

La production des fruits chez la canneberge (*Vaccinium macrocarpon*)





*Vaccinium
macrocarpon*



La location des ruches domestiquées

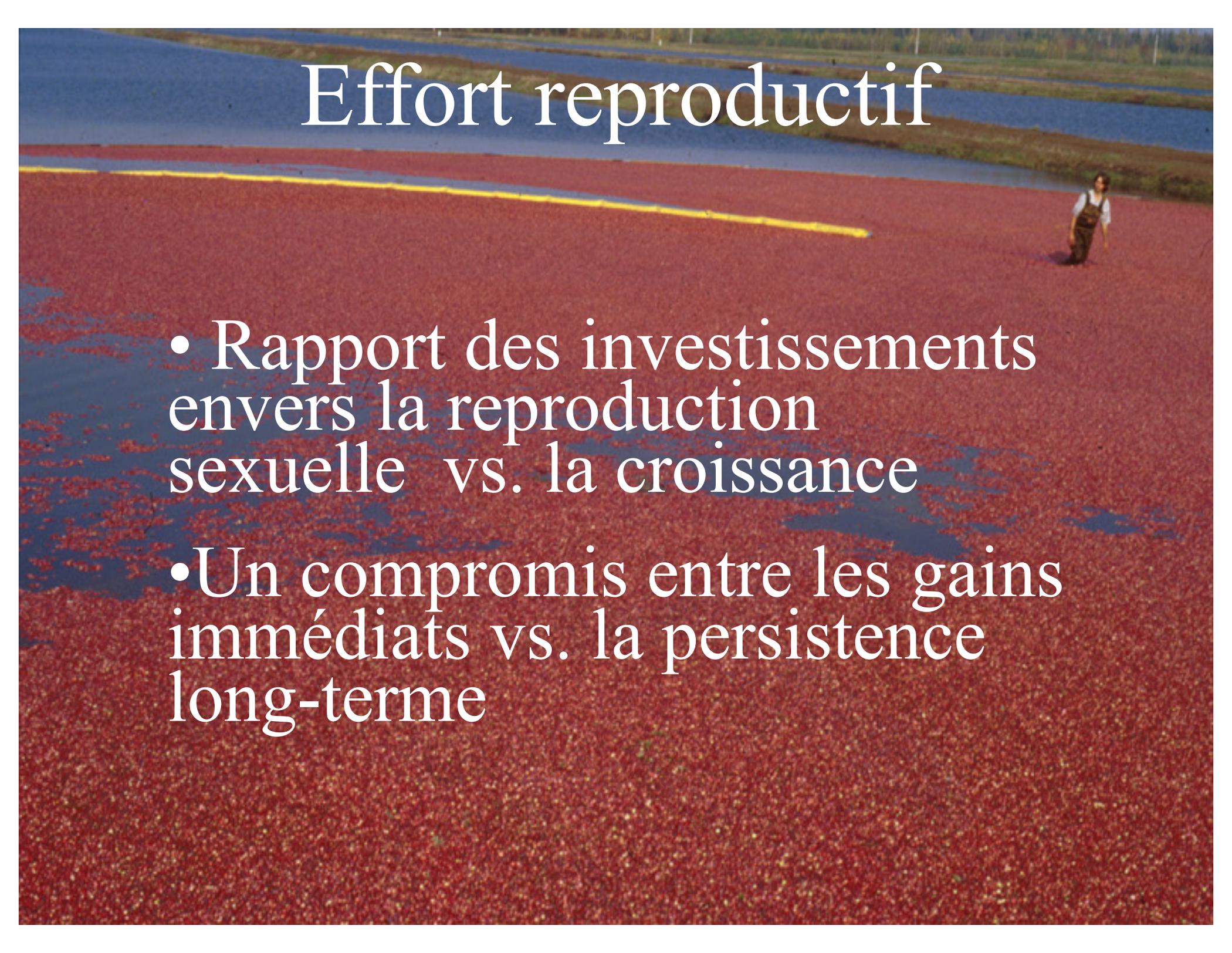


Les limitations au production des fruits

A large field of red raspberries is shown from an elevated perspective. The field is divided into rows by narrow paths. A person wearing a white shirt and dark overalls is standing in the distance on the right side of the field. The background shows a line of trees and a clear sky.

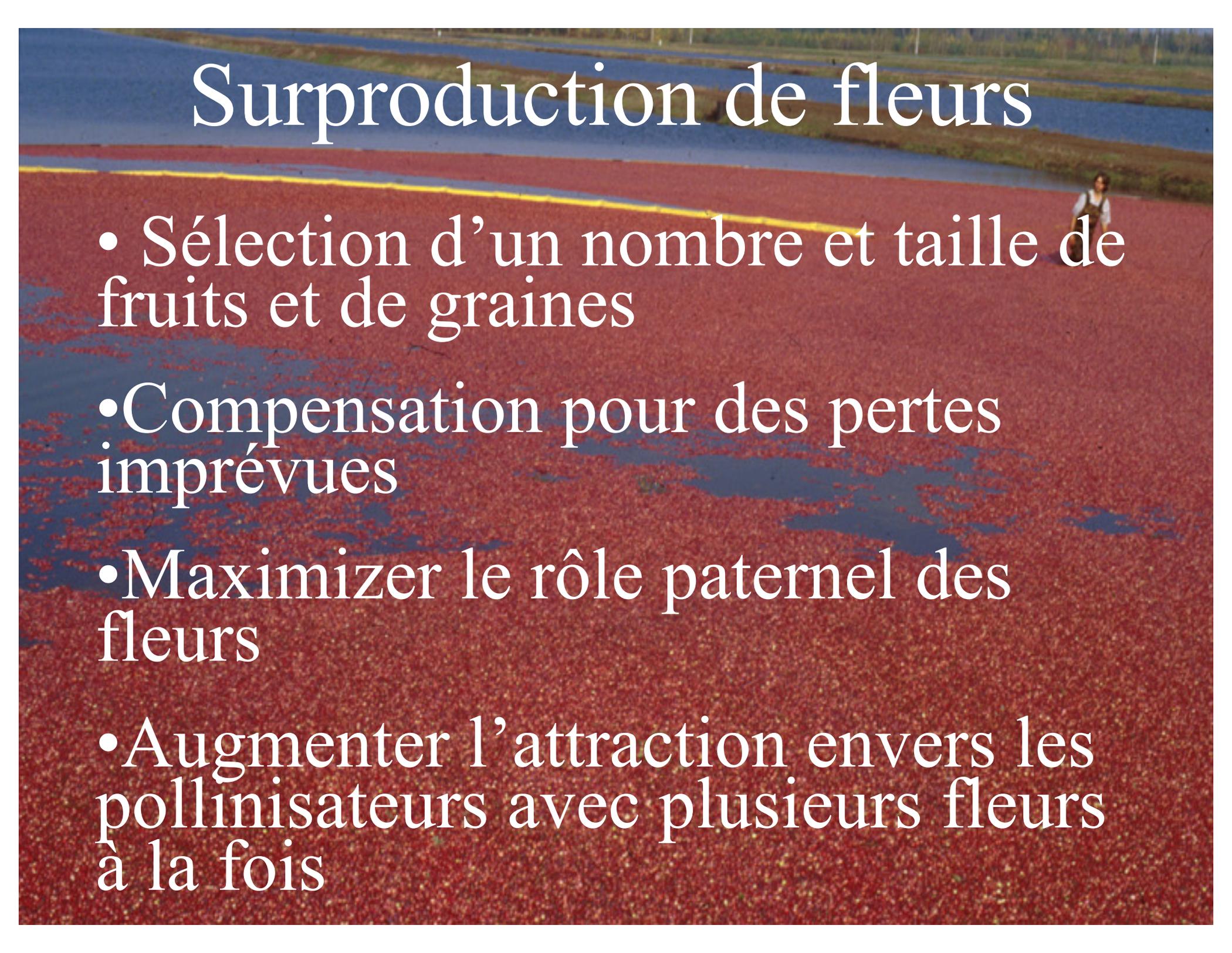
- Pollinisation insuffisante
- Ressources limitées
- Effets du climat
- Herbivorie et prédation des graines

