

Oregon and Washington Tree Seed Zones

The tree seed zones are used to identify source of collection. Wherever possible, the zone lines follow natural boundaries such as crests of mountain ranges, ridge tops, rivers – or physical boundaries, such as highways and railroads, since it would be impossible for cone collectors to recognize any other type of boundary.

A three digit numbering system is used to designate the tree seed zones. The first digit identifies broad geographic regions covering the following physiographic and geological provinces of Washington and Oregon (Franklin, J. F. and C. T. Dyrness, 1973. Natural Vegetation of Oregon and Washington, USDA Forest Service, Pacific Northwest Forest and Range Experiment Station, General Technical Paper PNW-8, 417 p. This reference is for sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402, stock number 0101-00329.) Climatic and native vegetation similarities were considered in the zoning process.

- 0 - West Slope Olympic Peninsula, West Slope Coast Ranges, Western Klamath Mountains.
- 2 - East Slope Olympic Peninsula, Puget Trough, East Slope Coast Ranges Willamette Valley, Southwest Cascades.
- 3 - South of summit of Klamath Mountains along Oregon and California border.
- 4 - West Slope Cascades.
- 5 - Eastern Klamath Mountains, Southwest Cascades Fringe.
- 6 - East Slope Cascades, Western Okanogan Highlands, Western Columbia Basin, Western Blue Mountains, Western High Lava Plains.
- 7 - East Slope Southern Oregon Cascades, Southwest High Lava Plains, Western Basin and Range.
- 8 - Central and Eastern Okanogan Highlands, Central and Eastern Columbia Basin, Northeast Blue Mountains.
- 9- Southern Blue Mountains, Eastern High Lava Plains, Eastern Basin and Range, Owyhee Upland.

The second digit identifies a physiographic and climatic zone and the third digit identifies a further breakdown into subzones to recognize local climatic similarities. The subzones are further divided into 500 foot elevation bands as follows:

Elevation means altitude above sea level, and is expressed in code in 500-foot increments as follows:

0 - 500 feet -- Code 05	2501 - 3000 feet -- Code 30
501 - 1000 feet -- Code 10	3001 - 3500 feet -- Code 35
1001 - 1500 feet -- Code 15	3501 - 4000 feet -- Code 40
1501 - 2000 feet -- Code 20	4001 - 4500 feet -- Code 45
2001 - 3000 feet -- Code 25	4501 - 5000 feet -- Code 50

and so forth.

Example of source (location) code is 011-05. This means that the tree seed was collected in the 500 foot elevation band of the Clallam Bay-Tatoosh Island seed zone.

Tree Seed Zone Names and Codes

The names and codes for the tree seed zones are as follows:

0 - West Slope Olympic Peninsula, West Slope Coast Ranges, Western Klamath Mountains

- 1 West Slope Olympic Peninsula
 - 011 Clallam Bay - Tatoosh Island
 - 012 Forks - Quinault
- 3 West Slope Washington Coast Ranges
 - 030 Hoquiam
- 4 Columbia River West of Cascade Crest
 - 041 Naselle - Cathlamet
 - 042 Vancouver - Portland
- 5 West Slope Northern Oregon Coast Ranges
 - 051 Astoria - Tillamook
 - 052 Vernonia
 - 053 Oceanlake - Valsetz
- 6 West Slope Central Oregon Coast Ranges
 - 061 Newport - Tidewater
 - 062 Florence - Canary
- 7 West Slope Southern Oregon Coast Ranges
 - 071 North Bend
 - 072 Port Orford
- 8, 9 Western Klamath Mountains
 - 081 Gold Beach
 - 082 Brookings
 - 091 Smith River-California Line

2 - East Slope Olympic Peninsula, Puget Trough, East Slope Coast Ranges, Willamette Valley, Southwest Cascades

