

## Fisher Habitat Management Decision Tables: Sub-Boreal Habitat Zone

### What is this table?

This table is a comprehensive reference tool developed to inform forest management decisions within the range of fishers in British Columbia. It provides concise descriptions and targets for habitat amounts for denning, resting, foraging, and movement habitat specific to the Sub-Boreal Habitat Zone. The below information will assist British Columbia forest licensees in development of cutting permits and managing operations by providing specific minimum values for select habitat targets identified and discussed for fisher in the Account and Measures for Managing Identified Wildlife (Badry 2004). By evaluating and integrating the described minimum targets, licensees can minimize the effects of forest practices, maintain potentially limiting fisher habitats within their tenures, and meet obligations under the Forest and Range Practices Act. This document provides guidance for managing fisher habitat in British Columbia. The guidance is intended to inform resources professionals and is not to be interpreted as direction nor is it legally binding. Additional information and other forest management planning tools are available at: [www.BCfisherhabitat.ca](http://www.BCfisherhabitat.ca).

### Forest Management Considerations:

Decisions affecting fisher habitat occur in all phases of forest management. To ensure sufficient amounts of suitable habitat exists throughout the landscape, it is necessary to consider the distribution, abundance, and connectivity of habitats in areas comparable in size to a fisher home range. Harvest prescriptions that provide for sufficient retention and recruitment of structural attributes in managed stands and all stages of forest development – including a range of stem sizes, decay classes, and the ecological processes that create these structures – benefit fishers and ensure habitat is maintained in the short- and long-term. Management practices that suppress disease, death, and decay of trees or remove older-aged forests will have a detrimental effect on the supply of vital forest components fishers need for reproduction, security, and thermal cover. Balanced forest management planning plays a key role in the ability of the landscape to support fishers.

### Terminology used in the table

1. **Fisher life history component** - Lists key categories of fisher life activities for which specific habitat attributes and values have been identified as important in the Habitat Zone.
2. **Maintaining habitat within landscapes** - Contains descriptions and amounts of important habitats required by fishers within a 50km<sup>2</sup> or 25km<sup>2</sup> **fisher implementation unit**<sup>1</sup>.
  - a. **Type I** - Describes forest stands using common attributes identifiable in the VRI (Vegetation Resources Inventory; <https://www.for.gov.bc.ca/hts/vri/>). Type I fisher habitats are forested stands that usually support at least 75% of fishers' use for a given life activity (i.e., denning, resting, foraging, movement). Type II stands do not meet the minimum targets identified for Type I stands, but still support use by fishers and are important for fisher survival and reproduction.
  - b. **Amount** - Provides the minimum area of Type I stands that support a female fisher within a 50km<sup>2</sup> or 25km<sup>2</sup> **fisher implementation unit**. Harvest planning and practices should be considered at the both the fisher implementation unit and cutblock level to determine potential effect on fisher habitat.
3. **Maintaining habitat within cutblocks** - Identifies the minimum characteristics of important **Structural Attributes** (i.e., "suitable" habitat structures and patches used by fishers) and provides **Strategies** to address fisher habitat needs within a cutblock. These values should be considered for integration into cutting permit tree retention guidelines. Type I stands will contain most of the structures used by a fisher in its home range, but a lower density of structures can be found and should be present in Type II stands.
4. **Why** - This column describes *why* these attributes are required for fishers. Note that multiple fisher life history components can be met by the same tree, patch, or stand. For example, a particular patch of trees could be used for denning, resting, and foraging.

