



## severe winter injury

Posted by [Trevon Unruh](#)

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[Trevon Unruh](#)

[severe winter injury](#)

June 17, 2019 11:04PM

Registered: 6 years ago

Posts: 6

A test winter here in NE North Dakota low teens in early october.lots of deep cold bottoming out at around -36° followed by a late cold spring. Young trees that died to the snowline, Honeygold, Kinderkrisp, Sweet Sixteen,Wedge,and a few Zestar!  
Also have a lot of trees that bloomed and leafed out but the leaves are small and cupped new growth is starting to grow out and looks ok. Cambium looks green and juicy and is slipping well. Is this winter injury or something else? Any thoughts on what this is would be appreciated! Silver lining is that Honeycrisp look great!  
On the line of zone 3and 4

Edited 1 time(s). Last edit at 06/19/2019 04:35PM by Michael Phillips.

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[Michael Phillips](#)

[Re: severe winter injury](#)

June 28, 2019 04:44PM

**Moderator**

Registered: 11 years ago

Posts: 621

Deep cold kills certain cultivars, end of story. Sorry to hear those otherwise hardy varieties died down to the snowline . . . but hopefully it was a deep snowline. Winter injury is more insidious, resulting in contorted cambium which restricts vascular flow. This is what you are seeing with respect to "leafout" being delayed, Trevor. This sort of damage happens when temperatures wildly fluctuate from one day to the next. This happens more often now in late fall , case in point being sub-zero temps in the northeast around Thanksgiving last year. One thing that can help is biodynamic tree paste to help restore both outer and inner bark tissues.

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