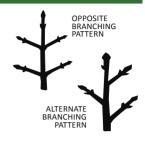


TREE OF THE MONTH

Eastern Hemlock • Tsuga canadensis ALSO KNOWN AS: CANADIAN HEMLOCK

Eastern hemlock (*Tsuga canadensis*) is a dense, pyramidal conifer native to much of North America with an alternate branching pattern. Part of the *Pinaceae* family, hemlcoks typically grow between 40-75 feet tall and up to 35 feet wide, but can grow up to 175 feett tall and 6 ft, wide, Preferring the moist woods, slopes, rocky hillsides, ravines, and stream valleys of Canada and the northeastern United States, hemlock's range extends down through the Appalachian mountains and into Georgia and Alabama, It tolerates full sun in cooler, northern climates like Massachusetts, but doesn't do as well in the south, where prolonged temperatures of 95 degrees and above can result in foliage damaging sun scald. It also is not tolerant of prolonged droughts.

On mature trees, the thick, ridged bark ranges from red-brown to grav-brown. Once a commercial source of tannins for leather tanning, the inner bark is good survival food and medicine, only to be harvested in emergency situations.



Fastern Hemlock can be confused with Canada vew (Taxus canadensis), a lowlving native shrub that can be toxic if ingested in large doses. For this reason, it is sometimes called 'ground hemlock'. Hemlock also shares its common name with the herbaceous perennial water hemlocks (Circuta maculata and Conium maculatum), which are in the parsley family (not at all related to the evergreen). No part of the eastern hemlock tree is poisonous.

Often associating with white pine and yellow birch, hemlock also likes to form pure stands. These pure stands create their own moist microclimates. providing excellent winter shelter for wildlife. Hemlocks shelter for wildlife. Hemlocks play a key role in stream ecology, shading and cooling mountain streams, thus providing habitat for fish and invertebrates. Hemlocks also stabilize the soil in the steep ravines where they often grow, preventing erosion.

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Tree of the Month is a collaboration between BEAT, the City of Pittsfield, Pittsfield Tree Watch, and the MA Department of Conservation & Recreation's Greening the Gateway Cities Program. Find out more at thebeatnews.org.