### How to apply this information to a Cutting Permit (Pre-harvest):

1. Download Fisher Spatial Data from [www.BCfisherhabitat.ca](http://www.BCfisherhabitat.ca) for the Habitat Zone in which you are working. The Fisher Spatial Data identifies "Type I" stands and "Amount" as identified in the below table. Type I habitat has been analyzed within the 50km<sup>2</sup> or 25km<sup>2</sup> area surrounding each stand identified in VRI, with results aggregated to each stand including an identification of whether sufficient amounts of Type I habitat are present. Spatial data is available for the following fisher habitat life history components: Denning, Resting: Rust broom sites, Resting: Cavity sites, and Resting: Coarse Woody Debris Sites within the Sub-Boreal Habitat Zone.
2. Overlay proposed Cutting Permit boundaries on fisher spatial data layer. Identify the Stand Condition (Type I or Type II) and Landscape Conditions for each fisher habitat life history component in the proposed cutblocks.
3. Summarize the amount of Type I and Type II stands within each cutblock. We recommend table format for future reference and ease of pre- and post-harvest comparison.

<sup>1</sup> Two different sized areas are used for fisher implementation units in the Sub-Boreal Habitat Zone based upon the size of an average female home range in the Sub-Boreal forests of British Columbia. Specifically, female home ranges in moist/wet subzones are larger (50km<sup>2</sup>) than female home ranges in dry subzones (25km<sup>2</sup>). The respective home range sizes represent the area that should meet all the habitat requirements for a female fisher in each subzone type. Male home ranges typically overlap 1 or more female home range so their needs (all habitat components except rearing/breeding habitat) would be met by the requirements identified for female fishers.

**Fisher Habitat Table: Sub-Boreal Habitat Zone** (*Moist or wet SBS: SBSwk, SBSmk, SBSmm, SBSmw; Dry SBS: SBSdw, SBSdh, SBSd*)