Effort reproductif



- Rapport des investissements envers la reproduction sexuelle vs. la croissance
- Un compromis entre les gains immédiats vs. la persistance long-terme

Surproduction de fleurs



- Sélection d'un nombre et taille de fruits et de graines
- Compensation pour des pertes imprévues
- Maximizer le rôle paternel des fleurs
- Augmenter l'attraction envers les pollinisateurs avec plusieurs fleurs à la fois

Notre étude

Déterminer le rôle relatif de la pollinisation vs. la position florale par rapport au développement et l'avortement des fruits



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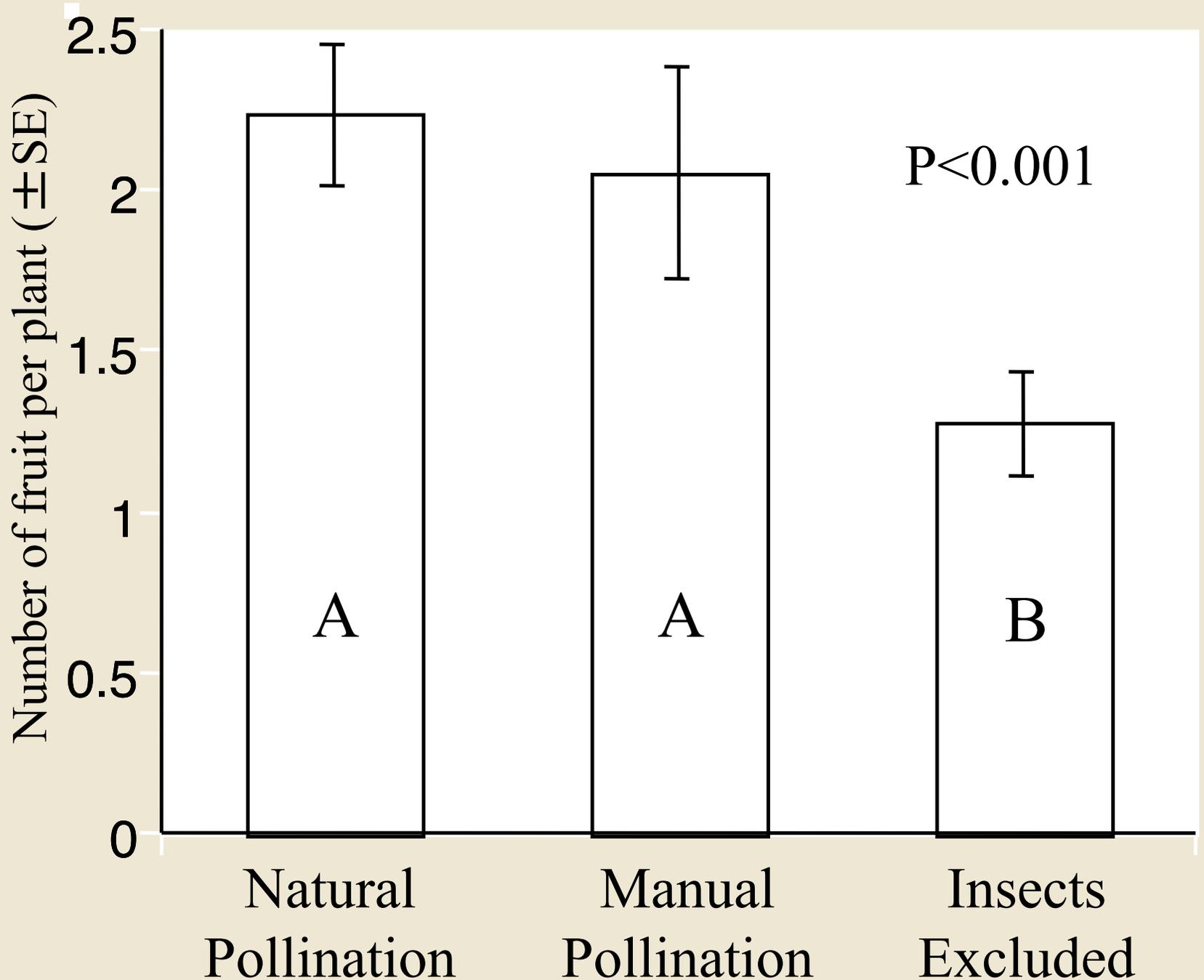
Le rôle des insectes pollinisateurs



