

Tree Risk Awareness Reference Guide

Safety Sub-Committee

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Desired Outcomes

□ Short term

Awareness of Tree Risk Assessment amongst all field personnel

Long Term

- Develop a tree risk assessment reference guide for all field personnel
- Develop a tree risk assessment training program for all field personnel
- Implement a tree risk assessment training program for all field personnel
- O unsafe acts committed as a result of improper tree risk assessment while trimming or removing trees
- O injuries to trimmers as a result of improper tree risk assessment while trimming or removing trees







Reference Guide Components

- Introduction
- Tree Anatomy
- TCIA "Identifying Hazard Trees"
- TCIA "Hazard Tree Quick Check" Decal
- Tree Risk Awareness Checklist
- Tree Identification and Common Tree Defects









Introduction

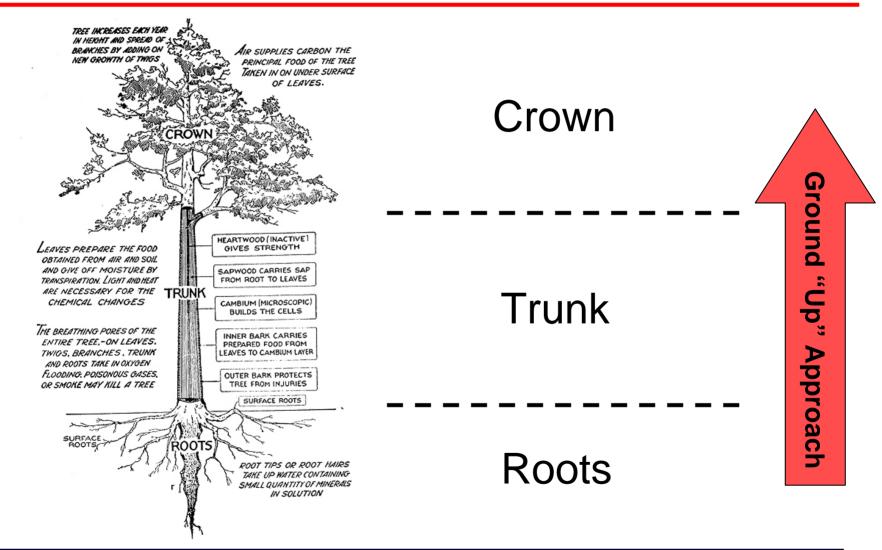
- Tree Risk Awareness Definition
 - Tree risk awareness in this reference guide shall be defined as: "Accurately assessing a trees potential for failure during the course of line clearance activities in regards to the safety of the tree worker".
- Minimum evaluation characteristics
 - Structural stability of the tree: Roots, Trunk, & Limbs
 - Hazards present in and near the tree
 - Tree species
 - Tree location...creek bank, hillside, street, wetlands, backyard
 - Soil conditions







Tree Anatomy



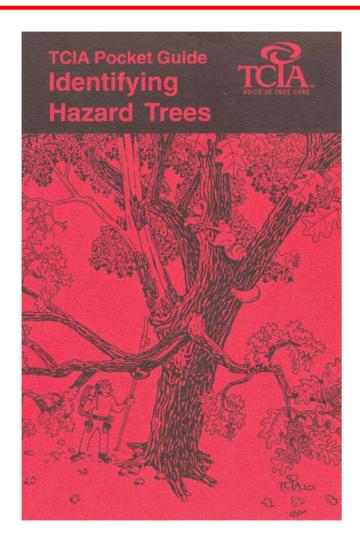




TOWNSEND Tree



A Climbers Guide to Hazard Trees



Identifying Hazard Trees

A TCIA Pocket Guide

Originally published as *The Climber's Guide to Hazard Trees* by the Bartlett

Tree Research Laboratories.

Reproduced and distributed by the Tree Care Industry Association by permission of the F.A. Bartlett Tree Expert Company, Dr. Thomas Smiley and Joseph C. Bones, authors.

