

2020

Ontario Spring Cereal Performance Trials

Data collected 2015-2019

www.gocereals.ca



Conducted by the Ontario Cereal Crop Committee

Current as of February 26, 2020

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 2018.

ADDITIONAL INFORMATION

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

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

For more information contact:

Ellen Sparry
Trial Coordinator
C&M Seeds
519-343-2126
esparry@redwheat.com







Joanna Follings
Cereals Specialist, OMAFRA
63 Lorne Avenue East-Suite 2B, Stratford, ON N5A 6S4
joanna.follings@ontario.ca
Office: 519-271-8180
Cell: 519-400-7124

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Table 1. 2019 Spring Wheat Performance Trial Cumulative Yield Index¹ Summary

| Cultivar | Class ³ | Area 2 ² | | | | | Area 3 ² | | | | | Area 5 ² | | | | |
|-----------------------------------------------------------------------------------------------|--------------------|---------------------|------|------|------|------|---------------------|------|------|------|------|---------------------|------|------|------|------|
| | | 5 yr ⁴ | 4 yr | 3 yr | 2 yr | 2019 | 5 yr ⁴ | 4 yr | 3 yr | 2 yr | 2019 | 5 yr ⁴ | 4 yr | 3 yr | 2 yr | 2019 |
| Furano | HRS | | | | | | 101 | 100 | 100 | 100 | 98 | 102 | 103 | 100 | 100 | 101 |
| MAJOR | HRS | | | | | | 100 | 101 | 100 | 101 | 102 | 98 | 97 | 98 | 103 | 108 |
| Fuzion | HRS | | | | | | 95 | 95 | 95 | 94 | 95 | 99 | 99 | 98 | 101 | 99 |
| Wilkin  | HRS | 110 | 115 | 115 | 110 | 112 | 104 | 104 | 103 | 103 | 102 | 103 | 103 | 101 | 92 | 91 |
| AAC Scotia  | HRS-a | 95 | 93 | 94 | 97 | 97 | 106 | 105 | 104 | 101 | 98 | 106 | 108 | 110 | 110 | 108 |
| AAC Brandon  | HRS-a | | | | | | | | | | | | | | 93 | 89 |
| Easton  | HRS-a | 110 | 111 | 113 | 105 | 103 | 106 | 106 | 105 | 98 | 94 | 102 | 103 | 103 | 93 | 93 |
| RGT Presidio | HRS | | | | | | | | | | | | | 105 | 111 | 117 |
| Raven  | HRS-a | | 118 | 121 | 113 | 114 | | 110 | 110 | 109 | 113 | | 109 | 108 | 106 | 108 |
| Ventry | HRS-a | | 108 | 109 | 107 | 107 | | 101 | 102 | 103 | 103 | | | | | |
| AAC Synox | HRS-a | | | | | | | | | 98 | 96 | | | | 91 | 86 |
| Toundra | HRS-a | | | | 90 | 89 | | | 97 | 96 | 94 | | | 92 | 90 | 90 |
| Hoffman | EFS-a | 98 | 96 | 106 | 113 | 115 | 106 | 104 | 101 | 105 | 102 | 112 | 113 | 113 | 123 | 127 |
| Bangor | EFS-a | | | | 89 | 81 | | | 99 | 98 | 96 | | | 98 | 104 | 104 |
| Dagon  | EFS-a | | | 94 | 101 | 99 | | | 108 | 107 | 108 | | | 97 | 100 | 101 |
| Means (t/ha) | | 4.26 | 3.96 | 3.98 | 4.71 | 4.94 | 3.84 | 3.62 | 3.45 | 3.65 | 4.37 | 4.17 | 3.97 | 3.88 | 3.99 | 4.34 |
| Means (bu/ac) | | 63 | 59 | 59 | 70 | 73 | 57 | 54 | 51 | 54 | 65 | 62 | 59 | 58 | 59 | 65 |
| Locations | | 13 | 9 | 6 | 4 | 3 | 15 | 12 | 9 | 6 | 3 | 14 | 12 | 9 | 6 | 3 |



Notes:

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

2. See area map on GoCereals.ca website.






3. HRS = hard red spring, EFS = eastern feed spring, -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 or PBR 78. Visit pbrfacts.ca to learn more.

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**Table 1a - Ontario Performance Trial; Spring Wheat 2019 Cumulative Yield Index¹ Intensive Trials
Summary for Area 2², OCCC, November 2019**

| Class ³ | Variety | 4-Year Index Fungicides | | 3-Year Index Fungicides | | 2-Year Index Fungicides | | 2019 Index Fungicides | |
|--------------------|------------------------------------------------------------------------------------------------------|-------------------------|------|-------------------------|------|-------------------------|------|-----------------------|------|
| | | No | Yes | No | Yes | No | Yes | No | Yes |
| hrs | Wilkin  | 105 ⁴ | 116 | 107 | 120 | 109 | 124 | 107 | 113 |
| | AAC Scotia (awned)  | 89 | 96 | 88 | 96 | 85 | 93 | 91 | 97 |
| | Easton (awned)  | 107 | 117 | 107 | 119 | 111 | 130 | 105 | 115 |
| | Raven (awned)  | | | 115 | 121 | 121 | 129 | 117 | 119 |
| | Ventry (awned) | | | 99 | 105 | 100 | 108 | 100 | 103 |
| efs | Toundra (awned) | | | | | | | 78 | 89 |
| | Bangor (awned) | | | | | | | 81 | 101 |
| | Dagon (awned)  | | | | | 86 | 103 | 102 | 109 |
| Means (t/ha) | | 4.01 | 4.38 | 3.83 | 4.27 | 3.66 | 4.23 | 4.71 | 5.12 |
| Means (bu/ac) | | 60 | 65 | 57 | 64 | 54 | 63 | 70 | 76 |
| Location-Years | | 8 | | 6 | | 4 | | 2 | |

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

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







³ hrs = hard red spring, efs = eastern feed spring.

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

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

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

**Table 1b - Ontario Performance Trial; Spring Wheat 2019 Cumulative Yield Index¹ Intensive Trials
Summary for Area 3², OCCC, November 2019**

| Class ³ | Variety | 5-Year Index Fungicides | | 4-Year Index Fungicides | | 3-Year Index Fungicides | | 2-Year Index Fungicides | | 2019 Index Fungicides | |
|--------------------|------------------------------------------------------------------------------------------------------|-------------------------|------|-------------------------|------|-------------------------|------|-------------------------|------|-----------------------|------|
| | | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes |
| hrs | Furano | 99 ⁴ | 103 | 100 | 106 | 99 | 105 | 103 | 105 | 104 | 104 |
| | MAJOR | 94 | 101 | 95 | 103 | 94 | 103 | 97 | 103 | 105 | 106 |
| | Fuzion | 89 | 97 | 91 | 99 | 89 | 98 | 90 | 95 | 92 | 97 |
| | Wilkin  | 94 | 104 | 94 | 104 | 95 | 106 | 102 | 104 | 97 | 101 |
| | AAC Scotia (awned)  | 104 | 109 | 104 | 110 | 102 | 108 | 100 | 103 | 101 | 104 |
| | Easton (awned)  | 98 | 111 | 98 | 112 | 99 | 114 | 97 | 107 | 95 | 101 |
| | Raven (awned)  | | | 106 | 113 | 107 | 114 | 107 | 111 | 108 | 108 |
| | Ventry (awned) | | | 92 | 99 | 91 | 100 | 94 | 100 | 87 | 92 |
| | AAC Synox (awned)  | | | | | | | 99 | 102 | 100 | 101 |
| | Toundra (awned) | | | | | 93 | 98 | 94 | 95 | 92 | 94 |
| efs | Hoffman (awned) | 108 | 120 | 111 | 123 | 108 | 122 | 114 | 116 | 113 | 121 |
| | Bangor (awned) | | | | | 97 | 107 | 96 | 102 | 97 | 103 |
| | Dagon (awned)  | | | | | 100 | 108 | 99 | 105 | 102 | 106 |
| Means (t/ha) | | 5.06 | 5.55 | 4.62 | 5.09 | 4.54 | 5.06 | 5.37 | 5.62 | 6.04 | 6.23 |
| Means (bu/ac) | | 75 | 83 | 69 | 76 | 68 | 75 | 80 | 84 | 90 | 93 |
| Location-Years | | 5 | | 4 | | 3 | | 2 | | 1 | |

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



² Area 3: see map of areas on www.gocereals.ca/variety_trial.php.

