



Aphid Prevalence and Identification in BC Cranberries



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Objectives

-  Document the prevalence of aphids in cranberries in the Lower Mainland of BC.
-  Identify the species of aphids most found in the cranberry bogs of the Lower Mainland.

Methods – Aphid Prevalence



- 🌿 Data collected from June to August 2022
- 🌿 Regions sampled from
 - 🌿 Richmond
 - 🌿 Abbotsford
 - 🌿 Pitt Meadows/Maple Ridge
 - 🌿 Delta/Surrey (including the Cranberry Research Farm)
- 🌿 16 fields were sampled weekly.
- 🌿 The number and type of aphids on 30 uprights per field were recorded.

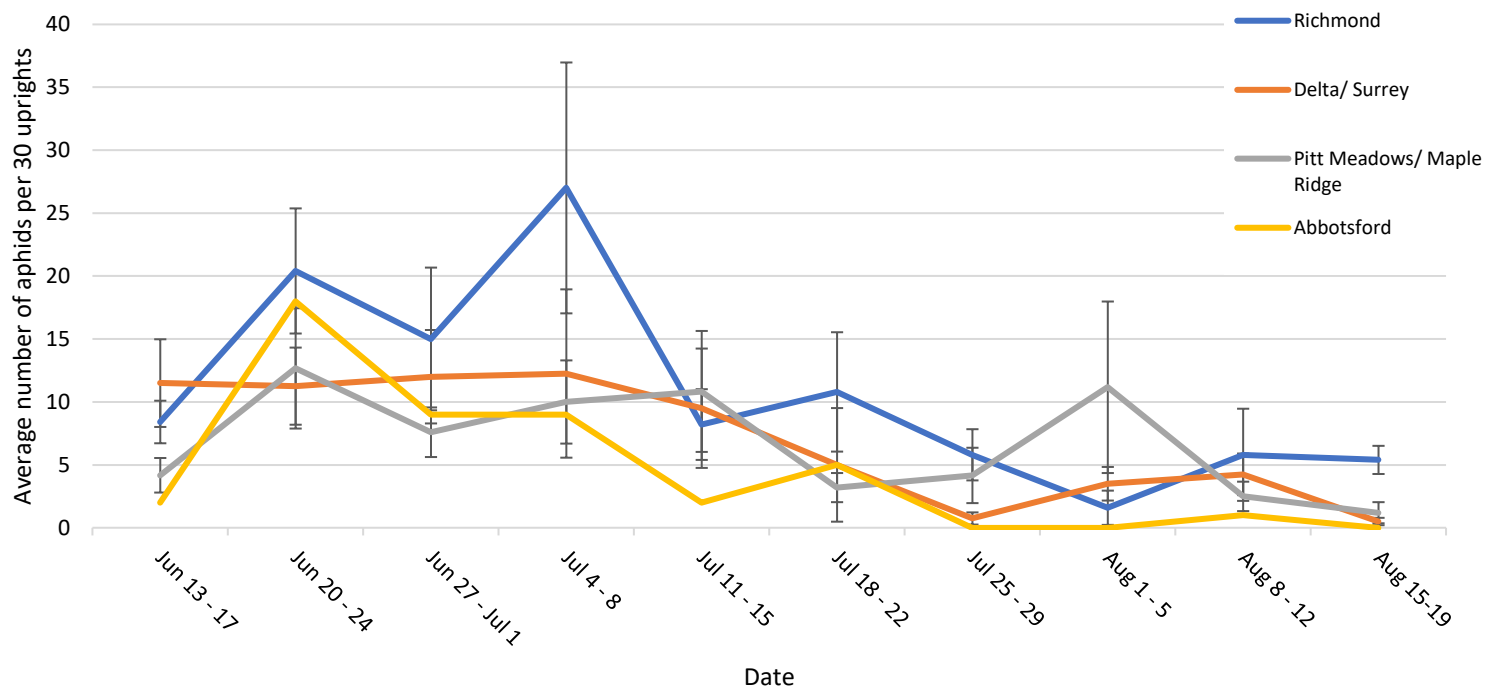
Methods – Aphid Identification

- Four collection events occurred in July and August, with aphids placed in vials containing ethanol.
- Aphids were sent to be identified to species by Agriculture and Agri-food Canada.



Results - Aphid Prevalence

- 🌱 Highest average levels in the Richmond region
- 🌱 Lowest average levels in Abbotsford region
- 🌱 Levels peaked late June to early July



Results – Aphid Identification

- 66 pairs of vials were filled during 4 collection events
- Most from first collection and from Richmond region
- Adult females were identified using morphological identification keys.
- All specimens were identified as *Ericaphis frimbiata/scammelli*
- Still awaiting molecular results from AAFC



Conclusion and Next Steps



- ❧ Although aphids are not considered a major cranberry pest, they are present in all growing regions and can increase risk of virus transmission
- ❧ This work is important to monitor and track their levels over time.
- ❧ Next steps:
 - ❧ Increase number of fields sampled
 - ❧ Increase duration of sampling

Questions?

Thank you/Acknowledgements to:



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