

## 5.0 SITE SERIES OF THE VANCOUVER FOREST REGION

This section presents all site series currently recognized in the Vancouver Forest Region. Site series are organized into **general sites** and **special sites**, and are presented according to biogeoclimatic subzone or variant. For each biogeoclimatic unit, the site series are portrayed on an edatopic grid (modified grids for special sites), which is accompanied by a vegetation summary table of selected species thought to best characterize the site series. The vegetation tables are derived from sample plot data used to develop the classification. Site series based on limited data (fewer than four plots) are footnoted. The information presented here can be used for identifying site series by following the environmental and vegetation analysis described in Section 3.0. A list of the edatopic grids is shown in Table 21.

### 5.1 Site Classification

#### 5.1.1 General sites

Site series are displayed on two-dimensional edatopic grids that show the relationship to soil moisture and nutrient regime classes. A blank space on a grid indicates that that site series has not been sampled and recognized for that combination of SMR and SNR. The divisions between site series usually fall on boundaries between SMR and SNR classes, but occasionally a boundary between two site series occurs in the middle of a class (e.g., grid no. 9, site series 01 and 11). This indicates some overlap between the site series in relation to that class (e.g., on Grid No. 9 site series 01 ranges from 4-5 SMR, and site series 11 ranges from 5-6).

**It is important to recognize that the classification system cannot cover all possible sites that occur in the landscape.** Users are bound to encounter sites that do not appear to "fit" well on the edatopic grid. For these sites, describe the vegetation and environmental features, including climate, soil moisture, and soil nutrients. An understanding of these factors, silvics of tree species, and the ecological effects of management practices is necessary for developing prescriptions.

### 5.1.2 Special sites

Special sites are shown on modified "grids" that reflect the unique environmental features of the site. For example, floodplain sites are characterized by *bench heights*, strongly fluctuating water table sites are characterized by *summer and winter water regimes*, and shoreline/ocean spray sites are characterized by *coastal landforms and moisture regime*.

#### FLOODPLAIN SITES

Floodplain sites border streams and rivers, and are formed from sediments deposited during flooding events. These sites are still under the influence of periodic flooding, that distinguishes them from inactive fluvial deposits that are no longer flooded because of downcutting of the river. They are flat benches varying in width from narrow strips along streams to broad floodplains along major rivers. Three types of floodplain sites are recognized, based on the relative bench height:

##### High bench sites

- The highest and most infrequently flooded (>5 year return interval) portion of a floodplain. Growing season flooding is of short duration.
- Soils are sorted silts, sandy loams, or sands, usually coarser at depth. A surface capping of finer sediments is often present. Forest floor is present with developing horizons, but generally only a few centimetres thick.
- Mature stands dominated by conifers that are sometimes restricted to elevated microsites (look for Cw or Ss stumps in logged areas). Successional stands are dominated by red alder, cottonwood, or bigleaf maple.

##### Medium bench sites

- The intermediate height, frequently flooded (at least every 5 years, often annually) portion of a floodplain. Duration of growing season flooding significantly longer than on high bench sites.
- Soils are mainly sorted silts and sands, with coarser gravels at depth. Forest floor is thin and poorly developed, often comprised of just litter. Evidence of recent mineral and organic deposits present.

- Mature stands are dominated by deciduous species. Conifers are absent or restricted to elevated microsites.

### Low bench sites

- The lowest height, annually flooded portion of a floodplain. Flooding is of long duration during the growing season.
- Soils can be coarse gravels and sands adjacent to high-energy streams, or deep saturated loams and silts adjacent to low-energy streams. Forest floors are absent or comprised of fresh litter.
- Stands are dominated by cottonwood and alder, and typically include willows.

### **SITES WITH STRONGLY FLUCTUATING WATER TABLE**

The soil moisture regime at these sites varies significantly over the year because of a strongly fluctuating water table. Soils are saturated during the winter months due to a combination of flat topography, dense, poorly drained soil layers, and fine textures. During the growing season, the water table drops, leaving an aerated rooting zone of varying depth.

Some of their characteristics are:

- Occur on flat, fine-textured marine deposits (e.g., on east Vancouver Island).
- Soils have an obvious gleyed layer.
- Microtopography is often strongly mounded; the depth of aerated soil can vary over a relatively short distance.
- After logging, these sites are dominated by red alder with small amounts of cottonwood, bigleaf maple, trembling aspen, and sporadic conifer regeneration.

The depth to gleying in the soil, and thus the degree of wetness during the winter and summer months determine the three sites recognized in the CWHxm and CWHdm subzones:

### Cw - Salmonberry (summer fresh / winter very moist)

- gleying > 35 cm deep
- salmonberry and swordfern abundant; red-osier dogwood, black twinberry, and slough sedge rare.

#### Cw - Black twinberry (summer moist / winter wet)

- gleying 20-35 cm deep
- red-osier dogwood, black twinberry present but not abundant; slough sedge dominated depressions present but not extensive; Pacific crab apple rare.

#### Cw - Slough sedge (summer very moist / winter very wet)

- gleying < 20 cm deep
- slough sedge dominated depressions extensive; red-osier dogwood and Pacific crab apple abundant; vanilla-leaf and bracken fern rare.

### **SHORELINE AND OCEAN SPRAY SITES**

These sites are strongly influenced by blowing ocean spray because of their proximity to the ocean in areas of high winds. They are recognized on the outer coast of Vancouver Island, the mainland, and the Queen Charlotte Islands (CWHvh, CWHwh subzones). Sitka spruce dominates these sites because of its tolerance of salt spray.

Recognized shoreline and ocean spray sites include:

Rocky headland - rock outcrops with shallow, discontinuous soil, exposed to the sea and affected by ocean spray.

Old beachplain - sites bordering the ocean, formed of sediments deposited by wave action, which are usually sorted and consist of sand or gravel.

Marine terrace and scarp - flat terraces and associated steep erosional scarps adjacent to the sea, formed by ancient wave action during deglaciation.

Fluctuating brackish water - estuaries and tidal sloughs where brackish water influences vegetation composition.