³ hrs = hard red spring, efs = eastern feed spring.

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







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

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**Table 1c - Ontario Performance Trial; Spring Wheat 2019 Cumulative Yield Index¹ Intensive Trials
Summary for Area 5², OCCC, November 2019**

| Class ³ | Variety | 5-Year Index Fungicides | | 4-Year Index Fungicides | | 3-Year Index Fungicides | | 2-Year Index Fungicides | | 2019 Index Fungicides | |
|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------|------|-------------------------|------|-------------------------|------|-------------------------|------|-----------------------|------|
| | | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes |
| hrs | Furano | 101 ⁴ | 100 | 104 | 100 | 104 | 99 | 102 | 103 | 105 | 103 |
| | MAJOR | 100 | 95 | 100 | 95 | 102 | 94 | 106 | 101 | 111 | 101 |
| | Fuzion | 97 | 101 | 98 | 102 | 98 | 104 | 105 | 105 | 104 | 103 |
| | Wilkin  | 104 | 105 | 104 | 105 | 106 | 105 | 90 | 90 | 94 | 93 |
| | AAC Scotia (awned)  | 105 | 108 | 108 | 109 | 109 | 113 | 115 | 113 | 112 | 106 |
| | AAC Brandon (awned)  | | | | | | | 100 | 102 | 100 | 94 |
| | Easton (awned)  | 106 | 107 | 108 | 107 | 111 | 107 | 92 | 89 | 100 | 91 |
| | RGT Presidio | | | | | 107 | 110 | 114 | 113 | 114 | 112 |
| | Raven (awned)  | | | 110 | 108 | 111 | 106 | 107 | 106 | 112 | 105 |
| | AAC Synox (awned) | | | | | | | 87 | 86 | 84 | 79 |
| | Toundra (awned) | | | | | 82 | 83 | 84 | 82 | 87 | 80 |
| | efs | Hoffman (awned) | 111 | 120 | 112 | 121 | 112 | 122 | 132 | 130 | 146 |
| Bangor (awned) | | | | | | 91 | 97 | 102 | 101 | 103 | 99 |
| Dagon (awned)  | | | | | | 94 | 100 | 102 | 102 | 105 | 101 |
| Means (t/ha) | | 4.67 | 4.87 | 4.31 | 4.44 | 3.65 | 3.77 | 3.51 | 3.45 | 4.15 | 3.90 |
| Means (bu/ac) | | 69 | 72 | 64 | 66 | 54 | 56 | 52 | 51 | 62 | 58 |
| Location-Years | | 5 | | 4 | | 3 | | 2 | | 1 | |

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

² Area 5: see map of areas on www.gocereals.ca/variety_trial.php.

³ hrs = hard red spring, efs = eastern feed spring.

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






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

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Table 2a - Ontario Spring Wheat Varietal Characteristics Based on Data from Area 2, 2019







| Cultivar | Class ¹ | ** Fusarium Data | | | 1000 | | | | | | | | | | |
|----------------------------------------------------------------------------------------------|--------------------|---------------------------------------|-------------------------|-------|---------------------|-------------|-------------------|----------------------------|-------------|-----------------------------|---------------------------|------------------------------|----------------------------------|------------------------------|-------------------|
| | | Combined Fusarium Rating ² | DON Rating ² | Years | Test Weight (kg/hL) | Protein (%) | Kernel Weight (g) | Lodging (0-9) ³ | Height (cm) | Heading ⁴ (days) | Mildew (0-9) ³ | Leaf Rust (0-9) ³ | Leaf Septoria (0-9) ³ | Maturity ⁴ (days) | Straw Yield Index |
| Wilkin  | HRS | S | S | 7 | 77.2 | 14.6 | 35.8 | 0.3 | 88 | 51 | 0.1 | 0.2 | 3.4 | 87 | 98 |
| AAC Scotia  | HRS-a | MR | MR | 7 | 77.1 | 14.7 | 40.8 | 3.6 | 105 | 55 | 0.2 | 0.8 | 3.6 | 85 | 91 |
| Easton  | HRS-a | MS | MS | 7 | 76.3 | 13.7 | 34.7 | 1.4 | 84 | 56 | 2.4 | 0.0 | 3.0 | 88 | 108 |
| Raven  | HRS-a | MS | S | 6 | 77.8 | 13.9 | 40.2 | 2.5 | 99 | 54 | 0.3 | 0.0 | 2.9 | 88 | 124 |
| Ventry | HRS-a | MS | MS | 6 | 79.6 | 15.3 | 44.2 | 2.3 | 104 | 49 | 0.4 | 0.2 | 3.9 | 85 | 80 |
| Toundra | HRS-a | MS | MR | 3 | 80.5 | 16.1 | 37.7 | 2.0 | 111 | 51 | 3.7 | 0.8 | 4.8 | 84 | 111 |
| Hoffman | EFS-a | S | HS | 7 | 77.0 | 13.9 | 44.6 | 2.3 | 108 | 54 | 0.3 | 0.3 | 3.8 | 87 | 115 |
| Bangor | EFS-a | MR | MS | 3 | 74.8 | 13.8 | 36.0 | 2.4 | 106 | 55 | 0.2 | 4.9 | 5.3 | 88 | 79 |
| Dagon  | EFS-a | MS | MS | 3 | 77.4 | 13.4 | 34.8 | 0.8 | 88 | 56 | 4.5 | 0.2 | 3.9 | 88 | 94 |
| Means | | | | | 77.5 | 14.4 | 38.7 | 2.0 | 99 | 53 | 1.3 | 0.8 | 3.8 | 87 | 5.53 t/ha |
| Locations | | | | | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 1 | 1 |

Notes:

- HRS = hard red spring, EFS = eastern feed spring, -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)
 - ** These columns will be updated when the 2019 data are available.
 - For ratings 0-9, a high score is undesirable.
 - 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 or PBR 78. Visit pbrfacts.ca to learn more.



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Table 2b - Ontario Spring Wheat Varietal Characteristics Based on Data from Area 3, 2019

| Cultivar | Class ¹ | ** Fusarium Data | | | Test Weight (kg/hL) | Protein (%) | 1000 Kernel | | | Height (cm) | Heading ⁴ (days) | Leaf Rust (0-9) ³ | Leaf Septoria (0-9) ³ | Stem Rust (0-9) ³ | Maturity ⁴ (days) | Straw Yield Index |
|----------------------------------------------------------------------------------------------|--------------------|---------------------------------------|-------------------------|-------|---------------------|-------------|-------------|----------------------------|-----|-------------|-----------------------------|------------------------------|----------------------------------|------------------------------|------------------------------|-------------------|
| | | Combined Fusarium Rating ² | DON Rating ² | Years | | | Weight (g) | Lodging (0-9) ³ | | | | | | | | |
| Furano | HRS | MR | MR | 7 | 77.0 | 13.4 | 34.0 | 0.3 | 104 | 59 | 0.3 | 2.0 | 0.0 | 94 | 102 | |
| MAJOR | HRS | MR | MR | 7 | 76.9 | 13.3 | 35.4 | 0.7 | 111 | 60 | 0.0 | 0.8 | 0.0 | 94 | 93 | |
| Fuzion | HRS | MS | MS | 7 | 75.3 | 13.5 | 34.5 | 2.3 | 113 | 56 | 1.0 | 3.8 | 0.0 | 90 | 94 | |
| Wilkin  | HRS | S | S | 7 | 74.0 | 13.3 | 32.1 | 0.3 | 87 | 54 | 0.5 | 4.0 | 0.3 | 91 | 79 | |
| AAC Scotia  | HRS-a | MR | MR | 7 | 73.5 | 13.2 | 35.9 | 4.5 | 105 | 57 | 1.8 | 3.8 | 1.0 | 92 | 114 | |
| Easton  | HRS-a | MS | MS | 7 | 75.6 | 12.9 | 32.0 | 1.1 | 85 | 58 | 0.0 | 2.9 | 0.0 | 93 | 100 | |
| Raven  | HRS-a | MS | S | 6 | 76.8 | 12.5 | 36.4 | 1.5 | 102 | 55 | 0.3 | 2.8 | 0.0 | 92 | 105 | |
| Ventry | HRS-a | MS | MS | 6 | 77.0 | 14.0 | 37.4 | 1.0 | 107 | 52 | 0.8 | 3.6 | 0.3 | 91 | 93 | |
| AAC Synox  | HRS-a | MS | MR | 2 | 78.7 | 14.1 | 32.3 | 1.0 | 102 | 56 | 0.0 | 3.6 | 0.0 | 91 | 100 | |
| Toundra | HRS-a | MS | MR | 3 | 77.3 | 13.7 | 34.6 | 1.2 | 111 | 54 | 1.8 | 2.9 | 2.3 | 92 | 106 | |
| Hoffman | EFS-a | S | HS | 7 | 74.4 | 12.1 | 38.7 | 1.1 | 109 | 56 | 2.0 | 3.8 | 0.0 | 93 | 110 | |
| Bangor | EFS-a | MR | MS | 3 | 72.5 | 12.1 | 33.5 | 0.3 | 104 | 57 | 4.0 | 3.8 | 2.3 | 93 | 110 | |
| Dagon  | EFS-a | MS | MS | 3 | 75.6 | 12.6 | 30.6 | 0.3 | 91 | 57 | 1.3 | 4.3 | 0.0 | 93 | 95 | |
| Means | | | | | 75.7 | 13.1 | 34.4 | 1.2 | 102 | 56 | 1.0 | 3.2 | 0.5 | 92 | 3.77 t/ha | |
| Locations | | | | | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 3 | 1 | 1 | 1 | |








