

# Mormon Metalmark Recovery

## August 2006

# Outline

- Species photos
- Habitat
- Distribution
- Status
- Threats
- Current Protection
- Goals
- Objectives

What does it look like?

# Mormon Metalmark





# Mormon Metalmark



What habitat does it use?

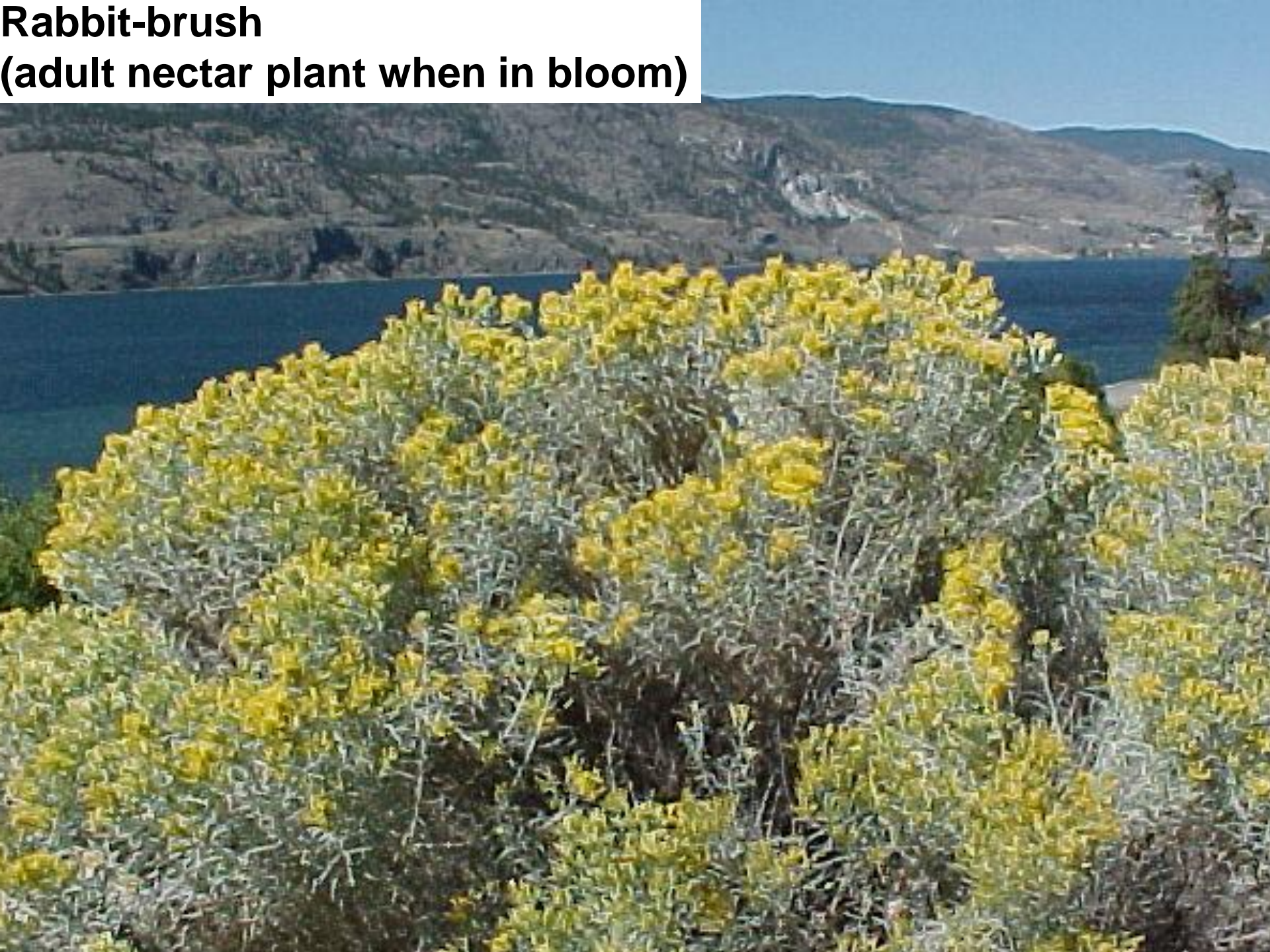


**Snow Buckwheat**  
(larval host plant and adult nectar plant when in bloom)





**Rabbit-brush  
(adult nectar plant when in bloom)**

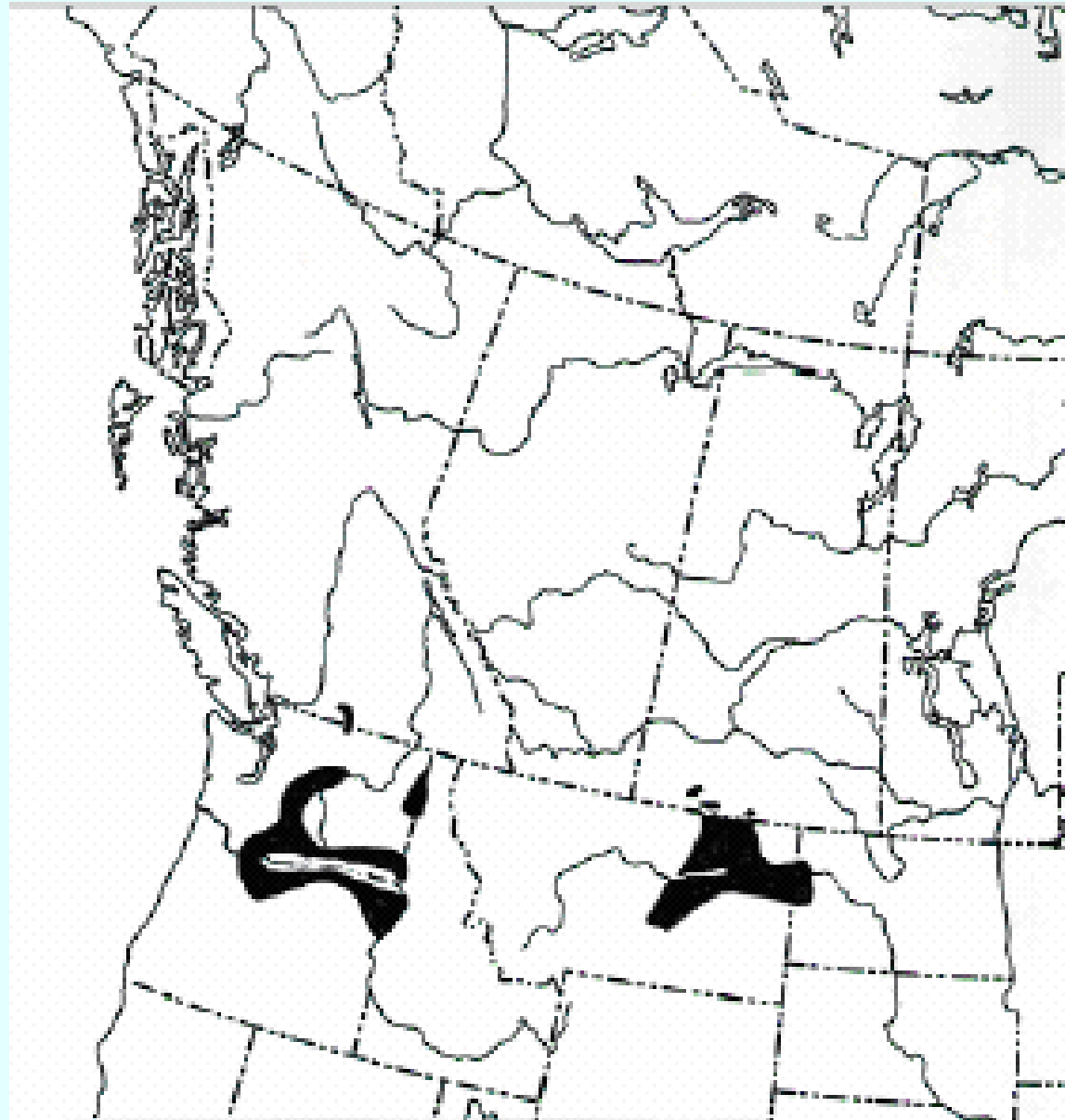




