

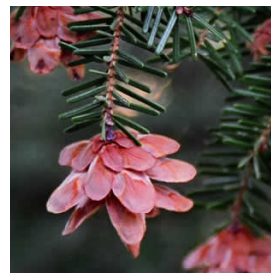
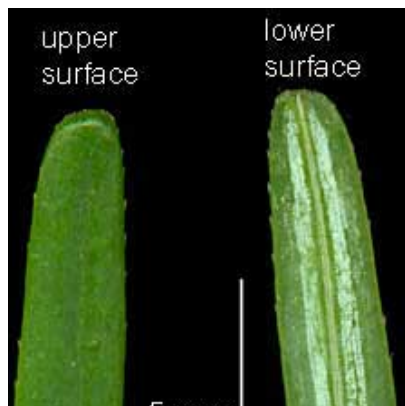
Tsuga caroliniana* vs *Tsuga canadensis

ID characteristics from Weakley's Flora of the Southeastern United States (April 2022)

Characteristics	<i>Tsuga caroliniana</i>	<i>Tsuga canadensis</i>
leaf length	10-18 mm long	8-13 mm long
leaf spread	those originating from the sides and lower surface of twig spreading more or less distichously in a horizontal plane, normally sized	those originating from the sides and lower surface of twig spread more or less distichously in a horizontal plane, normally sized
leaves borne on upper surface	not appressed, spreading at a 60-90 degree angle from twig, mostly 3/4 to fully as long as the adjacent lateral leaves, the whitened undersurface not exposed upward	more or less appressed, dwarf, mostly 1/6 - 1/2 as long as adjacent lateral leaves, the whitened undersurface exposed upward
leaf margins	entire	minutely serrulate
leaf apices	minutely retuse (notched), truncate, or rounded	obtuse to rounded
cone length	20-38 mm long	12-25 mm long
cone scales at maturity	ovuliferous scales spreading at a right angle to axis	ovuliferous scales ascending

Most of the leaves 10-18 mm long, those originating from the sides and lower surface of the twig spreading more or less distichously in a horizontal plane, normally sized, those borne on the upper surface of the twig not appressed, spreading at a 60-90 degree angle from the twig, mostly 3/4 to fully as long as the adjacent lateral leaves, 8-15 mm long, the whitened undersurface (consisting of rows of stomata) not exposed upward; leaf margins entire; leaf apices minutely retuse (notched), truncate, or rounded; seed cones 20-38 mm long, the ovuliferous scales spreading at a right angle to the axis at maturity. *Tsuga caroliniana*

Most of the leaves 8-13 mm long, those originating from the sides and lower surface of the twig spreading more or less distichously in a horizontal plane, normally sized, those borne on the upper surface of the twig more or less appressed, dwarf, mostly 1/6 to 1/2 as long as the adjacent lateral leaves, 1-3 (-6) mm long, the whitened undersurface (consisting of rows of stomata) exposed upward; leaf margins minutely serrulate; leaf apices obtuse to rounded; seed cones 12-25 mm long, the ovuliferous scales ascending, even at maturity. *Tsuga canadensis*



left: *T. caroliniana* (namethatplant.net)
right: *T. canadensis* (dendro.ohioplants.org)

left: *T. caroliniana* (Douglas Goldman [iNaturalist.org](https://www.iNaturalist.org)): note: edges entire
right: *T. canadensis* ([uwgb.edu](https://www.uwgb.edu)) - note: edges finely serrate

right photo: left side = *T. caroliniana* / right side = *T. canadensis*
source: namethatplant.net