Notes:

1. HRS = hard red spring, EFS = eastern feed spring, TRIT = triticale, Other = does not meet quality standards for CEHRS, -a = awned
2. Combined Fusarium Ratings are based on BOTH Fusarium head blight ratings and deoxynivalenol (DON) levels from inoculated provincial DON Ratings are based only on DON levels from inoculated provincial trials.
MR=moderately resistant (best); MS=moderately susceptible; S=susceptible; HS=highly susceptible (worst)
3. For ratings 0-9, a high score is undesirable.
4. Days from planting. Heading and Physiological Maturity vary from year to year and should only be used to indicate relative differences.

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Table 2c - Ontario Spring Wheat Varietal Characteristics Based on Data from Area 5, 2019

| Cultivar | Class ¹ | ** Fusarium Data | | | Years | Test Weight (kg/hL) | Protein (%) | 1000 Kernel Weight (g) | Lodging (0-9) ³ | Height (cm) | Heading (days) ⁴ | Leaf Septoria (0-9) ³ | Barley Yellow Dwarf Virus (0-9) ³ | Maturity (days) ⁴ | Straw Yield Index |
|-----------------------------------------------------------------------------------------------|--------------------|---------------------------------------|-------------------------|---|-------|---------------------|-------------|------------------------|----------------------------|-------------|-----------------------------|----------------------------------|----------------------------------------------|------------------------------|-------------------|
| | | Combined Fusarium Rating ² | DON Rating ² | | | | | | | | | | | | |
| Furano | HRS | MR | MR | 7 | 75.3 | 12.3 | 36.9 | 0.1 | 96 | 58 | 1.5 | 0.0 | 96 | 103 | |
| MAJOR | HRS | MR | MR | 7 | 75.4 | 12.6 | 39.2 | 0.3 | 101 | 59 | 2.5 | 0.0 | 94 | 122 | |
| Fuzion | HRS | MS | MS | 7 | 76.1 | 12.5 | 38.3 | 1.6 | 103 | 55 | 0.3 | 0.3 | 92 | 106 | |
| Wilkin  | HRS | S | S | 7 | 75.4 | 13.0 | 33.4 | 0.0 | 79 | 53 | 0.0 | 0.0 | 94 | 85 | |
| AAC Scotia  | HRS-a | MR | MR | 7 | 74.6 | 11.2 | 38.9 | 3.2 | 101 | 57 | 0.8 | 0.1 | 93 | 101 | |
| AAC Brandon  | HRS-a | MS | MS | 2 | 77.0 | 14.1 | 35.3 | 0.0 | 79 | 52 | 1.5 | 0.0 | 93 | 77 | |
| Easton  | HRS-a | MS | MS | 7 | 77.2 | 12.5 | 34.0 | 0.0 | 78 | 59 | 0.0 | 0.0 | 95 | 92 | |
| RGT Presidio | HRS | S | S | 3 | 75.3 | 10.9 | 35.0 | 0.0 | 81 | 56 | 0.0 | 0.0 | 95 | 96 | |
| Raven  | HRS-a | MS | S | 6 | 77.3 | 12.1 | 40.5 | 0.4 | 90 | 55 | 0.0 | 0.0 | 94 | 108 | |
| AAC Synox  | HRS-a | MS | MR | 2 | 78.8 | 13.5 | 34.3 | 0.0 | 92 | 57 | 0.0 | 0.0 | 94 | 89 | |
| Toundra | HRS-a | MS | MR | 3 | 78.1 | 13.1 | 37.7 | 0.6 | 104 | 54 | 0.0 | 0.0 | 94 | 109 | |
| Hoffman | EFS-a | S | HS | 7 | 75.2 | 11.0 | 46.1 | 1.3 | 98 | 55 | 0.0 | 0.3 | 96 | 118 | |
| Bangor | EFS-a | MR | MS | 3 | 74.4 | 11.7 | 40.8 | 0.8 | 100 | 56 | 0.8 | 0.3 | 95 | 100 | |
| Dagon  | EFS-a | MS | MS | 3 | 77.1 | 12.2 | 33.5 | 0.0 | 82 | 57 | 0.8 | 0.0 | 95 | 94 | |
| Means | | | | | 76.2 | 12.3 | 37.4 | 0.6 | 92 | 56 | 0.6 | 0.1 | 94 | 3.54 t/ha | |
| Locations | | | | | 3 | 2 | 3 | 3 | 3 | 3 | 1 | 2 | 3 | 2 | |







Notes:

- HRS = hard red spring, EFS = eastern feed spring, -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)
- ** These columns will be updated when the 2019 data are available.
- For ratings 0-9, a high score is undesirable.
- 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. 2019 Spring Barley Performance Trial Cumulative Yield Index¹ Summary