Fisher life history component	Maintaining habitat within landscapes		Maintaining habitat within cutblocks		Why? these attributes are required for fishers
	Type I VRI stand descriptions of important habitats	Amount of Type I to maintain in a 50-km <sup>2</sup> (moist/wet subzone) or 25-km <sup>2</sup> (dry subzone) implementation unit <sup>2</sup>	Structural Attributes identify characteristics of important habitat structures and patches	Strategies to maintain habitat	
<b>Denning habitat</b>	<p><u>Moist/wet subzones:</u></p> <ul style="list-style-type: none"> <li>Black cottonwood (Act) leading, secondary, or tertiary species (or hybrid spruce (Sx) as only species)</li> <li>Crown closure ≥30%</li> <li>QMD_125 ≥28.5 cm</li> <li>Basal area ≥29.7 m<sup>2</sup>/ha</li> <li>Stand age ≥125 years</li> </ul> <p><u>Dry subzones:</u></p> <ul style="list-style-type: none"> <li>Act leading, secondary, or tertiary species (or hybrid spruce (Sx) as only species)</li> <li>Crown closure ≥20%</li> <li>QMD_125 ≥28 cm</li> <li>Basal area ≥28 m<sup>2</sup>/ha</li> <li>Stand age ≥125 years</li> </ul>	<p><u>Type I stands:</u></p> <ul style="list-style-type: none"> <li><u>Moist/wet subzones:</u> 247 ha needed per 50-km<sup>2</sup> (4.9% of implementation unit)</li> <li><u>Dry subzones:</u> 129 ha needed per 25-km<sup>2</sup> (5.2% of implementation unit)</li> </ul>	<p><u>Tree characteristics:</u></p> <ul style="list-style-type: none"> <li>Black cottonwood (Act) ≥90 cm dbh, declining<sup>3</sup> with ≥60% total cover (tree and shrub combined) immediately surrounding.</li> <li>The most valuable trees for present use by fisher have cavities with entrance holes (&gt;1.5m from ground) that have typical dimensions of 5–10 cm wide by 7–15 cm tall.</li> </ul>	<ul style="list-style-type: none"> <li>In general, harvested areas will not contain viable denning sites unless suitable trees are retained <i>and</i> forest cover is protected or develops sufficiently to provide security cover.</li> <li>Train field crews to identify suitable trees (i.e., those with minimum structural attributes) for retention in proposed cutblock.</li> <li>Protect suitable trees singly or in windfirm wildlife tree patches, and where practical, maintain advanced regen/brush around the trees to provide concealment cover (tree and shrub combined).</li> <li>Larger Act trees (&gt;30 cm dbh) with multiple wounds or decay sites are important for the recruitment of future den trees.</li> </ul>	<ul style="list-style-type: none"> <li>Fishers require den cavities for birthing and raising their young. In the Sub-Boreal forest, den cavities have only been found in larger diameter black cottonwood trees containing heart-rot cavities.</li> <li>Female fishers often use more than one den tree in a single year. Given this, fishers need multiple suitable trees for the present and will also require new den trees to develop in the future when existing trees fall.</li> <li>Type II stands can also occasionally benefit denning fishers if scattered trees or small patches of trees with the required structural attributes have been retained.</li> </ul>
<b>Resting habitat: Rust broom sites</b>	<p><u>Moist/wet subzones:</u></p> <ul style="list-style-type: none"> <li>Hybrid spruce (Sx) leading, secondary, or tertiary species.</li> <li>Crown closure ≥30%</li> <li>QMD_125 ≥22.7 cm</li> <li>Basal area ≥35 m<sup>2</sup>/ha</li> <li>Stand age ≥135 years</li> <li>Stand height ≥23.7 m</li> </ul> <p><u>Dry subzones:</u></p> <ul style="list-style-type: none"> <li>Sx leading, secondary, or tertiary species</li> <li>Crown closure ≥25%</li> <li>QMD_125 ≥19.6 cm</li> <li>Basal area ≥32 m<sup>2</sup>/ha</li> <li>Stand age ≥72 years</li> </ul>	<p><u>Type I stands:</u></p> <ul style="list-style-type: none"> <li><u>Moist/wet subzones:</u> 1095 needed per 50-km<sup>2</sup> (21.9% of implementation unit)</li> <li><u>Dry subzones:</u> 544 ha of needed per 25-km<sup>2</sup> (21.8% of implementation unit)</li> </ul>	<p><u>Tree characteristics:</u></p> <ul style="list-style-type: none"> <li>Hybrid spruce (Sx) ≥39 cm dbh with rust brooms</li> <li>Rust brooms should be &gt;40 cm diameter to provide a platform for fisher</li> </ul>	<ul style="list-style-type: none"> <li>Resting habitat should be provided in a well dispersed arrangement where possible.</li> <li>Where possible, protect the trees in windfirm wildlife tree patches with crown closure ≥30% in wet/moist subzones and ≥25% in dry subzones.</li> </ul>	<ul style="list-style-type: none"> <li>Tree-based rest sites provide fishers with places to rest and offer protection from predators, thermal cover, and opportunities for prey detection.</li> <li>Rust brooms are used year round, but are used more often when temperatures are moderate (i.e., &gt; minus 10° C).</li> <li>Type II stands can also occasionally benefit resting fishers if scattered trees or small patches of trees with the required structural attributes have been retained.</li> </ul>

<sup>2</sup> Fishers in moist/wet subzones have a larger home range (50km<sup>2</sup>) than fishers in dry subzones (25km<sup>2</sup>). The respective home range sizes represent the area that should meet all the habitat requirements for a female fisher in each subzone type.

<sup>3</sup> Declining: appearance code 2; tree live, but unhealthy; internal decay or growth deformities present; often dead leader (DTEIF 1990).

