



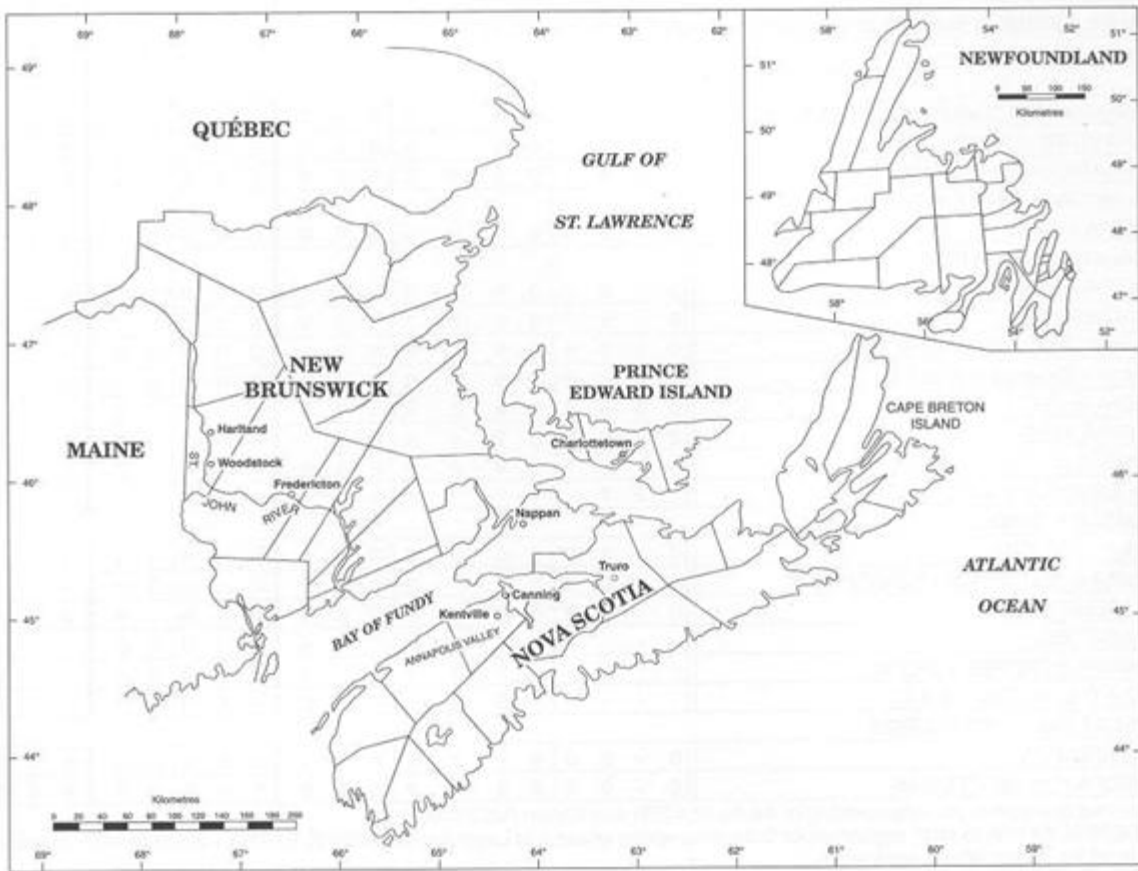
Agriculture and
Fisheries

2019

MARITIME CEREAL CULTIVARS PERFORMANCE TRIALS (2015-2018)

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By:
Sub-committee of the
Atlantic Recommending Committee
for Cereal Crops



TRIAL SITES

| | Harrington (PEI) (2015-18) | Hartland (NB) (2015-18) | Nappan (NS) (2018) | Truro (NS) (2015-17) | Canning (NS) (2015-17) |
|--------------------------|---------------------------------------|------------------------------------|-------------------------------|---------------------------------|-----------------------------------|
| Barley | X | X | X | X | X |
| Oats | X | X | X | X | X |
| Spring Wheat & Triticale | X | X | X | X | X |
| Winter Wheat & Rye | X | - | - | X | X |