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Production de fruits

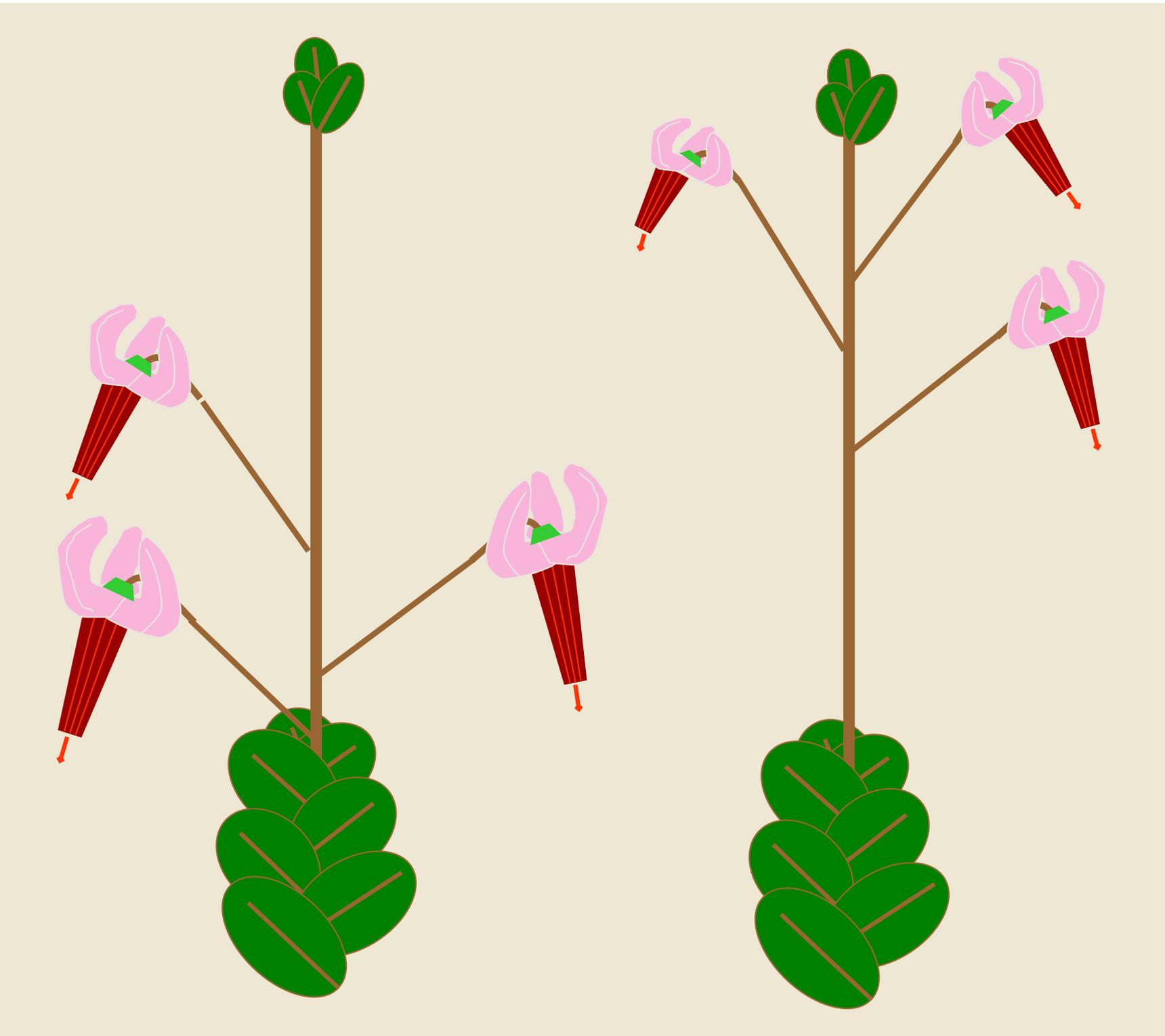


Vaccinium macrocarpon

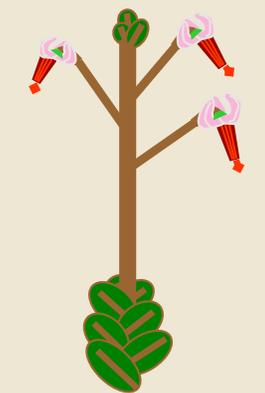
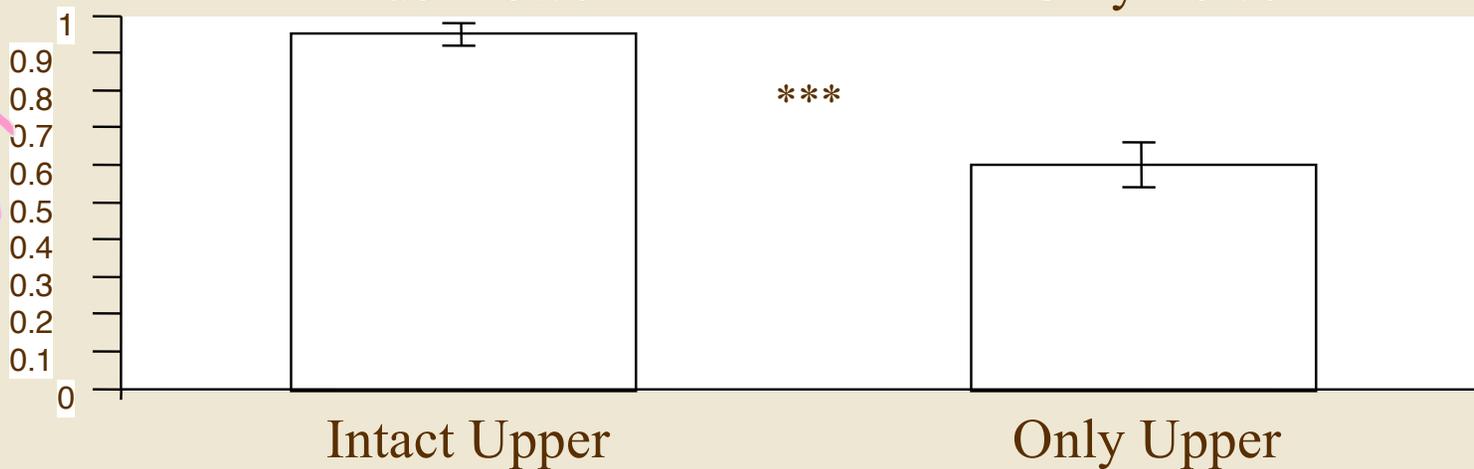
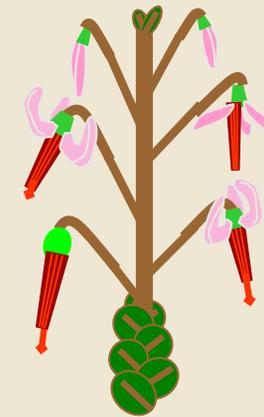
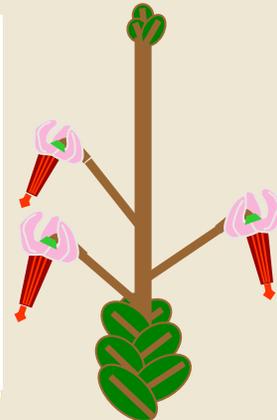
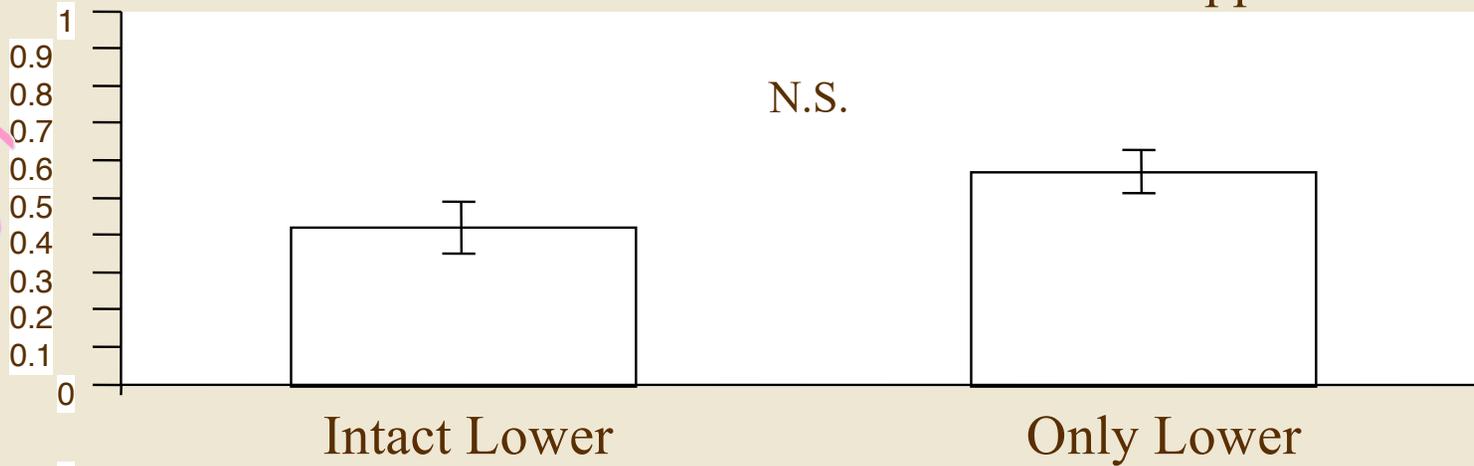
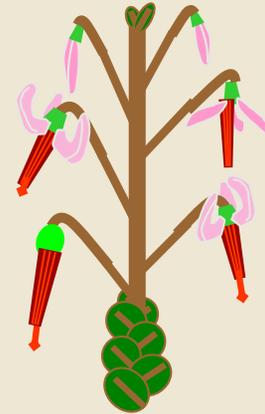
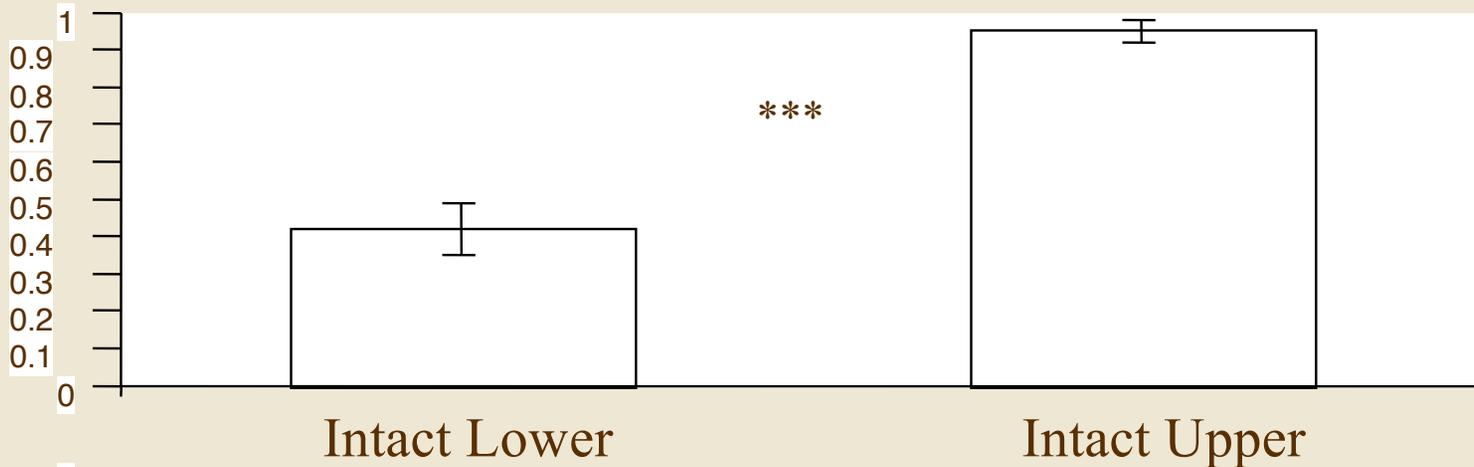
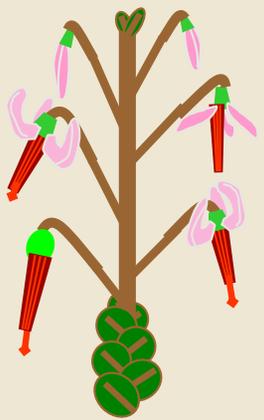




