**Modeled Potential Natural Vegetation Zones of Washington and Oregon**

Metadata also available as

**Metadata:**

* [Identification\_Information](http://ecoshare.info/uploads/gis/swovz120309_metadata.htm#1)
* [Data\_Quality\_Information](http://ecoshare.info/uploads/gis/swovz120309_metadata.htm#2)
* [Spatial\_Data\_Organization\_Information](http://ecoshare.info/uploads/gis/swovz120309_metadata.htm#3)
* [Spatial\_Reference\_Information](http://ecoshare.info/uploads/gis/swovz120309_metadata.htm#4)
* [Entity\_and\_Attribute\_Information](http://ecoshare.info/uploads/gis/swovz120309_metadata.htm#5)
* [Distribution\_Information](http://ecoshare.info/uploads/gis/swovz120309_metadata.htm#6)
* [Metadata\_Reference\_Information](http://ecoshare.info/uploads/gis/swovz120309_metadata.htm#7)

*Identification\_Information:*

*Citation:*

*Citation\_Information:*

*Originator:* Dr. Jan A Henderson, USDA Forest Service

*Publication\_Date:* 20091203

*Title:*

Modeled Potential Natural Vegetation Zones of Washington and Oregon

*Geospatial\_Data\_Presentation\_Form:* raster digital data

*Online\_Linkage:* [<http://ecoshare.info/category/gis-data/>](http://ecoshare.info/category/gis-data/)

*Description:*

*Abstract:*

Modeled Potential Natural Vegetation Zones of Washington and Oregon

*Purpose:*

The concept of potential natural vegetation (PNV), the plant community reflecting the environmental capability of a land area, has proven vital to land management over the past 30 years. Rigorous, consistent, validated potential vegetation mapping, however, has remained a persistent need for land management agencies. The development of this dataset represents a new way to model and map PNV to help fulfill those requirements.

*Time\_Period\_of\_Content:*

*Time\_Period\_Information:*

*Single\_Date/Time:*

*Calendar\_Date:* 20091203

*Currentness\_Reference:* publication date

*Status:*

*Progress:* Complete

*Maintenance\_and\_Update\_Frequency:* None planned

*Spatial\_Domain:*

*Bounding\_Coordinates:*

*West\_Bounding\_Coordinate:* -124.628544

*East\_Bounding\_Coordinate:* -121.928779

*North\_Bounding\_Coordinate:* 43.719697

*South\_Bounding\_Coordinate:* 41.763016

*Keywords:*

*Theme:*

*Theme\_Keyword\_Thesaurus:* None

*Theme\_Keyword:* Potential Natural Vegetation

*Theme\_Keyword:* Vegetation zones

*Theme\_Keyword:* Plant associations

*Theme\_Keyword:* Environmental gradient

*Theme\_Keyword:* Total annual precipitation

*Theme\_Keyword:* Mean annual temperature

*Theme\_Keyword:* Temperature lapse rate

*Theme\_Keyword:* Cold air drainage

*Theme\_Keyword:* Soil moisture index

*Theme\_Keyword:* Topographic moisture

*Theme\_Keyword:* Fog effect

*Place:*

*Place\_Keyword:* Washington

*Place\_Keyword:* Oregon

*Place\_Keyword:* Pacific Northwest

*Place\_Keyword:* Northwest

*Access\_Constraints:* None

*Use\_Constraints:* None

*Point\_of\_Contact:*

*Contact\_Information:*

*Contact\_Person\_Primary:*

*Contact\_Person:* Robin Lesher

*Contact\_Organization:* USDA Forest Service

*Contact\_Position:* Ecologist

*Contact\_Address:*

*Address\_Type:* mailing address

*Address:* 2930 Wetmore Ave, Suite 3A

*City:* Everett

*State\_or\_Province:* WA

*Postal\_Code:* 98201

*Country:* USA

*Contact\_Electronic\_Mail\_Address:* rlesher@fs.fed.us

*Hours\_of\_Service:* 8:00 AM - 5:00 PM, Monday through Friday

*Native\_Data\_Set\_Environment:*

Microsoft Windows XP Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog 9.3.1.1850

*Data\_Quality\_Information:*

*Lineage:*

*Process\_Step:*

*Process\_Description:*

The Potential Vegetation Zone Model uses a set of algorithms to define the upper and lower elevational boundary for each vegetation zone (VZ) within each of 68 ecoregions in the model area (Washington and Oregon). The model algorithms are based on a suite of spatial environmental variables, including elevation, slope, aspect, temperature, precipitation, topographic position, cold air drainage and potential shortwave (i.e., solar) radiation. When the model is run for an ecoregion, the limiting elevation for each VZ boundary is generated and stored in a grid. The last step in the model compares the elevation of each pixel in the landscape to this grid of limiting values and determines which VZ corresponds to each pixel.

