



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

- ---

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