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Fréquence des avortements



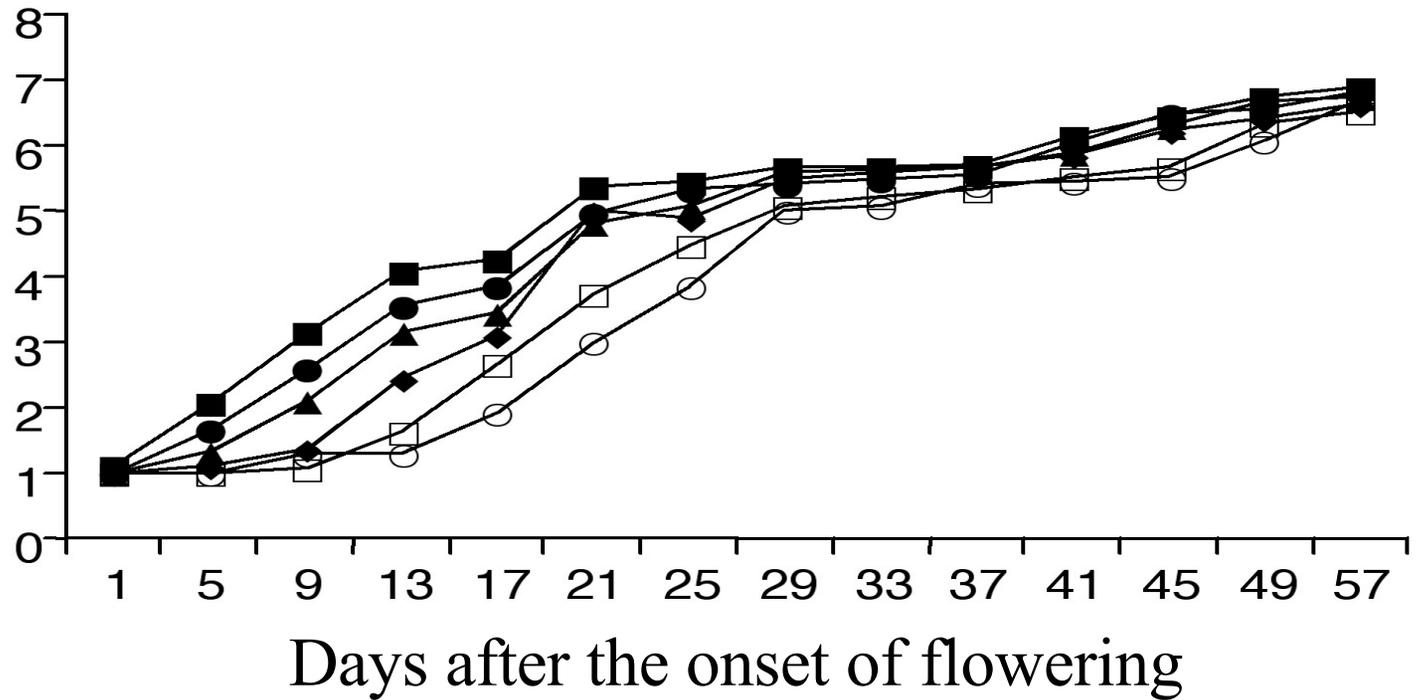
Phénologie de la floraison, fructification et avortements