Fisher life history component	Maintaining habitat within landscapes		Maintaining habitat within cutblocks		Why? these attributes are required for fishers
	Type I VRI stand descriptions of important habitats	Amount of Type I to maintain in a 50-km <sup>2</sup> (moist/wet subzone) or 25-km <sup>2</sup> (dry subzone) implementation unit <sup>2</sup>	Structural Attributes identify characteristics of important habitat structures and patches	Strategies to maintain habitat	
<b>Resting habitat:</b>  <b>Cavity sites</b>	<u>Black cottonwood (Act) or trembling aspen (At)</u> (in all subzones): <ul style="list-style-type: none"> <li>Act or At leading, secondary, or tertiary species</li> <li>Crown closure ≥25%</li> <li>QMD_125 ≥30 cm</li> <li>Basal area ≥32 m<sup>2</sup>/ha</li> <li>Stand height ≥35 m</li> </ul>	<u>Type I stands:</u> <ul style="list-style-type: none"> <li><u>Moist/wet subzones:</u> 10 ha needed per 50-km<sup>2</sup> (0.2% of implementation unit)</li> <li><u>Dry subzones:</u> 15 ha needed per 25-km<sup>2</sup> (0.6% of implementation unit)</li> </ul>	<u>Tree characteristics:</u> <u>Moist/wet subzones:</u> <ul style="list-style-type: none"> <li>Black cottonwood (Act) ≥77 cm dbh, ≥23 m tall, surrounded by 70% total cover (tree and shrub combined) immediately surrounding</li> <li>Trembling aspen (At) ≥59 cm dbh, ≥14 m tall, surrounded by 25% total cover (tree and shrub combined) immediately surrounding</li> </ul> <u>Dry subzones:</u> <ul style="list-style-type: none"> <li>Act and At as described above</li> <li>Douglas fir (Fd) ≥97 cm dbh, ≥29 m tall with advanced decay, surrounded by 55% total cover (tree and shrub combined) immediately surrounding</li> </ul>	<ul style="list-style-type: none"> <li>In general, harvested areas will not contain viable denning sites unless suitable trees are retained and forest cover is protected or develops sufficiently to provide security cover.</li> <li>Train field crews to identify suitable trees for retention in proposed cutblock.</li> <li>Train field crews to identify suitable trees (i.e., those with minimum structural attributes) for retention in proposed cutblock.</li> <li>Protect suitable trees singly or in windfirm wildlife tree patches, and where practical, maintain advanced regen/brush around the trees to provide concealment cover (tree and shrub combined).</li> </ul>	<ul style="list-style-type: none"> <li>Rest sites in tree cavities provide fishers with safer and thermally superior rest sites than branches.</li> <li>Cavity rest sites may also act as reproductive dens. However, females appear to require smaller entrance holes to denning cavities than to resting cavities; likely to provide greater protection for their kits.</li> </ul>
<b>Resting habitat:</b>  <b>Coarse woody debris sites</b>	<u>CWD rest stands</u> (in all subzones): <ul style="list-style-type: none"> <li>QMD_125 ≥22.7 cm</li> <li>Stand age ≥135 years</li> <li>Stand height ≥23.7 m</li> </ul>	<u>Type I stands:</u> <ul style="list-style-type: none"> <li><u>Moist/wet subzones:</u> 1,410 ha needed per 50-km<sup>2</sup> (28.2% of implementation unit)</li> <li><u>Dry subzones:</u> 371 ha needed per 25-km<sup>2</sup> (14.8% of implementation unit)</li> </ul>	<u>Single piece CWD characteristics:</u> <ul style="list-style-type: none"> <li>≥35 cm diameter</li> <li>≥7 m in length</li> <li>Decay class 2-3<sup>4</sup></li> <li>Elevated 25-50 cm above ground.</li> <li>Any tree species</li> </ul> <u>Man-made CWD piles:</u> <ul style="list-style-type: none"> <li>Minimum pile dimensions ≥3 m wide by 5 m long by 2 m high</li> <li>CWD piles should have ≥30% pieces ≥20 cm diameter ≥3 m long</li> </ul>	<ul style="list-style-type: none"> <li>Protect natural accumulations of CWD using machine free zones, or create piles of CWD using machinery.</li> <li>Future Type I CWD rest sites can be created in harvested areas by reserving suitable pieces and by creating piles of woody debris.</li> <li>Man-made piles should be at <i>minimum</i> ≥20 m<sup>3</sup>.</li> <li>Pieces should not be stacked neatly, but be in a jumbled pile to create spaces for fishers.</li> </ul>	<ul style="list-style-type: none"> <li>The long, thin body of a fisher is susceptible to cold due to their high surface area to body weight ratio.</li> <li>Micro-habitats that minimize heat loss are important for fishers, especially for areas with cold winter climates such as B.C.</li> <li>Together, CWD and snow provide fishers with thermally efficient rest sites during winter.</li> </ul>

<sup>4</sup> Decay class 2: intact log, hard to partly decaying, elevated but slightly sagging, bark intact or partly missing; Decay class 3: hard large pieces, partly decaying, sagging near ground or broken, traces of bark (DTEIF 1990).

