



Agriculture
and Land









2021

MARITIME CEREAL CULTIVARS PERFORMANCE TRIALS (2017 – 2020)

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By:
Sub-Committee of the
Atlantic Recommending Committee for Cereal Crop

Table 1: BARLEY
Maritime Cumulative Yield Summary 2017 – 2020⁽¹⁾

Cultivar	Distributor	Type / Class ⁽²⁾	4 Year		3 Year		2 Year		2020	
			%	t/ac	%	t/ac	%	t/ac	%	t/ac
AAC Mirabel	SeCan	F / 6R	97	1.76	96	1.65	91	1.48	91	1.25
Rhea	Elite Seeds	F / 6R	97	1.77	96	1.66	94	1.52	104	1.42
AAC Bloomfield 	Elite Seeds	F / 6R	-	-	95	1.64	93	1.51	100	1.37
Rafale	Semican	F / 6R	-	-	-	-	-	-	106	1.46
AC Legend	SeCan	F / 6R	-	-	-	-	-	-	92	1.26
AAC Bell 	SeCan	F / 2R	107	1.95	110	1.90	109	1.78	109	1.49
AAC Goldman 	Elite Seeds	M / 2R	95	1.72	95	1.63	96	1.56	99	1.35
AAC Ling 	SeCan	F / 2R	108	1.96	110	1.90	109	1.77	106	1.44
AAC Madawaska 	Eastern Grains Inc	F / 2R	104	1.89	105	1.80	102	1.65	101	1.26
AAC Purpose 	Snobelen Farms	F / 2R	105	1.91	107	1.85	109	1.76	110	1.50
Champion 	Semican	F / 2R	105	1.90	105	1.80	102	1.65	92	1.26
Island	McCardle Bros	F / 2R	98	1.77	99	1.71	99	1.61	94	1.28
Leader	NB: Eastern Grains Inc PEI: McCardle Bros	F / 2R	106	1.93	107	1.85	108	1.75	107	1.46
AAC Synergy 	Semican	M / 2R	-	-	-	-	105	1.70	103	1.41
AAC Starbuck ⁽³⁾	SeCan	F / 2R	78	1.42	76	1.31	83	1.34	87	1.19
Means (t/ac)			100	1.82	100	1.73	100	1.62	100	1.37
Station Years			15		11		8		4	

⁽¹⁾ Data reliability increases with the number of trial years









⁽²⁾ F = Feed, M = Malt, 2R = 2 row, 6R = 6 row

⁽³⁾ Hulless variety



Plant Breeders' Right under legislation of PBR 78 or 91 (<https://pbrfacts.ca>)

Table 2: BARLEY
Maritime Agronomic Characteristics Averages 2018-2020

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⁾	DON ⁽⁴⁾ (ppm)	Straw Yield (t/ac)
AAC Mirabel	58	40	82	2.6	55	81	1.6	1.7	0.2	-
Rhea	61	41	80	1.9	57	82	1.0	1.4	0.2	-
AAC Bloomfield 	61	42	89	2.9	54	80	1.0	1.4	0.2	-
Rafale	-	-	-	-	-	-	-	-	-	-
AC Legend	-	-	-	-	-	-	-	-	-	-
AAC Bell 	64	48	85	1.3	57	77	2.2	2.1	0.2	-
AAC Goldman 	60	42	77	1.9	59	77	2.0	1.0	0.2	-
AAC Ling 	63	49	79	1.7	56	78	2.1	2.2	0.2	-
AAC Madawaska 	66	46	80	0.8	55	77	2.1	1.7	0.2	-
AAC Purpose 	61	50	85	2.5	55	78	2.4	2.6	0.2	-
Champion 	63	44	73	1.8	57	78	2.2	1.0	0.2	-
Island	65	45	78	2.2	55	75	2.4	2.0	0.1	-
Leader	66	51	83	1.4	54	76	2.9	1.9	0.2	-
AAC Synergy 	-	-	-	-	-	-	-	-	-	-
AAC Starbuck	73	45	83	2.1	57	78	2.6	3.5	0.2	-
Means	63	45	81	1.9	56	78	2.0	1.9	0.2	-
Station Years	11	11	11	11	9	6	6	6	3	-

⁽¹⁾ Thousand kernel weight

⁽²⁾ Rating 0-9. A high score is undesirable










⁽³⁾ Hullless variety

⁽⁴⁾ Deoxynivalenol



Plant Breeders' Right under legislation of PBR 78 or 91 (<https://pbrfacts.ca>)

