

Sensitive and Terrestrial Ecosystems Labels



Sensitive Ecosystems Inventory of the Sunshine Coast and Adjacent Islands



Sensitive Ecosystems

Sensitive ecosystems are fragile and/or rare, or are ecologically important because of the diversity of species they support.

Old Forest (OF):

Conifer-dominated dry to moist forest types, structural stage 7 (see table), generally >50 yrs. Subclasses: of (conifer dominated) - greater than 75% coniferous species

Woodland (WD):

Dry open forests, generally between 10 and 30% tree cover, can be conifer dominated or mixed conifer and shrubs; because of open canopy, will include non-terrestrial openings, often with shallow soils and bedrock outcroppings. Subclasses: of (conifer dominated) - greater than 75% coniferous species

Herbaceous (HB):

Non-forested ecosystems less than 10% tree cover, generally with shallow soils and often with bedrock outcroppings; includes large openings, wetlands, meadows, coastal heathlands, shrublands vegetated with grasses and herbs, sometimes low shrubs, and moss and lichen communities on rock outcrops. Subclasses: of (conifer dominated) - greater than 75% coniferous species

Riparian (RI):

Areas adjacent to water bodies (rivers, lakes, ocean, wetlands) which are influenced by factors such as erosion, sedimentation, flooding and/or subterranean irrigation due to proximity to the water body. Structural stages 1-7. Subclasses: of (conifer dominated) - greater than 75% coniferous species

Wetland (WN):

Areas that are saturated or inundated with water for long enough periods of time to develop vegetation and biological activity adapted to wet environments. This may result from flooding, standing water tables, soil influence or poor drainage conditions. Subclasses: of (conifer dominated) - greater than 75% coniferous species

Mature Forests (MF):

Usually conifer-dominated, occasionally deciduous, dry to moist forest types, structural stage 6, generally >50 yrs, > 20 m tall, buffering sensitive ecosystems. Subclasses: of (conifer dominated) - greater than 75% coniferous species

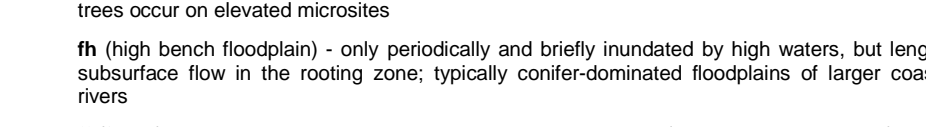
Seasonally Flooded Agricultural Fields (FS):

Annually flooded cultivated fields or hay fields; important migrating and wintering waterfowl habitat. Other mapped ecosystems occur in mosaic with sensitive ecosystems and are not possible to delineate separately at the mapping scale.

Young Forests (YF):

Limited to areas of young forest dispersed among sensitive and other important ecosystems.

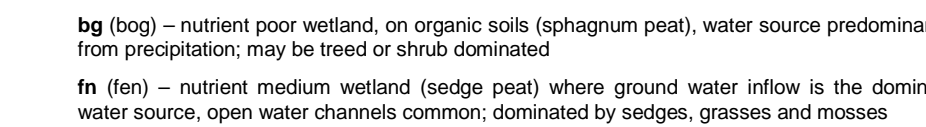
Polygon Label



Some polygon labels will have class and subclass repeated up to three times. This is not an error; it reflects the variability in site units and structural stages occurring within a polygon. More than one site unit can be correlated to a SE class and subclass. Polygon labels on the map do not include the site units. The Sensitive and Terrestrial Ecosystems Labels on the left side of the map provide details about site units mapped in each polygon.

Ecosystem Components

This cartographic product uses Dot Density to indicate where more than one ecosystem class is mapped in a polygon. The number of dots indicates the proportion of the polygon represented by the 2nd and 3rd ecosystem; the colour of the dots indicates the 2nd and 3rd ecosystem class.