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Table 1 : BARLEY
Maritime Cumulative Yield Summary¹ 2015-2018

| Cultivar | Distributor | Type | 4 years | | 3 years | | 2 years | | 2018 | |
|--------------------------|--------------------|------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|
| | | | % | (mt/ac) | % | (mt/ac) | % | (mt/ac) | % | (mt/ac) |
| Six Row | | | | | | | | | | |
| AAC Mirabel | Secan | Feed | 104 | 2.00 | 102 | 2.01 | 103 | 2.10 | 103 | 2.11 |
| Rhea | Elite Seeds | Feed | 99 | 1.90 | 98 | 1.95 | 102 | 2.06 | 100 | 2.05 |
| AAC Montrose | Secan | Feed | - | - | - | - | 99 | 2.02 | 103 | 2.11 |
| Alyssa | Elite Seeds | Feed | - | - | - | - | 99 | 2.00 | 94 | 1.93 |
| Two Row | | | | | | | | | | |
| AAC Purpose | Bramhill Seeds | Feed | 100 | 1.93 | 101 | 2.00 | 102 | 2.07 | 100 | 2.06 |
| Island | McCardle Seeds | Feed | 93 | 1.78 | 94 | 1.86 | 97 | 1.96 | 95 | 1.96 |
| Leader | Eastern Grains Inc | Feed | 99 | 1.90 | 99 | 1.96 | 105 | 2.13 | 104 | 2.14 |
| Newdale | Semican | Malt | 93 | 1.79 | 95 | 1.89 | 97 | 1.97 | 94 | 1.93 |
| AAC Bell | SeCan | Feed | 104 | 2.00 | 103 | 2.04 | 106 | 2.15 | 108 | 2.21 |
| AAC Ling | SeCan | Feed | 106 | 2.04 | 106 | 2.10 | 108 | 2.18 | 109 | 2.25 |
| Champion | Semican | Feed | 101 | 1.94 | 101 | 2.00 | 107 | 2.18 | 108 | 2.21 |
| Two Row : Hulless | | | | | | | | | | |
| AAC Starbuck | Secan | Feed | - | - | - | - | 75 | 1.51 | 84 | 1.73 |
| Means (mt/ac) | | | 100 | 1.92 | 100 | 1.98 | 100 | 2.03 | 100 | 2.06 |
| Station Years | | | 15 | | 11 | | 7 | | 3 | |

¹The more years a cultivar is tested, the more reliable the data

Table 2: BARLEY

Maritime agronomic characteristics (3 year average) 2016-2018

| Cultivar | Test Weight (kg/hl) | TKW ¹ (g) | Height (cm) | Lodging (0-9) ² | Heading (days) | Maturity (days) | Scald (0-9) ² | Net Blotch (0-9) ² | Mildew (0-9) ² | Smut (#/m ²) | DON (ppm) | Straw Yield (mt/ac) |
|-------------------------|---------------------|----------------------|-------------|----------------------------|----------------|-----------------|--------------------------|-------------------------------|---------------------------|--------------------------|-----------|---------------------|
| Six Row | | | | | | | | | | | | |
| AAC Mirabel | 59 | 42 | 82 | 1.4 | 59 | 84 | 1.4 | 2.7 | - | 0.0 | 0.2 | 1.05 |
| Rhea | 63 | 45 | 81 | 0.8 | 61 | 86 | 1.1 | 2.9 | - | 0.1 | 0.2 | 1.21 |
| AAC Montrose | - | - | - | - | - | - | - | - | - | - | - | - |
| Alyssa | - | - | - | - | - | - | - | - | - | - | - | - |
| Two Row | | | | | | | | | | | | |
| AAC Purpose | 64 | 53 | 84 | 1.1 | 60 | 85 | 1.9 | 3.6 | 0.0 | 0.0 | - | 1.30 |
| Island | 67 | 47 | 78 | 1.5 | 61 | 83 | 1.9 | 3.4 | 2.0 | 2.6 | - | 1.25 |
| Leader | 67 | 54 | 82 | 0.5 | 59 | 83 | 2.2 | 2.6 | 0.0 | 0.2 | - | 1.54 |
| Newdale | 64 | 43 | 70 | 0.8 | 65 | 82 | 1.2 | 1.7 | 0.0 | 0.0 | - | 1.05 |
| AAC Bell | 65 | 50 | 84 | 0.6 | 62 | 85 | 1.6 | 3.1 | 0.0 | 0.0 | - | 1.54 |
| AAC Ling | 65 | 52 | 79 | 0.4 | 61 | 85 | 1.8 | 3.3 | 0.0 | 0.2 | - | 1.66 |
| Champion | 66 | 49 | 72 | 0.6 | 62 | 85 | 1.7 | 1.9 | 0.0 | 0.7 | - | 1.21 |
| Two Row: Hulless | | | | | | | | | | | | |
| AAC Starbuck | - | - | - | - | - | - | - | - | - | - | - | - |
| Means | 64 | 48 | 79 | 0.9 | 61 | 84 | 1.6 | 2.8 | 0.3 | 0.4 | - | 1.30 |
| Station Years | 11 | 11 | 11 | 10 | 11 | 6 | 8 | 8 | 3 | 7 | - | 3 |