Table 3: OATS
Maritime Cumulative Yield Summary 2017 – 2020⁽¹⁾










Cultivar	Distributor	Type	4 Year		3 Year		2 Year		2020	
			%	t/ac	%	t/ac	%	t/ac	%	t/ac
AAC Banner 	SeCan	Milling	100	1.84	96	1.70	95	1.64	96	1.32
AAC Nicolas 	SeCan	Milling	105	1.93	102	1.79	99	1.72	100	1.38
AAC Oaklin	C & M Seeds	Feed	100	1.85	98	1.72	96	1.66	93	1.29
Akina 	Elite Seeds	Milling	107	1.97	107	1.88	109	1.89	99	1.36
Canmore	Semican	Milling	108	2.00	108	1.90	110	1.91	107	1.47
CDC Orrin 	Semican	Milling	106	1.94	105	1.84	103	1.78	107	1.48
Kara 	Elite Seeds	Feed	106	1.95	105	1.85	108	1.86	100	1.38
Nova	SeCan	Feed	98	1.80	96	1.69	101	1.75	101	1.39
Riley	C & M Seeds	Feed	101	1.86	97	1.70	99	1.71	102	1.41
CS Camden 	Eastern Grains Inc	Milling	-	-	109	1.91	108	1.87	96	1.33
Kalio 	Elite Seeds	Feed	-	-	109	1.91	105	1.81	110	1.51
AAC Excellence	Eastern Grains Inc	Milling	-	-	-	-	97	1.67	108	1.48
CDC Arborg 	Semican	Milling	-	-	-	-	-	-	111	1.53
Shadow ⁽²⁾ 	SeCan	Feed	68	1.26	69	1.21	69	1.19	70	0.96
Means (t/ac)			100	1.84	100	1.76	100	1.73	100	1.38
Station Years			12		9		6		3	

⁽¹⁾ Data reliability increases with the number of trial years

⁽²⁾ Hulless variety

  Plant Breeders' Right under legislation of PBR 78 or 91 (<https://pbrfacts.ca>)

Table 4: OATS
Maritime Agronomic Characteristics Averages 2018-2020

Cultivar	Test Weight (kg/hL)	TKW ⁽¹⁾ (g)	Height (cm)	Lodging 0-9 ⁽²⁾	Heading (days)	Maturity (days)	Hull (%)	Septoria 0-9 ⁽²⁾	Rust 0-9 ⁽²⁾	DON ⁽³⁾ (ppm)	Straw Yield (t/ac)
AAC Banner 	43	30	93	1.8	61	85	25	2.8	-	0.7	-
AAC Nicolas 	43	32	94	1.6	63	82	25	3.3	-	0.4	-
AAC Oaklin	47	35	98	4.2	60	82	25	4.2	-	0.5	-
Akina 	44	35	90	1.5	59	82	26	3.8	-	0.5	-
Canmore	46	35	105	2.2	60	82	25	3.2	-	0.5	-
CDC Orrin 	45	35	102	3.1	60	85	25	2.8	-	0.6	-
Kara 	45	35	90	0.9	59	82	26	3.3	-	0.6	-
Nova	47	32	106	6.0	59	82	25	3.5	-	0.5	-
Riley	46	34	102	3.7	60	83	23	3.7	-	0.5	-
CS Camden 	45	36	92	0.1	59	80	27	4.0	-	0.7	-
Kalio 	45	35	97	1.9	59	82	26	3.5	-	0.6	-
AAC Excellence	-	-	-	-	-	-	-	-	-	-	-
CDC Arborg 	-	-	-	-	-	-	-	-	-	-	-
Shadow ⁽⁴⁾ 	57	26	97	0.1	62	83	7	3.3	-	0.6	-
Means	46	33	97	2.3	60	83	24	3	-	0.6	-
Station Years	9	9	9	4	8	5	7	2	-	5	-

⁽¹⁾ Thousand kernel weight










⁽²⁾ Rating 0-9. A high score is undesirable

⁽³⁾ Deoxynivalenol

⁽⁴⁾ Hulless variety

 Plant Breeders' Right under legislation of PBR 78 or 91 (<https://pbrfacts.ca>)










Table 5: SPRING WHEAT & TRITICALE
Maritime Cumulative Yield Summary 2017 – 2020⁽¹⁾

