



**MATERIAL SUPPORTING THE NOTICE, BUT NOT PART OF THE NOTICE.**

**INFORMATION CONCERNING WILDLIFE HABITAT FOR THE SURVIVAL OF SPECIES AT RISK IN THE CASCADES FOREST DISTRICT**

This document is intended to provide background information and support to the legal framework of the Notice of indicators of the amount, distribution and attributes of wildlife habitat required for the survival of species at risk in the Cascades Forest District. This document is not part of the legal Notice. Its purpose is to provide additional information for consideration by delegated decision makers and by those persons required to prepare results and strategies consistent with section 7(1) of the Forest Planning and Practices Regulation or act in a manner consistent with section 9(3) of the *Woodlot Licence Planning and Practices Regulation*.

**1. BACKGROUND INFORMATION**

The 1% impact budget associated with the Identified Wildlife Management Strategy is directed at the short-term timber supply. For the purpose of this Notice the short-term timber supply budget represents the total mature timber harvesting land base (THLB) in age classes older than 80 years. Within the Cascades Forest District the short-term timber supply budget is equal to 9511 ha. Current to August 1, 2004, 17 approved wildlife habitat areas account for an impact of 142 ha to the mature timber harvesting landbase. Therefore, the remaining available budget is 9369 ha. Table 1 summarizes the amount of area included in the Notice as well as the amount of area in approved WHAs and their respective impacts to the mature THLB.

Indicators of amount, distribution and attributes included in the Notice are based on existing data, current knowledge of species distribution, inventory efforts, and species biology, including territory size and intraspecific competition. In many cases, comprehensive inventories have not been completed. Where inventory work generates a greater number of known occurrences and suitable habitat, the Notice may be amended to reflect a greater number of anticipated wildlife habitat areas. Any amendment to the Notice will be consistent with the policy direction on timber supply impacts.

Species accounts for each of the species mentioned in the Notice can be obtained from the Identified Wildlife Management Strategy website:

[http://wlapwww.gov.bc.ca/wld/identified/iwms2004\\_index.htm](http://wlapwww.gov.bc.ca/wld/identified/iwms2004_index.htm)

**Table 1. Summary of mature THLB impacts for amounts included in the Notice and approved WHAs in the Cascades Forest District.**

<b>Species</b>	<b>Total Area (ha)</b>	<b>Estimated Mature THLB (ha)</b>	<b>Percent of 1% District Budget</b>
<b>Amounts in Notice</b>			
Coastal Tailed Frog	2793.0	1187	12.4
“Great Basin” Gopher Snake	4000.0	0.0	0.0
Flammulated Owl	4050.0	3150	33
“Interior” Western Screech-Owl	44.0	22.0	0.2
Spotted Owl*	5000.0	0.0	0.0
Spotted Bat	16.0	4.0	0.04
Grizzly Bear**	5211.0	521.0	5.5
<b>Subtotal</b>	<b>21114.0</b>	<b>4884.0</b>	<b>51.2</b>
<b>Approved Wildlife Habitat Areas</b>			
Coastal Tailed Frog (3-004)	15.0	9.0	0.94
Coastal Tailed Frog (3-005)	27.0	13.0	0.14
Coastal Tailed Frog (3-014)	36.3	10.8	0.11
Coastal Tailed Frog (3-015)	40.7	9.1	0.1
Coastal Tailed Frog (3-016)	58.5	30.7	0.32
Coastal Tailed Frog (3-017)	31.9	16.2	0.17
Coastal Tailed Frog (8-011)	23.0	13.0	0.14
Coastal Tailed Frog (8-012)	10.0	3.0	0.03
Coastal Tailed Frog (8-013)	19.0	2.0	0.02
Coastal Tailed Frog (8-077)	14.0	4.3	0.05
Coastal Tailed Frog (8-078)	9.6	6.2	0.07
Coastal Tailed Frog (8-079)	15.7	10.1	0.11
Coastal Tailed Frog (8-080)	14.7	6.9	0.07
Coastal Tailed Frog (8-081)	8.0	5.3	0.06
Coastal Tailed Frog (8-082)	8.5	2.4	0.03
“Great Basin” Gopher Snake (3-008)	180.0	0.0	0.0
“Great Basin” Gopher Snake (3-009)	143.0	0.0	0.0
<b>Subtotal</b>	<b>654.9</b>	<b>142.0</b>	<b>2.4</b>
<b>Total</b>	<b>21768.9</b>	<b>5026</b>	<b>52.6</b>

\* Spotted Owl – 5000 ha of mature THLB impact are accounted for in TSR3 of the Lillooet TSA as per government information input.

