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## Leafroll - Leafroll virus

Annemiek Schilder, MSU Plant Pathology

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Leafroll virus is found in most grape-growing areas. Symptoms are most obvious in fall. Infected vines are slightly smaller than healthy vines. Leaves become yellow or reddish purple as the season progresses; the main veins remain green. By late summer, the leaves start rolling downward, beginning at the base of the shoot. At harvest, fruit clusters are small, poorly colored and low in sugar. The disease does not kill the vine but will remain chronic. Not all infected vines show symptoms. The leafroll virus is spread primarily via infected nursery stock and the grape mealybug. Within-field spread by mealybug is very slow.



Photos: Tom Zabadal



Left, infected Chardonnay leaf beside a healthy leaf.

Photo: Tom Zabadal

### Additional information

- Search [MSU Extension News for Agriculture](#) site
- Search [MSU Fruit CAT Alert](#) newsletter for articles
- [MSU Diagnostic Services](#)
- Special [grape disease problems](#) and controls (from [Michigan Fruit Management Guide](#))  
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