Cultivar	Distributor	Type	4 Year		3 Year		2 Year		2020	
			%	t/ac	%	t/ac	%	t/ac	%	t/ac
Spring Wheat										
AAC Fairwind 	C & M Seeds	Milling	95	1.48	101	1.56	99	1.53	108	1.21
AAC Scotia 	Semican	Milling	101	1.56	102	1.58	100	1.55	112	1.25
AC Helena	Meadow Brook Farms	Milling	98	1.53	101	1.56	97	1.51	101	1.13
AC Walton	SeCan	Milling	97	1.50	100	1.55	97	1.51	93	1.05
Dagon 	Elite Seeds	Milling	90	1.40	92	1.43	88	1.36	71	0.80
Easton 	C & M Seeds	Milling	99	1.54	98	1.52	99	1.54	104	1.16
Raven 	C & M Seeds	Milling	104	1.61	102	1.59	104	1.62	117	1.32
Rocket	Semican	Feed	99	1.53	99	1.53	98	1.53	99	1.11
Minot 	Elite Seeds	Feed	94	1.46	93	1.45	89	1.39	93	1.04
Wilkin 	C & M Seeds	Milling	-	-	92	1.42	92	1.43	90	1.00
AAC Maurice 	SeCan	Milling	-	-	-	-	92	1.43	89	1.00
Spring Triticale										
Thauvex 	Elite Seeds	Feed	124	1.92	120	1.87	125	1.94	107	1.20
Circuit	Ferme Casault Inc	Feed	-	-	-	-	120	1.87	117	1.31
Means (t/ac)			100	1.55	100	1.55	100	1.55	100	1.12
Station Years			15		11		8		4	

⁽¹⁾ Data reliability increases with the number of trial years

  Plant Breeders' Right under legislation of PBR 78 or 91 (<https://pbrfacts.ca>)

Table 6: SPRING WHEAT & TRITICALE
Maritime Agronomic Characteristics Averages 2018-2020

Cultivar	Test Weight (kg/hL)	TKW ⁽¹⁾ (g)	Height (cm)	Lodging 0-9 ⁽²⁾	Heading (days)	Maturity (days)	Powdery Mildew 0-9 ⁽²⁾	Septoria 0-9 ⁽²⁾	FHB ⁽³⁾ 0-9 ⁽²⁾	DON ⁽⁴⁾ (ppm)	Straw Yield (t/ac)
Spring Wheat											
AAC Fairwind 	76	33	99	0.4	55	82	0.5	1.4	6.1	0.3	-
AAC Scotia 	74	35	103	1.8	56	82	0.1	1.6	1.0	0.2	-
AC Helena	74	35	91	1.1	54	82	0.3	1.3	7.3	0.3	-
AC Walton	73	34	95	0.7	55	82	1.7	2.0	3.1	0.2	-
Dagon 	75	31	82	0.9	58	84	1.4	1.6	2.6	0.3	-
Easton 	76	32	82	0.2	59	85	0.0	1.4	4.4	0.3	-
Raven 	77	35	90	0.9	56	82	0.7	1.6	4.0	0.2	-
Rocket	76	31	95	0.4	57	82	1.1	1.2	3.3	0.3	-
Minot 	73	34	94	0.9	55	82	1.3	1.7	5.3	0.3	-
Wilkin 	74	31	81	0.7	53	82	0.4	2.1	7.2	0.3	-
AAC Maurice 	-	-	-	-	-	-	-	-	-	-	-
Spring Triticale											
Thauvex 	61	34	106	0.3	55	89	0.0	1.1	4.2	0.5	-
Circuit	-	-	-	-	-	-	-	-	-	-	-
Means	73	33	93	0.8	56	83	0.7	1.5	4.4	0.3	-
Station Years	11	11	11	8	9	6	3	3	-	5	-

⁽¹⁾ Thousand kernel weight

⁽²⁾ Rating 0-9. A high score is undesirable












⁽³⁾ Fusarium Head Blight Index. A high score is undesirable

⁽⁴⁾ Deoxynivalenol



Plant Breeders' Right under legislation of PBR 78 or 91 (<https://pbrfacts.ca>)

**Table 7: WINTER WHEAT
Maritime Cumulative Yield Summary 2017 – 2020⁽¹⁾**












Cultivar	Distributor	Type	4 Year		3 Year		2 Year		2020	
			%	t/ac	%	t/ac	%	t/ac	%	t/ac
25R64 	Pioneer	Pastry	94	1.88	105	1.92	111	1.72	110	1.95
25R61 	Pioneer	Pastry	95	1.91	100	1.83	95	1.47	90	1.59
25R74 	Pioneer	Pastry	104	2.08	98	1.79	97	1.51	98	1.74
AC Sampson	Meadowbrook Farms	Milling	93	1.85	100	1.84	101	1.57	94	1.68
B654SRW 	Brevant Seeds	Pastry	118	2.37	117	2.14	114	1.78	112	1.99
Cruze	C & M Seeds	Pastry	106	2.12	109	2.00	112	1.75	102	1.82
Lexington	C & M Seeds	Milling	91	1.83	89	1.63	91	1.42	87	1.55
Priesley	C & M Seeds	Milling	100	2.00	97	1.78	100	1.55	108	1.91
UGRC Ring 	Elite Seeds	Pastry	99	1.99	95	1.74	98	1.52	97	1.72
PRO81 	C & M Seeds	Milling	-	-	88	1.62	90	1.40	97	1.72
25R40 	Pioneer	Pastry	-	-	-	-	101	1.57	100	1.77
Adrianus 	C & M Seeds	Milling	-	-	-	-	102	1.59	107	1.90
Branson 	Brevant Seeds	Pastry	-	-	-	-	89	1.38	87	1.55
25R34 	Pioneer	Pastry	-	-	-	-	-	-	105	1.87
25W38 	Pioneer	Pastry	-	-	-	-	-	-	107	1.91
Means (t/ac)			100	2.00	100	1.83	100	1.56	100	1.78
Station Years			10		7		4		3	

