

Summary of Plant Community Types of Ladysmith Bog Ecological Reserve (ER #139)
 Compiled October 2000 by H. Roemer on the basis of field visits July 8, 1994, and September 12, 2000
 (non-native species are designated "**")

Plant Community Name / Habitat	Stratum	Dominants	Subdominants or sometime co-dominants	Comments
1) Open Meadow / Very shallow soils over bedrock	herb / grass	sweet vernalgrass*	hairy cat's ear* long-stoloned sedge California and timber oatgrass soft brome* early and silver hairgrass*	trees (Douglas-fir, Garry oak, Arbutus) only scattered or as fringe
	moss	broom moss	grey frayed-cap moss juniper haircap moss	
2) Douglas-fir – Arbutus Open Forest / shallow soils over bedrock	tree	Douglas-fir Arbutus		herb layer species-rich, but thinly scattered only
	shrub	Oregongrape	trailing snowberry ocean spray salal	
	moss		Oregon beaked moss electrified cat's tail moss step moss	
3) Douglas-fir – Salal Forest / on well-drained soils	tree	Douglas-fir	Arbutus	herb layer absent
	shrub	salal	Oregongrape ocean spray trailing blackberry	
	moss		Oregon beaked moss step moss	
4) Mixed Deciduous & Conifer Forest on imperfectly drained soils	tree	red alder Douglas-fir western redcedar	grand fir big-leaf maple cascara	common in area, but variable in composition
	shrub	salal	salmonberry trailing blackberry common snowberry	
	herb	sword fern		
	moss	Oregon beaked moss	small Oregon beaked moss	
5) Western redcedar – sword fern / Deep soils with sub-surface seepage	tree	western redcedar	grand fir big-leaf maple Douglas-fir western hemlock red alder	highly productive sites; forest often approaching old growth conditions
	herb	sword fern	vanilla leaf	
	moss		palm tree moss slender beaked moss	
6) Red alder – Slough sedge / Poorly drained, wet depressions	tree	red alder	western redcedar grand fir	shrub and moss layers often absent; trees often restricted to the outer zone of the sedge community; stagnant water seasonally changing; only where no beaver activity
	shrub		salmonberry	
	herb	slough sedge skunk cabbage	water parsley	
	moss		slender beaked moss common water moss	

cont....

7) Beaver Swamps / Very wet, or standing water	tree	western redcedar and red alder, often dead		too variable in spp. combination and successional stage to summarize
	herb	sedges and aquatics		
	moss		common water moss (in older ponds)	
8) Small-scale marsh and fen communities / Very wet	herb	inflated sedge slough sedge cat tail	grey sedge star sedge	very variable
9) Labrador tea – Peat moss / Very wet peat bog	shrub	Labrador tea	bog laurel	
	moss	small tan peatmoss	red peatmoss hair-leaf red peatmoss shrubby lichens	
10) Sweet gale – Peatmoss / Wet bog	shrub	sweet gale hardhack	Labrador tea	
	herb		sedges	
	moss	fat peat moss	spread-leaved peatmoss western yellow-green peatmoss	
11) Pond lily – Water shield / Aquatic community	floating	pond lily water shield	floating-leaved pondweed	
	submerged	bladderwort	?	
12) Other aquatic and emergent communities		?	?	Further inventory of wetlands needed

