Pacific Northwest Information Node

# **NBII Pacific Northwest Information Node**

The NBII Pacific Northwest Information Node provides a dynamic source for information exchange, communication, and decision support...

#### Background

The National Biological Information Infrastructure (NBII) <www.nbii.gov> is an electronic information network that provides access to biological data and information on our nation's plants, animals, and ecosystems. Data and information maintained by federal, state, and local government agencies; non-government organizations; and private-sector organizations are linked through the NBII gateway and made accessible to a variety of audiences including researchers, natural resource managers, decisionmakers, educators, students, and other private citizens.





Implementation of the NBII is being accomplished through the development of nodes that serve as interconnected entry points to the NBII and the information held by partners. These nodes function as fully digital, distributed, and interactive systems that focus on developing, acquiring, and managing content on a defined subject area (thematic nodes) or a geographic region (regional nodes). One of the regional nodes is the Pacific Northwest Information Node (PNWIN).

#### **Primary Issues**

The individuals and offices contributing to the development and maintenance of the PNWIN have a collective vision. Sharing a common base of scientific information in a value neutral format will facilitate reasoned debate and decisionmaking, thereby reducing conflict and leading to productive outcomes. The node provides a dynamic focus for information exchange, communication, and decision support for natural resources management across the region. When fully developed, the node will be a regional source of biophysical data, bibliographic summaries, management principles, and regulatory requirements for public and private lands. The node also plans to provide additional user tools for decision-making and planning.

#### **Major Partners**

Major partners include the U.S. Forest Service Pacific Northwest Research Station in Seattle, WA; U.S. Geological Survey (USGS) Forest and Rangeland Ecosystem Science Center (FRESC) in Corvallis, OR; University of Washington in Seattle, WA; Oregon State University in Corvallis, OR; Northwest Habitat Institute in Corvallis, OR; Regional Ecosystem Office in Portland, OR; and University of British Columbia in Vancouver, BC. Each partner brings specific expertise to the node:

U.S. Forest Service, Pacific Northwest Research Station (Seattle, WA) Develop and administer the node.

U.S. Geological Survey, FRESC Headquarters (Corvallis, OR) Provide technical, administrative, and logistical support.

University of Washington (Seattle, WA)

Department of Geography Provide technical expertise on project design and geographic data.
University of Washington Libraries -- Offer technical expertise on information databases and cataloguing.
Olympic Natural Resources

Center -- Provide technical expertise on serving data and metadata. Oregon State University, Northwest Alliance for Computational Science and Engineering (Corvallis, OR) Facilitate the development and application of network tools, Web sites, and decision support systems, and acquire key data sets.

## *Northwest Habitat Institute (Corvallis, OR)*

Develop relational database and interactive Internet interface for the Interactive Biodiversity Information System based on the data from the Wildlife-Habitat Types in Oregon and Washington publication (Oregon State University Press, 2001).

## Regional Ecosystem Office (Portland, OR)

Provide access to Northwest Forest Plan documents and monitoring databases.

### University of British Columbia

(Vancouver, British Columbia) Identify decision support tools useful for forest resource management in conjunction with a similar project sponsored by Forest Renewal BC in British Columbia.



### **Initial Product**

In the first year, the PNWIN site focuses on three critical components: (1) key data sets relevant to the scientifically based management of forest resources; (2) bibliographies, regulatory information, and other links on the management of forest resources in the Pacific Northwest; and (3) user tools (e.g., decision support systems and models) that facilitate decisionmaking and planning by forest resource managers. Projects include providing access to:

- Database on moss, lichen, and liverworts, which are a critical component of forests, from Olympic National Park that provides species descriptions, images, and distribution information
- Bureau of Land Management study on forest density to determine if specific management practices can improve habitat and increase timber production
- High-elevation tree ring study that provides information about climatic change in the Pacific Northwest
- Significant publications such as the Northwest Forest Plan and its associated documents.
- The Landscape Management System and Ecosystem Management decision support tools, which enable managers to evaluate particular actions and their effect on the forests.

This year, in addition to completing pending projects, the node anticipates launching two new sections devoted to fire science and wildlife habitat. The node plans to synthesize scientific data and management information, including user tools and modeling software pertaining to fire science. Efforts on wildlife habitat will focus on making data on over 700 wildlife species in Oregon and Washington, habitat characteristics, and the impact of various management activities on habitat available to the public. Access to these data occurs in partnership with the Northwest Habitat Institute. Another activity involves a collaborative project with the NBII Bird Conservation Node. PNWIN partners provide technical expertise to develop a Web-based query system to access the Midwinter Bald Eagle Survey, a source of information about long-term trends of raptor species.

The Pacific Northwest Node demonstrates the value of providing access to a wide variety of natural resources data and information for the benefit of land managers, decisionmakers, researchers, and the public.

## **For More Information**

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Find us on the Web at: <http://pnwin.nbii.gov>.