⁽¹⁾ Data reliability increases with the number of trial years



Plant Breeders' Right under legislation of PBR 78 or 91 (<https://pbrfacts.ca>)

**Table 7: WINTER WHEAT
Maritime Agronomic Characteristics Averages 2018 - 2020**

Cultivar	Test Weight (kg/hL)	TKW ⁽¹⁾ (g)	Height (cm)	Heading ⁽³⁾ (days)	Winter Survival (%)	Powdery Mildew 0-9 ⁽²⁾	Septoria 0-9 ⁽²⁾	Rust 0-9 ⁽²⁾	DON ⁽⁴⁾ (ppm)	Straw Yield (t/ac)
25R64 	77	37	81	18	85	1.3	3.5	5.9	0.1	
25R61 	77	34	78	17	87	0.8	5.5	1.8	0.2	-
25R74 	76	32	71	17	82	2.3	5.2	0.0	0.2	-
AC Sampson	77	37	86	22	89	0.8	4.3	3.4	0.1	-
B654SRW 	77	39	88	17	89	1.9	3.9	0.4	0.2	-
Cruze	78	36	84	17	89	0.6	4.7	0.5	0.1	-
Lexington	79	43	85	19	87	1.2	4.5	0.0	0.2	-
Priesley	76	41	76	19	76	0.7	3.4	0.0	0.2	-
UGRC Ring 	77	38	83	17	82	1.5	4.2	0.6	0.2	-
PRO81 	80	37	85	19	70	1.8	3.2	0.0	0.3	-
25R40 	-	-	-	-	-	-	-	-	-	-
Adrianus 	-	-	-	-	-	-	-	-	-	-
Branson 	-	-	-	-	-	-	-	-	-	-
25R34 	-	-	-	-	-	-	-	-	-	-
25W38 	-	-	-	-	-	-	-	-	-	-
Means	77	38	82	18	84	1.3	4.2	1.3	0.2	-
Station Years	7	7	7	6	5	3	3	2	2	-

⁽¹⁾ Data reliability increases with the number of trial years

⁽²⁾ Rating 0-9. A high score is undesirable

⁽³⁾ After May 31

⁽⁴⁾ Deoxynivalenol

  Plant Breeders' Right under legislation of PBR 78 or 91 (<https://pbrfacts.ca>)

Distributors

Brevant Seeds	Justin Toner	17, 5 th Ave St-Andre, NB, E3Y 2M2 justin.toner@corteva.com	(506) 479-0444
C & M Seeds	Ellen Sparry	6180 5 th Line, Palmerston, ON, N0G 2P0 www.redwheat.com	1 (888) 733-9432
Eastern Grains Inc	Eric Theriault	260, 3 rd Tier Road, Drummond, NB, E3Y 2V2 eric@easterngrains.ca	1 (866) 473-6661 (506) 473-6661
Ferme Casault Inc	Donald Bergeron Jonathon Bergeron	62 Rang 2, Causapscal, QC, G0J 1J0 casault@globetrotter.net	(418) 756-6119
McCardle Seeds Inc	Len McCardle Nick McCardle	PO Box 28, Kinkora, PE, C0B 1N0 nick@mccardlebros.ca	1 (866) 553-5050 (902) 887-2338
Meadow Brook Farms	David Mol	426 Hwy 2, Charlottetown, PE C1A 7N9 davidmol@live.com	(902) 628-9292
Pioneer	Colin Brown	6518 Brooklyn St, Cambridge, NS B0P 1G0 colin.brown@corteva.com	(902) 599-3010
SeCan	Phil Bailley	400-300 Terry Fox Dr, Kanata, ON K2K 0E3 seed@secan.com www.secan.com	1 (866) 797-7874 (613) 592-8600
Elite Seeds	Andre Chollet	2405 de la province, Longueuil, QC, J4G 1G3 orderdesk@eliteseeds.ca	(450) 677-2156
Semican	Philippe Charlebois	50 Boul. Industriel, Plessiville, QC, G6L 4P2 pcharlebois@semican.ca www.semican.ca	(819) 362-8823
Snobelen Farms Ltd	Jodie Eadie	323 Havelock St, Lucknow, ON, N0G 2H0 www.snobelegrain.com jeadie@snobelenfarms.com	1 (877) 343-3630 (519) 528-2092