



# Basic Tree Risk Assessment Form

Client \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_  
 Address/Tree Location \_\_\_\_\_ Tree No. \_\_\_\_\_ Sheet \_\_\_\_\_ of \_\_\_\_\_  
 Tree Species \_\_\_\_\_ DBH \_\_\_\_\_ Height \_\_\_\_\_ Crown Spread Dia. \_\_\_\_\_  
 Assessor(s) \_\_\_\_\_ Time Frame \_\_\_\_\_ Tools \_\_\_\_\_

## Target Assessment

Target N°	Target Description	Within drip line	Within 1 x Ht	Within 1.5x Ht	Occupancy 1 – rare, 2 – occasional, 3 – frequent, 4 – constant	Practical to move target	Restriction practical
1							
2							
3							
4							

## Site Factors

**History of failures**  No  Yes \_\_\_\_\_ **Topography**  Flat  Slope \_\_\_\_\_ % **Aspect** \_\_\_\_\_  
**Site changes**  None  Grade change  Site clearing  Changed soil hydrology  Root cuts Describe \_\_\_\_\_  
**Soil conditions**  Limited volume  Saturation  Shallow  Compaction  Pavement over roots \_\_\_\_\_ % Describe \_\_\_\_\_  
**Local climate** Prevailing wind direction \_\_\_\_\_ Common  High winds  Ice  Snow  High rain Describe \_\_\_\_\_

## Tree Health

**Vigor**  Low  Medium  High **Foliage**  No foliage \_\_\_ Normal \_\_\_ Chlorotic \_\_\_ Necrotic **Pests, abiotic** \_\_\_\_\_

## Load Factors

**Wind exposure**  Protected  Partial  Full  Wind funneling \_\_\_\_\_ **Relative crown size**  Small  Medium  Large  
**Crown density**  Sparse  Norm  Dense **Interior branches**  Few  Norm  Dense **Form**  Symmetric  Minor asymmetry  Asymmetric  
**Witches broom/Vine/Mistletoe/Moss**  No  Yes \_\_\_\_\_ **Mass above main defect**  Low  Med  High \_\_\_\_\_

## Defects and Conditions Affecting the Likelihood of Failure

### — Crown —

Dead Twigs/Branches  \_\_\_\_\_ % overall Max. dia: \_\_\_\_\_  
 Broken branches/Hangers  N° \_\_\_\_\_ Max. dia: \_\_\_\_\_  
 Unbalanced  LCR \_\_\_\_\_ %

#### Pruning history

Topped  Reduced  Raised  Thinned  Lion-tailed

Main Concern(s): \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Likelihood of failure: Imminent  Probable   
 Possible  Improbable

### — Branches —

Dead/Missing bark  Cracks   
 Previous failures  Similar branches present? \_\_\_\_\_  
 Sapwood damage/Decay  Cankers/Galls/Burls  Conks   
 Lightning damage  Heartwood decay   
 Cavity/Nest hole \_\_\_\_\_ % circ. Over-extended branches   
 Flush Cuts  Weak attachments  N° \_\_\_\_\_  
 Response growth: \_\_\_\_\_

Main Concern(s): \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Likelihood of failure: Imminent  Probable   
 Possible  Improbable

### — 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 \_\_\_\_\_  
 Lean \_\_\_\_\_ ° Corrected? \_\_\_\_\_

Trunk taper:  Low  Medium  High  
 Response growth: \_\_\_\_\_

Main Concern(s): \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Likelihood of failure: Imminent  Probable   
 Possible  Improbable

### — Roots —

Collar buried/Not visible  depth \_\_\_\_\_ Stem girdling   
 Dead/Missing  Decay  Conks/Mushrooms   
 Ooze  Cavity  \_\_\_\_\_ % circ.  
 Cracks  Cut/Damaged roots  distance from trunk \_\_\_\_\_  
 Root plate lifting  Soil weakness

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

Main Concern(s): \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Likelihood of failure: Imminent  Probable   
 Possible  Improbable

# Risk Assessment

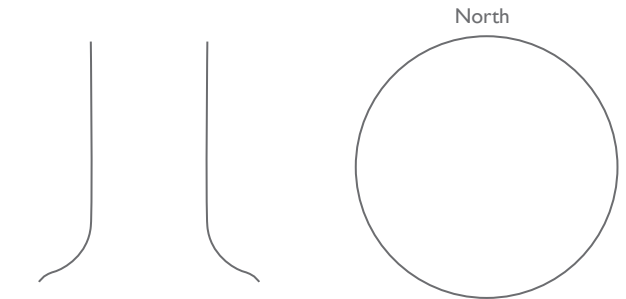
Condition N°	Tree Part	Conditions of Concern	Part Size	Fall Distance	Target N°	Target Protection	Likelihood								Consequences				Part Risk Rating (from Table2)				
							Failure				Impact				Failure & Impact					Negligible	Minor	Significant	Severe
							Improbable	Possible	Probable	Imminent	Very Low	Low	Medium	High	Unlikely	Somewhat	Likely	Very Likely					
1																							
2																							
3																							
4																							

Table 1. Guide to estimating the likelihood of failure and impact.

Likelihood of Failure	Likelihood of Impacting Target			
	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


Table 2. Guide to estimating level of risk.

Likelihood of Failure & Impact	Consequences of the Tree 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 \_\_\_\_\_ RR \_\_\_\_\_  
 \_\_\_\_\_ RR \_\_\_\_\_  
 \_\_\_\_\_ RR \_\_\_\_\_  
 \_\_\_\_\_ RR \_\_\_\_\_

**Tree Risk Rating**    Low     Moderate     High     Extreme     **Work Priority**    1     2     3     4   
**Residual Risk (RR)**    Low     Moderate     High     Extreme     **Inspection Interval** \_\_\_\_\_

**Data**  Final     Preliminary – **Advanced assessment needed**  No     Yes-Type/Reason \_\_\_\_\_  
**Inspection limitations**  None     Visibility     Access     Vines     Root Collar Buried. Describe \_\_\_\_\_