## 5.2 Site Classification Grids and Vegetation Summary Tables

TABLE 21. Index of site classification grids

<b>Grid no.</b>	<b>Site category</b>	<b>Biogeoclimatic unit</b>
1	General	CDFmm
2	General	CWHdm
3	General	CWHds1
4	General	CWHds2
5	General	CWHmm1
6	General	CWHmm2
7	General	CWHms1
8	General	CWHms2
9	General	CWHvh1
10	General	CWHvh2
11	General	CWHvm1
12	General	CWHvm2
13	General	CWHwh1
14	General	CWHwh2
15	General	CWHws2
16	General	CWHxm
17	General	ESSFmw
18	General	IDFww
19	General	MHmm1
20	General	MHmm2
21	General	MHwh
22	Special - Floodplains	CDFmm
23	Special - Floodplains	CWHdm,CWHds1,CWHxm
24	Special - Floodplains	CWHds2
25	Special - Floodplains	CWHmm1
26	Special - Floodplains	CWHms1,CWHms2
27	Special - Floodplains	CWHwh1
28	Special - Floodplains	CWHvh1,CWHvh2
29	Special - Floodplains	CWHvm1
30	Special - Floodplains	CWHws2
31	Special - Fluctuat water table	CDFmm
32	Special - Fluctuat. water table	CWHdm, CWHxm
33	Special - Shoreline/ocean spray	CWHwh,CWHvh

Site Series		02	03	01	04	05	06	10*	11	* Less than 4 plots.
TREE LAYER	<i>Pseudotsuga menziesii</i>									Douglas-fir
	<i>Quercus garryana</i>									Garry oak
	<i>Arbutus menziesii</i>									arbutus
	<i>Acer macrophyllum</i>									bigleaf maple
	<i>Thuja plicata</i>									western redcedar
	<i>Abies grandis</i>									grand fir
	<i>Cornus nuttallii</i>									western flowering dogwood
	<i>Pinus contorta</i>									shore/lodgepole pine
	<i>Gaultheria shallon</i>									salal
	<i>Mahonia nervosa</i>									dull Oregon-grape
SHRUB LAYER	<i>Rosa gymnocarpa</i>									baldhip rose
	<i>Holodiscus discolor</i>									ocean spray
	<i>Lonicera ciliosa</i>									western trumpet honeysuckle
	<i>Symphoricarpos</i> spp.									snowberry
	<i>Lonicera hispidula</i>									hairy honeysuckle
	<i>Paxistima myrsinites</i>									falsebox
	<i>Ledum groenlandicum</i>									Labrador tea
	<i>Oemleria cerasiformis</i>									Indian-plum
	<i>Rubus spectabilis</i>									salmonberry
	<i>Sambucus racemosa</i>									red elderberry
HERB LAYER	<i>Polystichum munitum</i>									sword fern
	<i>Melica subulata</i>									Alaska oniongrass
	<i>Moehringia macrophylla</i>									big-leaved sandwort
	<i>Sanicula crassicaulis</i>									Pacific sanicle
	<i>Lathyrus nevadensis</i>									purple peavine
	<i>Dodecatheon hendersonii</i>									broad-leaved shootingstar
	<i>Trisetum cernuum</i>									nodding trisetum
	<i>Achlys triphylla</i>									vanilla leaf
	<i>Pteridium aquilinum</i>									bracken
	<i>Tiarella trifoliata</i>									three-leaved foamflower
MOSS LAYER	<i>Athyrium filix-femina</i>									lady fern
	<i>Lysichitum americanum</i>									skunk cabbage
	<i>Maianthemum dilatatum</i>									false lily-of-the-valley
	<i>Rhytidadelphus triquetrus</i>									electrified cat's tail moss
	<i>Kindbergia oregana</i>									Oregon beaked moss
	<i>Hylocomium splendens</i>									step moss
	<i>Cladonia</i> spp.									lichen
	<i>Leucoclepis menziesii</i>									palm tree moss
	<i>Sphagnum</i> spp.									sphagnum moss
	<i>Kindbergia praelonga</i>									

## Soil Nutrient Regime

	Actual Relative	Soil Nutrient Regime				
		Very Poor A	Poor B	Medium C	Rich D	Very Rich E
VD	0	02			03	
VD	1					
MD	2	ZONAL				
MD	3	01			04	
MD	4					
SD	5	05			06*	
F	6					
W	7	10			11	

\* See grid # 22 for site series 07 - 09.

## Site Series

- 01 Fd - Salal
- 02 FdPl - Arbutus
- 03 Fd - Oniongrass
- 04 FdBg - Oregon grape
- 05 CwFd - Kindbergia
- 06 CwBg - Foamflower
- 10 Pl - Sphagnum
- 11 Cw - Skunk cabbage

## Grid No. 1

CDFmm
Moist Maritime CDF Subzone

Site Series		02	03	04*	05	01	06	07	11	12	Less than 4 plots.
TREE LAYER	<i>Thuja plicata</i>										western redcedar
	<i>Tsuga heterophylla</i>										western hemlock
	<i>Pseudotsuga menziesii</i>										Douglas-fir
	<i>Pinus contorta</i>										shore/lodgepole pine
	<i>Acer macrophyllum</i>										bigleaf maple
SHRUB LAYER	<i>Alnus rubra</i>										red alder
	<i>Gaultheria shallon</i>										salal
	<i>Vaccinium parvifolium</i>										red huckleberry
	<i>Holodiscus discolor</i>										ocean-spray
	<i>Arctostaphylos columbiana</i>										hairy manzanita
	<i>Pseudotsuga menziesii</i>										Douglas-fir
	<i>Mahonia nervosa</i>										dull Oregon-grape
	<i>Acer circinatum</i>										vine maple
	<i>Rubus spectabilis</i>										salmonberry
	<i>Vaccinium alaskaense</i>										Alaskan blueberry
HERB LAYER	<i>Oplopanax horridus</i>										devil's club
	<i>Ledum groenlandicum</i>										Labrador tea
	<i>Pteridium aquilinum</i>										bracken
	<i>Festuca occidentalis</i>										western fescue
	<i>Polystichum munitum</i>										sword fern
	<i>Dryopteris expansa</i>										spiny wood fern
	<i>Tiarella trifoliata</i>										three-leafed foamflower
	<i>Athyrium filix-femina</i>										lady fern
	<i>Blechnum spicant</i>										deer fern
	<i>Cornus canadensis</i>										bunchberry
	<i>Lysichiton americanum</i>										skunk cabbage
	<i>Maianthemum dilatatum</i>										false lily-of-the-valley
	<i>Hylacomium splendens</i>										step moss
	<i>Kindbergia oregana</i>										Oregon beaked moss
	<i>Pleurozium schreberi</i>										red-stemmed feather moss
MOSS LAYER	<i>Rhacomitrium canescens</i>										grey frayed-cap moss
	<i>Cladina</i> spp.										lichen
	<i>Rhytidiadelphus triquetrus</i>										electrified cat's-tail moss
	<i>Plagiothecium undulatum</i>										flat moss
	<i>Rhytidiadelphus loreus</i>										lanky moss
	<i>Plagiomnium insignis</i>										coastal leafy moss
	<i>Leucolepis menziesii</i>										palm tree moss
	<i>Kindbergia praelonga</i>										
	<i>Sphagnum</i> spp.										sphagnum moss
	<i>Conocephalum conicum</i>										alligator-skin liverwort



# Soil Nutrient Regime

		Actual	Relative	Very Poor A	Poor B	Medium C	Rich D	Very Rich E
Soil Moisture Regime	VD	0		02				
	MD	1		03			04	
	MD	2						
	SD	3		ZONAL 01			05	
	F	4						
	M	5		06			07*	
	VM	6						
	W	7		11		12		

\* See grid # 23 for site series 08-10.

