

# 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 Rendement à 15.5% d'humidité (t/ha)	Grain Moisture Content Humidité (%)	Test Weight Poids spécifique (kg/hL)	Stalk Breakage Tiges brisées (%)	Yield @ 15.5% Moisture Rendement à 15.5% d'humidité (t/ha)	Grain Moisture Content Humidité (%)	Test Weight Poids spécifique (kg/hL)	Stalk Breakage Tiges brisées (%)	Yield @ 15.5% Moisture Rendement à 15.5% d'humidité (t/ha)	Grain Moisture Content Humidité (%)	Test Weight Poids spécifique (kg/hL)	Stalk Breakage 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
<b>GRAND MEAN</b>				<b>10.94</b>	<b>24.79</b>	<b>67.33</b>	<b>4.66</b>	<b>10.38</b>	<b>23.62</b>	<b>67.47</b>	<b>6.80</b>	<b>10.01</b>	<b>26.13</b>	<b>67.18</b>	<b>1.82</b>

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
<b>GRAND MEAN</b>				<b>17.34</b>	<b>36.78</b>	<b>6.90</b>	<b>16.46</b>	<b>37.11</b>	<b>10.30</b>	<b>16.21</b>	<b>34.46</b>	<b>4.76</b>

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/>)