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Glyphosate injury

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Glyphosate (Roundup®) injury to grapevines has several characteristics. Young shoots injured early in the growing season will produce misshapen, stunted leaves from the point where the herbicide contacted the leaf to the end of the shoot. Leaves are roughly triangular and crinkled with cuplike depressions.

Injury late in the growing season may stop shoot growth and result in off-green leaves. Late-season injury will be carried over to the next year. Multiple severely stunted shoots will emerge from nodes. This stunted growth will continue throughout the growing season or until the vine dies, presumably from lack of functional leaf area.



A single node of a grape shoot injured by glyphosate showing a primary leaf and two lateral shoots that undergo branching to produce an array of stunted, crinkled, somewhat triangular leaves.



Glyphosate-injured grapevines a year after application. Multiple stunted shoots may arise from each node with highly crinkled, somewhat triangular leaves.

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