## Site Series

- 01 Hw - Flat moss
- 02 FdPl - Cladina
- 03 FdHw - Salal
- 04 Fd - Sword fern
- 05 Cw - Sword fern
- 06 HwCw - Deer fern
- 07 Cw - Foamflower
- 11 Pl - Sphagnum
- 12 CwSs - Skunk cabbage

CWHdm

Dry Maritime  
CWH Subzone

Grid No. 2

SITE CLASSIFICATION

GENERAL SITES

# Site Series

02 03 04 01 05 06\* 07 11\* 12\*

\* Less than 4 plots.

## TREE LAYER

Thuja plicata  
Pseudotsuga menziesii  
Tsuga heterophylla  
Pinus contorta  
Acer macrophyllum

western redcedar  
Douglas-fir  
western hemlock  
shore/lodgepole pine  
bigleaf maple  
prince's pine  
falsebox

## SHRUB LAYER

Chimaphila umbellata  
Paxistima myrsinites  
Acer glabrum  
Symphoricarpos albus  
Arctostaphylos uva-ursi  
Mahonia aquifolium  
Holodiscus discolor  
Mahonia nervosa  
Gaultheria shallon  
Acer circinatum

Douglas maple  
common snowberry  
kinnikinnick  
tall Oregon-grape  
ocean-spray  
dull Oregon-grape  
salal

## HERB LAYER

Oplopanax horridus  
Sambucus racemosa  
Rubus spectabilis  
Ledum groenlandicum  
Vaccinium oxycoccos  
Clintonia uniflora  
Polystichum munitum  
Disporum hookeri  
Cornus canadensis  
Tiarella unifoliata  
Asarum caudatum  
Gymnocarpium dryopteris  
Athyrrium filix-femina  
Carex spp.

vine maple  
devil's club  
red elderberry  
salmonberry  
Labrador tea  
bog cranberry  
queen's cup  
sword fern  
Hooker's fairybells  
bunchberry  
one-leaved foamflower  
wild ginger  
oak fern  
lady fern

## MOSS LAYER

Circaea alpina  
Lysichitum americanum  
Hylocomium splendens  
Rhytidiadelphus triquetrus  
Rhytidiopsis robusta  
Pleurozium schreberi  
Peltigera aphthosa  
Cladonia spp.  
Rhytidiadelphus loreus  
Plagiomnium insigne  
Sphagnum spp.

sedge  
enchanter's nightshade  
skunk cabbage  
step moss  
electrified cat's-tail moss  
pipecleaner moss  
red-stemmed feathermoss  
freckled lichen  
lichen  
lanky moss  
coastal leafy moss  
sphagnum moss

## Soil Nutrient Regime

Actual	Relative	Very Poor A	Poor B	Medium C	Rich D	Very Rich E
VD	0	02				
MD	1					
MD	2	03			04	
S D	3	ZONAL				
F	4	01			05	
M	5					
VM	6	06			07	
W	7	11		12		

## Site Series

- 01 HwFd - Cat's-tail moss
- 02 FdPl - Kinnikinnick
- 03 FdHw - Falsebox
- 04 Fd - Fairybells
- 05 Cw - Solomon's-seal
- 06 Hw - Queen's cup
- 07 Cw - Devil's club
- 11 Pl - Sphagnum
- 12 CwSs - Skunk cabbage

\* See grid # 23 for site series 08-10

Grid No. 3

CWHDs1

Southern Dry Submaritime  
CWH Variant

SITE CLASSIFICATION

GENERAL SITES

## Site Series

02

03

04

01

05

06\*

07

11\*

12\*

\* Less than 4 plots

TREE  
LAYER*Thuja plicata**Pseudotsuga menziesii**Tsuga heterophylla**Betula papyrifera**Pinus contorta**Picea sitchensis**Acer glabrum**Chimaphila umbellata**Paxistima myrsinites**Vaccinium membranaceum**Arctostaphylos uva-ursi**Mahonia aquifolium**Rubus parviflorus**Oplopanax horridus**Cornus stolonifera**Ledum groenlandicum**Vaccinium oxycoccos**Viburnum edule**Lonicera involucrata**Disporum hookeri**Trientalis latifolia**Clintonia uniflora**Tiarella unifoliata**Cornus canadensis**Streptopus roseus**Dryopteris expansa**Gymnocarpium dryopteris**Tiarella trifoliata**Athyrium filix-femina**Lysichitum americanum**Hylocomium splendens**Rhytidiadelphus triquetrus**Rhytidiopsis robusta**Pleurozium schreberi**Kindbergia oregana**Peltigera aphthosa**Cladonia* spp.*Rhytidiadelphus loreus**Plagiomnium insignis**Sphagnum* spp.SHRUB  
LAYERHERB  
LAYERMOSS  
LAYER

western redcedar

Douglas-fir

western hemlock

paper birch

shore/lodgepole pine

Sitka spruce

Douglas maple

prince's pine

falsebox

black huckleberry

kinnikinnick

tall Oregon-grape

thimbleberry

devil's club

red-osier dogwood

Labrador tea

bog cranberry

highbush-cranberry

black twinberry

Hooker's fairybells

broad-leaved starflower

queen's cup

one-leaved foamflower

bunchberry

rosy twistedstalk

spiny wood fern

oak fern

three-leaved foamflower

lady fern

skunkcabbage

step moss

electrified cat's-tail moss

pipecleaner moss

red-stemmed feathermoss

Oregon beaked moss

freckled lichen

lichen

lanky moss

coastal leafy moss

sphagnum moss

# Soil Nutrient Regime

Actual	Relative	Very Poor A	Poor B	Medium C	Rich D	Very Rich E
VD	0	02				
MD	1	03			04	
MD	2					
SD	3	ZONAL				
		01			05	
F	4					
M	6					
		06			07*	
VM	6					
W	7	11		12		

\* See grid # 23 for site series 08 -10.

## Site Series

- 01 HwFd - Cat's-tail moss
- 02 FdPl - Kinnikinnick
- 03 FdHw - Falsebox
- 04 Fd - Fairybells
- 05 Cw - Solomon's-seal
- 06 Hw - Queen's cup
- 07 Cw - Devil's club
- 11 Pl - Sphagnum
- 12 CwSs - Skunk cabbage