| Cultivar | Area 2 ² | | | | | Area 3 ² | | | | | Area 5 ² | | | | |
|--------------------------------------------------------------------------------------------------|---------------------|------|------|------|------|---------------------|------|------|------|------|---------------------|------|------|------|------|
| | 5 yr ³ | 4 yr | 3 yr | 2 yr | 2019 | 5 yr ³ | 4 yr | 3 yr | 2 yr | 2019 | 5 yr ³ | 4 yr | 3 yr | 2 yr | 2019 |
| 2 Rowed | | | | | | | | | | | | | | | |
| AC Kings | 96 | 94 | 93 | 93 | 91 | | | | | | | | | | |
| Bornholm | 102 | 101 | 101 | 105 | 104 | 100 | 100 | 101 | 101 | 98 | | | | | 97 |
| Conestogo | 99 | 99 | 98 | 101 | 102 | 97 | 97 | 98 | 98 | 94 | | | | | |
| AAC Purpose  | 99 | 100 | 101 | 105 | 101 | 96 | 97 | 96 | 98 | 96 | 100 | 101 | 103 | 102 | 100 |
| Dundee | | 94 | 93 | 94 | 91 | | 100 | 101 | 100 | 99 | | 98 | 99 | 101 | 103 |
| DS5692RB | | 102 | 103 | 105 | 103 | | 103 | 104 | 103 | 95 | | | | | 95 |
| Champion  | | | | | | | 100 | 100 | 101 | 102 | | | | | 102 |
| AAC Madawaska  | | | | | | | | | | | | | | 94 | 98 |
| AAC Synergy  | | | | | | | | | 92 | 96 | | | | | 101 |
| Newport | | | | | | | | | 99 | 96 | | | | | 98 |
| 6 Rowed | | | | | | | | | | | | | | | |
| Cyane | 101 | 100 | 102 | 99 | 99 | 106 | 105 | 107 | 108 | 104 | | | | | |
| Dignity | 99 | 98 | 97 | 94 | 96 | 102 | 101 | 101 | 97 | 102 | | | | | |
| OCEANIK | | | | | | 108 | 107 | 107 | 109 | 103 | 107 | 107 | 104 | 103 | 106 |
| OAC Laverne | 104 | 103 | 104 | 104 | 100 | 101 | 101 | 100 | 101 | 97 | | | | | |
| Harmony | | | | | | 104 | 105 | 105 | 109 | 105 | 95 | 94 | 97 | 99 | 93 |
| Amberly | 105 | 106 | 108 | 106 | 103 | 103 | 104 | 103 | 102 | 105 | | | | 105 | 102 |
| HY 621-6R | 100 | 102 | 104 | 102 | 95 | 100 | 101 | 104 | 103 | 99 | | | | | 93 |
| Alyssa | | | | | | | | | | | 95 | 94 | 94 | 99 | 102 |
| Boroe | | | | | | | | | | | 107 | 107 | 107 | 105 | 107 |
| Masky | | | | | | 106 | 104 | 105 | 106 | 106 | 104 | 104 | 104 | 103 | 102 |
| Chambly | | | | | | 105 | 105 | 107 | 104 | 102 | 101 | 100 | 101 | 99 | 96 |
| AAC Vitality  | 102 | 104 | 103 | 102 | 102 | 103 | 104 | 105 | 104 | 107 | 102 | 103 | 105 | 105 | 108 |
| AAC Montrose  | | | | | | | | | | | 103 | 102 | 101 | 100 | 103 |
| Marden | | 102 | 102 | 99 | 96 | | 97 | 99 | 96 | 96 | | 99 | 95 | 88 | 84 |
| Baden | | 103 | 104 | 104 | 102 | | 109 | 109 | 107 | 106 | | 106 | 103 | 101 | 100 |
| DS8126RB | | | | 109 | 110 | | | | 110 | 107 | | | | | 111 |
| Sagamie | | | | | | | | | 99 | 104 | | | | | |
| 6 Rowed Hulless | | | | | | | | | | | | | | | |
| Bastile | | | | | | | 73 | 78 | 78 | | 82 | 82 | 87 | 90 | 89 |
| Means (t/ha) | 4.32 | 4.54 | 4.35 | 4.48 | 5.38 | 4.76 | 4.38 | 4.39 | 4.51 | 5.84 | 5.00 | 4.85 | 4.93 | 4.83 | 5.31 |
| Means (bu/ac) | 80 | 84 | 81 | 83 | 100 | 89 | 82 | 82 | 84 | 109 | 93 | 90 | 92 | 90 | 99 |
| Locations | 14 | 10 | 7 | 5 | 3 | 12 | 10 | 8 | 6 | 3 | 13 | 11 | 8 | 5 | 3 |

Notes:

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


2. See area map on GoCereals.ca website.

3. Cultivar yield ranking may vary from year to year. Decisions are therefore best made using data with the greatest

  = 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 Barley Varietal Characteristics Based on Data from Area 2, 2019

| Cultivar | Class ¹ | Test Weight (kg/hL) | 1000 Kernel Weight (g) | Height (cm) | Lodging (0-9) ² | Heading ³ (days) | Maturity ³ (days) | Net Blotch (0-9) ² | Spot Blotch (0-9) ² | Straw Yield Index |
|-----------------------------------------------------------------------------------------------|--------------------|---------------------|------------------------|-------------|----------------------------|-----------------------------|------------------------------|-------------------------------|--------------------------------|-------------------|
| AC Kings | 2R | 65.6 | 49.3 | 86 | 2.3 | 54 | 78 | 2.8 | 1.4 | 94 |
| Bornholm | 2R | 65.9 | 46.8 | 74 | 2.0 | 52 | 77 | 1.5 | 3.3 | 74 |
| Conestogo | 2R | 63.2 | 42.3 | 79 | 4.1 | 53 | 76 | 1.8 | 3.0 | 73 |
| AAC Purpose  | 2R | 62.3 | 48.6 | 82 | 3.9 | 53 | 80 | 2.8 | 0.8 | 125 |
| Dundee | 2R | 64.6 | 45.9 | 78 | 4.0 | 53 | 79 | 2.8 | 4.8 | 84 |
| DS5692RB | 2R | 63.1 | 44.6 | 76 | 2.3 | 53 | 76 | 3.8 | 1.0 | 71 |
| Cyane | 6R | 61.6 | 43.0 | 89 | 2.1 | 53 | 80 | 1.5 | 1.3 | 147 |
| Dignity | 6R | 63.0 | 40.5 | 79 | 2.1 | 52 | 81 | 2.8 | 2.4 | 100 |
| OAC Laverne | 6R | 65.0 | 45.1 | 80 | 2.2 | 52 | 76 | 2.0 | 3.0 | 108 |
| Amberly | 6R | 62.5 | 46.5 | 84 | 2.9 | 54 | 83 | 0.5 | 2.1 | 136 |
| HY 621-6R | 6R | 62.8 | 43.3 | 78 | 4.1 | 50 | 78 | 3.8 | 1.4 | 81 |
| AAC Vitality | 6R | 59.5 | 42.3 | 84 | 4.3 | 54 | 80 | 2.3 | 2.4 | 134 |
| Marden | 6R | 63.3 | 44.1 | 81 | 1.9 | 49 | 76 | 1.8 | 1.5 | 94 |
| Baden | 6R | 63.2 | 38.9 | 76 | 2.2 | 52 | 78 | 1.3 | 2.4 | 77 |
| DS8126RB | 6R | 61.8 | 42.8 | 82 | 3.8 | 53 | 80 | 3.5 | 0.3 | 101 |
| Means | | 63.2 | 44.3 | 80 | 2.9 | 53 | 79 | 2.3 | 2.1 | 4.20 t/ha |
| Locations | | 3 | 3 | 3 | 3 | 3 | 1 | 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.



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Table 4b - Ontario Spring Barley Varietal Characteristics Based on Data from Area 3, 2019






| Cultivar | Class ¹ | 1000 | | | | | Leaf | Net Blotch | Straw |
|-----------------------------------------------------------------------------------------------|--------------------|------------------------|----------------------|----------------|--------------------------------|---------------------------------|----------------------------|--------------------|----------------|
| | | Test Weight (kg/hL) | Kernel Weight (g) | Height (cm) | Heading ³ (days) | Maturity ³ (days) | Rust (0-9) ² | (0-9) ² | Yield Index |
| Bornholm | 2R | 70.7 | 45.8 | 67 | 61 | 84 | 1.5 | 2 | 102 |
| Conestogo | 2R | 68.6 | 44.3 | 77 | 58 | 82 | 0.0 | 4 | 97 |
| AAC Purpose  | 2R | 64.3 | 48.7 | 82 | 60 | 86 | 0.3 | 0 | 108 |
| Dundee | 2R | 68.8 | 44.3 | 73 | 64 | 86 | 0.0 | 1 | 115 |
| DS5692RB | 2R | 67.5 | 44.5 | 67 | 63 | 83 | 3.3 | 1 | 107 |
| Champion  | 2R | 68.1 | 44.0 | 75 | 60 | 86 | 0.3 | 0 | 103 |
| AAC Synergy  | 2R | 64.6 | 42.9 | 71 | 62 | 85 | 0.8 | 0 | 123 |
| Newport | 2R | 68.3 | 43.6 | 72 | 60 | 84 | 1.8 | 0 | 89 |
| Cyane | 6R | 63.9 | 43.0 | 88 | 60 | 87 | 0.3 | 4 | 103 |
| Dignity | 6R | 66.2 | 40.6 | 82 | 58 | 85 | 2.5 | 2 | 91 |
| OCEANIK | 6R | 63.9 | 42.7 | 83 | 60 | 86 | 2.3 | 3 | 105 |
| OAC Laverne | 6R | 68.3 | 41.7 | 84 | 57 | 85 | 4.0 | 4 | 75 |
| Harmony | 6R | 64.5 | 43.4 | 92 | 61 | 87 | 2.3 | 0 | 120 |
| Amberly | 6R | 64.8 | 43.8 | 88 | 60 | 88 | 1.3 | 0 | 125 |
| HY 621-6R | 6R | 65.9 | 43.6 | 80 | 55 | 84 | 1.8 | 1 | 103 |
| Masky | 6R | 65.9 | 39.7 | 80 | 61 | 87 | 0.3 | 4 | 96 |
| Chambly | 6R | 64.6 | 44.1 | 80 | 60 | 87 | 2.8 | 6 | 101 |
| AAC Vitality | 6R | 63.4 | 41.4 | 85 | 60 | 86 | 0.3 | 2 | 116 |
| Marden | 6R | 66.8 | 42.3 | 74 | 55 | 83 | 1.5 | 0 | 64 |
| Baden | 6R | 65.3 | 36.9 | 65 | 59 | 85 | 0.3 | 2 | 69 |
| DS8126RB | 6R | 65.0 | 43.2 | 76 | 60 | 87 | 3.0 | 6 | 70 |
| Sagamie | 6R | 64.7 | 42.0 | 88 | 59 | 86 | 1.3 | 0 | 120 |
| Bastile | 6R hulless | 75.5 | 34.5 | 77 | 64 | 86 | 1.0 | 4 | 96 |
| Means | | 66.5 | 42.6 | 79 | 60 | 85 | 1.4 | 2 | 2.51 t/ha |
| Locations | | 3 | 3 | 3 | 3 | 3 | 1 | 1 | 1 |

