Hazard Tree and Wildlife Tree Awareness

Blue Collar Silviculture Ltd.



Wildlife Tree

- A wildlife tree is any standing dead or live tree with special characteristics that provide valuable habitat for wildlife.
- Characteristics of a high wildlife tree value are:
 - Internal decay (heartrot or natural/excavated cavities present)
 - A sound, firm stem shell
 - Crevices present (loose bark or cracks suitable for bats)
 - Large brooms present
 - Active or recent wildlife use (feeding, nesting, denning)
 - Tree structure suitable for wildlife use (suitable for large nest, hunting perch sites, bear den, etc.)
 - Largest trees for site (height and/or diameter) and veteran trees
 - Locally important wildlife tree species
 - Favourably located for use by wildlife









Dangerous Tree

- A tree (live or dead, regardless of size) that is a hazard to a worker due to:
 - Its location or lean
 - Its physical damage
 - Overhead conditions
 - Deterioration of its limbs, stem, or root system
 - Any combination of the conditions above



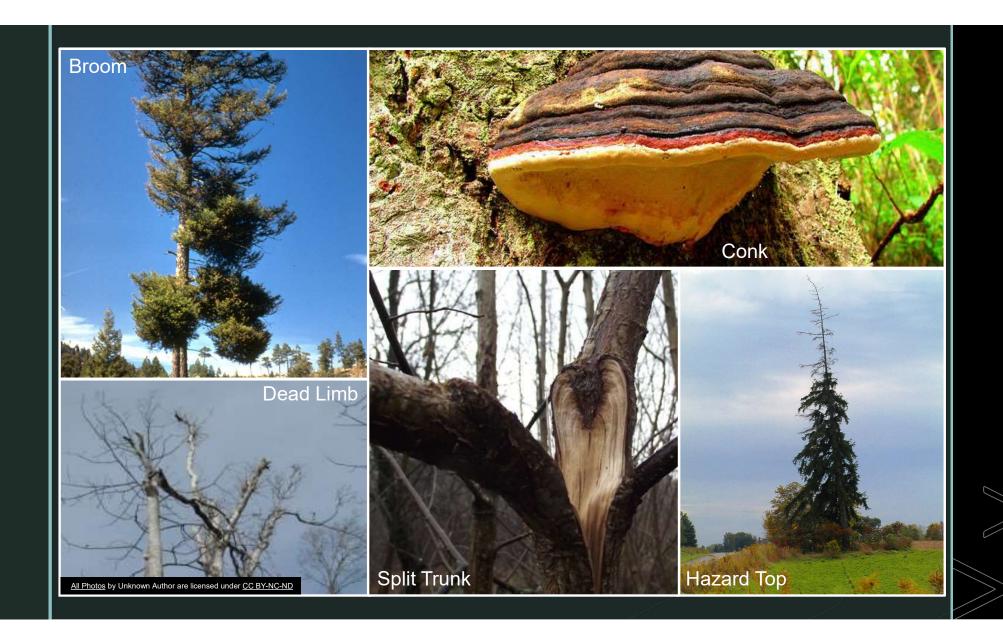




Hazards of Dangerous Trees

- Conks or mushrooms assume that heart rot conks are dangerous indicators of advanced internal decay.
 Mushrooms on the lower bole or roots of the tree might indicate root disease. Root damage or leaning tree if more than 25% of the major support roots are lifted/rotten.
- **Dead limbs** consider the size of the dead limbs (e.g.10 cm for most species) and height above the ground. These are particularly dangerous where there are signs of weakness (e.g. visual sign of decay, cracking, sloughing or hanging). Witches' brooms watch for large brooms (1 meter in bulk size) on weak, dead limbs.
- Hazard top dead tops and secondary tops are particularly dangerous where there are visual signs of weakness (e.g. splits, cavities, shrubs growing out of forks, conks, signs of advanced rot). Snags with weak tops are also dangerous where 20% of the tree height is an unstable top.
- Thick sloughing bark.
- Split trunk deep cracks with internal decay indicates serious weakness where tree could fail.





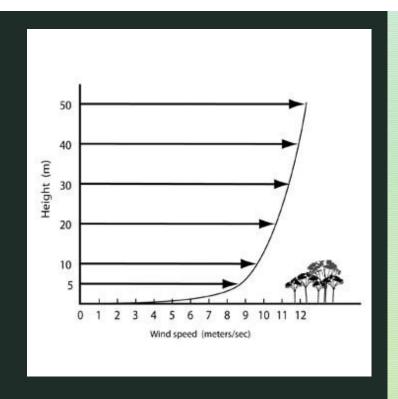
Danger Tree Assessment



Video By: SAFER – Safety Advisory Foundation for Education & Research

Wind

- Wind increases the risk of being struck by a hazard tree or a limb from a tree.
- When winds present a hazard, stay two tree lengths from trees or the tree line.
- Wind speed ALWAYS increases with increase in elevation.



Wind Speed Indicators:

- Low (<10 km/hr): Leaves and small twigs in constant motion; wind extends light flag.
- Moderate (10-20km/hr, gusts >30km/hr): Small trees sway, maps/paper difficult to hold still.
- *High* (>20km/hr, gusts >40km/hr): Whole trees in motion, clouds moving rapidly, rain blowing sideways.
- If you can't tell, assume the wind is high.

Beaufort Scale

Beaufort number	Wind Speed (mph)	Seaman's term	Effects on Land
0	Under 1	Calm	Calm; smoke rises vertically.
1	1-3	Light Air	Smoke drift indicates wind direction; vanes do not move.
2	4-7	Light Breeze	Wind felt on face; leaves rustle; vanes begin to move.
3	8-12	Gentle Breeze	Leaves, small twigs in constant motion; light flags extended.
4	13-18	Moderate Breeze	Dust, leaves and loose paper raised up; small branches move.
5	19-24	Fresh Breeze	Small trees begin to sway.
6	25-31	Strong Breeze	Large branches of trees in motion; whistling heard in wires.
7	32-38	Moderate Gale	Whole trees in motion; resistance felt in walking against the wind.
8	39-46	Fresh Gale	Twigs and small branches broken off trees.
9	47-54	Strong Gale	Slight structural damage occurs; slate blown from roofs.
10	55-63	Whole Gale	Seldom experienced on land; trees broken; structural damage occurs.
11	64-72	Storm	Very rarely experienced on land; usually with widespread damage.
12	73 or higher	Hurricane Force	Violence and destruction.



For More Information Visit:

- BCFSC: http://www.bcforestsafe.org/
- WorkSafeBC: https://www.worksafebc.com/en
- SAFER: http://www.safer.ca/
- Fs502:

 https://www.for.gov.bc.ca/isb/forms/lib/fs502.pdf
- Wildlife/danger tree assessor course workbook:

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