¹TKW = 1000 kernel weight

²0 = Good 9 = Poor

Table 3 : OATS**Maritime Cummulative Yield Summary¹ 2015-2018**

| Cultivar | Distributor | 4 years | | 3 years | | 2 years | | 2018 | |
|--------------------------|--------------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|
| | | % | (mt/ac) | % | (mt/ac) | % | (mt/ac) | % | (mt/ac) |
| Hulled | | | | | | | | | |
| AAC Nicolas ² | SeCan | 108 | 2.03 | 109 | 2.10 | 109 | 2.15 | 109 | 1.93 |
| AAC Oaklin | C&M Seeds | 101 | 1.91 | 102 | 1.96 | 103 | 2.03 | 103 | 1.83 |
| AAC Richmond | Semican | 103 | 1.93 | 103 | 1.99 | 103 | 2.04 | 101 | 1.79 |
| AC Dieter ² | SeCan | 97 | 1.82 | 97 | 1.87 | 98 | 1.94 | 99 | 1.75 |
| Adele | William Houde | 104 | 1.96 | 105 | 2.02 | 102 | 2.02 | 94 | 1.66 |
| Akina | Elite Seeds | 109 | 2.06 | 105 | 2.02 | 104 | 2.05 | 105 | 1.86 |
| Canmore ² | Semican | 104 | 1.96 | 105 | 2.02 | 106 | 2.09 | 107 | 1.89 |
| CDC Orrin ² | Semican | 107 | 2.01 | 108 | 2.08 | 106 | 2.10 | 110 | 1.95 |
| Kara | Elite Seeds | 107 | 2.01 | 105 | 2.02 | 104 | 2.05 | 103 | 1.83 |
| Nova | SeCan | 96 | 1.80 | 95 | 1.83 | 94 | 1.85 | 89 | 1.57 |
| Riley | C&M Seeds | 99 | 1.87 | 101 | 1.95 | 102 | 2.02 | 95 | 1.68 |
| AAC Banner | SeCan | - | - | - | - | 103 | 2.04 | 102 | 1.80 |
| CS Camden ² | Eastern Grains Inc | - | - | - | - | - | - | 112 | 1.98 |
| Hulled | | | | | | | | | |
| Shadow | SeCan | 65 | 1.23 | 65 | 1.26 | 67 | 1.33 | 70 | 1.24 |
| Means | | 100 | 1.88 | 100 | 1.93 | 100 | 1.98 | 100 | 1.77 |
| Station Years | | 12 | | 9 | | 6 | | 3 | |

¹ The more years a cultivar is tested, the more reliable the data² Milling potential