Biogeoclimatic Units

- CG1FM Coastal Douglas-fir Moist Maritime Subzone
CWH1M Coastal Western Hemlock Eastern Very Dry Maritime Variant
CWH1M Coastal Western Hemlock Dry Maritime Variant
CWH1M Coastal Western Hemlock Submontane Very Wet Maritime Variant

Ecosystems

- GEL Georgia Lowlands Ecosystem
SOG Strait of Georgia Ecosystem
QUF Outer Fjordland Ecosystem
SPR Southern Pacific Ranges Ecosystem

Map Symbols

- Polygon Boundary
Biogeoclimatic Boundary
Ecosystem Boundary
Riparian Area Boundary
Roads
20m contours
TRM Streams
Additional streams
Intermittent/Seasonal Stream
Drainage Route

Table with 5 columns: Code, Name, Description, and other details for various ecosystem classes.

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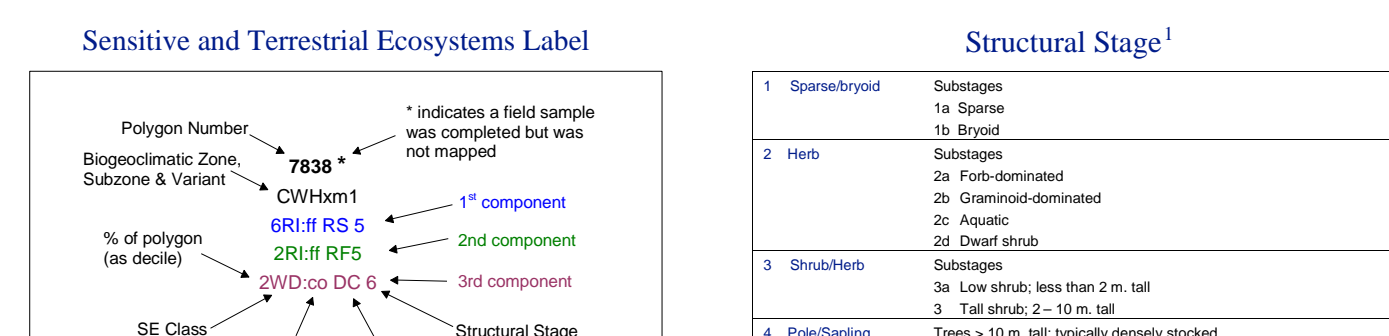


Table titled 'Terrestrial Ecosystem Map Codes and Site Unit Names' listing various codes and their corresponding site unit names.

What is a Sensitive Ecosystem? For the purpose of this study, an ecosystem is considered to be a portion of the landscape with relatively uniform dominant vegetation.

Rationale Ecologically significant lands and important wildlife habitats are fast disappearing throughout the lowlands surrounding the Strait of Georgia. Intense development pressures fuelled by population and economic growth have fragmented and degraded many terrestrial ecosystems.

Purpose The purpose of the Sensitive Ecosystems Inventory (SEI) of the Sunshine Coast is to identify, classify and map sensitive terrestrial ecosystems along the coastal lowlands (including the adjacent islands) from Howe Sound to Desolation Sound. The goal of the SEI is to encourage informed land-use decisions that will conserve sensitive ecosystems.

Methodology The mapping methods are based on the Vancouver Island SEI project and the Resources Inventory Standards Committee (RISC) Standard for Terrestrial Ecosystem Mapping (TEM) in BC.

Data Limitations The SEI is a tool to alert decision makers to the existence of sensitive ecosystems, however when land-use changes are proposed detailed site-level assessments are necessary.

Plan and implement all development activities in a manner that will not adversely affect or disturb the sensitive ecosystem. Consult a qualified professional to interpret the ecological inventory data and work to incorporate designs that maintain the functions and values of the natural ecosystem.

Acknowledgments Environment Canada (Canadian Wildlife Service) and the B.C. Ministry of Sustainable Resource Management (MSRM) jointly managed the project.

Digitizing and Cartography: Bon Lee of Baseline Geomatics Inc. and AYS Environmental Consulting Ltd. GIS support: Tim Sienley, Steve Moth and Mike Wolowicz (MSRM).

Field Crews: Louise Bight, Carmen Cadin, Corey Erwin, Deepa Soonthilator, Moraa Grao, Edwin Hubert, Stephen Hruska, Marc Johnson, Arvid Mollm, Will Mackenzie, Claudia Schaefer, Jo-Anne Stacey and Leah Westergren.