Notes:

1. 2R = 2 Row, 6R = 6 Row
 2. For ratings 0-9, a high score is undesirable. There is only one rep of data for Net Blotch.
 3. 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 or PBR 78. Visit pbrfacts.ca to learn more.

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Table 4c - Ontario Spring Barley Varietal Characteristics Based on Data from Area 5, 2019

| Cultivar | Class ¹ | Test Weight (kg/hL) | 1000 | Height (cm) | Lodging (0-9) ² | Heading ³ (days) | Maturity ³ (days) | Barley | Spot Blotch (0-9) ² | Straw Yield Index |
|--------------------------------------------------------------------------------------------------|--------------------|---------------------|-------------------|-------------|----------------------------|-----------------------------|------------------------------|---------------------------------------|--------------------------------|-------------------|
| | | | Kernel Weight (g) | | | | | Yellow Dwarf Virus (0-9) ² | | |
| Bornholm | 2R | 64.8 | 47.0 | 68 | 0.1 | 60 | 87 | 2.3 | 0.9 | 90 |
| AAC Purpose  | 2R | 61.0 | 53.1 | 79 | 0.8 | 60 | 89 | 0.0 | 0.8 | 109 |
| Dundee | 2R | 64.8 | 48.1 | 74 | 0.1 | 60 | 87 | 0.0 | 1.0 | 106 |
| DS5692RB | 2R | 64.0 | 47.2 | 71 | 0.0 | 59 | 85 | 2.5 | 0.4 | 102 |
| Champion  | 2R | 62.8 | 46.0 | 71 | 0.2 | 61 | 90 | 0.3 | 0.5 | 80 |
| AAC Madawaska | 2R | 65.2 | 49.2 | 79 | 0.6 | 59 | 88 | 1.0 | 0.6 | 115 |
| AAC Synergy  | 2R | 60.6 | 45.0 | 75 | 0.3 | 60 | 88 | 0.0 | 0.0 | 115 |
| Newport | 2R | 64.5 | 46.9 | 71 | 0.3 | 58 | 85 | 1.8 | 0.0 | 90 |
| OCEANIK | 6R | 59.8 | 44.2 | 84 | 0.0 | 58 | 88 | 0.5 | 0.0 | 109 |
| Harmony | 6R | 58.2 | 43.9 | 94 | 0.0 | 57 | 89 | 0.0 | 0.0 | 117 |
| Amberly | 6R | 60.4 | 46.0 | 86 | 0.1 | 58 | 90 | 0.0 | 0.6 | 113 |
| HY 621-6R | 6R | 60.6 | 45.1 | 78 | 1.8 | 53 | 87 | 0.8 | 0.6 | 85 |
| Alyssa | 6R | 59.9 | 42.4 | 82 | 0.2 | 59 | 90 | 0.0 | 0.4 | 110 |
| Boroe | 6R | 59.8 | 44.1 | 84 | 0.0 | 55 | 89 | 0.0 | 0.9 | 101 |
| Masky | 6R | 61.4 | 40.5 | 80 | 0.0 | 59 | 89 | 0.0 | 0.4 | 88 |
| Chambly | 6R | 60.5 | 46.1 | 77 | 0.0 | 58 | 88 | 0.0 | 0.3 | 114 |
| AAC Vitality  | 6R | 58.4 | 43.4 | 85 | 0.6 | 59 | 90 | 1.3 | 1.9 | 107 |
| AAC Montrose  | 6R | 59.4 | 44.1 | 87 | 0.6 | 56 | 88 | 0.5 | 2.5 | 116 |
| Marden | 6R | 60.3 | 43.0 | 71 | 0.0 | 53 | 85 | 2.0 | 1.0 | 64 |
| Baden | 6R | 61.2 | 37.6 | 68 | 0.0 | 58 | 88 | 1.0 | 0.6 | 72 |
| DS8126RB | 6R | 61.5 | 45.1 | 80 | 0.0 | 60 | 90 | 0.0 | 0.6 | 86 |
| Bastile | 6R hulless | 72.1 | 36.4 | 81 | 0.1 | 60 | 89 | 0.5 | 0.3 | 112 |
| Means | | 61.9 | 44.8 | 78 | 0.3 | 58 | 88 | 0.6 | 0.6 | 2.99 t/ha |
| Locations | | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 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.
-   = PBR Status; indicates varieties protected under PBR 91 or PBR 78. Visit pbrfacts.ca to learn more.

Table 5. 2019 Oat Performance Trial Cumulative Yield Index¹ Summary

| Cultivar | Area 2 ² | | | | | Area 3 ² | | | | | Area 5 ² | | | | |
|-----------------------------------------------------------------------------------------------|---------------------|------|------|------|------|---------------------|------|------|------|------|---------------------|------|------|------|------|
| | 5 yr ³ | 4 yr | 3 yr | 2 yr | 2019 | 5 yr ³ | 4 yr | 3 yr | 2 yr | 2019 | 5 yr ³ | 4 yr | 3 yr | 2 yr | 2019 |
| Hulled | | | | | | | | | | | | | | | |
| OAC Markdale | 85 | 81 | 79 | 79 | 80 | 92 | 93 | 93 | 98 | 95 | | | | | |
| RC Amaze | 88 | 88 | 85 | 90 | 89 | 92 | 92 | 92 | 106 | 98 | | | | | |
| Avatar  | | | | | | 90 | 89 | 84 | 92 | 80 | | | | | |
| Hidalgo | | | | | | | | | | | 99 | 99 | 99 | 99 | 96 |
| Vitality | | | | | | | | 88 | 96 | 98 | 99 | 100 | 100 | 99 | 95 |
| AAC Bullet | 103 | 101 | 99 | 93 | 84 | 110 | 109 | 114 | 103 | 106 | | | | | |
| Nice | | | | | | | | | | | 102 | 102 | 101 | 101 | 103 |
| AAC Almonte | 98 | 94 | 92 | 85 | 79 | 105 | 107 | 111 | 103 | 106 | 97 | 98 | 99 | 98 | 99 |
| CDC Orrin | | | | | | 108 | 110 | 110 | 116 | 110 | | | 100 | 102 | 95 |
| AAC Richmond | 102 | 101 | 100 | 96 | 89 | 100 | 98 | 94 | 91 | 97 | 104 | 106 | 107 | 108 | 107 |
| AAC Oaklin  | 100 | 98 | 99 | 88 | 79 | 109 | 108 | 113 | 105 | 107 | 99 | 99 | 100 | 97 | 99 |
| Kara | | | | | | | | | | | 103 | 102 | 102 | 103 | 102 |
| Akina | | | | | | | | | | | 104 | 103 | 104 | 106 | 104 |
| AAC Nicolas  | | | | | | | | | | | 103 | 102 | 102 | 99 | 96 |
| AAC Noranda  | | | | | | 106 | 104 | 103 | 101 | 100 | 100 | 99 | 97 | 93 | 93 |
| AAC Blake  | 100 | 98 | 95 | 92 | 85 | | | | | | | | | | |
| AAC Banner  | | | 123 | 121 | 130 | | | 114 | 109 | 119 | | | | | |
| Means (t/ha) | 3.76 | 4.02 | 3.68 | 3.60 | 3.98 | 4.05 | 4.06 | 3.55 | 3.60 | 4.70 | 5.06 | 5.03 | 5.14 | 4.93 | 5.62 |
| Means (bu/ac) | 99 | 106 | 97 | 95 | 104 | 106 | 106 | 93 | 95 | 123 | 133 | 132 | 135 | 129 | 147 |
| Locations | 15 | 11 | 8 | 5 | 3 | 10 | 8 | 6 | 4 | 2 | 14 | 12 | 9 | 6 | 3 |