Table 4: OATS**Maritime agronomic characteristics (3 year average) 2016-2018**

| Cultivar | Test Weight (kg/hl) | TKW¹ (g) | Height (cm) | Lodging (0-9)² | Heading (days) | Maturity (days) | Hull (%) | Septoria (0-9)³ | Rust (0-9)³ | DON (ppm) | Straw Yield (mt/ac) |
|--------------------------|----------------------------|----------------------------|--------------------|----------------------------------|-----------------------|------------------------|-----------------|-----------------------------------|-------------------------------|------------------|----------------------------|
| Hulled | | | | | | | | | | | |
| AAC Nicolas ² | 46 | 35 | 96 | 2.7 | 66 | 90 | 27 | 6.7 | - | 0.6 | 1.90 |
| AAC Oaklin | 49 | 39 | 96 | 3.3 | 63 | 89 | 28 | 8.3 | - | 0.6 | 1.46 |
| AAC Richmond | 49 | 39 | 108 | 3.7 | 69 | 94 | 28 | 3.3 | - | 0.6 | 3.12 |
| AC Dieter ² | 48 | 39 | 102 | 2.6 | 65 | 89 | 27 | 6.7 | - | 0.8 | 2.14 |
| Adele | 47 | 37 | 100 | 3.4 | 62 | 88 | 24 | 8.3 | - | 0.8 | 1.54 |
| Akina | 46 | 38 | 90 | 1.9 | 62 | 90 | 28 | 7.7 | - | 0.8 | 1.66 |
| Canmore ² | 50 | 37 | 106 | 4.8 | 63 | 90 | 28 | 6.3 | - | 0.8 | 1.66 |
| CDC Orrin ² | 48 | 40 | 100 | 3.1 | 63 | 92 | 28 | 5.7 | - | 0.9 | 1.66 |
| Kara | 48 | 38 | 89 | 1.5 | 62 | 90 | 28 | 6.7 | - | 0.7 | 1.74 |
| Nova | 50 | 35 | 105 | 5.9 | 62 | 88 | 28 | 7.0 | - | 0.7 | 1.46 |
| Riley | 48 | 37 | 101 | 5.4 | 62 | 91 | 25 | 7.0 | - | 0.6 | 1.58 |
| AAC Banner | - | - | - | - | - | - | - | - | - | - | - |
| CS Camden ² | - | - | - | - | - | - | - | - | - | - | - |
| Hulless | | | | | | | | | | | |
| Shadow | 60 | 29 | 100 | 0.6 | 67 | 93 | 7.0 | 6.7 | - | 0.7 | 2.71 |
| Means | 49 | 37 | 99 | 3 | 64 | 90 | 25 | 7 | - | 1 | 2.02 |
| Station Years | 9 | 9 | 9 | 4 | 9 | 5 | 6 | 1 | - | 9 | 2 |

¹ TKW = 1000 kernel weight² Milling Potential³ 0 = Good 9 = Poor

Table 5 : SPRING WHEAT & TRITICALE
Maritime Cummulative Yield Summary¹ 2015-2018

| Cultivar | Distributor | Type | 4 years | | 3 years | | 2 years | | 2018 | |
|-------------------------|--------------------|---------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|
| | | | % | (mt/ac) | % | (mt/ac) | % | (mt/ac) | % | (mt/ac) |
| Spring Wheat | | | | | | | | | | |
| AAC Fairwind | C & M Seeds | Milling | 96 | 1.43 | 96 | 1.40 | 93 | 1.42 | 103 | 1.63 |
| AAC Scotia | Semican | Milling | 105 | 1.57 | 106 | 1.54 | 103 | 1.57 | 105 | 1.67 |
| AC Helena | Meadow Brook Farms | Milling | 100 | 1.50 | 101 | 1.47 | 101 | 1.55 | 106 | 1.68 |
| AC Walton | SeCan | Milling | 91 | 1.36 | 95 | 1.38 | 97 | 1.49 | 103 | 1.63 |
| Easton | C & M Seeds | Milling | 100 | 1.50 | 100 | 1.45 | 101 | 1.55 | 93 | 1.48 |
| Moka | Semican | Milling | 100 | 1.49 | 101 | 1.47 | 102 | 1.55 | 104 | 1.65 |
| Nass | SeCan | Feed | 87 | 1.30 | 91 | 1.33 | 93 | 1.42 | 101 | 1.61 |
| Rocket | Semican | Feed | 102 | 1.52 | 103 | 1.50 | 101 | 1.54 | 98 | 1.56 |
| Toundra | Semican | Milling | 93 | 1.38 | 90 | 1.31 | 88 | 1.34 | 96 | 1.53 |
| Dagon | Elite Seeds | Milling | - | - | 92 | 1.34 | 95 | 1.44 | 100 | 1.59 |
| Minot | Elite Seeds | Feed | - | - | - | - | 101 | 1.53 | 100 | 1.60 |
| Wilkin | C & M Seeds | Milling | - | - | - | - | - | - | 87 | 1.39 |
| Spring Triticale | | | | | | | | | | |
| Thauvex | Elite Seeds | Feed | 126 | 1.89 | 127 | 1.86 | 125 | 1.90 | 105 | 1.67 |
| Means (mt/ac) | | | 100 | 1.49 | 100 | 1.46 | 100 | 1.53 | 100 | 1.59 |
| Station Years | | | 15 | | 11 | | 7 | | 3 | |

