

BCTS Coastal Windthrow Assessment Calibration FORM 1 – Side A

ADMINISTRATIVE				
Location	Opening ID	Block #	Examiner/Date	Segment/Portion

COMPARISON OF PREDICTED WINDTHROW TO THRESHOLDS:

1. Complete the BCTS Coastal Windthrow Hazard & Likelihood Assessment (FORM 2) in a nearby 2-5 year old cutblock on a high treatment hazard boundary that has damage levels typical of what you have observed in your review of aerial photographs from the area, and similar to high treatment hazard boundaries in your proposed cutblock(s).
2. Record the initial evaluation of windthrow likelihood and hazard components from the Assessment Card.

Initial Evaluation (transfer from an Assessment Card – Form 2)

	Very High	High	Moderate	Low	Very Low	None
Topographic Hazard	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Soil Hazard	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stand Hazard	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overall Biophysical Hazard	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Treatment Hazard	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Windthrow Likelihood	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CALIBRATION – of windthrow likelihood classification

3. Record observed damage on calibration boundary.

Estimates of Actual Windthrow Damage – to help refine predictions

Measured windthrow penetration into edge	Average (m)		Range (min to max)	
Estimated amount of windthrow throughout the penetration zone	Average % of total m ² /ha		10% Range (e.g. 30-40 m ² /ha)	

Actual Damage Calibration Categories - to calibrate windthrow likelihood class

Basal Area (m ² /ha) Damaged	High	Mod	Low	Estimate
In the First Tree Length from the edge	<input type="checkbox"/> >70%	<input type="checkbox"/> 10-70%	<input type="checkbox"/> <10%	_____ %
In the Second Tree Length	<input type="checkbox"/> >70%	<input type="checkbox"/> 10-70%	<input type="checkbox"/> <10%	
In the Third Tree Length	<input type="checkbox"/> >70%	<input type="checkbox"/> 10-70%	<input type="checkbox"/> <10%	
	<input type="checkbox"/> Extensive	<input type="checkbox"/> Extensive	<input type="checkbox"/> Extensive	

4. Look up the expected level of damage for your initial Windthrow Likelihood Class on SIDE B of this Form, and compare with actual damage calibration categories.

BCTS Coastal Windthrow Assessment Calibration FORM 1 – Side B

DIAGNOSTIC QUESTION FOR CALIBRATION: Is the level of damage observed along the calibration boundary consistent with that expected for the estimated class of Windthrow Likelihood? (See table below)

IF	Action
<input type="checkbox"/> Yes, damage is consistent with expected level	Use the topographic, soils and stand indicators as done here to indentify hazard classes for each of the Exposure, Soil, and Stand Hazard components - on similar edges in proposed cutblocks.
<input type="checkbox"/> No, there is LESS damage	Consider which of the component hazards (Exposure, Soils, or Stand) might have been rated too highly in the initial evaluation. Adjust ratings accordingly for similar edges in proposed cutblocks.
<input type="checkbox"/> No, there is MORE damage	Consider which of the component hazards (Exposure, Soils, or Stand) might have been rated too low in the initial evaluation. Adjust ratings accordingly for similar edges in proposed cutblocks.
<p>5. Use the adjusted interpretations and ratings for classifying Soils, Topography and Stand Hazards for proposed cutblocks.</p> <p>6. Alternatively, if you think one of the three component hazards should be weighted more heavily then adjust the weighting factors (for this area) – see the numerical factors at the bottom of the Assessment Form 2.</p>	

EXPECTED DAMAGE – for the estimated class of windthrow likelihood

Windthrow Likelihood Class	Expected Damage
Very Low	Little or no damage along recent cutblock edges or in recent partial cut strata.
Low	Less than 10% of the basal area is uprooted or snapped along recent cutblock edges. Less than 5% in recent partial cut strata.
Moderate	Partial damage along recent cutblock edges. Between 10 and 70 percent of the basal area is in uprooted or snapped trees within the first tree length in from the edge. Between 5 and 30 percent of the basal area damaged within recent partial cut strata.
High	Heavy damage along recent cutblock edges. More than 70% of the basal area within the first tree length damaged (less than 30% remains standing). Between 30 and 70% of the basal area is damaged within recent partial cut strata.
Very High	Very severe damage along recent cutblock edges. More than 70% of the basal area damaged in both the first and second tree lengths into the edge (and damage may extend beyond the second tree length). More than 70% of basal area damaged in recent partial cut strata.