Notes:

1. Values differing by less than 3 within a column may not represent true differences in yield. Yield Indices are Heritability Adjusted Relative Values (HARV), which favour results from trial locations with high repeatability. For more information, see: Yan, W. Use of HARV in Variety Trial Summaries.
2. See area map on GoCereals.ca website.
3. Cultivar yield ranking may vary from year to year. Decisions are therefore best made using data with the greatest number of years. Rust races have overcome genetic resistance in the past 10 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 5a - Ontario Performance Trial; Oat 2019 Cumulative Yield Index¹ Intensive Trials
Summary for Area 2², OCCC, November 2019**

| Class ³ | Variety | 5-Year Index Fungicides | | 4-Year Index Fungicides | | 3-Year Index Fungicides | | 2-Year Index Fungicides | | 2019 Index Fungicides | |
|--------------------|----------------------------------------------------------------------------------------------|-------------------------|------|-------------------------|------|-------------------------|------|-------------------------|------|-----------------------|------|
| | | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes |
| white | OAC Markdale | 90 ⁴ | 96 | 88 | 96 | 88 | 96 | 85 | 99 | 77 | 99 |
| | RC Amaze | 89 | 97 | 90 | 99 | 89 | 102 | 89 | 104 | 82 | 106 |
| | AAC Bullet | 98 | 105 | 97 | 105 | 95 | 105 | 87 | 106 | 81 | 109 |
| | AAC Richmond | 100 | 102 | 96 | 101 | 93 | 99 | 89 | 100 | 84 | 100 |
| | AAC Oaklin | 97 | 103 | 96 | 104 | 94 | 106 | 83 | 103 | 75 | 104 |
| | AAC Blake | 100 | 107 | 98 | 106 | 95 | 105 | 90 | 105 | 86 | 108 |
| | AAC Banner  | | | | | 104 | 110 | 104 | 113 | 107 | 120 |
| tan | AAC Almonte | 96 | 100 | 93 | 100 | 91 | 101 | 86 | 101 | 79 | 101 |
| Means (t/ha) | | 4.02 | 4.21 | 4.08 | 4.37 | 3.96 | 4.36 | 3.86 | 4.52 | 4.17 | 5.03 |
| Means (bu/ac) | | 106 | 111 | 107 | 115 | 104 | 115 | 101 | 119 | 110 | 132 |
| Location-Years | | 9 | | 7 | | 5 | | 3 | | 2 | |



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

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



³ hull colour.

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

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

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

**Table 5b - Ontario Performance Trial; Oat 2019 Cumulative Yield Index¹ Intensive Trials
Summary for Area 3², OCCC, November 2019**

| Class ³ | Variety | 4-Year Index Fungicides | | 3-Year Index Fungicides | | 2-Year Index Fungicides | | 2019 Index Fungicides | |
|--------------------|----------------------------------------------------------------------------------------------|-------------------------|------|-------------------------|------|-------------------------|------|-----------------------|------|
| | | No | Yes | No | Yes | No | Yes | No | Yes |
| white | OAC Markdale | 85 ⁴ | 99 | 84 | 101 | 89 | 101 | 80 | 104 |
| | RC Amaze | 80 | 101 | 78 | 101 | 94 | 103 | 85 | 103 |
| | Avatar | 79 | 102 | 73 | 101 | 90 | 108 | 77 | 110 |
| | Vitality | | | 81 | 99 | 92 | 101 | 88 | 101 |
| | AAC Bullet | 106 | 110 | 110 | 113 | 99 | 103 | 98 | 108 |
| | CDC Orrin  | 101 | 109 | 101 | 108 | 105 | 107 | 106 | 111 |
| | AAC Richmond | 95 | 111 | 90 | 110 | 93 | 108 | 88 | 114 |
| | AAC Oaklin | 104 | 109 | 110 | 116 | 96 | 104 | 93 | 111 |
| | AAC Noranda | 96 | 105 | 95 | 107 | 93 | 99 | 89 | 96 |
| | AAC Banner  | | | 110 | 111 | 108 | 110 | 116 | 117 |
| tan | AAC Almonte | 102 | 108 | 107 | 111 | 98 | 102 | 98 | 106 |
| Means (t/ha) | | 4.30 | 4.94 | 3.90 | 4.54 | 4.10 | 4.55 | 4.74 | 5.55 |
| Means (bu/ac) | | 113 | 130 | 102 | 119 | 108 | 120 | 124 | 146 |
| Location-Years | | 4 | | 3 | | 2 | | 1 | |

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

² Area 3: see map of areas on www.gocereals.ca/variety_trial.php.

³ hull colour.





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

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



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**Table 5c - Ontario Performance Trial; Oat 2019 Cumulative Yield Index¹ Intensive Trials
Summary for Area 5², OCCC, November 2019**

| Class ³ | Variety | 5-Year Index Fungicides | | 4-Year Index Fungicides | | 3-Year Index Fungicides | | 2-Year Index Fungicides | | 2019 Index Fungicides | |
|--------------------|-----------------------------------------------------------------------------------------------|-------------------------|-------|-------------------------|-------|-------------------------|-------|-------------------------|-------|-----------------------|-------|
| | | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes |
| white | Hidalgo | 98 ⁴ | 102 | 99 | 102 | 100 | 102 | 102 | 105 | 104 | 102 |
| | Vitality | 96 | 99 | 95 | 100 | 97 | 100 | 94 | 99 | 95 | 93 |
| | Nice | 102 | 103 | 102 | 104 | 103 | 104 | 104 | 104 | 108 | 103 |
| | CDC Orrin  | | | | | 99 | 98 | 99 | 99 | 99 | 94 |
| | AAC Richmond | 102 | 103 | 103 | 104 | 103 | 102 | 105 | 109 | 105 | 107 |
| | AAC Oaklin | 97 | 99 | 96 | 99 | 97 | 98 | 93 | 95 | 94 | 98 |
| | Kara  | 104 | 105 | 104 | 105 | 104 | 103 | 101 | 102 | 103 | 101 |
| | Akina  | 101 | 102 | 101 | 101 | 102 | 99 | 101 | 98 | 103 | 100 |
| | AAC Nicolas  | 103 | 104 | 102 | 102 | 103 | 102 | 101 | 98 | 97 | 90 |
| | AAC Noranda | 98 | 102 | 97 | 101 | 97 | 99 | 95 | 97 | 94 | 92 |
| tan | AAC Almonte | 95 | 99 | 96 | 100 | 97 | 99 | 97 | 101 | 97 | 93 |
| Means (t/ha) | | 5.39 | 5.54 | 5.32 | 5.46 | 5.14 | 5.16 | 4.76 | 4.84 | 5.21 | 5.03 |
| Means (bu/ac) | | 141.5 | 145.3 | 139.5 | 143.4 | 134.9 | 135.3 | 124.9 | 127.1 | 136.6 | 132.1 |
| Location-Years | | 5 | | 4 | | 3 | | 2 | | 1 | |

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



² Area 5: see map of areas on www.gocereals.ca/variety_trial.php.

³ hull colour.