Grid No. 4

CWHds2

Central Dry Submarine  
CWH Variant

SITE CLASSIFICATION

GENERAL SITES

Site Series		02	03	04	01	05	06*	07	11*	12	Less than 4 plots
TREE LAYER	<i>Tsuga heterophylla</i>		■	■	■	■	■	■	■	■	western hemlock
	<i>Thuja plicata</i>		■	■	■	■	■	■	■	■	western redcedar
	<i>Pseudotsuga menziesii</i>	■	■	■	■	■	■	■	■	■	Douglas-fir
	<i>Pinus contorta</i>	■									shore/lodgepole pine
SHRUB LAYER	<i>Abies amabilis</i>			■	■	■	■	■	■	■	amabilis fir
	<i>Vaccinium parvifolium</i>	■	■	■	■	■	■	■	■	■	red huckleberry
	<i>Vaccinium alaskaense</i>	■	■	■	■	■	■	■	■	■	Alaskan blueberry
	<i>Gaultheria shallon</i>	■	■		■				■		salal
	<i>Vaccinium membranaceum</i>	■									black huckleberry
	<i>Mahonia nervosa</i>		■	■	■	■	■	■	■	■	dull Oregon-grape
	<i>Vaccinium ovalifolium</i>			■			■				oval-leaved blueberry
	<i>Menziesia ferruginea</i>						■				false azalea
	<i>Rubus spectabilis</i>					■					salmonberry
	<i>Oplopanax horridum</i>						■	■			devil's club
HERB LAYER	<i>Cornus canadensis</i>		■	■	■	■	■	■	■	■	bunchberry
	<i>Achlys triphylla</i>		■	■	■	■	■	■	■	■	vanilla-leaf
	<i>Tiarella trifoliata</i>			■	■	■	■	■	■	■	three-leaved foamflower
	<i>Polystichum munitum</i>		■	■	■	■	■	■	■	■	sword fern
	<i>Rubus pedatus</i>			■	■	■	■	■	■	■	five-leaved bramble
	<i>Streptopus streptopoides</i>			■	■	■	■	■	■	■	small twistedstalk
	<i>Blechnum spicant</i>				■	■	■	■	■	■	deer fern
	<i>Athyrium filix-femina</i>				■	■	■	■	■	■	lady fern
	<i>Gymnocarpium dryopteris</i>				■	■	■	■	■	■	oak fern
	<i>Smilacina stellata</i>				■	■	■	■	■	■	star-flowered false Sol.'s-seal
MOSS LAYER	<i>Coptis asplenifolia</i>						■	■	■	■	fern-leaved goldthread
	<i>Adiantum pedatum</i>						■	■	■	■	maidenhair fern
	<i>Veratrum viride</i>							■	■	■	Indian hellebore
	<i>Lysichitum americanum</i>							■	■	■	skunk cabbage
	<i>Carex</i> spp.							■	■	■	sedge
	<i>Hylocomium splendens</i>	■	■	■	■	■	■	■	■	■	step moss
	<i>Rhytidiadelphus loreus</i>	■	■	■	■	■	■	■	■	■	lanky moss
	<i>Rhytidiopsis robusta</i>	■	■	■	■	■	■	■	■	■	pipecleaner moss
	<i>Cladina</i> spp.	■	■	■	■	■	■	■	■	■	lichen
	<i>Pleurozium schreberi</i>	■	■	■	■	■	■	■	■	■	red-stemmed feathermoss
	<i>Kindbergia oregana</i>		■		■	■	■	■	■	■	Oregon beaked moss
	<i>Plagiothecium undulatum</i>			■							flat moss
	<i>Plagiomnium insigne</i>				■	■	■	■	■	■	coastal leafy moss
	<i>Leucolepis menziesii</i>							■	■	■	palm tree moss
	<i>Sphagnum</i> spp.								■	■	sphagnum moss
	<i>Pellia neesiana</i>								■	■	shiny liverwort

## Soil Nutrient Regime

		Soil Nutrient Regime				
Actual	Relative	Very Poor A	Poor B	Medium C	Rich D	Very Rich E
MD	0	02				
SD	1	03			04	
SD	2					
F	3	ZONAL				
F	4	01			05	
M	5					
VM	6	06			07*	
W	7	11		12		

\* See grid # 25 for site series 08 - 10.

## Site Series

- 01 HwBa - Pipecleaner moss  
 02 FdHw - Salal  
 03 HwCw - Salal  
 04 CwHw - Sword fern  
 05 BaCw - Foamflower  
 06 HwBa - Deer fern  
 07 BaCw - Salmonberry  
 11 Pl - Sphagnum  
 12 CwSs - Skunk cabbage

CWHmm1

Submontane Moist Maritime  
CWH Variant

Grid No. 5

Site Series		02	03	04	01	05 <sup>+</sup>	06 <sup>+</sup>	07	08	09 <sup>+</sup>	10 <sup>+</sup>	†
		Less than 4 plots										
TREE LAYER	<i>Tsuga heterophylla</i>		■	■	■	■	■	■	■			western hemlock
	<i>Abies amabilis</i>		■	■	■	■	■	■	■	■		amabilis fir
	<i>Thuja plicata</i>	■	■	■	■	■	■	■	■			western redcedar
	<i>Tsuga mertensiana</i>		■		■	■	■	■		■		mountain hemlock
	<i>Chamaecyparis nootkatensis</i>		■		■	■	■	■				yellow-cedar
SHRUB LAYER	<i>Pseudotsuga menziesii</i>	■	■	■	■	■	■	■				Douglas-fir
	<i>Pinus contorta</i>	■										shore/lodgepole pine
	<i>Vaccinium alaskaense</i>	■	■		■	■	■	■	■		■	Alaskan blueberry
	<i>Vaccinium parvifolium</i>	■		■	■		■	■	■	■		red huckleberry
	<i>Vaccinium ovalifolium</i>		■	■	■		■	■	■		■	oval-leaved blueberry
	<i>Vaccinium membranaceum</i>	■			■			■	■			black huckleberry
	<i>Gaultheria shallon</i>	■	■		■		■	■				salal
	<i>Mahonia nervosa</i>			■								dull Oregon grape
	<i>Oplopanax horridus</i>							■				devil's club
	<i>Rubus spectabilis</i>										■	salmonberry
HERB LAYER	<i>Rubus pedatus</i>		■				■			■		five-leaved bramble
	<i>Tiarella trifoliata</i>			■	■						■	three-leaved foamflower
	<i>Achlys triphylla</i>			■	■			■	■			vanilla-leaf
	<i>Streptopus streptopoidus</i>			■								small twistedstalk
	<i>Polystichum munitum</i>		■			■						sword fern
	<i>Cornus canadensis</i>			■			■	■				bunchberry
	<i>Blechnum spicant</i>						■					deer fern
	<i>Streptopus roseus</i>						■					rosy twistedstalk
	<i>Coptis asplenifolia</i>						■			■		fern-leaved goldthread
	<i>Athyrium filix-femina</i>								■	■	■	ladyfern
MOSS LAYER	<i>Gymnocarpium dryopteris</i>					■		■	■	■	■	oak fern
	<i>Veratrum viride</i>									■		Indian hellebore
	<i>Viola glabella</i>											stream violet
	<i>Lysichitum americanum</i>								■		■	skunk cabbage
	<i>Carex</i> spp.										■	sedge
	<i>Fauria crista-galli</i>											deer-cabbage
	<i>Rhytidiadelphus loreus</i>	■	■	■	■	■	■	■	■	■		lanky moss
	<i>Rhytidiopsis robusta</i>		■	■	■		■	■	■			pipecleaner moss
	<i>Hylocomium splendens</i>	■	■	■	■	■	■	■	■			step moss
	<i>Pleurozium schreberi</i>	■										red-stemmed feathermoss
	<i>Cladina</i> spp.	■										lichens
	<i>Plagiomnium insignne</i>							■				coastal leafy moss
	<i>Rhizomnium nudum</i>									■	■	leafy moss
	<i>Sphagnum girgensohnii</i>							■		■		common green sphagnum
<i>Kindbergia praelonga</i>									■		■	



