

2024 CORN GUIDE FOR THE MARITIME PROVINCES

GUIDE DU MAÏS 2024 pour les Maritimes

MARITIME GRAIN CORN HYBRID PERFORMANCE LIST

Performance des hybrides de maïs-grain aux Maritimes

| HYBRID HYBRIDES | CHU | SPECIAL TRAITS | SITE YEARS | 3-YEARS/ANS | | | | 2-YEARS /ANS | | | | 2023 | | | |
|---------------------------------|------|-----------------|-----------------|-------------------------------------|------------------------|--------------------------|-------------------|-------------------------------------|------------------------|--------------------------|-------------------|-------------------------------------|------------------------|--------------------------|-------------------|
| | UTM | TRAITS Spéciaux | STATIONS ANNÉES | Yield @ 15.5% Moisture | Grain Moisture Content | Test Weight | Stalk Breakage | Yield @ 15.5% Moisture | Grain Moisture Content | Test Weight | Stalk Breakage | Yield @ 15.5% Moisture | Grain Moisture Content | Test Weight | Stalk Breakage |
| | | | | Rendement à 15.5% d'humidité (t/ha) | Humidité (%) | Poids spécifique (kg/hL) | Tiges brisées (%) | Rendement à 15.5% d'humidité (t/ha) | Humidité (%) | Poids spécifique (kg/hL) | Tiges brisées (%) | Rendement à 15.5% d'humidité (t/ha) | Humidité (%) | Poids spécifique (kg/hL) | Tiges brisées (%) |
| P7574AM (PIONEER) | 2150 | HX1, YGCB, RR2 | 15 | 10.01 | 21.77 | 68.92 | 5.48 | 9.64 | 21.31 | 68.74 | 8.10 | 9.85 | 23.10 | 68.54 | 1.70 |
| DLF 2158VT2P RIB (DLF PICKSEED) | 2175 | GENVT2P | 5 | | | | | | | | | 11.22 | 23.44 | 67.80 | 0.40 |
| P7844AM (PIONEER) | 2225 | HX1, YGCB, RR2 | 15 | 11.16 | 24.20 | 67.39 | 2.81 | 10.40 | 23.25 | 67.29 | 3.90 | 10.08 | 26.14 | 66.07 | 3.20 |
| DLF2210VT2P RIB (DLF PICKSEED) | 2225 | GENVT2P | 39 | 10.18 | 24.27 | 66.94 | 2.36 | 9.32 | 23.24 | 67.07 | 3.50 | 9.02 | 27.54 | 64.78 | 0.00 |
| MZ 1544DBR (MAIZEX) | 2250 | VT2P | 15 | 11.48 | 23.67 | 65.85 | 4.45 | 10.90 | 22.29 | 66.15 | 6.60 | 10.28 | 25.40 | 64.49 | 1.80 |
| A4646G2 RIB (PRIDE) | 2300 | VT2P | 35 | 10.72 | 23.09 | 68.00 | 6.38 | 10.24 | 21.82 | 67.73 | 9.50 | 10.04 | 25.20 | 66.98 | 2.50 |
| P7955AM (PIONEER) | 2300 | HX1, YGCB, RR2 | 30 | 10.51 | 23.81 | 69.90 | 6.31 | 10.074 | 23.24 | 69.58 | 9.30 | 9.51 | 25.34 | 68.55 | 2.40 |
| MZ 1688DBR (MAIZEX) | 2300 | VT2P | 30 | 11.42 | 23.44 | 68.19 | 4.05 | 11.04 | 21.99 | 68.23 | 6.00 | 10.92 | 25.92 | 66.86 | 0.90 |
| B79H45AM (BREVANT) | 2300 | HX1, YGBC, RR2 | 15 | 11.53 | 24.42 | 66.37 | 8.22 | 10.94 | 23.93 | 66.26 | 12.30 | 10.28 | 25.94 | 65.00 | 6.40 |
| DKC30-63RIB (DEKALB) | 2325 | VT2P | 15 | 10.16 | 24.07 | 67.81 | 3.57 | 9.52 | 23.18 | 67.57 | 5.30 | 9.07 | 27.26 | 66.49 | 1.30 |
| NK7837-V (SYNGENTA) | 2350 | Vip | 25 | 10.27 | 24.79 | 69.39 | 2.43 | 10.24 | 23.68 | 69.26 | 3.30 | 9.63 | 26.82 | 67.72 | 3.30 |
| A4939G2 RIB (PRIDE) | 2400 | VT2P | 39 | 11.61 | 23.51 | 66.86 | 5.06 | 11.04 | 22.38 | 66.92 | 7.40 | 10.68 | 25.56 | 65.66 | 0.20 |
| B82R52 (BREVANT) | 2400 | HX1, YGCB, RR2 | 30 | 11.43 | 26.07 | 65.59 | 5.95 | 10.98 | 25.08 | 65.81 | 8.40 | 11.00 | 27.80 | 64.10 | 2.10 |
| MZ 2266DBR | 2450 | VT2P | 10 | | | | | 10.57 | 23.26 | 68.51 | 6.00 | 11.07 | 27.24 | 67.58 | 0.40 |
| DLF2562VT2P RIB (DLF PICKSEED) | 2475 | GENVT2P | 25 | 11.65 | 26.82 | 65.87 | 4.81 | 11.26 | 25.75 | 65.61 | 7.00 | 11.40 | 29.34 | 64.27 | 0.60 |
| NK8204-V (SYNGENTA) | 2550 | Vip | 25 | 10.44 | 27.07 | 65.72 | 2.33 | 9.69 | 26.49 | 65.33 | 3.20 | 9.16 | 31.04 | 63.02 | 1.10 |
| MZ 2452DUR (MAIZEX) | 2550 | DUR | 15 | 12.38 | 28.33 | 65.38 | 4.54 | 11.73 | 27.71 | 65.31 | 6.80 | 11.36 | 31.96 | 63.38 | 2.20 |
| GRAND MEAN | | | | 10.94 | 24.79 | 67.33 | 4.66 | 10.38 | 23.62 | 67.47 | 6.80 | 10.01 | 26.13 | 67.18 | 1.82 |