Fisher life history component	Maintaining habitat within landscapes		Maintaining habitat within cutblocks		Why? these attributes are required for fishers
	Type I VRI stand descriptions of important habitats	Amount of Type I to maintain in a 50-km <sup>2</sup> (moist/wet subzone) or 25-km <sup>2</sup> (dry subzone) implementation unit <sup>2</sup>	Structural Attributes identify characteristics of important habitat structures and patches	Strategies to maintain habitat	
<b>Movement habitat</b>	<p><u>Movement stands:</u></p> <ul style="list-style-type: none"> <li>Total cover ≥50% (≥30% shrub and ≥20% tree cover)</li> </ul>	<p><u>Type I stands:</u></p> <ul style="list-style-type: none"> <li>Moist/wet subzones: 3060 ha needed per 50-km<sup>2</sup> (61.2% of implementation unit)</li> <li>Dry subzones: 770 ha needed per 25-km<sup>2</sup> (30.8% of implementation unit)</li> </ul>	<p><u>Tree/CWD characteristics:</u></p> <ul style="list-style-type: none"> <li>Movement habitat is likely suitable if total cover (combination of tree and shrub cover) is &gt;20% AND structural attributes that provide cover or facilitate escape from predators are available (see resting habitat for structure descriptions).</li> </ul>	<ul style="list-style-type: none"> <li>Avoid leaving large areas without some kind of connective cover.</li> <li>Continuous cover is best, but if not practicable, design cutblocks to promoting corridors or connectivity.</li> <li>Habitat can be supplied in harvested areas using:                             <ul style="list-style-type: none"> <li>riparian and other reserves</li> <li>non-merchantable patches</li> <li>single tree retention</li> <li>regen patches</li> <li>CWD piles</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Movement habitat is needed so fishers can safely travel between important habitats within their home range, and to access new areas when dispersing.</li> <li>Fishers are adverse to crossing areas &gt;50 m (i.e., “dash distance”) without cover or other escape habitat.</li> <li>Creating escape cover (e.g., CWD piles) throughout cutblocks will help fishers travel through and forage within the regenerating stand until cover returns (~10 to 20 years).</li> </ul>
<b>Foraging habitat: Snowshoe hare</b>	<p><u>Optimal snowshoe hare stands:</u></p> <ul style="list-style-type: none"> <li>Average tree height ≥3 m</li> <li>Tree density: ≥8000 stems/ha optimal, &gt;3000 stems/ha required to provide any habitat value</li> <li>Cover (trees and shrubs &lt;3 m) 80-100% optimal, 30-80% increasing suitability, and &lt;30% unsuitable for hare</li> </ul>	<p><u>Type I stands:</u></p> <ul style="list-style-type: none"> <li><u>Moist/wet subzones:</u> 278 ha needed per 50-km<sup>2</sup> (5.6% of implementation unit)</li> <li><u>Dry subzones:</u> 21 ha needed per 25-km<sup>2</sup> (0.8% of implementation unit)</li> </ul>	Not applicable	<ul style="list-style-type: none"> <li>Re-plant cutblock at higher than usual (or clumped) density. Allow natural regeneration.</li> <li>Avoid spacing stands where conifer growth is not stagnating. Where spacing is necessary, retain 25% of the stand in dense patches and strips that provide habitat and facilitate snowshoe hare dispersal.</li> <li>Protect deciduous stems.</li> <li>Retain CWD on cutblock to provide additional cover.</li> </ul>	<ul style="list-style-type: none"> <li>Fisher require catchable prey to survive and will target different prey species in different habitats.</li> <li>Snowshoe hare habitat did not make up a large proportion of fisher home ranges in the Sub-Boreal Region. Despite this, hares are important prey for fishers throughout B.C. that provide a relatively large source of calories per kill.</li> </ul>
<b>Foraging habitat: Squirrels</b>	<p><u>Optimal red squirrel stands:</u></p> <ul style="list-style-type: none"> <li>Crown closure &gt;50%</li> <li>Coniferous tree height ≥ 15 m</li> <li>Conifer (pine, spruce and Subalpine-fir) ≥50% of tree species cover</li> <li>Spruce in tree canopy ≥60%</li> </ul> <p><u>Optimal flying squirrel stands:</u></p> <ul style="list-style-type: none"> <li>Crown closure 50-85%</li> <li>Coniferous tree height ≥21 m</li> <li>Conifer (pine, spruce and Douglas-fir) 30-80% of tree species cover</li> <li>Large deciduous tree density (&gt;35 cm dbh): ≥2 stems/ha</li> </ul>	<p><u>Type I stands:</u></p> <ul style="list-style-type: none"> <li><u>Moist/wet subzones:</u> 2831 ha needed per 50-km<sup>2</sup> (56.6% of implementation unit)</li> <li><u>Dry subzones:</u> 371 ha needed per 25-km<sup>2</sup> (14.8% of implementation unit)</li> </ul>	Not applicable	<ul style="list-style-type: none"> <li>Harvested areas will not provide suitable squirrel habitat for a considerable time; however, larger WTPs (&gt;1.5 ha) and riparian reserves can provide some habitat after harvesting.</li> <li>Concentrate WTPs on forest stands that have optimal Type I attributes.</li> <li>Squirrel middens are usually located on mesic or wetter sites that can be targeted for WTPs.</li> <li>Connecting WTPs with adjacent mature timber will also increase habitat quality for squirrels.</li> </ul>	<ul style="list-style-type: none"> <li>Fisher require catchable prey to survive and will target different prey species in different habitats.</li> <li>Squirrel habitat makes up a relatively large component of fisher home ranges in the Sub-Boreal Region. Their importance in fisher diets is supported by a study in B.C. that found red squirrels comprising the second highest frequency of occurrence in the stomachs of fisher (after snowshoe hare).</li> </ul>