## Soil Nutrient Regime

	Actual Relative	Soil Nutrient Regime				
		Very Poor A	Poor B	Medium C	Rich D	Very Rich E
MD	0	02				
SD	1	03		04		
SD	2	ZONAL				
F	3	01		05		
F	4					
M	5	06		08		
VM	6	07				
W	7	09		10		

Site	Series
01	HwBa - Pipecleaner moss
02	FdHw - Salal
03	HwCw - Salal
04	CwHw - Sword fern
05	BaCw - Foamflower
06	HwBa - Deer fern
07	CwYc- Goldthread
08	BaCw - Salmonberry
09	Pl - Sphagnum
10	CwSs - Skunk cabbage

CWHmm2

Montane Moist Maritime  
CWH Variant

Grid No. 6

Site Series		02	03	01	04	05	06	10*	11	
										* Less than 4 plots.
TREE LAYER	Tsuga heterophylla	■	■	■	■	■	■		■	western hemlock
	Pseudotsuga menziesii	■	■	■	■	■	■		■	Douglas-fir
	Abies amabilis		■	■	■	■	■		■	amabilis fir
	Thuja plicata		■	■	■	■	■		■	western redcedar
	Pinus contorta	■						■		shore/lodgepole pine
SHRUB LAYER	Abies lasiocarpa	■				■	■			subalpine fir
	Picea sitchensis					■	■		■	Sitka spruce
	Menziesia ferruginea	■		■		■	■		■	false azalea
	Vaccinium membranaceum	■	■	■	■	■	■		■	black huckleberry
	Vaccinium alaskaense	■		■		■	■		■	Alaskan blueberry
HERB LAYER	Paxistima myrsinites		■							falsebox
	Chimaphila umbellata	■	■	■						prince's pine
	Arctostaphylos uva-ursi	■								kinnikinnick
	Mahonia nervosa		■	■						dull Oregon-grape
	Vaccinium ovalifolium		■	■		■	■		■	oval-leaved blueberry
MOSS LAYER	Acer circinatum		■		■					vine maple
	Rubus parviflorus				■		■		■	thimbleberry
	Oplopanax horridus				■		■		■	devil's club
	Rubus spectabilis						■		■	salmonberry
	Ledum groenlandicum							■	■	Labrador tea
MOSS LAYER	Vaccinium oxycoccos							■		bog cranberry
	Cornus canadensis	■		■		■	■		■	bunchberry
	Clintonia uniflora		■	■	■	■	■		■	queen's cup
	Orthilia secunda		■	■	■	■	■		■	one-sided wintergreen
	Smilacina stellata			■	■	■	■		■	star-flowered false Sol.'s-seal
MOSS LAYER	Rubus pedatus			■		■	■		■	five-leaved bramble
	Tiarella unifoliata				■	■	■		■	one-leaved foamflower
	Gymnocarpium dryopteris				■	■	■		■	oak fern
	Streptopus roseus				■	■	■		■	rosy twistedstalk
	Athyrium filix-femina				■	■	■		■	lady fern
MOSS LAYER	Eriophorum chamissonis							■		Chamisso's cotton-grass
	Lysichitum americanum								■	skunk cabbage
	Equisetum arvense								■	common horsetail
	Pleurozium schreberi	■	■	■	■	■	■	■	■	red-stemmed feathermoss
	Hylocomium splendens	■	■	■	■	■	■	■	■	step moss
MOSS LAYER	Rhytidiopsis robusta	■		■	■	■	■		■	pipecleaner moss
	Rhytidiadelphus loreus	■		■		■	■		■	lanky moss
	Cladonia spp.	■								lichens
	Plagiomnium insigne				■		■			coastal leafy moss
	Sphagnum spp.							■	■	sphagnum moss

# Soil Nutrient Regime

Actual	Relative	Very Poor A	Poor B	Medium C	Rich D	Very Rich E
VD	0	02				
MD	1	03				
MD	2					
SD	3	ZONAL			04	
F	4	01				
M	6	05			06 *	
VM	6					
W	7	10		11		

\* See grid # 126 for site series 07 - 09.

## Site Series

- 01 HwBa - Step moss
- 02 FdPl - Kinnikinnick
- 03 FdHw - Falsebox
- 04 BaCw - Oak fern
- 05 HwBa - Queen's cup
- 06 BaCw - Devil's club
- 10 Pl - Sphagnum
- 11 CwSs - Skunk cabbage

Grid No. 7

CWHmsl

Southern Moist Submaritime  
CWH Variant

SITE CLASSIFICATION

GENERAL SITES

Site Series		02	03	01	04	05	06	10 <sup>a</sup>	11	Less than 4 plots
TREE LAYER	<i>Tsuga heterophylla</i>	■	■	■	■	■	■		■	western hemlock
	<i>Abies amabilis</i>		■	■	■	■	■		■	amabilis fir
	<i>Thuja plicata</i>		■	■	■	■	■		■	western redcedar
	<i>Pseudotsuga menziesii</i>	■	■	■	■		■			Douglas-fir
	<i>Pinus contorta</i>	■						■		shore/lodgepole pine
	<i>Picea engelmannii</i>				■		■		■	Engelmann spruce
	<i>Picea sitchensis</i>				■	■	■			Sitka spruce
	<i>Abies lasiocarpa</i>	■				■	■			subalpine fir
	<i>Menziesia ferruginea</i>	■	■	■	■	■			■	false azalea
	<i>Vaccinium alaskaense</i>	■		■	■	■			■	Alaskan blueberry
SHRUB LAYER	<i>Vaccinium membranaceum</i>	■	■			■	■			black huckleberry
	<i>Paxistima myrsinites</i>	■	■							falsebox
	<i>Chimaphila umbellata</i>	■	■							prince's pine
	<i>Arctostaphylos uva-ursi</i>	■	■							kinnikinnick
	<i>Vaccinium ovalifolium</i>			■	■	■	■		■	oval-leaved blueberry
	<i>Rubus spectabilis</i>				■				■	salmonberry
	<i>Oplopanax horridus</i>				■		■		■	devil's club
	<i>Ledum groenlandicum</i>							■		Labrador tea
	<i>Vaccinium oxycoccos</i>							■		bog cranberry
	<i>Cornus canadensis</i>	■	■	■	■	■	■		■	bunchberry
HERB LAYER	<i>Clintonia uniflora</i>		■	■	■	■	■		■	queen's cup
	<i>Orthilia secunda</i>		■	■	■	■	■		■	one-sided wintergreen
	<i>Rubus pedatus</i>			■	■	■	■		■	five-leaved bramble
	<i>Streptopus roseus</i>				■	■	■		■	rosy twistedstalk
	<i>Dryopteris expansa</i>				■	■	■		■	spiny wood fern
	<i>Tiarella trifoliata</i>				■	■	■		■	three-leaved foamflower
	<i>Gymnocarpium dryopteris</i>				■	■	■		■	oak fern
	<i>Athyrium filix-femina</i>				■	■	■		■	lady fern
	<i>Tiarella unifoliata</i>				■	■	■		■	one-leaved foamflower
	<i>Carex</i> spp.							■		sedge
MOSS LAYER	<i>Lysichitum americanum</i>								■	skunk cabbage
	<i>Equisetum arvense</i>								■	common horsetail
	<i>Hylocomium splendens</i>	■	■	■	■	■	■		■	step moss
	<i>Rhytidiopsis robusta</i>	■	■	■	■	■	■		■	pipecleaner moss
	<i>Pleurozium schreberi</i>	■	■	■	■	■	■	■	■	red-stemmed feathermoss
	<i>Rhytidiadelphus loreus</i>	■		■	■	■	■		■	lanky moss
	<i>Cladonia</i> spp.	■								lichen
	<i>Plagiomnium insigne</i>				■		■		■	coastal leafy moss
	<i>Rhizomnium glabrescens</i>						■		■	large leafy moss
	<i>Sphagnum</i> spp.							■	■	sphagnum moss