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

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

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

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

**Table 5d - Ontario Performance Trial; Oat 2019 Cumulative Lodging Score¹ Intensive Trials
Summary for Area 2², OCCC, November 2019**

| Class ³ | Variety | 4-Year Lodging Score Fungicides | | 3-Year Lodging Score Fungicides | | 2-Year Lodging Score Fungicides | | 2019 Lodging Score Fungicides | |
|--------------------|----------------------------------------------------------------------------------------------|---------------------------------|-----|---------------------------------|-----|---------------------------------|-----|-------------------------------|-----|
| | | No | Yes | No | Yes | No | Yes | No | Yes |
| white | OAC Markdale | 3.8 ⁴ | 2.9 | 3.3 | 2.2 | 4.0 | 0.6 | 5.8 | 0.9 |
| | RC Amaze | 5.5 | 3.1 | 4.5 | 2.4 | 6.8 | 1.9 | 7.3 | 1.4 |
| | AAC Bullet | 3.6 | 2.8 | 3.2 | 2.1 | 3.8 | 0.8 | 5.5 | 1.0 |
| | AAC Richmond | 3.8 | 4.2 | 3.2 | 3.6 | 3.7 | 1.0 | 5.3 | 1.5 |
| | AAC Oaklin | 4.4 | 2.9 | 3.8 | 2.2 | 5.3 | 1.3 | 6.4 | 0.8 |
| | AAC Blake | 4.9 | 3.5 | 4.1 | 2.3 | 4.4 | 1.0 | 5.9 | 0.5 |
| | AAC Banner  | | | 3.6 | 3.0 | 2.7 | 1.3 | 3.0 | 1.0 |
| tan | AAC Almonte | 6.0 | 5.2 | 5.1 | 4.7 | 6.7 | 3.3 | 7.8 | 2.9 |
| Means | | 4.3 | 3.6 | 3.3 | 2.6 | 3.9 | 1.2 | 4.8 | 1.0 |
| Location-Years | | 7 | | 5 | | 3 | | 2 | |

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

² Area 2: see area map on www.gocereals.ca website.

³ hull colour.

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

Fungicide treatments included a T2 application of foliar fungicide at Zadoks Growth Stage 39



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



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**Table 5e - Ontario Performance Trial; Oat 2019 Cumulative Lodging Score¹
Intensive Trials
Summary for Area 3², OCCC, November 2019**

| Class ³ | Variety | 2-Year Lodging Score Fungicides | | 2019 Lodging Score Fungicides | |
|--------------------|----------------------------------------------------------------------------------------------|---------------------------------|-----|-------------------------------|-----|
| | | No | Yes | No | Yes |
| white | OAC Markdale | 5.6 ⁴ | 5.0 | 2.3 | 1.0 |
| | RC Amaze | 7.7 | 5.0 | 6.8 | 1.0 |
| | Avatar | | | 8.0 | 2.5 |
| | Vitality | | | 6.5 | 1.8 |
| | AAC Bullet | 4.5 | 2.6 | 1.5 | 0.3 |
| | CDC Orrin  | | | 4.0 | 1.3 |
| | AAC Richmond | 5.8 | 3.8 | 2.5 | 1.0 |
| | AAC Oaklin | 6.8 | 4.1 | 5.0 | 1.8 |
| | AAC Noranda | 4.9 | 4.5 | 0.8 | 0.0 |
| | AAC Banner  | 5.8 | 4.3 | 2.5 | 1.3 |
| tan | AAC Almonte | 8.5 | 7.3 | 8.0 | 5.8 |
| Means | | 7.0 | 4.9 | 4.5 | 1.4 |
| Location-Years | | 2 | | 1 | |

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

² Area 3: see area map on www.gocereals.ca website.

³ hull colour.

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





Fungicide treatments included a T2 application of foliar fungicide at Zadoks Growth Stage 39

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



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

**Table 5f - Ontario Performance Trial; Oat 2019 Cumulative Lodging Score¹
Summary for Area 5², OCCC, November 2019**

| Class ³ | Variety | 3-Year Lodging Score | | 2-Year Lodging Score | | 2019 Lodging Score | |
|--------------------|------------------------------------------------------------------------------------------------|----------------------|-----|----------------------|-----|--------------------|-----|
| | | Fungicides | | Fungicides | | Fungicides | |
| | | No | Yes | No | Yes | No | Yes |
| white | Hidalgo | 2.7 ⁴ | 2.3 | 1.5 | 1.3 | 0.0 | 0.0 |
| | Vitality | 3.5 | 2.8 | 2.8 | 2.4 | 0.8 | 1.0 |
| | Nice | 4.0 | 2.3 | 3.5 | 3.4 | 2.8 | 2.5 |
| | CDC Orrin  | | | 1.8 | 1.5 | 0.5 | 0.5 |
| | AAC Richmond | 3.7 | 2.9 | 3.9 | 3.6 | 3.0 | 3.0 |
| | AAC Oaklin | 2.9 | 2.8 | 1.9 | 2.0 | 0.0 | 0.5 |
| | Kara  | 2.6 | 1.5 | 1.8 | 1.8 | 0.0 | 0.0 |
| | Akina  | 2.5 | 1.8 | 1.3 | 1.5 | 0.0 | 0.0 |
| | AAC Nicolas  | 2.7 | 2.8 | 1.5 | 1.6 | 0.0 | 0.0 |
| | AAC Noranda | 2.8 | 2.3 | 1.7 | 1.4 | 0.0 | 0.0 |
| tan | AAC Almonte | 3.8 | 3.8 | 3.3 | 3.0 | 1.0 | 1.0 |
| Means | | 3.5 | 2.7 | 2.8 | 2.7 | 0.7 | 0.7 |
| Location-Years | | 3 | | 2 | | 1 | |

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

² Area 5: see area map on www.gocereals.ca website.

³ hull colour.

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



Fungicide treatments included a T2 application of foliar fungicide at Zadoks Growth Stage 39

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



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Table 6a - Ontario Oat Varietal Characteristics Based on Data from Area 2, 2019

| Cultivar | Class ¹ | Test Weight (kg/hL) | 1000 Kernel Weight (g) | Heading ³ (days) | Maturity ³ (days) | Height (cm) | Lodging (0-9) ² | Crown Rust (0-9) ² | Straw Yield Index |
|----------------------------------------------------------------------------------------------|--------------------|---------------------|------------------------|-----------------------------|------------------------------|-------------|----------------------------|-------------------------------|-------------------|
| OAC Markdale | white | 39.0 | 30.2 | 52 | 78 | 102 | 5.7 | 5.1 | 89 |
| RC Amaze | white | 38.9 | 30.0 | 49 | 77 | 93 | 7.4 | 5.9 | 102 |
| AAC Bullet | white | 39.0 | 32.2 | 54 | 78 | 95 | 5.4 | 5.8 | 101 |
| AAC Almonte | tan | 42.1 | 29.2 | 57 | 81 | 101 | 7.3 | 4.8 | 94 |
| AAC Richmond | white | 38.5 | 29.8 | 61 | 85 | 107 | 4.2 | 4.9 | 118 |
| AAC Oaklir  | white | 38.6 | 30.6 | 55 | 78 | 98 | 6.8 | 5.8 | 85 |
| AAC Blake | white | 35.4 | 28.7 | 57 | 80 | 99 | 5.2 | 5.5 | 101 |
| AAC Banner  | white | 42.9 | 32.8 | 55 | 84 | 96 | 2.8 | 1.1 | 110 |
| Means | | 39.3 | 30.4 | 55 | 80 | 99 | 5.6 | 4.9 | 3.93 t/ha |
| Locations | | 3 | 3 | 3 | 1 | 3 | 3 | 3 | 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.