**Retention Target Guidelines:** Retention targets guidance (number of structures meeting structural attributes per hectare) provided for Stand Condition and Landscape Condition Targets. For each life history component, compare the Landscape Condition Targets (i.e., the amount of Type I in implementation zone) and Stand Condition (Type I or Type II) within the proposed cutblocks to identify recommended retention targets.

Colour coding follows a “stoplight” cautionary approach.

Green =	Proceed with harvest; strive to retain trees that meet the minimum structural attributes at specified target.
Yellow =	Proceed with caution; reconsider harvest; strive to retain trees that meet the minimum structural attributes at specified target.
Red =	Reconsider harvest because density of Type I in landscape is below Landscape Condition Target.

### Moist/Wet Subzone

**Denning Habitat** Sub-Boreal Moist/Wet Subzone  
Retention Feature: Act ≥90 cm dbh (stems/ha)

Landscape Condition <sup>1</sup>			
Stand Condition	Below	Near	Above
Type I	18.0	13.5	4.5
Type II	1.3	1.0	0.3

<sup>1</sup> Landscape Condition Targets: Below = less than 247 ha; Near = 247 to 258 ha; Above = more than 258 ha.

**Resting Habitat: Rust Broom Sites** Sub-Boreal Moist/Wet Subzone  
Retention Feature: Sx ≥39 cm dbh with rust brooms (stems/ha)

Landscape Condition <sup>1</sup>			
Stand Condition	Below	Near	Above
Type I	4.7	3.5	1.2
Type II	0.8	0.6	0.2

<sup>1</sup> Landscape Condition Targets: Below = less than 1095 ha; Near = 1095 to 1337 ha; Above = more than 1337 ha.