# Soil Nutrient Regime

	Actual Relative	Soil Nutrient Regime				
		Very Poor A	Poor B	Medium C	Rich D	Very Rich E
VD 0		02				
MD 1		03				
MD 2						
SD 3		ZONAL 01			04	
F 4						
M 5		05			06 *	
VM 6						
W 7		10			11	

\* See grid # 26 for site series 07 - 09

## Site Series

- 01 HwBa - Step moss
- 02 FdPl - Kinnikinnick
- 03 FdHw - Falsebox
- 04 BaCw - Oak fern
- 05 HwBa - Queen's cup
- 06 BaCw - Devil's club
- 10 Pl - Sphagnum
- 11 CwSs - Skunk cabbage

Grid No. 8

CWHms2

Central Moist Submaritime  
CWH Variant

SITE CLASSIFICATION

GENERAL SITES



# Soil Nutrient Regime

	Actual	Relative	Very Poor A	Poor B	Medium C	Rich D	Very Rich E
SD	0		02				
SD	1		03				
F	2					05	
F	3		04				
M	4		ZONAL 01			06	
VM	5		11			07 *	
W	6					13	
W	7		12				

\*See grid #28 for site series 08-10.

## Site Series

- 01 CwHw - Salal
- 02 PIYc - Rhacomitrium
- 03 CwYc - Salal
- 04 HwSs - Lanky moss (steep slopes)
- 05 CwSs - Sword fern (steep slopes)
- 06 CwSs - Foamflower
- 07 CwSs - Devil's club
- 11 CwYc - Goldthread
- 12 PIYc - Sphagnum
- 13 CwSs - Skunk cabbage

CWHvhl

Southern Very Wet  
Hypermaritime CWH Variant

Grid No. 9

Site Series		02	03	04	05	01	06	07	11	12	13	
TREE LAYER	<i>Thuja plicata</i>											western redcedar
	<i>Tsuga heterophylla</i>											western hemlock
	<i>Chamaecyparis nootkatensis</i>											yellow-cedar
	<i>Pinus contorta</i>											shore/lodgepole pine
	<i>Picea sitchensis</i>											Sitka spruce
SHRUB LAYER	<i>Abies amabilis</i>											amabilis fir
	<i>Gaultheria shallon</i>											salal
	<i>Vaccinium parvifolium</i>											red huckleberry
	<i>Menziesia ferruginea</i>											false azalea
	<i>Vaccinium alaskaense</i>											Alaskan blueberry
	<i>Juniperus communis</i>											common juniper
	<i>Vaccinium ovalifolium</i>											oval-leaved blueberry
	<i>Rubus spectabilis</i>											salmonberry
	<i>Oplopanax horridus</i>											devil's club
	<i>Ledum groenlandicum</i>											Labrador tea
HERB LAYER	<i>Kalmia microphylla</i>											western bog-laurel
	<i>Blechnum spicant</i>											deer fern
	<i>Maianthemum dilatatum</i>											false lily-of-the-valley
	<i>Cornus canadensis</i>											bunchberry
	<i>Calamagrostis nutkaensis</i>											Pacific reedgrass
	<i>Empetrum nigrum</i>											crowberry
	<i>Dryopteris expansa</i>											spiny wood fern
	<i>Polystichum munitum</i>											swamp fern
	<i>Tiarella trifoliata</i>											three-leaved foamflower
	<i>Athyrium filix-femina</i>											lady fern
	<i>Gymnocarpium dryopteris</i>											oak fern
	<i>Coptis asplenifolia</i>											fern-leaved goldthread
	<i>Lysichiton americanum</i>											skunk cabbage
	<i>Fauria crista-galli</i>											deer-cabbage
	<i>Carex</i> spp.											sedge
MOSS LAYER	<i>Hylacomium splendens</i>											step moss
	<i>Rhytidiadelphus loreus</i>											lanky moss
	<i>Kindbergia oregana</i>											Oregon beaked moss
	<i>Cladonia</i> spp.											lichen
	<i>Rhacomitrium lanuginosum</i>											hoary rock moss
	<i>Rhizomnium glabrescens</i>											large leafy moss
	<i>Sphagnum girgensohnii</i>											common green sphagnum
	<i>Pellia neesiana</i>											shiny liverwort
	<i>Leucolepis menziesii</i>											palm tree moss
	<i>Sphagnum</i> spp.											sphagnum moss



## Soil Nutrient Regime

	Actual Relative	Very Poor A	Poor B	Medium C	Rich D	Very Rich E
SD	0	02				
SD	1	03				
F	2				05	
F	3	04				
M	4	ZONAL 01			06	
VM	5	11			07 *	
W	6	12			13	
W	7					

\* See grid # 28 for site series 08-10.

## Site Series

- 01 CwHw - Salal  
 02 PIYc - Rhacomitrium  
 03 CwYc - Salal  
 04 HwSs - Lanky moss  
 (steep slopes)  
 05 CwSs - Sword fern  
 (steep slopes)  
 06 CwSs - Foamflower  
 07 CwSs - Devil's club  
 11 CwYc - Goldthread  
 12 PIYc - Sphagnum  
 13 CwSs - Skunk cabbage