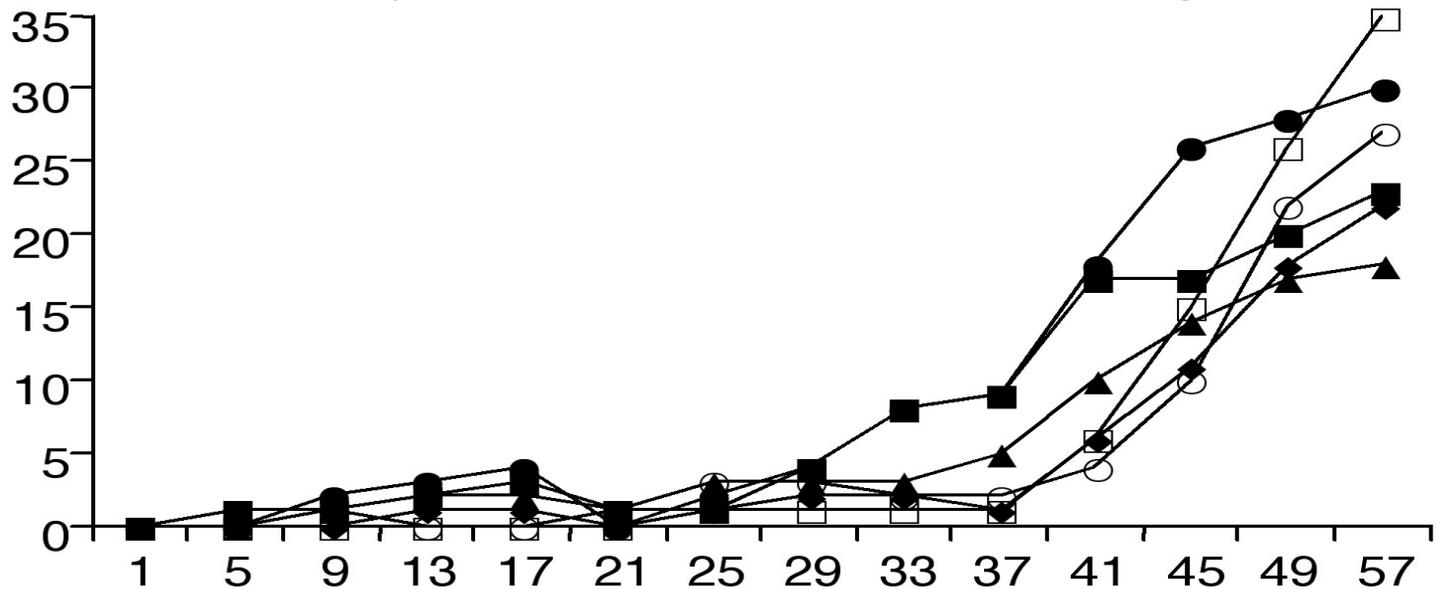
Vaccinium macrocarpon



■ 1 ● 2 ▲ 3 ◆ 4 □ 5 ○ 6



Number of Abortions





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Tubes polliniques





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Fleurs et fruits avortés

Position	Flowers	Fruits
Lower	22.81 ± 4.85	25.86 ± 4.82
Upper	26.96 ± 3.07	36.35 ± 2.87