- 0 Northeast Puget Trough
 - 201 Bellingham - Nooksack
 - 202 Mt. Vernon - Arlington
- 1 Central Puget Trough
 - 211 San Juan Islands
 - 212 Whidbey Island - Seattle
- 2 East Slope Olympic Peninsula
 - 221 Port Angeles - Sequim
 - 222 Hoodport - Mt. Walker

Tree Seed Zone Names and Codes (continued)

2 - East Slope Olympic Peninsula, Puget Trough, East Slope Coast Ranges, Willamette Valley, Southwest Cascades (continued)

- 3 Southern Puget Trough
 - 231 Bremerton
 - 232 Olympia - Puyallup
- 4 East Slope Washington Coast Ranges
 - 241 West Centralia
 - 242 East Centralia
- 5 East Slope Oregon Coast Ranges
 - 251 Forest Grove - Willamina
 - 252 Blodgett - Drain
- 6 Willamette Valley
 - 261 Oregon City - Salem
 - 262 Albany - Eugene
- 7 Junction East Slope Coast Ranges, Klamath Mountains, and Western Cascades
 - 270 Roseburg

3 - South of Summit of Klamath Mountains along Oregon and California Border

- 301 Happy Camp
- 321 Seiad

4 - West Slope of Cascades

- 0 Northwest Washington Cascades
 - 401 Glacier
 - 402 Concrete
 - 403 Darrington
- 1 West-Central Washington Cascades
 - 411 Skykomish - Stratup
 - 412 Snoqualmie Falls - Enumclaw
- 2 Westside Mt. Rainer
 - 421 Old Baldy Mountain
 - 422 Ashford
- 3 Cowlitz Drainage
 - 430 Cowlitz - Randle
- 4 Lewis River Drainage
 - 440 Yale - Lewis River

Tree Seed Zone Names and Codes (continued)

4 - West Slope of Cascades (continued)

- 5 Northwest Oregon Cascades
 - 451 Zigzag - Government Camp
 - 452 Estacada - Clackamas
- 6 Santiam Drainage
 - 461 Mill City - Sweet Home
 - 462 Detroit
 - 463 Marion Lake
- 7 McKenzie Drainage
 - 471 Leaburg
 - 472 McKenzie Bridge
 - 473 Clear Lake - McKenzie Pass
- 8 Upper Willamette Drainage
 - 481 Culp Creek
 - 482 Oakridge
 - 483 Waldo Lake
- 9 Upper Umpqua Drainage
 - 491 Glide
 - 492 Tiller - South Umpqua
 - 493 Diamond Lake

5 - Eastern Klamath Mountains - Southwest Cascades Fringe

- 0 Northeast Klamath Mountains - Southwest Cascades Fringe
 - 501 Prospect
 - 502 Shady Grove
- 1 Southeast Klamath Mountains
 - 511 Ashland - Applegate
 - 512 Cave Junction

6 - East Slope Cascades, Western Okanogan Highland, Western Columbia Basin, Western Blue Mountains, and Western High Lava Plains

- 0 Western Okanogan Highlands
 - 600 Mazama - Methow
- 1 Central Okanogan Highlands
 - 611 Conconully
 - 612 Tonasket
 - 613 Okanogan
 - 614 Aeneas - Sanpoil
- 2 East Slope Northern Washington Cascades
 - 621 Lake Chelan
 - 622 Cashmere

Tree Seed Zone Names and Codes (continued)

6 - East Slope Cascades, Western Okanogan Highland, Western Columbia Basin, Western Blue Mountains, and Western High Lava Plains (continued)

