

2023 CORN GUIDE FOR THE MARITIME PROVINCES

GUIDE DU MAÏS 2023 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				2022			
	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 (%)
E44H12 R (MAIZEX)	2100	VT2P	15	9.48	21.3	72.9	6.5	9.73	21.2	73.4	6.2	9.37	18.7	73.5	11.6
PS2192VT2P (PICKSEED)	2150	GENVT2P	10					10.68	21.5	72.1	5.4	9.85	19.0	72.6	10.8
P7574AM (CORTEVA)	2150	HX1, YGCB, RR2	10					10.09	21.1	69.1	7.4	9.43	19.5	69.0	14.5
A4323G2 RIB (PRIDE)	2200	VT2P	15	9.90	21.2	72.5	8.0	10.25	21.3	72.8	8.9	9.48	18.6	73.1	17.7
PS2210VT2P RIB (PICKSEED)	2225	GENVT2P	15	10.31	22.4	68.1	3.0	10.76	22.6	68.0	3.5	9.614	18.9	69.4	7.0
P7844AM (CORTEVA)	2225	HX1, YGCB, RR2	10					11.70	23.2	68.0	2.6	10.72	20.4	68.5	4.7
MZ 1544DBR (MAIZEX)	2250	VT2P	10					12.08	22.8	66.5	5.8	11.53	19.2	67.8	11.4
MZ 1688DBR (MAIZEX)	2300	VT2P	15	11.07	22.2	68.6	5.0	11.67	22.2	68.9	5.6	11.15	18.1	69.6	11.1
A4646G2 RIB (PRIDE)	2300	VT2P	15	10.55	21.9	68.4	6.9	11.05	22.0	68.5	8.3	10.43	18.4	68.5	16.5
P7955AM (CORTEVA)	2300	HX1, YGCB, RR2	15	10.58	23.0	70.0	9.2	11.01	23.0	70.6	8.3	10.62	21.1	70.6	16.3
B79H45AM (CORTEVA)	2300	HX1, YGCB, RR2	10	10.55	25.7	66.6	2.4	12.16	23.7	67.1	9.1	11.6	21.9	67.5	18.2
DKC30-63RIB (DEKALB)	2325	VT2P	10					10.71	22.5	68.5	4.7	9.96	19.1	68.6	9.3
PS 2321VT2P (PICKSEED)	2325	GENVT2P	14	10.16	25.6	69.2	7.8	10.87	25.3	68.6	8.6	10.34	22.9	69.1	15.9
NK7837-V (SYNGENTA)	2350	VIP	15	10.06	25.0	68.2	4.3	10.59	23.8	70.2	2.0	10.85	20.5	70.8	3.2
A4939G2 RIB (PRIDE)	2400	VT2P	15	11.45	22.7	67.2	8.3	12.08	22.5	67.5	7.5	11.39	19.2	68.2	14.7
B82R52 (CORTEVA)	2400	HX1, YGCB, RR2	15	11.25	26.2	65.9	7.0	11.65	25.2	66.3	7.8	10.97	22.4	67.5	14.6
DKC 31-85PRIB (DEKALB)	2425	VT2P	10					11.49	22.5	67.2	4.4	10.49	19.6	67.9	8.7
PS2562VT2P RIB (PICKSEED)	2475	GENVT2P	15	11.39	25.7	66.5	6.5	11.77	25.6	66.7	6.9	11.12	22.2	66.9	13.5
NK8204-V (SYNGENTA)	2550	VIP	15	10.09	23.9	70.2	2.5	11.08	25.1	67.1	2.9	10.22	21.9	67.6	5.3
MZ 2452DUR (MAIZEX)	2550	DUR	10					12.89	26.5	66.4	5.7	12.10	23.5	67.2	11.4
GRAND MEAN				10.53	23.6	68.8	6.0	11.18	23.3	68.6	5.9	10.51	20.2	69.4	11.2

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			2022		
				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 (%)
AS1017RR EDF (PRIDE)	2150	RR	15	18.64	41.0	9.0	18.25	40.4	12.9	16.23	40.7	22.4
MS 8022R (MAIZEX)	2225	RR2	15	19.17	37.3	7.2	18.72	37.3	10.5	17.65	38.3	18.6
A4705HMRR (PRIDE)	2300	RR	15	18.16	37.3	7.4	17.53	37.2	10.6	16.05	39.5	18.7
B79H45AM (CORTEVA)	2300	HX1, YGCB, RR2	10				17.48	39.3	10.2	15.83	41.6	19.5
AS1027RR EDF (PRIDE)	2350	RR	15	19.96	39.3	8.4	19.64	38.9	12.2	16.89	39.6	22.2
P8294AM (CORTEVA)	2400	HX1, YGCB, RR2	10				19.19	38.9	7.7	16.24	39.9	15.3
B82R52AM (CORTEVA)	2400	HX1, YGCB, RR2	15	18.07	38.8	6.6	18.13	39.4	9.6	16.61	41.8	18.3
MZ 2452DUR (MAIZEX)	2550	DUR	10				20.29	37.3	5.9	18.25	39.0	11.8
NK8618-D (SYNGENTA)	2650	DUR	10				19.79	36.4	5.6	17.82	37.9	11.0
GRAND MEAN				17.98	38.3	6.7	17.68	38.3	8.3	16.28	40.1	15.2

Corn testing contributions in 2022 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 2023 Maritime Corn Hybrid Testing Report has been prepared by Perennia on behalf of the Maritime Corn Performance Committee.

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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 verses 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/>)