

Tree Radar Unit for Assessing Tree Roots and Trunk Structure

Tree Associates is excited to announce that we now own a Tree Radar Unit (or TRU). TRU utilizes Ground Penetrating Radar to assess trunk, limb and root structure. This cutting edge technology revolutionizes the way we evaluate trees.

Typically, Arborists drill into trees to assess the condition of trunks or limbs, potentially spreading existing decay or introducing new decay organisms into the tree. Equipped with TRU, Tree Associates quickly and harmlessly obtains multiple high resolution trunk and branch scans which identify and characterize structural defects including decay and cracks.

Traditionally, examining tree roots was only possible through tedious and costly excavation. TRU, by analyzing the reflection of radar waves, rapidly determines root location, depth and relative size, even below concrete or asphalt. This information is critical for identifying and managing root damage to foundations, streets and driveways. In addition, since effective tree preservation requires an understanding of root location, TRU is a valuable tool for tree preservation.

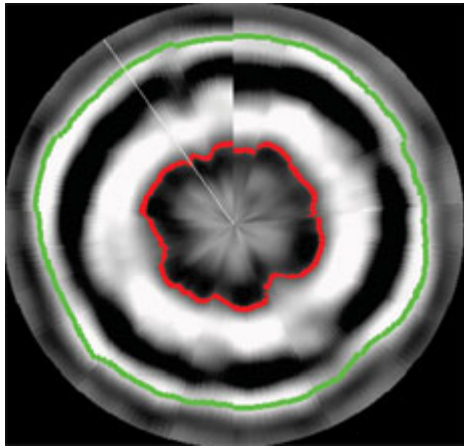


Figure 1. Cross sectional image of tree trunk created by TRU. Green line shows bark wood interface and red line shows location of decayed wood.

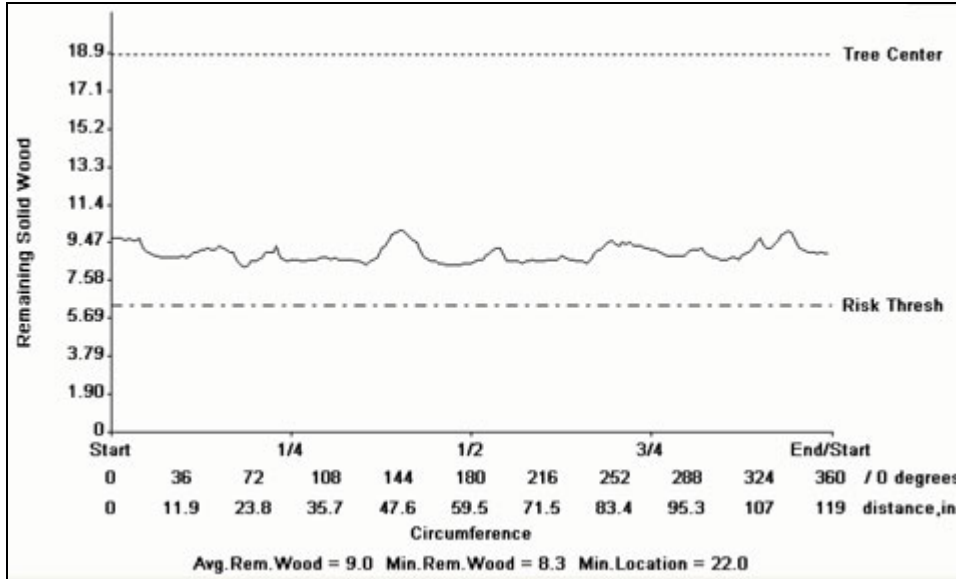


Figure 2. TRU generated plot showing thickness of sound wood on the trunk shown in Figure 1.



Figure 3. Utilizing TRU system to locate roots.