**Typical Habitat: disturbed slope  
with Snow Buckwheat and Rabbit-brush**

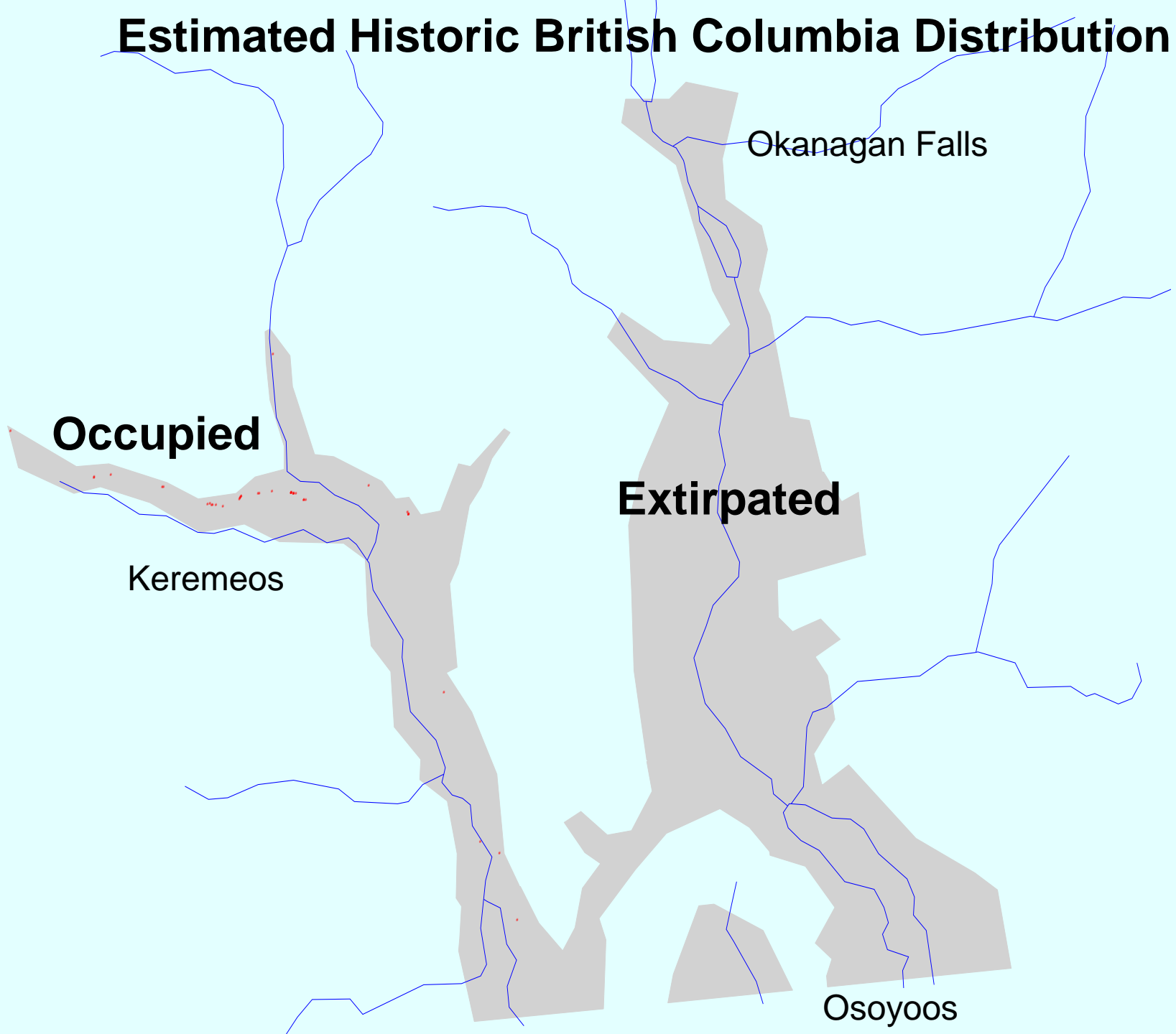


# Canadian Distribution

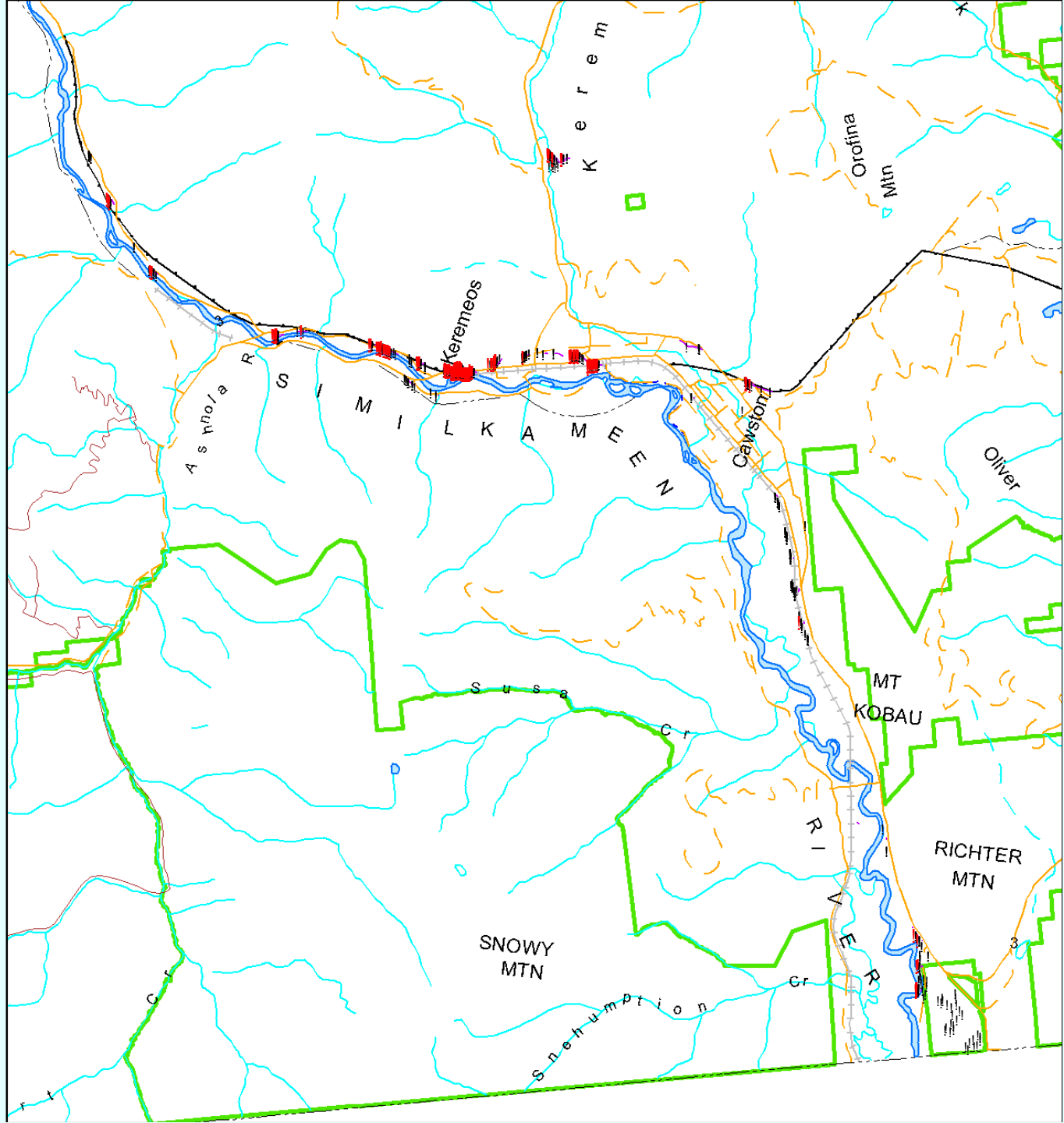




# Estimated Historic British Columbia Distribution



Metalmark sites 2005





# Status

- **Status of BC Population:**
  - Endangered (May 2003)

# Threats

- Historic habitat loss (75% estimated reduction in range, primary habitats reduced by 45% to 62%)
- Small population (originally estimated at <250, now estimated at <250 to >1000 due to large annual population fluctuations)
- Small occupied area (~8 ha. in 2002)
  - Vulnerable to natural stochastic events
- High human population density in area
- Associated with transportation and utility corridors, generally on disturbed sites.
  - Vulnerable to human activity can easily cause the extirpation of colonies.
- Limited dispersal ability (max. 600m)
- Many knowledge gaps related to biology and ecology



# Current Protection

- none

# Recovery Goal

## option 1

- Maintain a viable meta-population in secure habitat within the species' historic range in British Columbia.



# Objectives

- Secure\* a minimum of 13.5 hectares (90%) of the known, currently occupied habitat in the Similkameen area by 2011.
- Develop and initiate a research program by 2007 and complete research by 2011 to address knowledge gaps (see section 10).
- Investigate the feasibility of re-establishing at least one viable population of metalmarks in secure\* habitat in the Okanagan Valley by 2010.