Special Traits:

AM= AcreMax insect protection / Protection insecte AcreMax

RR or RR2 = Roundup Ready herbicide tolerance / Hybride Roundup Ready

VIP = Viptera insect protection / Protection insecte Viptera

DUR = Agrisure Duracade insect protection / Protection insecte Agrisure Duracade

VT2P = VT DoublePro insect protection / Protection insecte VT DoublePro

HX1 = Herculex 1 insect protection / Protection insecte Herculex

YGCB = Yieldguard Corn Borer insect protection / Protection insecte Yieldguard

MARITIME SILAGE CORN HYBRID PERFORMANCE LIST

Performance des hybrides de maïs-ensilage aux Maritimes

| HYBRID | CHU | Special Traits | Site Years | 3-YEARS/ANS | | | 2-YEARS/ANS | | | 2023 | | |
|---------------------|------|-----------------|-----------------|------------------------|------------------|-------------------|------------------------|------------------|-------------------|------------------------|------------------|-------------------|
| | | | | Dry Matter Plant Yield | Plant Dry Matter | Stalk Breakage | Dry Matter Plant Yield | Plant Dry Matter | Stalk Breakage | Dry Matter Plant Yield | Plant Dry Matter | Stalk Breakage |
| HYBRIDES | UTM | Traits SPÉCIAUX | Stations années | Rendement (t/ha) | Humidité (%) | Tiges brisées (%) | Rendement (t/ha) | Humidité (%) | Tiges brisées (%) | Rendement (t/ha) | Humidité (%) | Tiges brisées (%) |
| MS 8022R (MAIZEX) | 2225 | RR2 | 15 | 18.17 | 36.33 | 10.6 | 17.36 | 36.36 | 14.60 | 17.06 | 34.40 | 10.64 |
| B79H45AM (BREVANT) | 2300 | HX1, YGCB, RR2 | 15 | 16.90 | 38.35 | 10.20 | 15.79 | 39.0 | 14.90 | 15.75 | 36.40 | 10.38 |
| B82R52AM (BREVANT) | 2400 | HX1, YGCB, RR2 | 20 | 17.25 | 37.83 | 8.20 | 16.05 | 38.20 | 11.90 | 15.49 | 34.64 | 5.56 |
| P8294AM (PIONEER) | 2400 | HX1, YGCB, RR2 | 15 | 18.44 | 37.50 | 5.80 | 16.58 | 37.29 | 8.70 | 16.93 | 34.70 | 2.04 |
| MZ 2452DUR (MAIZEX) | 2550 | DUR | 15 | 19.53 | 35.81 | 3.70 | 18.14 | 35.94 | 7.10 | 18.03 | 32.88 | 1.36 |
| NK8618-D (SYNGENTA) | 2650 | DUR | 15 | 18.99 | 34.98 | 4.60 | 17.61 | 35.00 | 6.80 | 17.40 | 32.14 | 2.68 |
| GRAND MEAN | | | | 17.34 | 36.78 | 6.90 | 16.46 | 37.11 | 10.30 | 16.21 | 34.46 | 4.76 |

Corn testing contributions in 2023 were made by Charlottetown Research and Development Centre, Agriculture & Agri Food Canada, Perennia Food and Agriculture, New Brunswick Department of Agriculture, Aquaculture and Fisheries and NB Soil & Crop Improvement Association. The 2024 Maritime Corn Hybrid Testing Report has been prepared by Perennia on behalf of the Maritime Corn Performance Committee and is posted at <https://atlanticgrainscouncil.ca/variety-cultivars/>

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Performance Index System and Criteria for Inclusion on the Performance List

A combined yield/maturity index called the Performance Index (PI) is calculated for each hybrid in each trial. The PI is compared to a standard which is made up of the average yield and maturity levels of three early and three late standards. This system allows for each hybrid to be compared to the standard and minimizes the influence of yearly fluctuations in weather and environmental factors since both the standards and test hybrids experience the same conditions at each location. The PI is averaged across all sites for each hybrid and measured against the criteria for inclusion on the performance list. The PI for each individual site can be found in the full report. (<https://atlanticgrainscouncil.ca/>)

Performance Index values below 100 are inferior and those above 100 are superior to the boundaries established by the yield and maturity levels of the standard hybrids on a yield versus maturity graph. Grain and/or silage hybrids may be listed when they meet any of the following criteria and have acceptable levels for stalk breakage, emergence, and other characteristics:

1. A cumulative performance index level of **105.0 or greater** with 1 year's testing (minimum 4 site years) – exceptional yield and maturity.
2. A cumulative performance index level of **100.0 or greater** with 2 year's testing (minimum 7 site years) – average or greater yield and maturity.
3. A relative maturity level of **100 + Y or greater** and a relative yield level of **100 – Y or greater** (minimum 7 site years) – high yielding and high moisture (later maturing).
4. A relative maturity level of **96.0 or greater** and a relative yield level of **105.0 or greater** (minimum 7 site years) – low moisture (early maturing) and moderate yield.

Further information on criteria for inclusion or retesting and unacceptable hybrid performance can be found in the full report (<https://atlanticgrainscouncil.ca/>)