



Vermont Forest Health

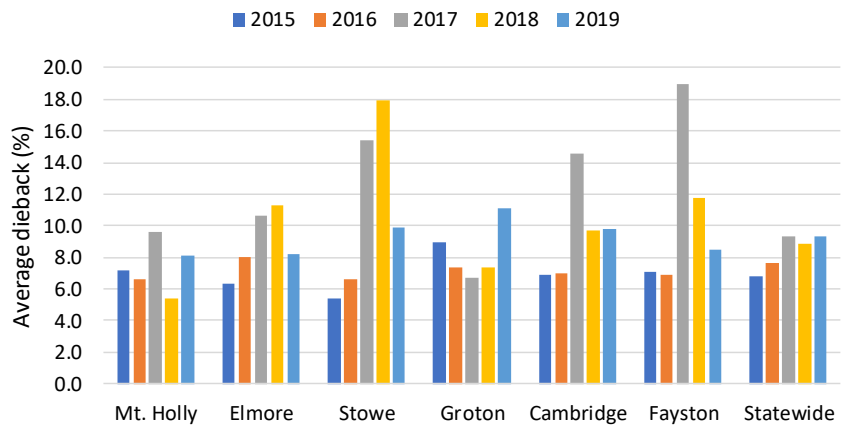
Tree Condition in Maple Sugaring Sites on State Lands: Results for 2019

Department of Forests, Parks & Recreation
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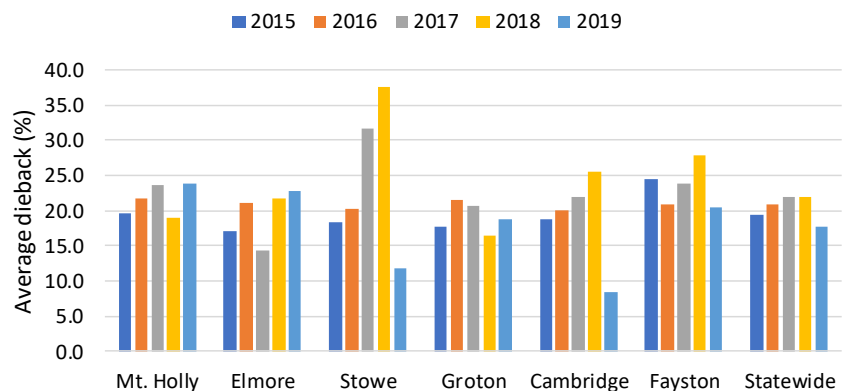
There are currently 36 sugar maple health monitoring plots statewide throughout Vermont, with six of these occurring on state lands under license agreement for maple sugaring purposes. Each year, the crowns of sugar maples within these monitoring plots are assessed for both branch dieback and foliage transparency. Branch dieback is a measure of the amount of newly dead twigs each season, with higher ratings indicating the effects of current or past stress events on overall tree health. Foliage transparency is a measure of the amount of skylight visible through the foliated branches of a tree's live crown and averaged for the crown as a whole. This rating often reflects the current year impacts of insects, disease, or other environmental stresses.

The graphs presented here illustrate trends in both average branch dieback and average foliage transparency from 2015-2019. This period of time coincides with an outbreak of forest tent caterpillar (FTC), which began in 2016. FTC defoliation was not observed in our monitoring plots in 2019, and tree health appears to have improved from 2018. Branch dieback in plots on state lands averaged 9% - the same as the statewide average across all 36 plots. Similarly, foliage transparency in plots on state lands improved from 2018 and averaged 18% - comparable to the statewide average of 19% across all 36 plots.

Dieback of Overstory Maple from Sugaring Sites on State Land



Foliar Transparency of Overstory Maple from Sugaring Sites on State Land



For more information, contact the Forest Biology Laboratory at 802-565-1585 or:

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