\*\* Grizzly Bear – 8000 ha of mature THLB impact are accounted for in TSR2 and TSR3 of the Lillooet TSA as per government information input.

Figures and spatial information (shapefiles) to support the amount and distribution statements for species included in the Notices are included in the folders titled “Figures” and “Spatial Data” on the following ftp site:

[ftp://ribftp.env.gov.bc.ca/pub/outgoing/cdc\\_data/Approved\\_FRPR\\_sec7\\_WLPPR\\_sec9\\_Notices\\_and\\_Supporting\\_Info/Species\\_at\\_Risk/Cascades\\_FD/Supporting\\_Info/](ftp://ribftp.env.gov.bc.ca/pub/outgoing/cdc_data/Approved_FRPR_sec7_WLPPR_sec9_Notices_and_Supporting_Info/Species_at_Risk/Cascades_FD/Supporting_Info/)

Inclusion of draft and proposed Wildlife Habitat Area boundaries in the supporting information does not prejudice the review and comment that may be ongoing around these Wildlife Habitat Areas. Where Wildlife Habitat Areas have not been through the full review and comment process, MWLAP will continue to work with affected parties to address the Wildlife Habitat Area boundaries.

The following section is intended to clarify the amount, distribution and attribute statements in the legal Notice.

### **1) Coastal Tailed Frog (*Ascaphus truei*)**

***Amount:***

The amount in the Notice is based on the total area of 593 ha for 8 proposed Coastal Tailed Frog wildlife habitat areas and a total area of 2200 ha for 55 future wildlife habitat areas. Information is available from the Ministry of Water, Land and Air Protection. The size of future wildlife habitat areas is approximately 40 ha, based on the average size of the 8 proposed and 15 approved Coastal Tailed Frog wildlife habitat areas in the Cascades Forest District. Mature timber supply impacts per wildlife habitat area are estimated at 43% of the total area, based on the 8 proposed and 15 approved Coastal Tailed Frog wildlife habitat areas in the Cascades Forest District.

Figure 1 shows the location of Tailed frog adult and larvae detections within the Cascades Forest District. Three reports titled “astr report 2000 without plates”, “astr 2001 merritt final” and “ASTR 2002 Merritt Report” provide additional information with respect to Tailed frog surveys.

### **2) “Great Basin” Gopher Snake (*Pituophis catenifer deserticola*)**

***Amount:***

The amount in the Notice is based on the anticipated need for 16 future wildlife habitat areas for “Great Basin” Gopher Snake. Information is available from the Ministry of Water, Land and Air Protection. Estimates of mature timber supply impacts are based on estimates provided in the “Estimated Impact of the Identified Wildlife Management Strategy (Version 2004) on Provincial Timber Supply”.

Due to data sensitivity concerns Gopher Snake den sites are not included on Figure 1. For information on the location of den sites and future wildlife habitat areas please contact John Surgenor, MWLAP, Kamloops.

### **3) Flammulated Owl (*Otus flammeolus*)**

***Amount:***

The amount in the Notice is based on the anticipated need for 225 future wildlife habitat areas for Flammulated Owl or an aggregated area that is equivalent to the specified amount to which General Wildlife Measures would be applied. Information is available from the Ministry of

Water, Land and Air Protection. Estimates of mature timber supply impacts are based on estimates provided in the “Estimated Impact of the Identified Wildlife Management Strategy (Version 2004) on Provincial Timber Supply”.

Figure 1 shows the location of Flammulated owl detections during the breeding season as well as high and moderate suitability mapping for Flammulated owl within the Cascades Forest District. The file titled “flamg99” provides additional information with respect to the suitability model.

#### **4) “Interior” Western Screech-Owl (*Otus kennicotti macfarlanei*)**

***Amount:***

The amount in the Notice is based on the anticipated need for 2 future wildlife habitat areas for “Interior” Western Screech-Owl. Information is available from the Ministry of Water, Land and Air Protection. Estimates of mature timber supply impacts are based on estimates provided in the “Estimated Impact of the Identified Wildlife Management Strategy (Version 2004) on Provincial Timber Supply”.

A total of 330 ha (165 THLB), intended to address 15 WHAs, has been identified as a long-term projection for this species.

For information on the location of the 2 future WHAs please contact the Ministry of Water, Land and Air Protection, Kamloops, John Surgenor.

