Agriculture et Agroalimentaire Canada
Direction générale de la recherche
Agriculture and Agri-Food Canada
Research Branch

AC-Yamaska and AC-L'Acadie

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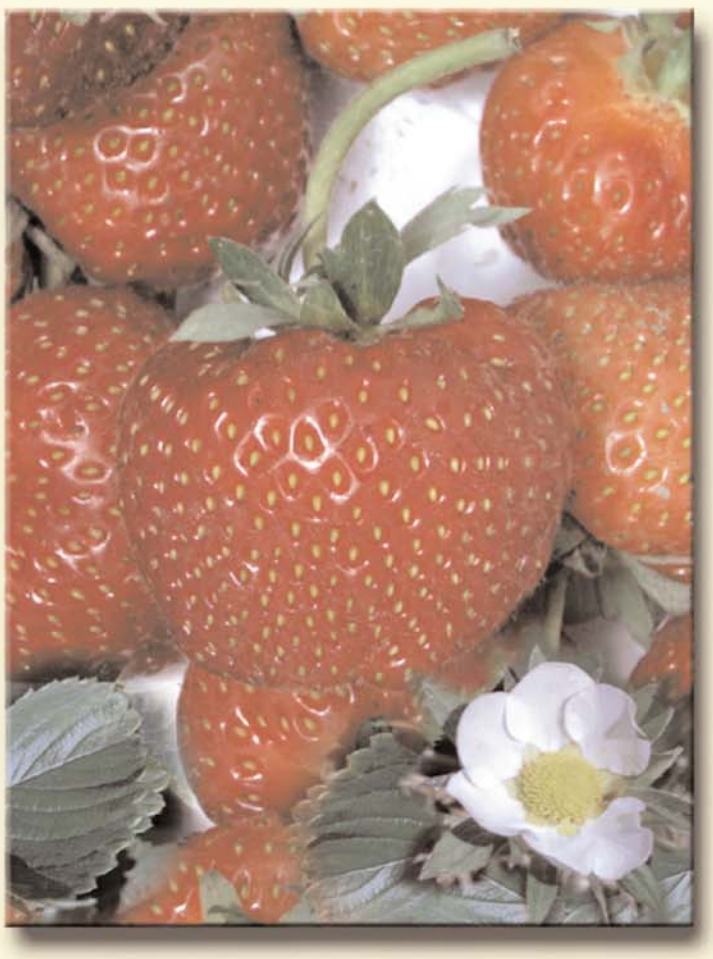
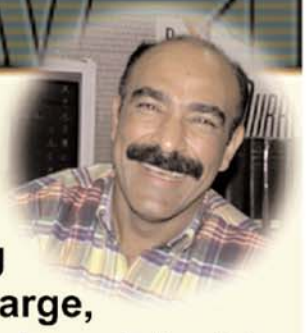
'AC-Yamaska' is a new June-bearing strawberry cultivar (*Fragaria x ananassa* Duch.) bred for Eastern Central Canada and more specifically for Quebec growing conditions. 'AC-Yamaska' was released because of its very large, dark red, glossy fruit, and its late ripening period which extends the strawberry harvest.

Origin

'AC-Yamaska', tested as SJ89700-1, is a progeny resulting from a cross between two late season cultivars, 'Pandora' and 'Bogota', made in 1989 by S. Khanizadeh. 'Pandora' was originally tested as 'Jilla 33' and released by the Horticultural Research Institute in East Malling, UK in 1989. It was used as a parent because of its moderate resistance to verticillium wilt (*Verticillium albo-atrum* Reinke & Berth.), powdery mildew (*Sphaerotheca macularis* Wallr. ex Fr.) and grey mold (*Botrytis cinerea* Pers. ex Fr.). 'Bogota' was released in 1978 by the Institute for Horticulture, Plant Breeding, in Wageningen, The Netherlands. It was used as a parent because it produces orange-red fruit late in the season and is moderately resistant to red stele (*Phytophthora fragariae* Hickman), verticillium wilt and powdery mildew.



'AC-Yamaska' has been tested at the Agriculture and Agri-Food Canada substation in L'Acadie, Quebec since 1990, and at the Macdonald Campus of McGill University in Ste-Anne-de-Bellevue from 1992-1994. It was also evaluated from 1996-1998 in controlled semi-commercial sites by our private partners Lareault Inc., Les Fraises de l'Ile d'Orleans Inc., Réseau d'Essais Petits Fruits - CPVQ Inc. (Quebec Regional small fruit trials, Conseil des productions végétales du Québec) in Quebec and also in Europe by Kraege Gbr (Postfach 266, 48284 Telgte, Germany)