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

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Table 6b - Ontario Oat Varietal Characteristics Based on Data from Area 3, 2019





| Cultivar | Class ¹ | Test | 1000 | Heading ³ (days) | Maturity ³ (days) | Height (cm) | Lodging (0-9) ² | Crown | Leaf | Straw Yield Index |
|----------------------------------------------------------------------------------------------|--------------------|-------------------|----------------------|--------------------------------|---------------------------------|----------------|-------------------------------|----------------------------|--------------------------------|-------------------------|
| | | Weight (kg/hL) | Kernel Weight (g) | | | | | Rust (0-9) ² | Septoria (0-9) ² | |
| OAC Markdale | white | 49.9 | 30.4 | 60 | 90 | 98 | 2.3 | 5.9 | 2.8 | 121 |
| RC Amaze | white | 49.1 | 32.1 | 58 | 88 | 91 | 6.8 | 6.1 | 5.3 | 79 |
| Avatar | white | 48.6 | 27.7 | 61 | 90 | 96 | 8.0 | 5.8 | 6.8 | 103 |
| Vitality | white | 47.8 | 34.5 | 60 | 90 | 98 | 6.5 | 6.0 | 3.5 | 115 |
| AAC Bullet | white | 49.2 | 33.9 | 61 | 89 | 93 | 1.5 | 4.4 | 3.0 | 101 |
| AAC Almonte | tan | 55.2 | 32.7 | 62 | 89 | 95 | 8.0 | 4.8 | 0.0 | 93 |
| CDC Orrin  | white | 48.1 | 31.4 | 61 | 90 | 96 | 4.0 | 4.5 | 4.3 | 115 |
| AAC Richmond | white | 45.7 | 29.6 | 64 | 92 | 101 | 2.5 | 4.6 | 1.5 | 80 |
| AAC Oaklin | white | 50.7 | 33.8 | 59 | 87 | 94 | 5.0 | 4.4 | 1.8 | 81 |
| AAC Noranda | white | 44.7 | 31.1 | 62 | 90 | 94 | 0.8 | 4.5 | 0.0 | 113 |
| AAC Banner  | white | 49.5 | 31.0 | 61 | 91 | 97 | 2.5 | 1.0 | 0.0 | 100 |
| Means | | 48.9 | 31.6 | 61 | 90 | 96 | 4.3 | 4.7 | 2.6 | 2.16 t/ha |
| Locations | | 2 | 2 | 2 | 1 | 2 | 1 | 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.
-   = PBR Status; indicates varieties protected under PBR 91 or PBR 78. Visit pbrfacts.ca to learn more.

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Table 6c - Ontario Oat Varietal Characteristics Based on Data from Area 5, 2019



| Cultivar | Class ¹ | 1000 | | | | | | Barley | | Straw Yield Index |
|-----------------------------------------------------------------------------------------------|--------------------|---------------------|-------------------|-----------------------------|------------------------------|-------------|----------------------------|------------------------------|---------------------------------------|-------------------|
| | | Test Weight (kg/hL) | Kernel Weight (g) | Heading ³ (days) | Maturity ³ (days) | Height (cm) | Lodging (0-9) ² | Stem Rust (0-9) ² | Yellow Dwarf Virus (0-9) ² | |
| Hidalgo | white | 46.7 | 34.3 | 58 | 91 | 86 | 0.9 | 3.8 | 0.8 | 96 |
| Vitality | white | 45.4 | 38.6 | 57 | 92 | 92 | 0.4 | 0.5 | 1.5 | 98 |
| Nice | white | 46.0 | 37.5 | 56 | 90 | 96 | 1.6 | 1.5 | 1.0 | 88 |
| AAC Almonte | tan | 47.2 | 35.0 | 58 | 91 | 94 | 0.8 | 1.0 | 0.8 | 104 |
| CDC Orrin  | white | 46.4 | 38.1 | 57 | 92 | 91 | 0.3 | 2.8 | 1.5 | 96 |
| AAC Richmond | white | 48.4 | 38.3 | 62 | 95 | 99 | 1.8 | 3.3 | 0.8 | 131 |
| AAC Oaklin | white | 46.4 | 35.4 | 57 | 90 | 90 | 0.0 | 1.3 | 1.3 | 103 |
| Kara  | white | 47.6 | 37.0 | 56 | 90 | 87 | 0.0 | 3.7 | 0.7 | 96 |
| Akina  | white | 44.3 | 36.3 | 56 | 91 | 89 | 0.0 | 4.0 | 1.0 | 93 |
| AAC Nicolas  | white | 42.9 | 32.9 | 61 | 94 | 89 | 0.0 | 3.0 | 0.5 | 96 |
| AAC Noranda | white | 43.4 | 35.5 | 59 | 93 | 88 | 0.0 | 3.0 | 0.3 | 98 |
| Means | | 45.9 | 36.3 | 58 | 92 | 91 | 0.5 | 2.5 | 0.9 | 3.24 t/ha |
| Locations | | 3 | 3 | 3 | 3 | 3 | 2 | 1 | 1 | 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.

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

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Table 7a - Ontario Spring Wheat Distributors 2019

| Class ¹ | Variety | Distributor |
|--------------------|-------------------------------------------------------------------------------------------------------|-----------------------|
| hrs | Furano | C & M Seeds |
| | MAJOR | Synagri |
| | Fuzion | Semences Prograin Inc |
| | Wilkin  | C & M Seeds |
| | AAC Scotia (awned)  | Semican Inc |
| | AAC Brandon (awned)  | SeCan Association |
| | Easton (awned)  | C & M Seeds |
| | RGT Presidio | Synagri |
| | Raven (awned)  | C & M Seeds |
| | Ventry (awned) | SeCan Association |
| | AAC Synox (awned) | Synagri |
| | Toundra (awned) | Semican Inc |
| efs | Hoffman (awned) | Elite Seeds |
| | Bangor (awned) | Semican Inc |
| | 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.

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Table 7b - Ontario Barley Distributors 2019

| Class ¹ | Variety | Distributor |
|--------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------|
| 2r | AC Kings | Snobelen Farms |
| | Bornholm | Alliance Agri-Turf/Beatty Seeds/ Snobelen Farms |
| | Conestogo | SeCan Association |
| | AAC Purpose  | Snobelen Farms |
| | Dundee | SeCan Association |
| | DS5692RB | Snobelen Farms |
| | Champion  | Semican Inc |
| | AAC Madawaska  | Eastern Grains Inc |
| | AAC Synergy  | Semican Inc |
| | Newport | Semican Inc |
| 6r | Cyane | Elite Seeds |
| | Dignity | SeCan Association |
| | OCEANIK | Synagri |
| | OAC Laverne | Snobelen Farms |
| | Harmony | Synagri |
| | Amberly | Rosebank Seed Farms Ltd. |
| | HY 621-6R | Alliance Agri-Turf/Beatty Seeds/ Snobelen Farms |
| | Alyssa | Elite Seeds |
| | Boroe | Elite Seeds |
| | Masky | Synagri |
| | 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 |
| Sagamie | Pedigrain | |
| 6r hulless | Bastile | Synagri |






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 7c - Ontario Oat Distributors 2019

| 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 |
| | Nice | Elite Seeds |
| | AAC Almonte | Advantage Seed Growers |
| | CDC Orrin  | Semican Inc |
| | AAC Richmond | Semican Inc |
| | AAC Oaklin | C & M Seeds |
| | Kara  | Elite Seeds |
| | Akina  | Elite Seeds |
| | AAC Nicolas  | SeCan Association |
| | AAC Noranda | Semican Inc |
| | AAC Blake | SeCan Association |
| | AAC Banner  | SeCan Association |

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

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Table 7d - Distributor Contact Information

| Distributor | Address |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Advantage Seed Growers | P.O. Box 351, Lucknow, ON, N0G 2H0 Tel: 519-440-6406 Fax: 519-812-1010 Website: www.advantageseeds.com |
| Alliance Agri-Turf | 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 |
| C&M Seeds | 6180 5th Line, Palmerston, ON, N0G 2P0 Tel: 1-888-733-9432 Fax: 519-343-3792 Website: www.redwheat.com |
| Eastern Grains Inc | 260, 3rd tier road, LSD Drummond, NB E3Y 2V2 Tel: 506-473-6661 Fax: 506-473-6606 Website: www.easterngrains.ca |
| Elite Seeds | Available through your local Agromart Tel: 519-282-6701 Website: www.eliteseeds.ca |
| Pedigrain | 5175 Boul. Laurier Est, St Hyacinthe, QC, J2R 2B4 Tel: 819-347-7502 Fax: 450-799-3229 |
| Rosebank Seed Farms Ltd | 7340 Perth Line, Staffa, ON, N0K 1Y0 Tel: 1-519-345-2697 |
| SeCan 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 |
| William Houde Ltd. | 8, 3ieme Rang Ouest, St Simon, QC, J0H 1Y0 Phone: 450-798-2002 Fax: 450-798-2776 Website: www.williamhoude.com |