Revised in 2000 by TCIA Staff.









Hazard Tree Quick Check

Tree Hazard Decal

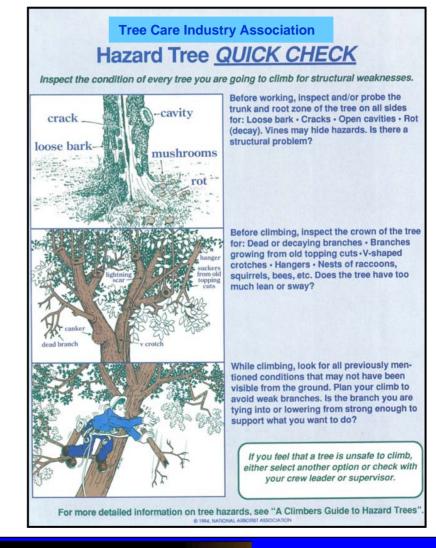
Illustrated self-adhesive color decals for your truck, clipboard, etc.

Available in either vertical (7.5" x 9") or horizontal (5" x 14").

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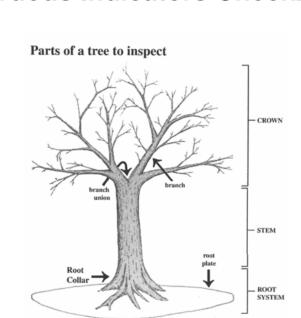




Tree Risk Awareness Checklist

Hazard Tree Awareness

Root System Stem Hazardous Indicators Checklist Decayed wood Decayed roots Mushrooms Cavities / holes Cracks / splits No root flare Signs of fill (dirt, mulch) Mushrooms / conks Ground heave Loose bark Creek bed Stem bulge / swelling Loose / cracked bark Poor architecture Soft or hollow wood Insects (borers, ants) Mounded soil Woodpecker damage Cut roots Adjacent dead trees Girdling roots Multiple stems (trunks) Sap flow / bleeding Canker Too small to climb Soil Entirely dead Compacted Lightning scars Flooded Lean Drought / drv Bent under tension Poor drainage Animals Sandv Vines may hide hazards Shallow



Other Considerations

- Climber's weight
- Strength and/or overuse of roping point
- Ground workers pulling excessively on ropes
- Shock loading
- Climber or cut limb weight shifts

Crown

- Decayed wood
- Deadwood/stubs
- Weak branch union (crotch)
- Top heavy
- Out of balance
- Branches growing from old cuts
- Support cables installed
- Excessive end weight (Lion's tail)
- Cracks/splits
- Weak branch attachments
- Multiple branch attachments
- Animals
- Sap flow/bleeding
- Abrupt bend in branch (weak)
- Storm damage
- Electrical wires











Ameren Tree Identification/Common Tree Defects

Tree Identification and Common Defects Training Module

Silver Maple Tree



- Weak crotches
- Dead limbs throughout the canopy
- The wood is fragile and splits easily









Tree Risk Assessment Training Program

Training program will include the following:

- Basic tree Biology Anatomy
- 2. Tree Care Industry Association "Identifying Hazard Trees"
- Tree Care Industry Association "Hazard Tree Quick Check" decal
- 4. Hazardous indicators check list
- 5. General tree defects
- 6. Common tree species in Missouri and Illinois and some associated defects
- 7. Written exam covering the material presented in the tree risk assessment training program and reference guide









Learning Assessment Test

- Multiple Choice and True/False Exam
- 55 Questions
- Covering all Components of the Reference Guide
- Passing Grade of
 100%









Implementation

- Reference manual is completed. Will need to be copied and distributed to all crews.
- Draft of Training program is completed. Each contractor will need to develop a training schedule for supervision and field personnel.
- Document comprehension of training material thru exam results and performance in the field.
- Training to be completed by April 1, 2007







Questions?