¹The more years a culitvar is tested, the more reliable the data

Table 6: SPRING WHEAT & TRITICALE
Maritime agronomic characteristics (3 year average) 2016-2018

| Cultivar | Test Weight (kg/hl) | TKW ¹ (g) | Height (cm) | Lodging (0-9) ² | Heading (days) | Maturity (days) | Septoria (0-9) ² | Rust (0-9) ² | FHB Index ³ (%) | DON (ppm) | Straw Yield (mt/ac) |
|-------------------------|---------------------|----------------------|-------------|----------------------------|----------------|-----------------|-----------------------------|-------------------------|----------------------------|------------|---------------------|
| Spring Wheat | | | | | | | | | | | |
| AAC Fairwind | 76 | 33 | 92 | 1.8 | 59 | 92 | 5.1 | 3.4 | 10.8 | 0.3 | 1.01 |
| AAC Scotia | 77 | 36 | 101 | 2.1 | 61 | 91 | 5.1 | 2.2 | 3.2 | 0.3 | 1.09 |
| AC Helena | 76 | 36 | 90 | 1.8 | 58 | 89 | 4.4 | 4.4 | 25.5 | 0.5 | 0.89 |
| AC Walton | 76 | 35 | 93 | 1.3 | 59 | 90 | 5.3 | 2.3 | 14.3 | 0.4 | 0.93 |
| Easton | 77 | 33 | 76 | 1.4 | 63 | 93 | 4.0 | 0.8 | 22.0 | 0.5 | 1.09 |
| Moka | 78 | 41 | 90 | 2.6 | 57 | 89 | 4.8 | 0.9 | 0.3 | 0.4 | 1.13 |
| Nass | 75 | 32 | 94 | 2.1 | 60 | 91 | 4.6 | 3.1 | 15.7 | 0.5 | 1.05 |
| Rocket | 78 | 33 | 93 | 1.3 | 61 | 92 | 3.6 | 0.3 | 10.0 | 0.4 | 1.13 |
| Toundra | 79 | 36 | 98 | 1.5 | 58 | 91 | 5.1 | 2.9 | 7.5 | 0.3 | 0.97 |
| Dagon | 75 | 32 | 77 | 0.7 | 62 | 92 | 4.3 | 15.3 | 2.6 | 0.3 | 0.85 |
| Minot | - | - | - | - | - | - | - | - | - | - | - |
| Wilkin | - | - | - | - | - | - | - | - | - | - | - |
| Spring Triticale | | | | | | | | | | | |
| Thauvex | 63 | 41 | 106 | 1.1 | 59 | 97 | 2.7 | 0.1 | 21.5 | 1.4 | 1.58 |
| Means | 75 | 35 | 92 | 1.6 | 60 | 92 | 4.5 | 3.2 | 12.1 | 0.5 | 1.05 |
| Station Years | 11 | 11 | 11 | 6 | 11 | 7 | 5 | 5 | 2 | 11 | 4 |

¹ TKW = 1000 kernel weight

² 0 = Good 9 = Poor

³ FHB Index: Fusarium Head Blight Index; the lower the number the better.