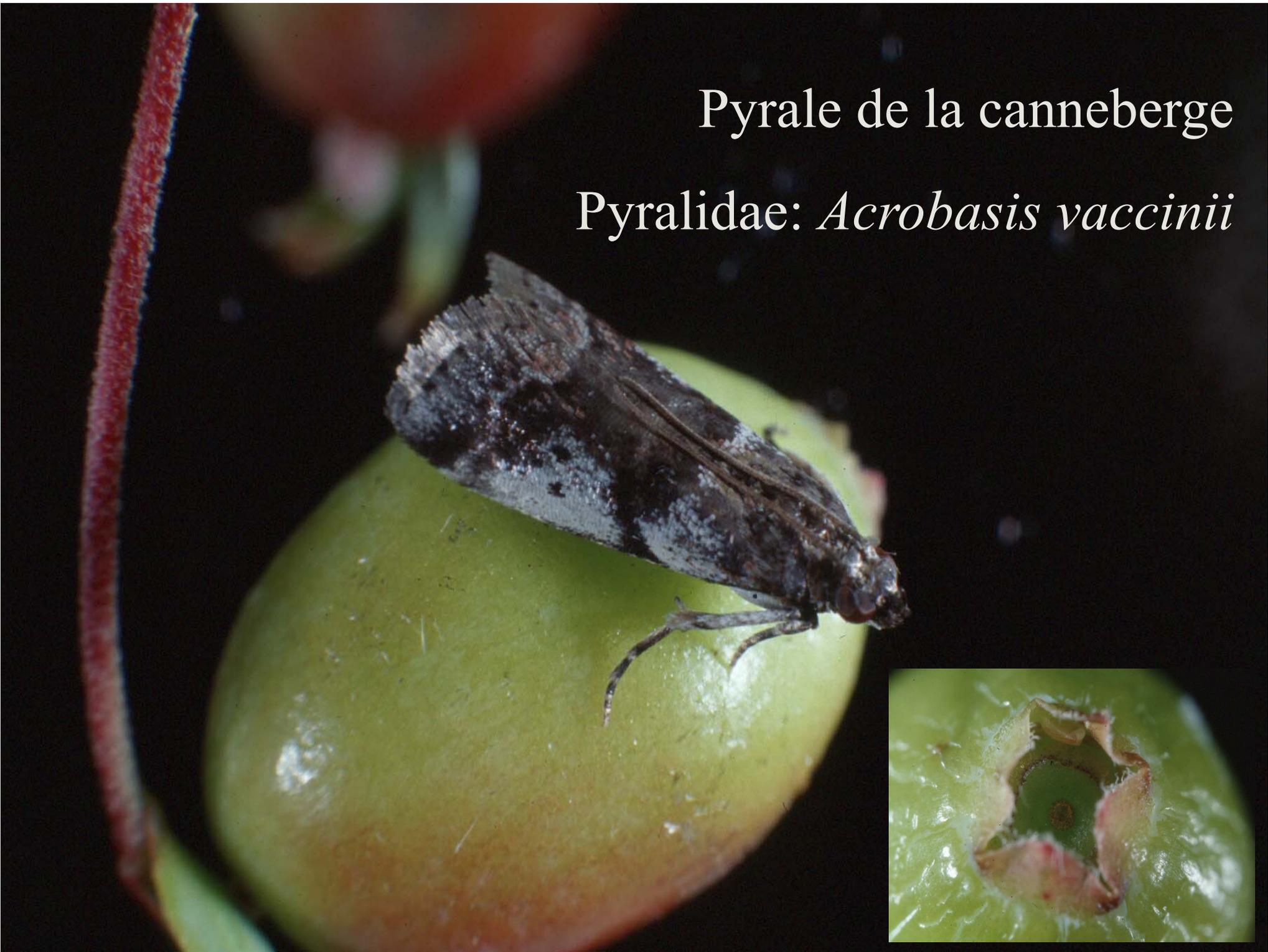


Stratégie de compromis



Pyrale de la canneberge

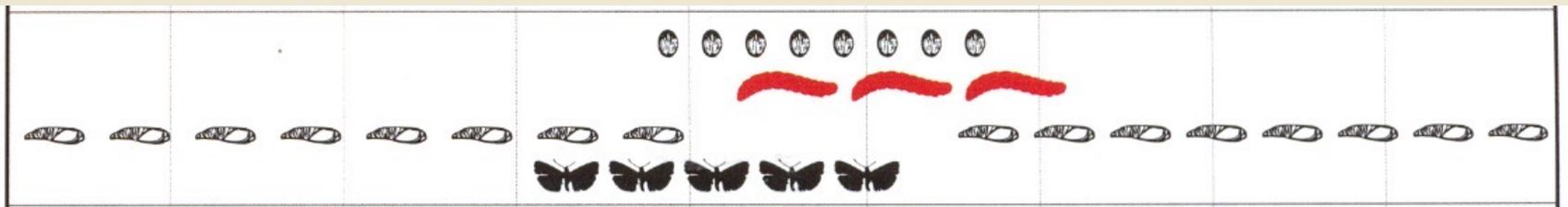
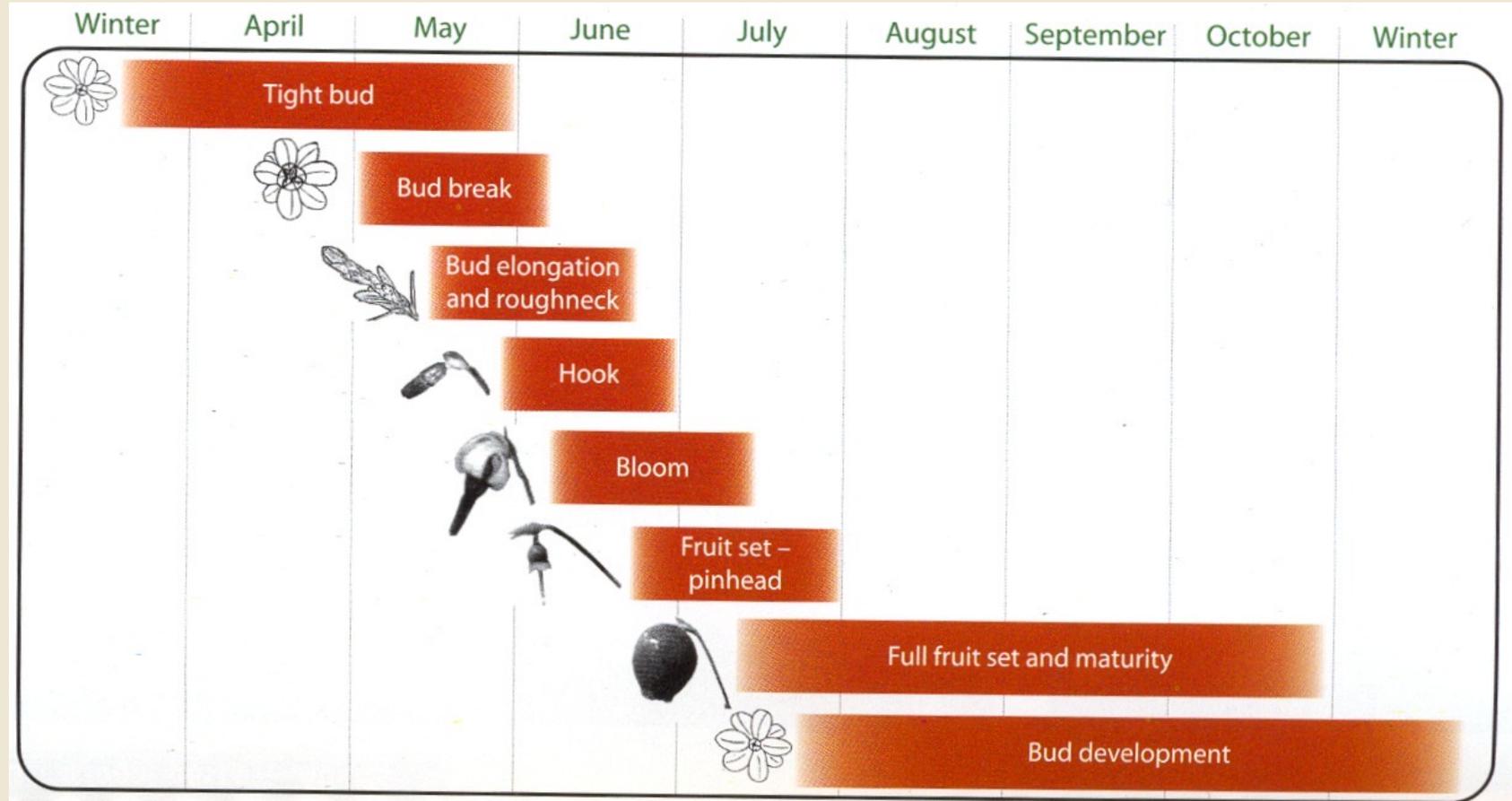
Pyralidae: *Acrobasis vaccinii*



