



# Basic Tree Risk Assessment Form

Client \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_  
 Address/Tree location \_\_\_\_\_ Tree no. \_\_\_\_\_ Sheet \_\_\_\_ of \_\_\_\_  
 Tree species \_\_\_\_\_ dbh \_\_\_\_\_ Height \_\_\_\_\_ Crown spread dia. \_\_\_\_\_  
 Assessor(s) \_\_\_\_\_ Tools used \_\_\_\_\_ Time frame \_\_\_\_\_

## Target Assessment

Target number	Target description	Target protection	Target zone			Occupancy rate 1 - rare 2 - occasional 3 - frequent 4 - constant	Practical to move target?	Restriction practical?
			Target within drip line	Target within 1x Ht.	Target within 1.5x Ht.			
1								
2								
3								
4								

## Site Factors

History of failures \_\_\_\_\_ Topography Flat  Slope  \_\_\_\_\_ % Aspect \_\_\_\_\_

Site changes None  Grade change  Site clearing  Changed soil hydrology  Root cuts  Describe \_\_\_\_\_

Soil conditions Limited volume  Saturated  Shallow  Compacted  Pavement over roots  \_\_\_\_\_ % Describe \_\_\_\_\_

Prevailing wind direction \_\_\_\_\_ Common weather Strong winds  Ice  Snow  Heavy rain  Describe \_\_\_\_\_

## Tree Health and Species Profile

Vigor Low  Normal  High  Foliage None (seasonal)  None (dead)  Normal \_\_\_\_\_ % Chlorotic \_\_\_\_\_ % Necrotic \_\_\_\_\_ %

Pests/Biotic \_\_\_\_\_ Abiotic \_\_\_\_\_

Species failure profile Branches  Trunk  Roots  Describe \_\_\_\_\_

## Load Factors

Wind exposure Protected  Partial  Full  Wind funneling  Relative crown size Small  Medium  Large

Crown density Sparse  Normal  Dense  Interior branches Few  Normal  Dense  Vines/Mistletoe/Moss  \_\_\_\_\_

Recent or expected change in load factors \_\_\_\_\_

## Tree Defects and Conditions Affecting the Likelihood of Failure

### — Crown and Branches —

Unbalanced crown  LCR \_\_\_\_\_ %

Dead twigs/branches  \_\_\_\_\_ % overall

Broken/Hangers Number \_\_\_\_\_

Over-extended branches

#### Pruning history

Crown cleaned

Thinned

Raised

Reduced

Topped

Lion-tailed

Flush cuts

Other \_\_\_\_\_

Cracks  Lightning damage

Codominant  Included bark

Weak attachments  Cavity/Nest hole \_\_\_\_\_ % circ.

Previous branch failures  Similar branches present

Dead/Missing bark  Cankers/Galls/Burls  Sapwood damage/decay

Conks  Heartwood decay

Response growth \_\_\_\_\_

Condition(s) of concern \_\_\_\_\_

Part Size \_\_\_\_\_ Fall Distance \_\_\_\_\_

Load on defect N/A  Minor  Moderate  Significant

Likelihood of failure Improbable  Possible  Probable  Imminent

Part Size \_\_\_\_\_ Fall Distance \_\_\_\_\_

Load on defect N/A  Minor  Moderate  Significant

Likelihood of failure Improbable  Possible  Probable  Imminent

### — Trunk —

Dead/Missing bark  Abnormal bark texture/color

Codominant stems  Included bark  Cracks

Sapwood damage/decay  Cankers/Galls/Burls  Sap ooze

Lightning damage  Heartwood decay  Conks/Mushrooms

Cavity/Nest hole \_\_\_\_\_ % circ. Depth \_\_\_\_\_ Poor taper

Lean \_\_\_\_\_ ° Corrected? \_\_\_\_\_

Response growth \_\_\_\_\_

Condition(s) of concern \_\_\_\_\_

Part Size \_\_\_\_\_ Fall Distance \_\_\_\_\_

Load on defect N/A  Minor  Moderate  Significant

Likelihood of failure Improbable  Possible  Probable  Imminent

### — Roots and Root Collar —

Collar buried/Not visible  Depth \_\_\_\_\_ Stem girdling

Dead  Decay  Conks/Mushrooms

Ooze  Cavity  \_\_\_\_\_ % circ.

Cracks  Cut/Damaged roots  Distance from trunk \_\_\_\_\_

Root plate lifting  Soil weakness

Response growth \_\_\_\_\_

Condition(s) of concern \_\_\_\_\_

Part Size \_\_\_\_\_ Fall Distance \_\_\_\_\_

Load on defect N/A  Minor  Moderate  Significant

Likelihood of failure Improbable  Possible  Probable  Imminent

#### *Matrix I. Likelihood matrix.*

Likelihood of Failure	Likelihood of Impact			
	Very low	Low	Medium	High
Imminent	Unlikely	Somewhat likely	Likely	Very likely
Probable	Unlikely	Unlikely	Somewhat likely	Likely
Possible	Unlikely	Unlikely	Unlikely	Somewhat likely
Improbable	Unlikely	Unlikely	Unlikely	Unlikely

### *Matrix 2. Risk rating matrix.*

Likelihood of Failure & Impact	Consequences of Failure			
	Negligible	Minor	Significant	Severe
Very likely	Low	Moderate	High	Extreme
Likely	Low	Moderate	High	High
Somewhat likely	Low	Low	Moderate	Moderate
Unlikely	Low	Low	Low	Low

## Notes, explanations, descriptions

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### Mitigation options

- |    |       |                     |
|----|-------|---------------------|
| 1. | _____ | Residual risk _____ |
| 2. | _____ | Residual risk _____ |
| 3. | _____ | Residual risk _____ |
| 4. | _____ | Residual risk _____ |

**Overall tree risk rating** Low  Moderate  High  Extreme

**Overall residual risk**    None     Low     Moderate     High     Extreme     **Recommended inspection interval**

Data    Final    Preliminary   **Advanced assessment needed**    No    Yes-Type/Reason

**Inspection limitations**  None  Visibility  Access  Vines  Root collar buried. Describe

