

How the Amazing Wood Frog Survives Winter Hibernation



Every fall, the wood frog stops breathing, its heart stops beating, and its blood stops flowing. It literally freezes like a block of ice. Come spring, the frog's body thaws and the frog wakes, moves, and hops away!

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How the wood frog hibernates through cold Canadian winters is hard to believe. First, the frog's liver releases glucose into its blood. Glucose enters the frog's cells and acts like *antifreeze* as it prevents the cells from freezing. Remarkably, water is drawn away *from the centre* so expanding ice crystals won't crush the heart and other organs.

In spring, the wood frog's insides warm up *before* its outsides. This little creature has to be perfectly designed in the first place to survive through below -40 temperatures and *breed in spring* to preserve its species. In the evolutionary scenario, it couldn't have survived with less developed body systems!

To learn about this interesting subject, you are invited to view an ASL presentation by Deaf Genesis Apologetics at **<https://youtu.be/raXJonQWvuo>**.

Just for the thrill of watching the wood frog thaw, you can also view:

www.youtube.com/watch?v=TYJv-wxwvLw

For further information:

<https://creation.com/frozen-frogs>

<https://answersingenesis.org/natural-selection/adaptation/the-secret-lives-of-frozen-frogs/>

<https://forestsociety.org/something-wild/frozen-wood-frogs-thaw-out>

This presentation by Deaf Crossfire Church, Hamilton, ON, is part of a monthly series called *What Genesis Means*. It addresses the topics of science, creation, and evolution.

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