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Plant Community Name / Habitat	Stratum	Dominants	Subdominants or sometime co-dominants	Comments
1) Open Meadow / very shallow soils over bedrock	herb / grass	<i>Anthoxanthum odoratum</i> *	<i>Hypochaeris radicata</i> * <i>Carex inops</i> <i>Danthonia</i> spp. <i>Bromus hordeaceus</i> * <i>Aira</i> spp.*	trees (<i>Pseudotsuga</i> , <i>Quercus</i> , <i>Arbutus</i>) only scattered or as fringe
	moss	<i>Dicranum scoparium</i>	<i>Rhacomitrium canescens</i> <i>Polytrichum juniperinum</i>	
2) <i>Pseudotsuga</i> – <i>Arbutus</i> Open Forest / shallow soils over bedrock	tree	<i>Pseudotsuga menziesii</i> <i>Arbutus menziesii</i>		herb layer species-rich, but thinly scattered only
	shrub	<i>Mahonia nervosa</i>	<i>Symphoricarpus mollis</i> <i>Holodiscus discolor</i> <i>Gaultheria shallon</i>	
	moss		<i>Kindbergia oregana</i> <i>Rhytidiadelphus triquetrus</i> <i>Hylocomium splendens</i>	
3) <i>Pseudotsuga</i> – <i>Gaultheria</i> Forest / on well-drained soils	tree	<i>Pseudotsuga menziesii</i>	<i>Arbutus menziesii</i>	herb layer absent
	shrub	<i>Gaultheria shallon</i>	<i>Mahonia nervosa</i> <i>Holodiscus discolor</i> <i>Rubus ursinus</i>	
	moss		<i>Kindbergia oregana</i> <i>Hylocomium splendens</i>	
4) Mixed Deciduous & Conifer Forest on imperfectly drained soils	tree	<i>Alnus rubra</i> <i>Pseudotsuga menziesii</i> <i>Thuja plicata</i>	<i>Abies grandis</i> <i>Acer macrophyllum</i> <i>Rhamnus purshiana</i>	common in area, but variable in composition
	shrub	<i>Gaultheria shallon</i>	<i>Rubus spectabilis</i> <i>Rubus ursinus</i> <i>Symphoricarpus albus</i>	
	herb	<i>Polystichum munitum</i>		
	moss	<i>Kindbergia oregana</i>	<i>Kindbergia praelonga</i>	
5) <i>Thuja</i> – <i>Polystichum</i> / Deep soils with sub-surface seepage	tree	<i>Thuja plicata</i>	<i>Abies grandis</i> <i>Acer macrophyllum</i> <i>Pseudotsuga menziesii</i> <i>Tsuga heterophylla</i> <i>Alnus rubra</i>	highly productive sites; forest often approaching old growth conditions
	herb	<i>Polystichum munitum</i>	<i>Achlys triphylla</i>	
	moss		<i>Leucolepis menziesii</i> <i>Kindbergia oregana</i>	
6) <i>Alnus rubra</i> – <i>Carex obnupta</i> / Poorly drained, wet depressions	tree	<i>Alnus rubra</i>	<i>Thuja plicata</i> <i>Abies grandis</i>	shrub and moss layers often absent; trees often restricted to the outer zone of the sedge community; stagnant water seasonally changing; only where no beaver activity
	shrub		<i>Rubus spectabilis</i>	
	herb	<i>Carex obnupta</i> <i>Lysichiton americanum</i>	<i>Oenanthe sarmentosa</i>	
	moss		<i>Kindbergia praelonga</i> <i>Fontinalis antipyretica</i>	

cont....

7) Beaver Swamps / Very wet, or standing water	tree	Thuja plicata and Alnus rubra, often dead		too variable in spp. combination and successional stage to summarize
	herb	sedges and aquatics		
	moss		Fontinalis (in older ponds)	
8) Small-scale marsh and fen communities / Very wet	herb	Carex exsiccata Carex obnupta Typha latifolia	Carex canescens Carex echinata	very variable; further inventory of wetlands needed
9) Ledum – Sphagnum / Very wet peat bog	shrub	Ledum groenlandicum	Kalmia microphylla	
	moss	Sphagnum fuscum	Sphagnum rubellum Sphagnum capillifolium Cladina spp.	
10) Myrica – Sphagnum spp. / Wet bog	shrub	Myrica gale Spiraea douglasii	Ledum groenlandicum	
	herb		Carex spp.	
	moss	Sphagnum papillosum	Sphagnum squarrosum Sphagnum pacificum	
11) Nuphar – Brasenia / Aquatic community	floating	Nuphar polysepalum Brasenia schreberi	Potamogeton natans	
	submerged	Utricularia vulgaris	?	
12) Other aquatic and emergent communities		?	?	Further inventory of wetlands needed

ER #139 Plant Checklist

(Community types in which the species occur are referenced by their numbers – compare
"Summary of Plant Community Types"; *asterisks designate introduced species)