CWHvh2

Central Very Wet  
Hypermaritime CWH Variant

Grid No. 10

SITE CLASSIFICATION

GENERAL SITES

Site Series		02	03	04	01 <sup>a</sup>	05	06 <sup>a</sup>	07	08	13	14	
TREE LAYER	<i>Thuja plicata</i>	■	■	■	■	■	■	■	■	■	■	western redcedar
	<i>Tsuga heterophylla</i>		■	■	■	■	■	■	■	■	■	western hemlock
	<i>Pseudotsuga menziesii</i> <sup>b</sup>		■	■	■	■	■	■	■	■	■	Douglas-fir
	<i>Pinus contorta</i>	■								■		shore pine
	<i>Abies amabilis</i>				■	■	■	■	■			amabilis fir
SHRUB LAYER	<i>Picea sitchensis</i> <sup>c</sup>					■	■	■	■			Sitka spruce
	<i>Alnus rubra</i>					■	■	■	■			red alder
	<i>Vaccinium parvifolium</i>	■	■	■	■	■	■	■	■	■	■	red huckleberry
	<i>Vaccinium alaskaense</i>	■	■	■	■	■	■	■	■	■	■	Alaskan blueberry
	<i>Menziesia ferruginea</i>		■							■	■	false azalea
	<i>Gaultheria shallon</i>	■	■		■		■			■	■	salal
	<i>Vaccinium ovalifolium</i>											oval-leaved blueberry
	<i>Oplopanax horridus</i>								■	■		devil's club
	<i>Rubus spectabilis</i>					■			■		■	salmonberry
	<i>Kalmia microphylla</i>									■		western bog-laurel
HERB LAYER	<i>Ledum groenlandicum</i>									■	■	Labrador tea
	<i>Blechnum spicant</i>			■	■	■	■	■		■	■	deer fern
	<i>Cornus canadensis</i>		■							■		bunchberry
	<i>Polystichum munitum</i>			■		■		■				sword fern
	<i>Dryopteris expansa</i>					■			■			spiny wood fern
	<i>Clintonia uniflora</i>				■							queen's cup
	<i>Gymnocarpium dryopteris</i>			■					■			oak fern
	<i>Rubus pedatus</i>											five-leaved bramble
	<i>Tiarella trifoliata</i>											three-leaved foamflower
	<i>Maianthemum dilatatum</i>											false lily-of-the-valley
MOSS LAYER	<i>Athyrium filix-femina</i>								■		■	lady fern
	<i>Coptis asplenifolia</i>									■	■	fern-leaved goldthread
	<i>Lysichitum americanum</i>									■	■	skunk cabbage
	<i>Carex</i> spp.	■								■	■	sedge
	<i>Hylocomium splendens</i>	■	■	■	■	■	■	■	■	■	■	step moss
	<i>Kindbergia oregana</i>		■	■	■	■	■	■	■	■	■	Oregon beaked moss
	<i>Rhytidadelphus loreus</i>		■	■	■	■	■	■	■	■	■	lanky moss
	<i>Plagiothecium undulatum</i>		■		■	■	■	■	■	■	■	flat moss
	<i>Pleurozium schreberi</i>	■								■	■	red-stemmed feathermoss
	<i>Cladina</i> spp.	■										lichen
	<i>Rhacomitrium lanuginosum</i>	■										hoary rock moss
	<i>Sphagnum girgensohnii</i>									■	■	common green sphagnum
	<i>Rhizomnium glabrescens</i>			■		■			■			large leafy moss
	<i>Pellia neesiana</i>										■	shiny liverwort
	<i>Sphagnum</i> spp.									■	■	sphagnum moss

<sup>a</sup>"Salal phase" dominated by Cw, Hw, salal, Alaskan blueberry and red huckleberry.<sup>b</sup>More abundant in southern portion.<sup>c</sup>More abundant in northern portion.

# Soil Nutrient Regime

Actual	Relative	Very	Poor	Medium	Rich	Very
		Poor A	B	C	D	Rich E
MD	0	02				
SD	1	03			04	
SD	2					
F	3	ZONAL			05	
F	4	01				
M	5	06			07/08	
VM	6					
W	7	13		14		

\* See grid # 29 for site series 09 - 11; Site series 08 in northern portion of variant; 12 rare in region.

## Site Series

\*\*

01 HwBa - Blueberry

02 HwPl - Cladina

03 HwCw - Salal

04 CwHw - Swordfern

05 BaCw - Foamflower

\*\*

06 HwBa - Deer fern

07 BaCw - Salmonberry

08 BaSs - Devil's club

13 Pl - Sphagnum

14 CwSs - Skunk cabbage

\* \*

A nutrient-very poor to poor "salal phase" of site series 01 and 06 occurs in subdued terrain on the west coast and north end of Vancouver Island. It is denoted with an "s" modifier to the site series number (e.g. 01s).

Grid No. II

CWHvml

Submontane Very Wet  
Maritime CWH Variant

SITE CLASSIFICATION

GENERAL SITES

Site Series		02	03	04	01	05	06	07	08	09	10	11	
TREE LAYER	<i>Thuja plicata</i>		■	■	■	■	■	■	■	■	■	■	western redcedar
	<i>Tsuga heterophylla</i>		■	■	■	■	■	■	■	■	■	■	western hemlock
	<i>Chamaecyparis nootkatensis</i>	■		■	■	■	■	■	■	■	■	■	yellow-cedar
	<i>Abies amabilis</i>		■	■	■	■	■	■	■	■	■	■	amabilis fir
	<i>Pseudotsuga menziesii</i> <sup>a</sup>	■	■	■	■	■	■	■	■	■	■	■	Douglas-fir
SHRUB LAYER	<i>Tsuga mertensiana</i>	■		■	■	■	■	■	■	■	■	■	mountain hemlock
	<i>Pinus contorta</i>	■		■	■	■	■	■	■	■	■	■	shore pine
	<i>Vaccinium alaskaense</i>	■	■	■	■	■	■	■	■	■	■	■	Alaskan blueberry
	<i>Vaccinium parvifolium</i>	■	■	■	■	■	■	■	■	■	■	■	red huckleberry
	<i>Vaccinium ovalifolium</i>	■	■	■	■	■	■	■	■	■	■	■	oval-leaved blueberry
HERB LAYER	<i>Gaultheria shallon</i>	■	■	■	■	■	■	■	■	■	■	■	salal
	<i>Menziesia ferruginea</i>	■	■	■	■	■	■	■	■	■	■	■	false azalea
	<i>Cassiope mertensiana</i>	■	■	■	■	■	■	■	■	■	■	■	white mountain-heather
	<i>Cladothamnus pyroliflorus</i>	■	■	■	■	■	■	■	■	■	■	■	copperbush
	<i>Vaccinium caespitosum</i>	■	■	■	■	■	■	■	■	■	■	■	dwarf blueberry
MOSS LAYER	<i>Mahonia nervosa</i>			■	■	■	■	■	■	■	■	■	dull Oregon-grape
	<i>Rubus spectabilis</i>			■	■	■	■	■	■	■	■	■	salmonberry
	<i>Oplopanax horridus</i>			■	■	■	■	■	■	■	■	■	devil's club
	<i>Cornus canadensis</i>			■	■	■	■	■	■	■	■	■	bunchberry
	<i>Achlys triphylla</i>			■	■	■	■	■	■	■	■	■	vanilla leaf
MOSS LAYER	<i>Polystichum munitum</i>			■	■	■	■	■	■	■	■	■	sword fern
	<i>Blechnum spicant</i>			■	■	■	■	■	■	■	■	■	deer fern
	<i>Rubus pedatus</i>			■	■	■	■	■	■	■	■	■	five-leaved bramble
	<i>Empetrum nigrum</i>	■		■	■	■	■	■	■	■	■	■	crowberry
	<i>Tiarella trifoliata</i>			■	■	■	■	■	■	■	■	■	three-leaved foamflower
MOSS LAYER	<i>Dryopteris expansa</i>			■	■	■	■	■	■	■	■	■	spiny wood fern
	<i>Coptis aspleniifolia</i>			■	■	■	■	■	■	■	■	■	fern-leaved goldthread
	<i>Athyrium filix-femina</i>			■	■	■	■	■	■	■	■	■	lady fern
	<i>Fauria crista-galli</i>			■	■	■	■	■	■	■	■	■	deer-cabbage
	<i>Lysichitum americanum</i>			■	■	■	■	■	■	■	■	■	skunk cabbage
MOSS LAYER	<i>Veratrum viride</i>			■	■	■	■	■	■	■	■	■	Indian hellebore
	<i>Hylocomium splendens</i>	■	■	■	■	■	■	■	■	■	■	■	step moss
	<i>Rhytidiadelphus loreus</i>	■	■	■	■	■	■	■	■	■	■	■	lanky moss
	<i>Rhytidiopsis robusta</i>	■	■	■	■	■	■	■	■	■	■	■	pipecleaner moss
	<i>Pleurozium schreberi</i>	■	■	■	■	■	■	■	■	■	■	■	red-stemmed feathermoss
MOSS LAYER	<i>Cladonia spp.</i>	■		■	■	■	■	■	■	■	■	■	lichen
	<i>Plagiothecium undulatum</i>		■	■	■	■	■	■	■	■	■	■	flat moss
	<i>Rhyzomnium glabrescens</i>			■	■	■	■	■	■	■	■	■	large leafy moss
	<i>Scapania bolanderi</i>			■	■	■	■	■	■	■	■	■	scapania
	<i>Sphagnum girgensohnii</i>			■	■	■	■	■	■	■	■	■	common green sphagnum

