

# Forest Health Online

## The Project



BEETLE INFESTATION of British Columbia's timber is a growing concern. Managing the infestation is key to improving forest health\* and maintaining the viability of the forest industry across BC communities. Access to current information and forest pest data is vital for developing successful pest control and minimization strategies. The Forest Health Unit of the Ministry of Forests needed to have a presence on the Internet with general and specific reports on the condition of the provincial forest, and access to historical trends and projection of future losses.



## The Solution



Pacific GeoTech developed **Forest Health Online** for the Ministry of Forests. Forest Health Online is an advanced GIS web-based mapping solution to publish health aerial survey maps over the Internet. It is the first application of this kind in Canada to provide dynamic creation of aerial health pest and insect maps seamlessly for all areas of BC.

Users can view current forest health data in map format over the Internet and create smart, vector-based maps directly from live GIS map data using GeoMedia Data

Servers, Microsoft Access, Oracle, Arc/INFO, ArcView and Microstation. Users can also specify the type of information to be displayed: point, polygon or both. The application provides geo-spatial capabilities using Intergraph GeoMedia/Enterprise technology, JavaScript, HTML and ASP.

Managers and decision-makers rely on this information when developing forest health management strategies. The application is also a valuable resource for researchers involved in forest health management.

## The Result



**Forest Health Online** is the only source in British Columbia for viewing and publishing vector-based smartmaps, querying geo-spatial data as it relates to forest health, displaying hazard-thematic maps and downloading BC forest health aerial survey maps.

## Features and functions

- Dynamically constructs maps from the chosen variables
- Creates district statistic summaries of the infested area by severity class
- Displays thematic maps for each forest pest
- Makes forest health geo-spatial data available for download
- Allows easy navigation through complex databases

## The Application

- links forest health spatial maps to their attributes
- provides thematic maps, historical trends and updates information on forest insects and pests
- gives direct access over the Internet to the aerial health maps data store in numerous GIS formats and sources

\*Forest Health refers to insects and diseases that affect forest flora.

