



# Potato Varieties Evaluated Under Organic-Type Production Practices

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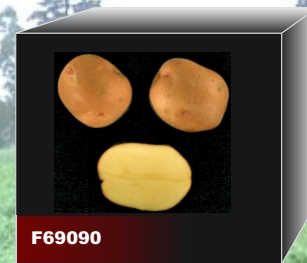
NYL235-4



AC Red Island



F87084



F69090



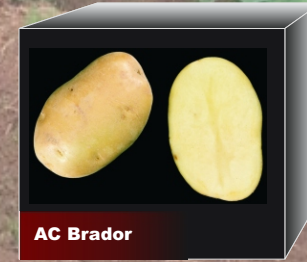
F67128



F97050



Brigus



AC Brador



F99069



F98008

## Introduction

Producers need information to choose the best varieties for organic potato production. We began a study in 2003 to examine ten varieties/selections managed with organic-type production practices; nine from Agriculture and Agri-Food Canada and one from USA. All entries are suitable for the table market, but the F98008 entry is also suitable for the french fry market.

## Materials and methods

Work was conducted in Harrington, PE on land devoid of potato several years previous to our study; plots were amended with manure before planting (0.63%N; 30 t ha<sup>-1</sup>). Four of the ten entries were examined in a replicated (4) trial, while the remaining six were grown in demonstration plots. Although most entries had some level of pest resistance, we chose to augment Colorado potato beetle and late blight control with Novodor and Kocide, respectively.

## Results and discussion

Late blight infection did not occur, but Colorado beetle caused some damage. Although European corn borer damage occurred, it did not correspond to varietal yield differences (Table 1). Although these early results should be considered preliminary, AC Brador and F98008 produced a significantly greater yield of Can. #1 size tubers, in comparison to F97050 and NLY235-4 (Table 1). In addition, F67128 produced higher yield than Brigus, F87084, F69090, AC Red Island and F99069. It is expected that this work will be repeated in 2004.

## Acknowledgements

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	Variety	Yield (kg/ha)		Specific Gravity
		Canada #1	Total	
<b>Replicated Trials</b>	AC Brador	34.72	42.99	1.084
	F97050	25.56	34.38	1.071
	F98008	33.97	44.66	1.074
	NYL235-4	22.37	32.22	1.080
<b>Demo Plots</b>	AC Red Island	10.57	21.36	1.074
	Brigus	12.82	22.07	1.080
	F67128	34.99	41.81	1.078
	F69090	6.54	19.50	1.086
	F87084	10.23	19.53	1.072
	F99069	19.70	30.25	1.069

Table 1. Yield and specific gravity results from 2003 trials. All ten varieties were examined in either a replicated (4) or demo trial.