Pyrale de la canneberge



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Larve des pyrales



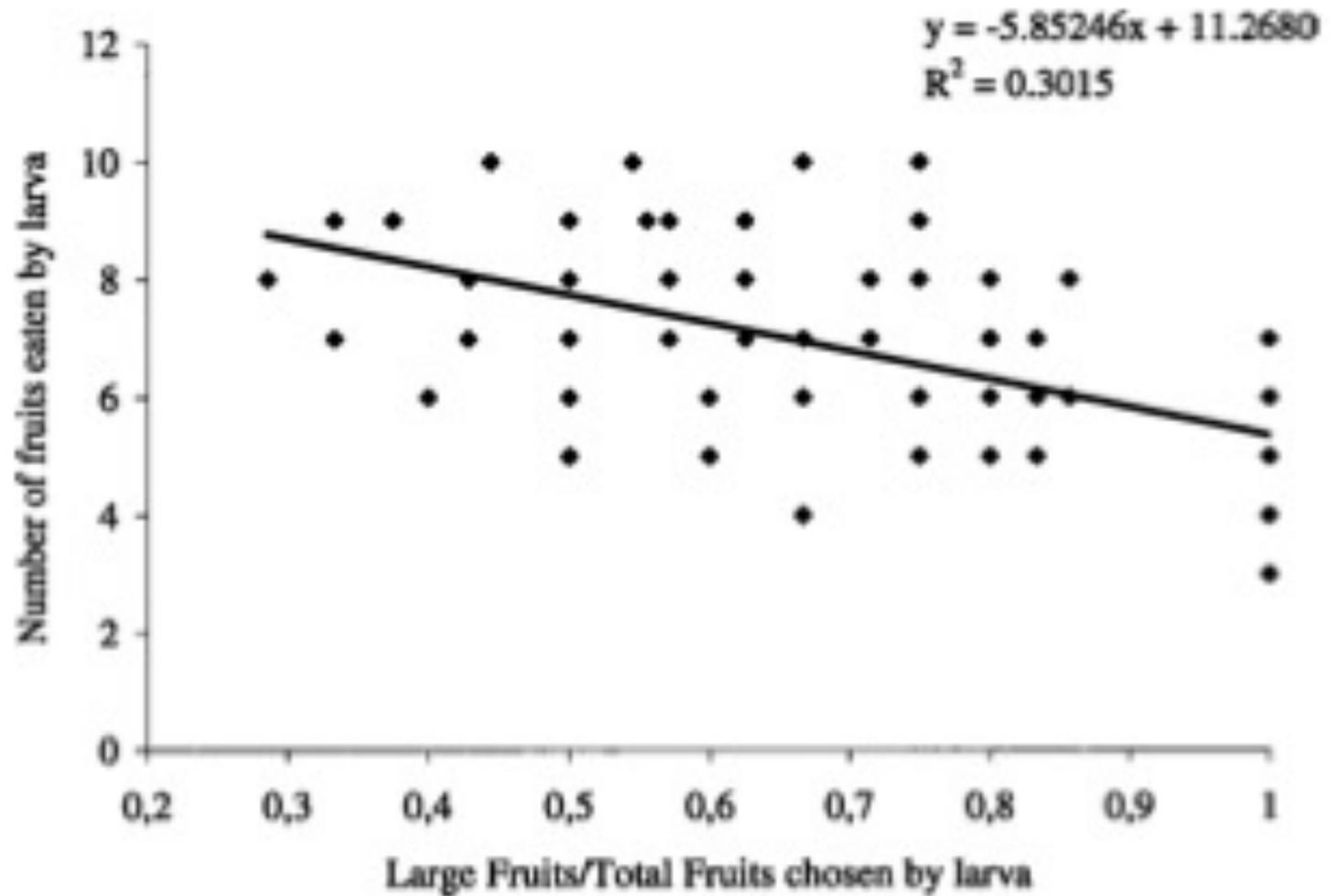
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Développement larvaire



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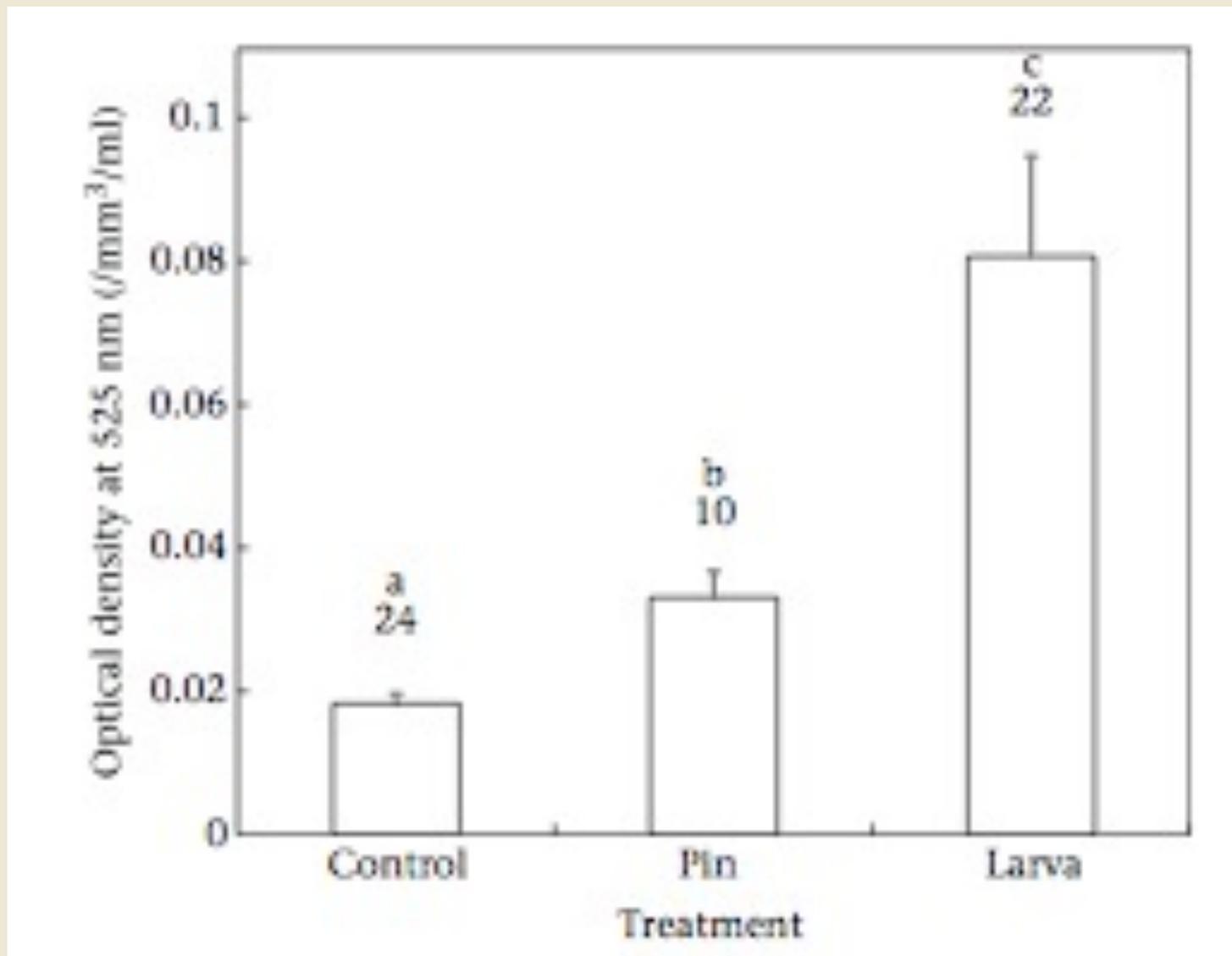


Marchand and McNeil. 2004. J. Insect Behav.