<sup>a</sup> More abundant in southern portion.

## Soil Nutrient Regime

Actual	Relative	Very Poor	Poor	Medium	Rich	Very Rich
		A	B	C	D	E
MD	0	02				
SD	1					
SD	2	03			04	
F	3	ZONAL				
F	4	01			05	
M	5	06			07/08	
VM	6	09				
W	7	10		11		

Site	Series
01	HwBa - Blueberry
02	HwPl - Cladina
03	HwCw - Salal
04	CwHw - Sword fern
05	BaCw - Foamflower
06	HwBa - Deer fern
07	BaCw - Salmonberry
08	BaSs - Devil's club
09	CwYc - Goldthread
10	Pl - Sphagnum
11	CwSs - Skunk cabbage

Grid No. 12

**CWHvm2**

Montane Very Wet  
Maritime CWH Variant

SITE CLASSIFICATION

GENERAL SITES

Site Series		02	01 <sup>a</sup>	03	04 <sup>b</sup>	05	06	10	11	12	
TREE LAYER	<i>Picea sitchensis</i>	■	■	■	■	■	■	■		■	Sitka spruce
	<i>Tsuga heterophylla</i>	■	■	■	■	■	■	■		■	western hemlock
	<i>Thuja plicata</i>	■	■	■	■	■	■	■	■	■	western redcedar
	<i>Chamaecyparis nootkatensis</i>			■	■			■	■	■	yellow-cedar
	<i>Tsuga mertensiana</i>				■			■	■	■	mountain hemlock
SHRUB LAYER	<i>Pinus contorta</i>				■			■	■	■	shore/lodgepole pine
	<i>Vaccinium parvifolium</i>	■	■	■	■	■	■	■	■	■	red huckleberry
	<i>Menziesia ferruginea</i>		■		■	■	■	■	■	■	false azalea
	<i>Vaccinium alaskaense</i>	■	■		■	■	■	■	■	■	Alaskan blueberry
	<i>Gaultheria shallon</i>	■			■			■	■	■	salal
	<i>Vaccinium ovalifolium</i>					■	■				oval-leaved blueberry
	<i>Kalmia microphylla</i>							■	■	■	western bog-laurel
	<i>Ledum groenlandicum</i>								■	■	Labrador tea
	<i>Myrica gale</i>								■	■	sweet gale
	<i>Blechnum spicant</i>	■	■	■	■			■	■	■	deer fern
HERB LAYER	<i>Polystichum munitum</i>			■	■				■	■	sword fern
	<i>Cornus canadensis</i>								■	■	bunchberry
	<i>Gymnocarpium dryopteris</i>										oak fern
	<i>Tiarella trifoliata</i>										three-leaved foamflower
	<i>Streptopus roseus</i>										rosy twistedstalk
	<i>Coptis asplenifolia</i>								■	■	fern-leaved goldthread
	<i>Empetrum nigrum</i>								■	■	crowberry
	<i>Carex</i> spp.							■			sedge
	<i>Veratrum viride</i>										Indian hellebore
	<i>Lysichiton americanum</i>								■	■	skunk cabbage
MOSS LAYER	<i>Fauria crista-galli</i>								■	■	deer-cabbage
	<i>Trichophorum caespitosum</i>	■	■	■	■	■	■	■	■	■	tufted clubrush
	<i>Hylocomium splendens</i>	■	■	■	■	■	■	■	■	■	step moss
	<i>Rhytidiadelphus loreus</i>	■	■	■	■	■	■	■	■	■	lanky moss
	<i>Rhizomnium glabrescens</i>			■	■	■	■		■	■	large leafy moss
	<i>Kindbergia oregana</i>	■	■	■	■	■	■	■		■	Oregon beaked moss
	<i>Plagiothecium undulatum</i>			■	■	■	■				flat moss
	<i>Scapania bolanderi</i>	■	■	■	■	■	■				
	<i>Pellia neesiana</i>										shiny liverwort
	<i>Polytrichum alpinum</i>			■	■	■	■				stiff-leaved haircap moss
	<i>Conocephalum conicum</i>				■	■	■				
	<i>Leucolepis menziesii</i>			■	■	■	■				
	<i>Sphagnum girgensohnii</i>				■	■	■	■	■	■	palm tree moss
	<i>Sphagnum</i> spp.					■	■	■	■	■	common green sphagnum
	<i>Pleurozium schreberi</i>								■	■	sphagnum moss
									■	■	red-stemmed feathermoss

<sup>a</sup> "Salal phase" dominated by Cw, Hw, salal and mosses.<sup>b</sup> Salal lacking under dense second-growth stands.

Grid No. 13

CWHwh1

Submontane Wet Hypermaritime  
CWH Variant

## Soil Nutrient Regime

	Actual	Relative	Very Poor A	Poor B	Medium C	Rich D	Very Rich E
SD	0						
SD	1		02				
SD	2						
F	3		ZONAL 01			03	
F	4						
M	5		04			05	
VM	6					06 *	
W	7		10		12		
			11				

Site Series

\*\*

01 HwSs - Lanky moss

02 CwSs - Salal

03 CwSs - Sword fern

04 CwHw - Salal

05 CwSs - Foamflower

06 CwSs - Conocephalum

10 CwYc - Goldthread

11 PIYc - Sphagnum

12 CwSs - Skunk cabbage

\*\*

A nutrient-very poor to poor "salal phase" of site series 01 occurs in subdued terrain on the Queen Charlotte Lowlands and the eastern Skidegate Plateau. It is denoted with an "s" modifier to the site series number (e.g. 01s).