**Resting Habitat: Cavity Sites** Sub-Boreal Moist/Wet Subzone  
Retention Feature: Act ≥77 cm dbh or At ≥59 cm dbh (stems/ha)

Landscape Condition <sup>1</sup>			
Stand Condition	Below	Near	Above
Type I	9.9	7.4	2.5
Type II	0.1	0.08	0.03

<sup>1</sup> Landscape Condition Targets: Below = less than 10 ha; Near = 10 to 29 ha; Above = more than 29 ha.

**Resting Habitat: Coarse Woody Debris** Sub-Boreal Moist/Wet Subzone

- Retention Features: Single pieces of CWD ≥35 cm diameter, ≥7 m in length, elevated 25-50 cm above ground (pieces/ha), **AND**
- Man-made CWD piles >3 m x 5 m x 2 m high, with >30% of pieces being >20 cm diameter >3 m long (piles/ha)

Landscape Condition <sup>1</sup>			
Stand Condition	Below	Near	Above
Type I	2.7 pieces/ha plus 0.5 piles/ha	2.0 pieces/ha plus 0.38 piles/ha	0.7 pieces/ha plus 0.13 piles/ha
Type II	0.6 pieces/ha plus 0.25 piles/ha	0.5 pieces/ha plus 0.19 piles/ha	0.2 pieces/ha plus 0.06 piles/ha

<sup>1</sup> Landscape Condition Targets: Below = less than 1410 ha; Near = 1410 to 1486 ha; Above = more than 1486 ha.

## Dry Subzone

**Denning Habitat** Sub-Boreal Dry Subzone  
Retention Feature: Act ≥90 cm dbh (stems/ha)

**Landscape Condition<sup>1</sup>**

Stand Condition	Below	Near	Above
Type I	0.3	0.2	0.1
Type II	0.1	0.1	0.03

<sup>1</sup>Landscape Condition Targets: Below = less than 129 ha; Near = 129 to 133 ha; Above = more than 133 ha.

**Resting Habitat: Rust Broom Sites** Sub-Boreal Dry Subzone  
Retention Feature: Sx ≥39 cm dbh with rust brooms (stems/ha)

**Landscape Condition<sup>1</sup>**

Stand Condition	Below	Near	Above
Type I	3.3	2.5	0.8
Type II	0.4	0.3	0.1

<sup>1</sup>Landscape Condition Targets: Below = less than 544 ha; Near = 544 to 553 ha; Above = more than 553 ha.

**Resting Habitat: Cavity Sites** Sub-Boreal Dry Subzone  
Retention Feature: Act ≥77 cm dbh or At ≥59 cm dbh or Fd ≥97 cm dbh (stems/ha)

**Landscape Condition<sup>1</sup>**

Stand Condition	Below	Near	Above
Type I	2.0	1.5	0.5
Type II	0.2	0.2	0.1

<sup>1</sup>Landscape Condition Targets: Below = less than 15 ha; Near = 15 to 17 ha; Above = more than 17 ha.

**Resting Habitat: Coarse Woody Debris** Sub-Boreal Dry Subzone

- Retention Features: Single pieces of CWD ≥35 cm diameter, ≥7 m in length, elevated 25-50 cm above ground (pieces/ha), **AND**
- Man-made CWD piles >3 m x 5 m x 2 m high, with >30% of pieces being >20 cm diameter >3 m long (piles/ha)

**Landscape Condition<sup>1</sup>**

Stand Condition	Below	Near	Above
Type I	1.7 pieces/ha plus 0.5 piles/ha	1.3 pieces/ha plus 0.38 piles/ha	0.4 pieces/ha plus 0.13 piles/ha
Type II	0.2 pieces/ha plus 0.25 piles/ha	0.2 pieces/ha plus 0.19 piles/ha	0.1 pieces/ha plus 0.06 piles/ha

<sup>1</sup>Landscape Condition Targets: Below = less than 371 ha; Near = 371 to 376 ha; Above = more than 376 ha.



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