*Process\_Date:* 3 December 2009

*Process\_Contact:*

*Contact\_Information:*

*Contact\_Person\_Primary:*

*Contact\_Person:* Dr. Jan A. Henderson

*Contact\_Organization:* USDA Forest Service

*Contact\_Position:* Area Ecologist

*Contact\_Address:*

*Address\_Type:* mailing address

*Address:* 2930 Wetmore Ave, Suite 3A

*City:* Everett

*State\_or\_Province:* WA

*Postal\_Code:* 98201

*Country:* USA

*Contact\_Electronic\_Mail\_Address:* jahenderson@fs.fed.us

*Hours\_of\_Service:* 8-5 M-F

*Spatial\_Data\_Organization\_Information:*

*Direct\_Spatial\_Reference\_Method:* Raster

*Raster\_Object\_Information:*

*Raster\_Object\_Type:* Grid Cell

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*Column\_Count:* 2364

*Vertical\_Count:* 1

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*Map\_Projection\_Name:* Albers Conical Equal Area

*Albers\_Conical\_Equal\_Area:*

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*Standard\_Parallel:* 48.000000

*Longitude\_of\_Central\_Meridian:* -120.000000

*Latitude\_of\_Projection\_Origin:* 34.000000

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*False\_Northing:* 0.000000

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*Planar\_Coordinate\_Encoding\_Method:* row and column

*Coordinate\_Representation:*

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*Ordinate\_Resolution:* 90.000000

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*Horizontal\_Datum\_Name:* North American Datum of 1983

*Ellipsoid\_Name:* Geodetic Reference System 80

*Semi-major\_Axis:* 6378137.000000

*Denominator\_of\_Flattening\_Ratio:* 298.257222

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*Attribute\_Definition\_Source:* ESRI

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Sequential unique whole numbers that are automatically generated.

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*Enumerated\_Domain\_Value\_Definition:* Pacific Fir Zone

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*Enumerated\_Domain\_Value\_Definition:* Alpine

*Attribute:*

*Attribute\_Label:* COUNT

*Distribution\_Information:*

*Distributor:*

*Contact\_Information:*

*Contact\_Person\_Primary:*

*Contact\_Person:* Tom DeMeo

*Contact\_Organization:* USDA Forest Service

*Contact\_Position:* Regional Ecologist

*Contact\_Address:*

*Address\_Type:* mailing and physical address

*Address:* 333 SW First Avenue

*City:* Portland

*State\_or\_Province:* Oregon

*Postal\_Code:* 97204

*Country:* USA

*Contact\_Electronic\_Mail\_Address:* tdemeo@fs.fed.us

*Hours\_of\_Service:* 8:00 AM - 5:00 PM, Monday through Friday

*Resource\_Description:* Downloadable Data

*Standard\_Order\_Process:*

*Digital\_Form:*

*Digital\_Transfer\_Information:*

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*Transfer\_Size:* 1.585

*Digital\_Transfer\_Option:*

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*Computer\_Contact\_Information:*

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*Available\_Time\_Period:*

*Time\_Period\_Information:*

*Single\_Date/Time:*

*Calendar\_Date:* 20091203

*Metadata\_Reference\_Information:*

*Metadata\_Date:* 20100216

*Metadata\_Contact:*

*Contact\_Information:*

*Contact\_Person\_Primary:*

*Contact\_Person:* Robin Lesher

*Contact\_Organization:* USDA Forest Service

*Contact\_Position:* Ecologist

*Contact\_Address:*

*Address\_Type:* mailing address

*Address:* 2930 Wetmore Ave, Suite 3A

*City:* Everett

*State\_or\_Province:* Washington

*Postal\_Code:* 98201

*Country:* USA

*Contact\_Electronic\_Mail\_Address:* rlesher@fs.fed.us

*Hours\_of\_Service:* 8:00 AM - 5:00 PM, Monday through Friday

*Metadata\_Standard\_Name:* FGDC Content Standards for Digital Geospatial Metadata

*Metadata\_Standard\_Version:* FGDC-STD-001-1998

*Metadata\_Time\_Convention:* local time

*Metadata\_Extensions:*

*Online\_Linkage:* [<http://www.esri.com/metadata/esriprof80.html>](http://www.esri.com/metadata/esriprof80.html)

*Profile\_Name:* ESRI Metadata Profile

*Metadata\_Extensions:*

*Online\_Linkage:* [<http://www.esri.com/metadata/esriprof80.html>](http://www.esri.com/metadata/esriprof80.html)

*Profile\_Name:* ESRI Metadata Profile