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## Lack of fruitset

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Several factors can cause a lack of fruitset: nutritional deficiencies (see [boron](#)), lack of node fruitfulness caused by weather and vine management in the previous growing season, extremely hot or cool weather during bloom, or [winter](#) or [spring freeze injury](#). In addition, herbicide injury, nutritional imbalances (see [bunch stem necrosis](#)) and diseases, especially [botrytis](#) and [downy mildew](#), may have an effect.



Left, high temperatures during bloom greatly reduced fruitset on this cluster.  
Photo: T. Zabadal



A bud cross-section shows the dead primary bud in the middle and live secondary and tertiary buds on the sides. Cross-sections of nodes that have been warmed for at least 48 hours can be used to determine how severely to prune vines in response to winter injury. Photo: T. Zabadal

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