | 4.7 | 2.9 | 3.3 | 1.7 | 2.5 | 1.6 | 0.0 | 0.0 |
| | AAC Banner  | 3.8 | 2.6 | 2.1 | 1.0 | 1.8 | 0.9 | 2.7 | 0.0 |
| | Kalio  | | | 2.8 | 1.8 | 2.8 | 2.1 | 2.0 | 2.0 |
| | AAC Stature  | | | | | 1.7 | 0.9 | 2.3 | 0.0 |
| | AAC Reid  | | | | | 1.5 | 1.2 | 0.0 | 0.3 |
| | Alise | | | | | 1.8 | 0.6 | 0.0 | 0.0 |
| | Orford | | | | | 4.4 | 1.3 | 5.3 | 0.7 |
| Means | | 4.5 | 3.2 | 2.8 | 1.6 | 2.1 | 1.6 | 1.6 | 1.3 |
| Location-Years | | 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 PBR78. Visit [PBR Status](#)

Table 3f - Ontario Oat Varietal Characteristics¹ Based on Data from Area 3, 2021

| 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 |
|---|-------------|---------------------|------------------------|----------------|-----------------|-------------|----------------------------|-------------------------------|-------------------|
| OAC Markdale | white | 50.2 | 32.1 | 62 | 101 | 73 | 0.3 | 6.2 | 83 |
| RC Amaze | white | 51.9 | 34.5 | 56 | 100 | 66 | 2.0 | 6.5 | 60 |
| Avatar | white | 52.4 | 34.0 | 64 | 103 | 73 | 1.3 | 4.5 | 99 |
| Vitality | white | 50.2 | 37.0 | 62 | 102 | 73 | 0.0 | 3.0 | 98 |
| AAC Bullet | white | 51.1 | 36.0 | 62 | 102 | 69 | 1.7 | 3.7 | 100 |
| CDC Orrin  | white | 50.6 | 37.6 | 64 | 104 | 75 | 3.3 | 4.8 | 101 |
| AAC Richmond | white | 52.2 | 36.7 | 68 | 105 | 85 | 0.0 | 3.5 | 109 |
| AAC Oaklin | white | 49.9 | 34.7 | 62 | 101 | 68 | 0.0 | 4.7 | 82 |
| AAC Banner  | white | 51.4 | 35.7 | 67 | 105 | 72 | 2.7 | 2.5 | 142 |
| Kalio  | white | 50.9 | 35.9 | 62 | 101 | 70 | 2.0 | 2.0 | 111 |
| AAC Stature  | white | 53.8 | 35.0 | 62 | 103 | 57 | 2.3 | 2.0 | 81 |
| AAC Reid  | white | 52.1 | 35.7 | 65 | 102 | 78 | 0.0 | 0.8 | 137 |
| Alise | white | 50.2 | 36.7 | 66 | 103 | 79 | 0.0 | 4.7 | 89 |
| Orford | white | 50.6 | 35.0 | 67 | 102 | 74 | 5.3 | 3.5 | 108 |
| Means | | 51.2 | 35.5 | 63 | 102 | 72 | 1.5 | 3.7 | 2.73 t/ha |
| Locations | | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 |








Notes:

1. See Head to Head comparisons on GoCereals.ca website for multi-year data for trait characteristics.
2. For ratings 0-9, a high score is undesirable.

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

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**Table 3g - Ontario Performance Trial; Oat 2021 Cumulative Yield Index¹ Intensive Trials
Summary for Area 5, OCCC, October 2021**

| Hull Colour | Variety | 5-Year Index Fungicides | | 4-Year Index Fungicides | | 3-Year Index Fungicides | | 2-Year Index Fungicides | | 2021 Index Fungicides | |
|----------------|--|-------------------------|------|-------------------------|------|-------------------------|------|-------------------------|------|-----------------------|------|
| | | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes |
| white | Hidalgo | 95 ² | 99 | 95 | 100 | 93 | 97 | 88 | 95 | 99 | 101 |
| | Vitality | 96 | 101 | 94 | 100 | 94 | 99 | 94 | 102 | 98 | 100 |
| | CDC Orrin  | 99 | 98 | 98 | 98 | 98 | 96 | 98 | 98 | 95 | 98 |
| | AAC Richmond | 104 | 103 | 105 | 107 | 105 | 106 | 105 | 105 | 106 | 107 |
| | AAC Oaklin | 94 | 96 | 91 | 95 | 90 | 96 | 89 | 95 | 86 | 93 |
| | Akina  | 101 | 99 | 100 | 98 | 100 | 99 | 99 | 98 | 96 | 98 |
| | AAC Nicolas  | 105 | 105 | 104 | 104 | 104 | 104 | 108 | 110 | 110 | 109 |
| | Kalio  | | | 99 | 106 | 100 | 107 | 101 | 110 | 104 | 109 |
| | CDC Arborg  | | | | | 98 | 99 | 95 | 99 | 103 | 106 |
| | AAC Chandler  | | | | | 99 | 102 | 100 | 105 | 95 | 99 |
| | AAC Reid  | | | | | | | 98 | 98 | 96 | 99 |
| | Alise | | | | | | | 96 | 101 | 95 | 107 |
| | Orford | | | | | | | 90 | 93 | 91 | 92 |
| | Mistral | | | | | | | | | 94 | 88 |
| Means (t/ha) | | 5.16 | 5.28 | 4.99 | 5.18 | 5.19 | 5.34 | 5.19 | 5.47 | 5.58 | 5.81 |
| Means (bu/ac) | | 135 | 139 | 131 | 136 | 136 | 140 | 136 | 144 | 147 | 153 |
| 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.

