



Inventory Results

Many of the sites identified by the SEI are at high risk of conversion to other land uses or further degradation. Within the study area, 47.9% was mapped as Sensitive Ecosystems (SEI) and 7.9% fell into the Other Important Ecosystems category (see Legend). The inventory results indicated that wetlands, broadleaf woodlands, antelope-brush steppe, sagebrush steppe and old forest ecosystems were extremely rare - covering less than 5% of the study area. Although areas of grasslands, coniferous woodlands, and mature forests remain, many have been altered significantly and therefore few high quality sites remain. The study found many SES that have been degraded by fragmentation, human use, livestock grazing, and alien species.

TFL 15: Bruhjel, D. and S. Robertson. 1999. *Ecosystem Mapping of Weyerhaeuser Canada Ltd., Tree Farm License 15*. Prepared for Weyerhaeuser Canada Ltd., *Sturgeon Falls*, in partnership with CDDC and

Bella Vista – Goose Lake Range: Iverson, K. and J. Shypitka. 2002. *Terrestrial Ecosystem Mapping Of the Bella Vista – Goose Lake Range*. 1:20,000 maps.

Kelowna: Iverson, K. and P. Uusila. 2008. *Sensitive Ecosystems Inventory: City of Kelowna*. 1:20,000 maps.

K. Iverson. 2005. *Terrestrial Ecosystem Mapping South Okanagan*. (This is an

Joe Rich: Iverson, K. and P. Unila. 2006. Sensitive Ecosystems Inventory: Central Okanagan Joe Rich. 1:20,000 maps.

[BC Ministry of Environment. www.env.gov.bc.ca/cdo/](http://www.env.gov.bc.ca/cdo/)

The Toolkit contains practical examples of bylaw provisions currently in use in B.C., including model provisions for Regional Growth Strategies, Official Community Plans, Development Permit Areas, Zoning, Tax Exemptions, Performance Measurement, Circulation Management, and other applications.

Climate Change: Wilson, S.J. and R.H. Hebda. *Mitigating and Adapting to Climate Change through the Co-creation of Nature*. Available at <http://www.earthscan.co.uk>

Develop with Care: *Environmental Guidelines for Urban and Rural Land Development in British Columbia*. BC Ministry of Environment
www.env.gov.bc.ca/wild/documents/bmoa/dewwithcare2006/develop_with_care_i

Taking Nature's Pulse: The Status of Biodiversity in British Columbia
Austin, M.A., D.A. Buffett, D.J. Nicolson, G.G.E. Scudler and V. Stevens
(eds.). 2008. Taking Nature's Pulse: The Status of Biodiversity in British

Columnas: Biodiversity BC, Victoria, BC. 200 pp. Available at: www.biodiversitybc.org

parkland ecosystems including **herbaceous** ecosystems dominated by forbs or grasses, and dwarf shrubs such as heather (AP.sh). Alpine ecosystems are found at high altitudes and are sensitive to disturbance, as the shallow soils and cold temperatures

- Pollination
- Food production
- Soil formation

Other Important Ecosystems

Wetland or Riparian ecosystems if natural flood regimes and vegetation are re-established provide the following services:

- Great Basin Goshawk
- Long-billed Curlew
- Peregrine Falcon
- American Badger
- Great Basin Gophersnake

- Western Ratfleetside

ure trees; including **broadleaf** (MF:bd) forests, **coniferous** (MF:co) forests, and **m**
nd broadleaf woodlands. Mature Forests are an important buffer to sensitive ecosys
nt sites for Old Forests. Mature forest ecosystems have many important structural
ion services: **Some species associat**

- Flood control
- Pest regulation
- Pollination
- Pollution control
- Lyell's Mariposa Lily
- Wolverine
- Williamson's Sapsucker
- Olive-sided Flycatcher

- Snowy plover
- Western Rattlesnake

occupied by sensitive ecosystems, and include urban areas, disturbed rural landscape. Disturbed rural areas can be interspersed with range, farmland and native vegetation. Non-sensitive landscapes are shown in white in the areas that are not designated as sensitive or other important ecosystems are shown in grey.

have a modified landscape interspersed with the sensitive ecosystem(s), in which a map.

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ing habitat for birds. They provide important habitat for amphibians, and explain that have been isolated by channelization of creeks and rivers, which

Great basin opaxenoch
Speis microstoma
(Amphibian, Threatened)
Photo by Gary Nails -
CaliforniaHerps.com

Peregrine Falcon
Falco peregrinus anatum
(Bird, Special Concern)
Photo by Fred Lang

ated (MF:mx) deciduous and coniferous forests; however it excludes
ams. They provide some of the same values associated with Old Forest

- Western Screech Owl
- Flammulated Owl

Williamson's Sapsucker
Sphyrapicus thyroideus
(Red, Endangered)

depicted in white)

vegetation, or cultivated crops. Young forests are conifer-dominated by a sensitive ecosystem. In addition, many sensitive ecosystem sensitive ecosystems are too small to map individually. These modified

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