- 3 East Slope North Central Washington Cascades - Northwest Columbia Basin Fringe
 - 631 Cle Elum
 - 632 Ellensburg
- 4 East Slope South Central Washington Cascades - Northwest Columbia Basin Fringe
 - 641 Naches
 - 642 White Swan
- 5 East Slope Southern Washington Cascades - Southwest Washington Columbia Basin Fringe
 - 651 Glenwood
 - 652 Trout Lake
 - 653 Goldendale
- 6 East Slope Northern Oregon Cascades - Northwest Oregon Columbia Basin Fringe
 - 661 Hood River
 - 662 Maupin
- 7 East Slope North Central Oregon Cascades - Southwest Columbia Basin and Western Blue Mountain Fringe
 - 671 Warm Springs
 - 672 Antelope
 - 673 Prineville
 - 674 Redmond - Bend
 - 675 Sisters - Camp Sherman
- 8 East Slope Central Oregon Cascades, Western High Lava Plains
 - 681 Crescent - Crane Prairie
 - 682 Paulina - East Lake
- 9 Central High Lava Plains
 - 690 Deschutes - Desert Fringe

7 - East Slope Southern Oregon Cascades, Southwest High Lava Plains, Western Basin and Range

- 0 East Slope Southern Oregon Cascades - Northwest Basin and Range Fringe
 - 701 Fort Klamath
 - 702 Klamath Marsh
 - 703 Sprague River
- 1 Southwest High Lava Plains - West Central Basin and Range Fringe
 - 711 West Silver Lake
 - 712 Summer Lake
 - 713 East Silver Lake

Tree Seed Zone Names and Codes (continued)

- 7 - *East Slope Southern Oregon Cascades, Southwest High Lava Plains, Western Basin and Range*
(continued)
- 2 East Slope Southern Oregon Cascades - Southwest Basin and Range
 - 721 Keno
 - 722 Bonanza
 - 3 Southwest Central Basin and Range
 - 731 Lakeview
 - 5 Southeast Central Basin and Range
 - 751 Warner Mountains
- 8 - *Central and Eastern Okanogan Highlands, Central and Eastern Columbia Basin, and Northeast Blue Mountains*
- 0 West Central Okanogan Highlands
 - 801 Curlew - Republic
 - 802 Barstow - Kettle River
 - 803 Keller - Sanpoil
 - 804 Fruitland
 - 1 East Central Okanogan Highlands
 - 811 Ione
 - 812 Colville
 - 813 Colville
 - 2 Eastern Okanogan Highlands
 - 821 Calispell Lake - Newport
 - 822 Nordman - Idaho Border
 - 3 Northeast Columbia Basin - Okanogan Highland Fringe
 - 830 Spokane
 - 4 Main Columbia Basin
 - 841 Turnbull Slough - Pullman
 - 842 Southeast Washington, North Central Oregon - Nonforest
 - 5 Northern Blue Mountain - Columbia Basin Fringe
 - 851 Pomeroy - Peola
 - 852 Milton-Freewater
 - 53 Meacham
 - 6 North Central Blue Mountains
 - 861 Troy
 - 862 Enterprise
 - 863 La Grande

Tree Seed Zone Names and Codes (continued)

8 - Central and Eastern Okanogan Highlands, Central and Eastern Columbia Basin, and Northeast Blue Mountains (continued)

7 Northeastern Blue Mountains
 871 Armin - Imnaha
 872 Hat Point - Fringe

8 Southeastern Blue Mountain
 881 Halfway
 882 Baker
 883 Hereford

9 - Southern Blue Mountains, Eastern High Lava Plains, Eastern Basin and Range and Owyhee Uplands

0 Southern Blue Mountains - Columbia Basin Fringe
 901 Spray
 902 Mitchell

1 Southwest Blue Mountains
 911 Post - Crooked River
 912 Maury Mountains - South Slope

2 South Central Blue Mountains
 921 Antone - Dayville
 922 John Day

3 Southeast Blue Mountains
 930 Drewsy

4 Southern Blue Mountains - High Lava Plains and Owyhee Upland Fringe
 941 Seneca
 942 Burns
 943 Suntex

5 Eastern High Lava Plains, Eastern Basin and Range, Owyhee Upland
 952 Southeastern Oregon - Nonforest