Table 7 : WINTER WHEAT
Maritime Cumulative Yield Summary¹ 2015-2018

| Cultivar | Distributor | Type | 4 years | | 3 years | | 2 years | | 2018 | |
|----------------------|-------------------|---------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|
| | | | % | (mt/ac) | % | (mt/ac) | % | (mt/ac) | % | (mt/ac) |
| Winter Wheat | | | | | | | | | | |
| AC Sampson | Meadowbrook Farms | Milling | 83 | 1.71 | 83 | 1.81 | 95 | 2.04 | 104 | 2.19 |
| Cruze | C & M Seeds | Feed | 108 | 2.23 | 106 | 2.31 | 111 | 2.37 | 111 | 2.35 |
| Priesley | C & M Seeds | Milling | 108 | 2.22 | 107 | 2.31 | 107 | 2.29 | 99 | 2.09 |
| UGRC Ring | Elite Seeds | Pastry | - | | 104 | 2.25 | 107 | 2.29 | 96 | 2.03 |
| Drew | C & M Seeds | Feed | - | | - | | 82 | 1.77 | 83 | 1.74 |
| Lexington | C & M Seeds | Milling | - | | - | | 98 | 2.10 | 91 | 1.92 |
| Pioneer 25R40 | Dupont Pioneer | Feed | - | | - | | - | | 116 | 2.44 |
| Means (mt/ac) | | | 100 | 2.05 | 100 | 2.17 | 100 | 2.14 | 100 | 2.11 |
| Station Years | | | | | | | | | | |

¹ The more years a cultivar is tested, the more reliable the data

Table 8: WINTER WHEAT

Maritime agronomic characteristics (3 year average) 2016-2018

| Cultivar | Test Weight (kg/hl) | TKW ¹ (g) | Height (cm) | Lodging (0-9) ² | Heading ³ (days) | Maturity ³ (days) | Winter Survival (%) | Septoria (0-9) ² | Rust (0-9) ² | DON (ppm) | Mildew (0-9) ² | Straw Yield (mt/ac) |
|---------------------|---------------------|----------------------|-------------|----------------------------|-----------------------------|------------------------------|---------------------|-----------------------------|-------------------------|------------|---------------------------|---------------------|
| Winter Wheat | | | | | | | | | | | | |
| AC Sampson | 76 | 38 | 94 | 0.2 | 20 | 60 | 96 | 5.2 | 2.6 | 0.4 | 1.7 | 1.66 |
| Cruze | 78 | 37 | 87 | 0.5 | 15 | 60 | 96 | 5.1 | 1.4 | 0.4 | 1.7 | 1.82 |
| Priesley | 76 | 42 | 86 | 0.2 | 17 | 60 | 89 | 3.0 | 0.1 | 0.4 | 0.9 | 1.78 |
| UGRC Ring | 76 | 40 | 92 | 0.2 | 15 | 58 | 92 | 4.8 | 1.3 | 0.2 | 2.7 | 1.82 |
| Drew | - | - | - | - | - | - | - | - | - | - | - | - |
| Lexington | - | - | - | - | - | - | - | - | - | - | - | - |
| Pioneer 25R40 | - | - | - | - | - | - | - | - | - | - | - | - |
| Means | 76 | 39 | 90 | 0.3 | 17 | 60 | 93 | 4.5 | 1.4 | 0.4 | 1.8 | 1.78 |
| Station Years | 9 | 9 | 9 | 3 | 9 | 4 | 9 | 6 | 5 | 7 | 8 | 4 |

¹ TKW = 1000 kernel weight

² 0 = Good 9 = Poor

³After May 31st

Distributors

| | | |
|--------------------|------------------|--|
| Bramhill Seeds | 1 (877) 343-3630 | carl@bramhillseeds.com |
| C & M Seeds | 1 (888) 733-9432 | info@redwheat.com |
| DuPont Pioneer | (902) 599 -3010 | colin.brown@pioneer.com |
| Eastern Grain Inc. | (506) 473-6661 | eric@easterngrains.ca |
| McCardle Seeds Inc | 1(866) 553-5050 | mccardlebros@pei.aibn.com |
| Meadowbrook Farms | (902) 628-9292 | info@meadowbrookfarms.net |
| Secan | (613) 592-8600 | seed@secan.com |
| Elite Seeds | (902) 432-0375 | kevin.mccarville@eliteseeds.ca |
| Semican | (819) 362-8823 | semican@semican.ca |
| William Houde | 1(800) 663-0064 | www.williamhoude.com |