Rust races have overcome genetic resistance in the past 13 years, with some varieties being significantly impacted.

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

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Table 3h - Ontario Performance Trial; Oat 2021 Cumulative Lodging Score¹ Intensive Summary for Area 5, OCCC, November 2021

| Hull Colour | Variety | 4-Year Lodging Score Fungicides | | 3-Year Lodging Score Fungicides | | 2-Year Lodging Score Fungicides | | 2021 Lodging Score Fungicides | |
|----------------|--|---------------------------------|---------|---------------------------------|-----|---------------------------------|-----|-------------------------------|-----|
| | | No | Yes | No | Yes | No | Yes | No | Yes |
| | | white | Hidalgo | 2.3 ² | 1.8 | 2.0 | 1.6 | 3.0 | 2.3 |
| | Vitality | 2.7 | 2.3 | 2.0 | 1.9 | 2.6 | 2.3 | 2.7 | 2.3 |
| | CDC Orrin  | 1.5 | 1.9 | 1.0 | 1.7 | 1.3 | 2.3 | 1.3 | 2.3 |
| | AAC Richmond | 3.3 | 2.7 | 2.8 | 2.2 | 2.6 | 1.8 | 3.0 | 2.3 |
| | AAC Oaklin | 1.8 | 2.2 | 1.2 | 1.8 | 1.8 | 2.4 | 3.3 | 3.3 |
| | Akina  | 1.1 | 1.2 | 0.7 | 0.6 | 1.0 | 0.9 | 2.0 | 1.0 |
| | AAC Nicolas  | 1.4 | 1.5 | 0.9 | 1.0 | 1.3 | 1.5 | 2.3 | 1.7 |
| | Kalio  | | | 2.7 | 2.8 | 3.8 | 3.9 | 3.3 | 5.0 |
| | CDC Arborg  | | | 0.7 | 0.8 | 0.8 | 1.3 | 1.0 | 2.0 |
| | AAC Chandler  | | | 1.4 | 1.2 | 2.1 | 1.8 | 3.0 | 3.0 |
| | AAC Reid  | | | | | 1.8 | 1.0 | 2.3 | 1.0 |
| | Alise | | | | | 1.1 | 0.5 | 1.5 | 1.0 |
| | Orford | | | | | 3.9 | 4.1 | 4.0 | 3.7 |
| | Mistral | | | | | | | 3.0 | 2.0 |
| Means | | 2.4 | 2.3 | 1.6 | 1.6 | 2 | 2 | 2.2 | 2.2 |
| Location-Years | | 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 PBR78. Visit pbrfacts.ca to learn more.

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Table 3i - Ontario Oat Varietal Characteristics¹ Based on Data from Area 5, 2021

| Cultivar | Hull Colour | 1000 | | | | | | Crown Rust (0-9) ² | Straw Yield Index |
|--|-------------|---------------------|-------------------|----------------|-----------------|-------------|----------------------------|-------------------------------|-------------------|
| | | Test Weight (kg/hL) | Kernel Weight (g) | Heading (days) | Maturity (days) | Height (cm) | Lodging (0-9) ² | | |
| Hidalgo | white | 43.4 | 27.0 | 61 | 95 | 77 | 3.0 | 3.0 | 101 |
| Vitality | white | 41.6 | 28.7 | 60 | 96 | 84 | 2.7 | 1.3 | 101 |
| CDC Orrin  | white | 43.3 | 30.9 | 61 | 97 | 81 | 1.3 | 2.3 | 107 |
| AAC Richmond | white | 44.5 | 30.4 | 67 | 97 | 95 | 3.0 | 2.0 | 114 |
| AAC Oaklin | white | 42.5 | 28.4 | 60 | 95 | 80 | 3.3 | 3.0 | 81 |
| Akina  | white | 40.1 | 26.9 | 62 | 95 | 77 | 2.0 | 2.3 | 79 |
| AAC Nicolas  | white | 41.8 | 27.4 | 63 | 95 | 84 | 2.3 | 2.3 | 92 |
| Kalio  | white | 41.7 | 26.9 | 57 | 94 | 82 | 3.3 | 1.7 | 89 |
| CDC Arborg  | white | 43.2 | 29.0 | 61 | 95 | 92 | 1.0 | 3.0 | 102 |
| AAC Chandler  | white | 41.8 | 26.4 | 64 | 97 | 73 | 3.0 | 2.3 | 79 |
| AAC Reid  | white | 43.0 | 28.6 | 61 | 96 | 88 | 2.3 | 1.0 | 127 |
| Alise | white | 41.8 | 29.2 | 65 | 98 | 90 | 1.5 | 2.0 | 106 |
| Orford | white | 42.8 | 26.9 | 64 | 95 | 89 | 4.0 | 1.7 | 97 |
| Mistral | white | 42.2 | 28.6 | 57 | 97 | 80 | 3.0 | 2.3 | 124 |
| Means | | 42.4 | 28.2 | 62 | 96 | 84 | 2.6 | 2.2 | 4.50 t/ha |
| Locations | | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 |








