Blackberry Fruit Drop Virus

a. Virus/pathogen name, including accepted acronyms and synonyms

Blueberry fruit drop associated virus (BFDaV)

b. Host range, including resistance or tolerance within the crop hosts, alternate hosts

BFDaV host range is limited to *Vaccinium*, and has only been detected in the cultivar 'Bluecrop' in the field.

c. Symptoms on crop host including varietal differences with images of symptoms when available
The most obvious symptom is premature dropping of fruit on infected bushes. Nearly 100% of the fruit drops about 14-21 days prior to harvest. During bloom there is occasional red striping on the corollas of the flowers and a transient vein reddening in the young leaves in spring.

d. Geographic distribution:
BFDaV has been detected in Frazier River Valley, northwest Washington state in the U.S. and southwest British Columbia, Canada) (Diaz-Lara and Martin, 2016; Martin and Tzanetakis, 2018).

e. Means of spread:

The vector for this virus is unknown, but spread in the field is quite slow.

f. Recognized diagnostic tests with cited references:
BFDaV can be detected by PCR (Diaz-Lara and Martin, 2016).

Sampling recommendations for each pathogen including timing and tissue to be sampled

The youngest fully expanded leaves collected early in the growing season or just prior to harvest when fruit drop symptoms can be observed.

g. Management strategies for the pathogen and the vector(s) of the pathogen

The use of virus-indexed planting stock is the most critical step in virus management.

References
Diaz-Lara, A. and Martin, R. R. 2016. Blueberry fruit drop-associated virus: A new member of the family *Caulimoviridae* isolated from blueberry exhibiting fruit drop symptoms. Plant Disease 100:2211-2214.

Martin, R. R. and Tzanetakis, I. E. 2018. High risk blueberry viruses by region in North America: Implications for certification, nurseries, and fruit production. Viruses 10:342. https://doi.org/10.3390/v10070342
Names of reviewers: Robert R. Martin and Ioannis E. Tzanetakis

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