Abies grandis - Grand fir	3456
Acer macrophyllum - Bigleaf maple	345
Achillea millefolium - Yarrow	1
Achlys triphylla - Vanilla leaf	45
Agrostis aequivalvis - Alaska bentgrass	910
Agrostis gigantea - Redtop*	78
Agrostis scabra - Hair bentgrass	1
Agrostis stolonifera - Creeping bentgrass*	7
Aira caryophylla - Silver hairgrass*	1
Aira praecox - Early hairgrass*	1
Allium acuminatum - Hooker's onion	1
Alnus rubra - Red alder	4567
Amelanchier alnifolia - Saskatoon	123
Anthoxanthum odoratum - Vernalgrass	1
Arbutus menziesii - Madrone	123
Arctostaphylos uva-ursi - Kinnikinnick	1
Athyrium filix-femina - Lady fern	67
Bidens amplissima - Vancouver Island beggarticks	7
Bidens cernua - Nodding beggarticks	7
Blechnum spicant - Deer fern	6
Brasenia schreberi - Water shield	11
Bromus carinatus - California brome	1
Bromus hordeaceus - Soft brome*	1
Bromus vulgaris - Columbia brome	234
Calamagrostis canadensis - Canada reedgrass	78
Callitriche verna - Early water-starwort	7 12
Camassia quamash - Common camas	1
Campanula scouleri - Scouler's harebell	1
Cannabis sativa - Hemp*	8
Carex bebbii - Bebb's sedge	78
Carex brevicaulis - Short-stemmed sedge	1
Carex canescens - Grey sedge	7
Carex cf. cusickii - Cusick's sedge	7 10
Carex deweyana - Dewey's sedge	456
Carex echinata - Star sedge	910
Carex exsiccata - Inflated sedge	78 10
Carex inops - Long-stoloned sedge	1
Carex lasiocarpa - Slender sedge	10
Carex obnupta - Slough sedge	67
Cerastium arvense - Field chickweed	1
Cerastium viscosum - Sticky chickweed*	1
Ceratophyllum sp.- Coontail	1112
Circaea alpina - Enchanter's night shade	4 7
Cirsium arvense Canada thistle*	7
Cirsium vulgare - Bull thistle*	7
Corallorhiza maculata - Spotted coral root	23
Cornus stolonifera - Red-osier dogwood	lakeshore & stream fringes
Crataegus oxyacantha - European hawthorn*	1
Crepis capillaris - Smooth hawksbeard*	1
Cytisus scoparius - Scotch broom*	1
Dactylis glomerata - Orchard grass*	1
Danthonia californica - California oatgrass	1