Notes:

1. See Head to Head comparisons on GoCereals.ca website for multi-year data for trait characteristics.
2. For ratings 0-9, a high score is undesirable.

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

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Table 4a - Ontario Spring Wheat Distributors 2021
















| Class ¹ | Variety | Distributor |
|---|--|-----------------------|
| hrs | Furano | C & M Seeds |
| | MAJOR | Synagri |
| | Fuzion | Semences Prograin Inc |
| | Wilkin  | C & M Seeds |
| | AAC Scotia (awned)  | Semican Inc |
| | TOPAZE (awned) | Pedigrain |
| | Raven (awned)  | C & M Seeds |
| | Ventry (awned) | SeCan Association |
| | AAC Synox (awned)  | Synagri |
| | Memphre (awned) | Pedigrain |
| | Maida (awned)  | Elite Seeds |
| | Agora | Semican Inc |
| | AAC Harlaka (awned) | Semican Inc |
| Starlite  | Snobelen Farms/Marc Bercier Cleaning Inc | |
| efs | Dagon (awned)  | Elite Seeds |

Notes:

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

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

Table 4b - Ontario Barley Distributors 2021

| Class ¹ | Variety | Distributor |
|--|--|--|
| 2r | Bornholm | Alliance Agri-Turf/Beatty Seeds/Snobelen Farms |
| | AAC Purpose  | Snobelen Farms Ltd |
| | Champion  | Semican Inc |
| | Corzo  | Elite Seeds |
| | AAC Synergy  | Semican Inc |
| | Esma  | SeCan Association |
| 6r | KWS Kellie  | Cribit Seeds |
| | AAC Connect  | Semican Inc |
| | RGT Planet  | Semican Inc |
| | Dignity | SeCan Association |
| | OCEANIK | Synagri |
| | Harmony | Synagri |
| | Amberly | Rosebank Seed Farms Ltd. |
| | HY 621-6R | Alliance Agri-Turf/Beatty Seeds/Snobelen Farms |
| | Chambly | Semences Prograin Inc |
| | AAC Vitality  | Advantage Seed Growers |
| | AAC Montrose  | SeCan Association |
| | Marden | SeCan Association |
| Baden | SeCan Association | |
| DS8126RB | Alliance Agri-Turf/Beatty Seeds/Snobelen Farms | |
| AAC Bloomfield  | Elite Seeds | |
| Sagamie | Pedigrain | |
| Doriane  | Elite Seeds | |
| Rafale | Semican Inc | |
| Ariber  | Marc Bercier Cleaning Inc | |
| Massy  | Snobelen Farms Ltd | |
| Tsunami  | Semican Inc | |










Notes:



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

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

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Table 4c - Ontario Oat Distributors 2021

| Class | Variety | Distributor |
|--------|---|----------------------------|
| hulled | OAC Markdale | Rosebank Seed Farms Ltd. |
| | RC Amaze | Rosebank Seed Farms Ltd. |
| | Avatar | Pedigrain |
| | Hidalgo | Synagri |
| | Vitality | Synagri |
| | AAC Bullet | SeCan Association |
| | CDC Orrin  | Semican Inc |
| | AAC Richmond | Semican Inc |
| | AAC Oaklin | C & M Seeds |
| | Akina  | Elite Seeds |
| | AAC Nicolas  | SeCan Association |
| | AAC Banner  | SeCan Association |
| | Kalio  | Elite Seeds |
| | CDC Arborg  | Semican Inc |
| | AAC Chandler  | SeCan Association |
| | AAC Stature  | SeCan Association |
| | AAC Reid  | Alliance Agri-Turf |
| | Alise | Marc Bercier Seed Cleaning |
| | Orford | Semican Inc |
| | Mistral | Synagri |

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

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Table 4d - 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 | 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 |
| Cribit Seeds | 265 Katherine St S, West Montrose, ON, N0B 2V0 Tel: 1-519-664-3701 Website: www.cribit.com |
| Elite Seeds | Available through your local Agromart Tel: 519-282-6701 Website: www.eliteseeds.ca |
| Marc Bercier Cleaning Inc | 251 Caledonia Rd, Saint Isidore, ON, K0C 2B0 Tel: 1-613-524-2981 Website: marcbercier.com |
| 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 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 |