Rougisement



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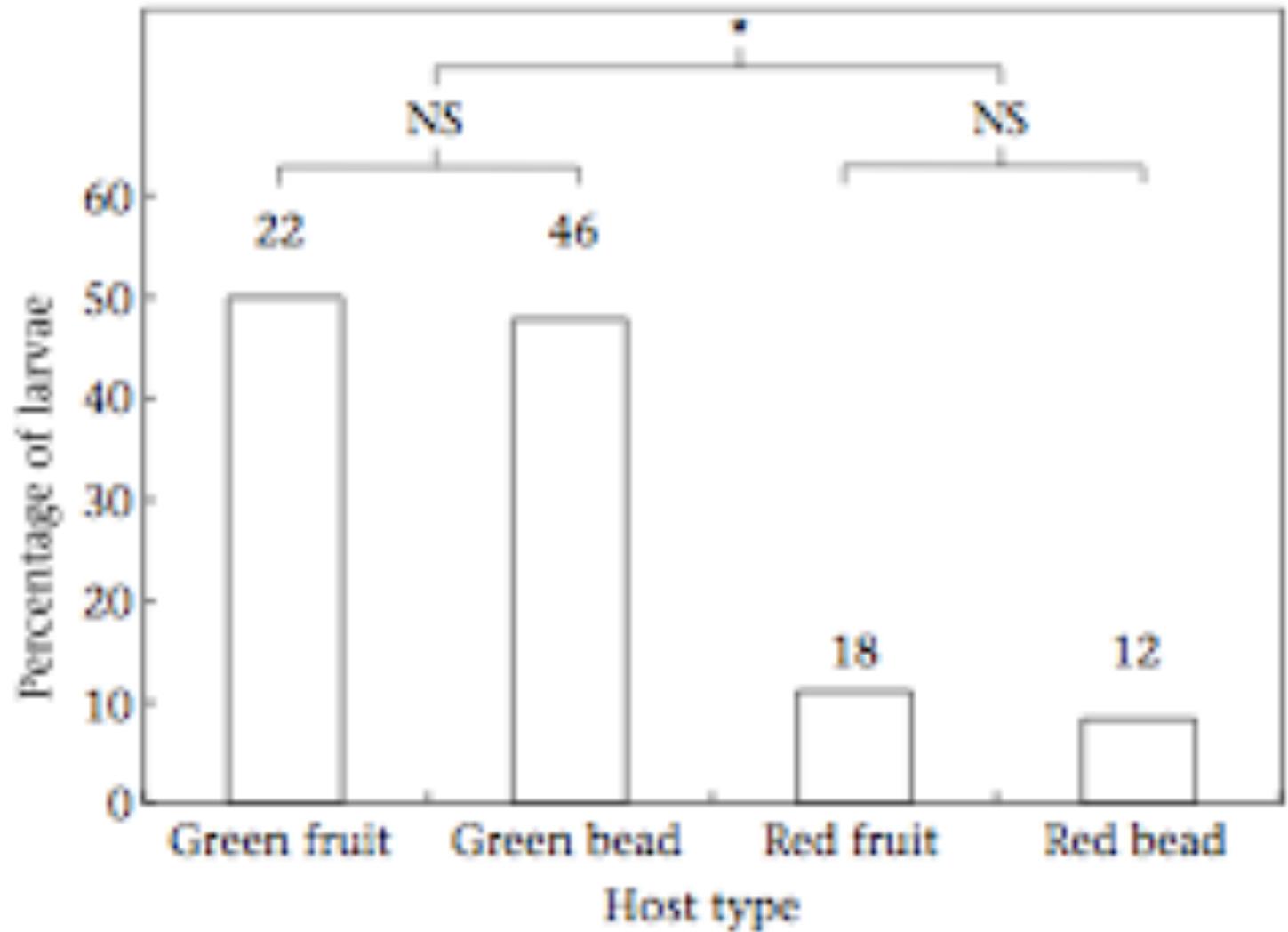


Marchand and McNeil. 2004. J. Anim. Behav.

Attraction envers les fruits



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Marchand and McNeil. 2004. J. Anim. Behav.

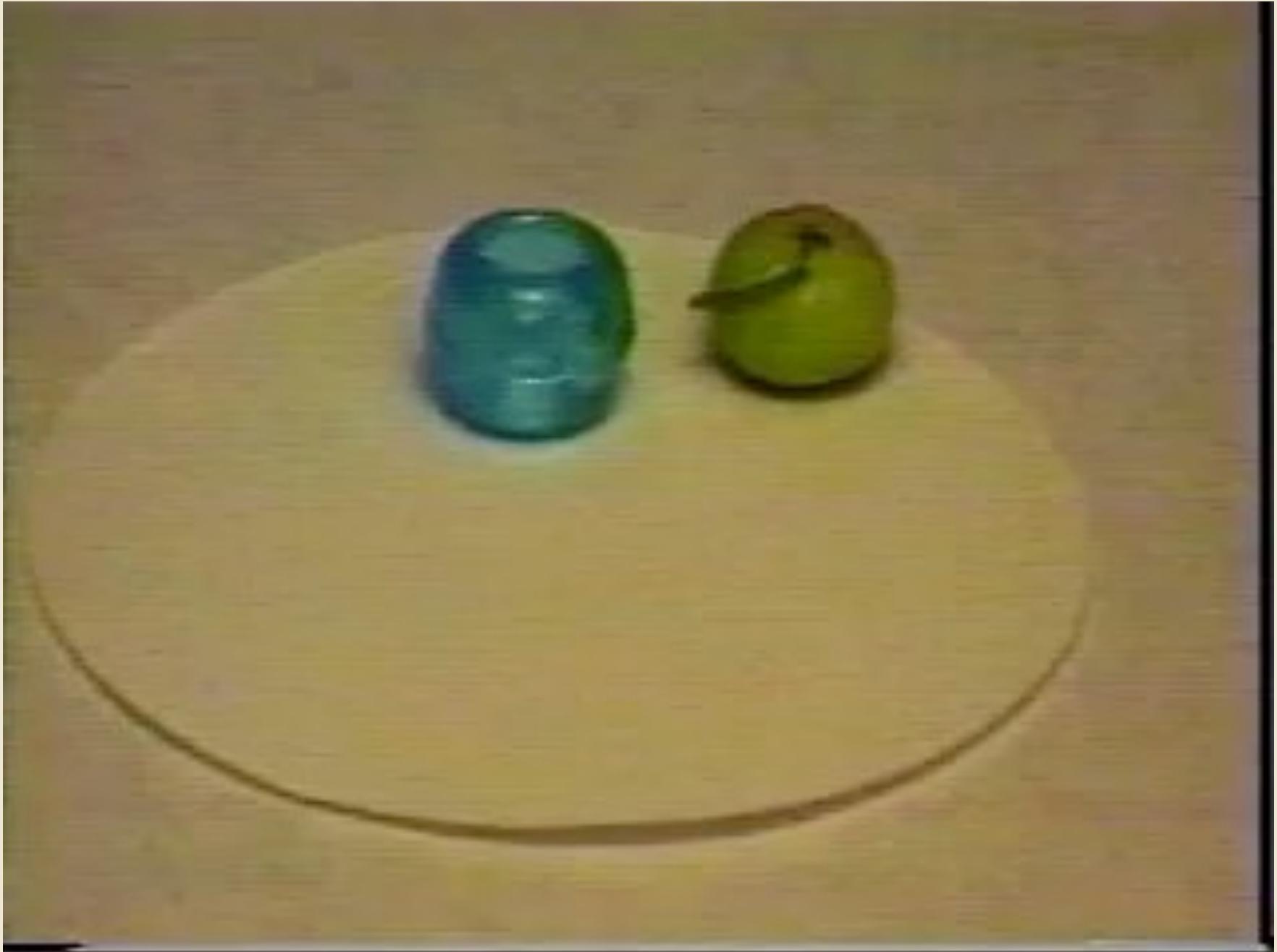
Choisir le fruit



Forte préférence



Changer de fruits



Adaptation pour éliminer la peste?



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Production de canneberges

- Production de fruits pas seulement limitée par la pollinisation ou les ressources
- Introduction de pollinisateurs non-nécessaire
- La plante peut compenser pour des fruits perdus
- La plante peut avoir un mécanisme pour débarasser des pestes



Questions?