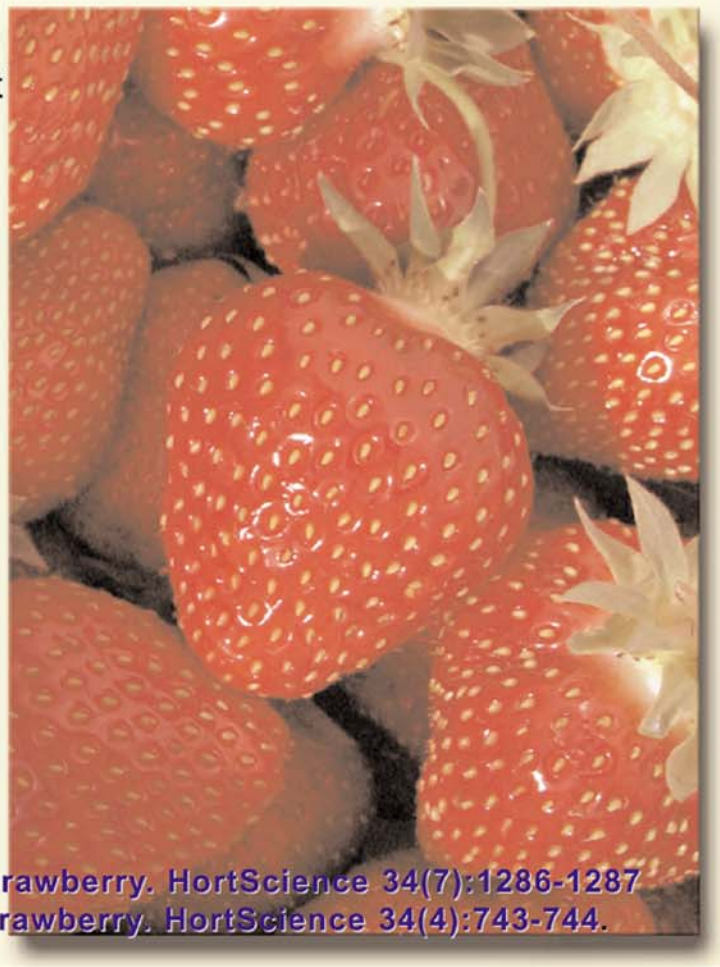


'AC-L'Acadie' is a new June-bearing strawberry cultivar (Fragaria x ananassa Duch.) bred for Quebec and Eastern Central Canada growing conditions. 'AC-L'Acadie' produces large, firm fruit and the plants are moderately resistant to leaf diseases and partially resistant to the principal eastern races of red stele (*Phytophthora fragariae* Hickman). 'AC-L'Acadie' fruit store very well at room temperature for several days making them ideal for shipping or for growers who need to store fresh fruit. The cultivar is recommended for pick your own and/or fresh market producers.

Origin

'AC-L'Acadie', tested as SJ8916-50, is a seedling resulting from a cross between 'Glooscap' and 'Guardian' made in 1989 by S. Khanizadeh. 'Glooscap' was used as a parent due to its high yields of high quality, glossy, dark red fruit with a reflexed calyx. 'Guardian' was used as a parent because of its large, firm, pale red fruit, and its known resistance to five races of red stele, powdery mildew (*Sphaerotheca macularis* Walls ex Fr.), leaf scorch (*Diplocarpon earlina* Ell. and Ev.), and verticillium wilt (*Verticillium albo-atrum* Reinke & Berth.)

'AC-L'Acadie' has been tested at the Agriculture and Agri-Food Canada substation in L'Acadie, Quebec since 1990, and at the Macdonald Campus of McGill University in Ste-Anne-de-Bellevue during the 1992-1994 fruiting seasons. It was also evaluated from 1996-1998 in controlled semi-commercial sites by our private partners Lareault Inc., Les Fraises de l'Ile d'Orleans Inc. in Quebec and Réseau d'essais petits fruits - CPVQ Inc. (Quebec Regional small fruit trials, Conseil des productions végétales du Québec)



References:
Khanizadeh, S., B. Thériault, O. Carisse and D. Buszard. 1999. AC-Yamaska Strawberry. HortScience 34(7):1286-1287
Khanizadeh, S., B. Thériault, O. Carisse and D. Buszard. 1999. AC-L'Acadie Strawberry. HortScience 34(4):743-744.

Availability: **A patent is pending for both cultivars and plants are presently available from licensed nurseries in Quebec. Non-exclusive multiplication licences can be obtained from Agriculture and Agri-Food Canada. European nurseries can obtain a multiplication licence from Meiosis Ltd. (Bradbourne House, Stable Block, East Malling, Kent ME19 6DZ).**

Additional Information on Agriculture and Agri-Food Canada, Quebec fruit breeding and physiology program can be obtained from http://www.pgris.com or contact the author SK (Khanizadehs@em.agr.ca)

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