#### **5) Spotted Owl (*Strix occidentalis*)**

***Amount:***

The amount in the Notice is based on the 5000 ha of THLB contained within 7 Long Term Activity Centres (LTACs) for Spotted Owl in the Lillooet Timber Supply Area (TSA). The mature timber supply impact of the 7 LTACs is 5,000 ha as per government information input into TSR3 for the Lillooet TSA and does not contribute to the 1% mature timber supply impact budget associated with the Identified Wildlife Management Strategy. Information is available from the Ministry of Water, Land and Air Protection.

Figure 1 shows the location of the 7 draft Long-term activity centre boundaries within the Lillooet TSA.

#### **6) Spotted Bat (*Euderma maculatum*)**

***Amount:***

The amount in the Notice is based on the anticipated need for 2 future wildlife habitat areas for Spotted Bat. Information is available from the Ministry of Water, Land and Air Protection. Estimates of mature timber supply impacts are based on estimates provided in the “Estimated

Impact of the Identified Wildlife Management Strategy (Version 2004) on Provincial Timber Supply”.

A total of 144 ha (36 THLB), intended to address 18 future WHAs, has been identified as a long-term projection for this species.

Due to data sensitivity concerns Spotted Bat roost and maternity sites are not included on Figure 1. For information on the location of maternity and roost sites and future wildlife habitat areas please contact John Surgenor, MWLAP, Kamloops.

## **7) Grizzly Bear (*Ursus arctos*)**

### ***Amount:***

The amount in the Notice is based on the total area of 4361 ha for 11 proposed Grizzly Bear wildlife habitat areas and a total area of 850 ha for 5 future wildlife habitat areas within the Merritt TSA. The amount in the Notice also includes an additional mature THLB impact of 8000 ha as per government information input into TSR2 and TSR3 for the Lillooet Timber Supply Area (TSA). This impact does not contribute to the 1% mature timber supply impact budget associated with the Identified Wildlife Management Strategy. Information is available from the Ministry of Water, Land and Air Protection.

Figure 1 shows the location of the 11 proposed WHAs for Grizzly Bear and the 19 watersheds that have been identified within the Lillooet TSA where the 8000 ha of THLB will be defined. Spatial delineation of the 8000 ha is ongoing. The Notice included an additional amount for 5 future WHAs. Information is available from the Ministry of Water, land and Air Protection, Kamloops, John Surgenor and Penticton, Robert Stewart.

## **8) Great Basin Spadefoot (*Spea intermontana*)**

### ***Amount:***

An amount for Great Basin Spadefoot has not been included in the Notice. This species is known to occur in the district, but there is no current information that would allow an amount, distribution and attributes to be identified. Where inventory work generates known occurrences and suitable habitat, the Notice may be amended to include indicators of the amount, distribution and attributes for this species.

A total of 500 ha, intended to address 50 future WHAs, has been identified as a long-term projection for this species in this district.

## **9) Lewis's Woodpecker (*Melanerpes lewis*)**

### ***Amount:***

An amount for Lewis's Woodpecker has not been included in the Notice. This species is known to occur in the district, but there is no current information that would allow an amount, distribution and attributes to be identified. Where inventory work generates known occurrences and suitable habitat, the Notice may be amended to include indicators of the amount, distribution and attributes for this species.

A total of 980 ha, intended to address 35 future WHAs, has been identified as a long-term projection for this species in this district.

#### **10) White-headed Woodpecker (*Picoides albolarvatus*)**

***Amount:***

An amount for White-headed Woodpecker has not been included in the Notice. This species is known to occur in the district, but there is no current information that would allow an amount, distribution and attributes to be identified. Where inventory work generates known occurrences and suitable habitat, the Notice may be amended to include indicators of the amount, distribution and attributes for this species.

A total of 50 ha, intended to address 1 future WHA, has been identified as a long-term projection for this species in this district.

#### **11) Badger (*Taxidea taxus*)**

***Amount:***

An amount for Badger has not been included in the Notice. This species is known to occur in the district, but there is no current information that would allow an amount, distribution and attributes to be identified. Where inventory work generates known occurrences and suitable habitat, the Notice may be amended to include indicators of the amount, distribution and attributes for this species.

A total of 350 ha, intended to address 7 future WHAs, has been identified as a long-term projection for this species in this district.

#### **12) Fringed Myotis (*Myotis thysanodes*)**

***Amount:***

An amount for Fringed Myotis has not been included in the Notice. This species is known to occur in the district, but there is no current information that would allow an amount, distribution and attributes to be identified. Where inventory work generates known occurrences and suitable habitat, the Notice may be amended to include indicators of the amount, distribution and attributes for this species.

A total of 120 ha (60 THLB), intended to address 10 future WHAs, has been identified as a long-term projection for this species in this district.