Danthonia intermedia - Timber oatgrass	1
Dodecatheon hendersonii - Henderson's shooting-star	12
Drosera rotundifolia - Round-leaved sundew	9
Dryopteris expansa - Spiny woodfern	5
Dulichium arundinaceum - Three-way sedge	8 12
Eleocharis ovata - Blunt spikerush ????????????????	12
Elymus glaucus - Western wildrye	1
Elymus hirsutus - Hairy wildrye	steep banks, Priest Lk.
Epilobium cf. ciliatum - Purple-leaved willowherb	78
Epilobium sp. - Willowherb	7
Eriophorum chamissonis - Chamisso's cottongrass	9
Eriophyllum lanatum - Woolly sunflower	1
Erythronium oreganum - White fawn-lily	12
Festuca occidentalis - Western fescue	2
Festuca roemerii - Roemer's fescue	1
Festuca subulata - Crinkle-awn fescue	2
Festuca subuliflora - Bearded fescue	456
Fragaria virginiana - Wild strawberry	1
Fritillaria affinis - Chocolate lily	1
Galium trifidum - Small dedstraw ??????????????????	78
Galium triflorum - Three-flowered bedstraw	45
Gaultheria shallon - Salal	234
Glyceria leptostachya - Slender-spiked mannagrass ????????????	12
Goodyera oblongifolia - Rattlesnake plantain	23
Hieracium albiflorum - White hawkweed	12
Holcus lanatus - Velvetgrass*	1
Holodiscus discolor - Ocean spray	23
Hypericum anagalloides - Bog St. John's wort	7 10
Hypochaeris radicata - Cat's ear*	1
Ilex aquifolium - Holley*	3456
Iris pseudacorus - Yellow flag*	12
Juncus acuminatus - Tapered rush	78
Juncus effusus - Common rush*	78
Juncus ensifolius - Dagger-leaved rush	78
Kalmia microphylla - Bog laurel	910
Lactuca muralis - Wall lettuce*	2345
Ledum groenlandicum - Labrador tea	9
Lemna minor - Common duckweed	12
Linnaea borealis - Twin flower	23
Lonicera ciliosa - Western trumpet honeysuckle	23
Lonicera hispidula - Hairy honeysuckle	2
Lonicera involucrata - Black twinberry	7
Ludwigia palustris - Water purslane	12
Lycopus uniflorus - Water horehound	7 12
Lysichiton americanum - Skunk cabbage	67
Lysimachia thysiflora - Tufted loosestrife	12
Madia cf. glomerata - Clustered tarweed	1
Madia madioides - Woodland tarweed	2
Mahonia aquifolium - Tall Oregon grape	12
Mahonia nervosa - Oregon grape	23 5
Maianthemum dilatatum - False lily-of-the-valley	6
Mentha arvensis - Field mint	78
Menyanthes trifoliata - Bog bean	12
Microsteris gracilis - Pink twink	1
Mimulus moschatus - Musk flower	7
Moehringia macrophylla - Sandwort	2

Monotropa uniflora - Indian pipe	23
Montia parvifolia - Small-leaved montia	1
Montia sibirica - Siberian miner's lettuce	56
Myosotis laxa - Small-flowered forget-me-not	67
Myrica gale - Sweet gale	10
Myriophyllum sp. - Water milfoil	12
Nuphar polysepalum - Yellow pond lily	11
Nymphaea alba - European white waterlily*	11
Oenanthe sarmentosa - Water parsley	67
Perideridia gairdneri - Yampah root	1
Phalaris arundinacea - Canary reedgrass*	78
Piperia cf. candida - White Alaska rein-orchid	12
Plantago lanceolata - Ribwort plantain*	1
Plectritis congesta - Seablush	1
Polygonum douglasii ssp. spergulariaeforme - Spurry knotweed	1
Polypodium glycirrhiza - Licorice fern	12
Polystichum munitum - Sword fern	3456
Potamogeton cf. epihydrus - Ribbon-leaf pondweed	12
Potamogeton cf. pusillus - Small pondweed	12
Potamogeton natans - Floating-leaved pondweed	1112
Potentilla palustris - Swamp cinquefoil	12
Prunella vulgaris - Self-heal	1 7
Prunus emarginata - Fire cherry	4 7
Pseudotsuga menziesii - Douglas-fir	2345
Pteridium aquilinum - Bracken fern	234
Pyrus fusca - Pacific crabapple	67
Quercus garryana - Garry oak	1
Ranunculus aquatilis - White water buttercup	12
Ranunculus flammula - Lesser spearwort	7
Ranunculus repens - Creeping buttercup*	7
Rhamnus purshiana - Cascara	4
Rhynchospora alba - Beak-sedge	9
Rosa gymnocarpa - Baldhip rose	23
Rosa nutkana - Nootka rose	1
Rubus parviflorus - Thimbleberry	34
Rubus spectabilis - Salmonberry	6
Rubus ursinus - Trailing blackberry	4
Rumex acetosella - Sheep sorrel*	1
Rumex cf. conglomeratus - Clustered dock*	7
Salix sitchensis - Sitka willow	4
Sambucus racemosa - Red elderberry	4
Sanicula crassicaulis - Pacific sanicle	1
Satureja douglasii - Yerba buena	12
Scirpus microcarpus - Small-flowered bulrush	78
Scirpus subterminalis - Water clubrush	12
Scutellaria lateriflora - Blue scullcap	7
Sedum spathulifolium - Broad-leaved stonecrop	1
Selaginella wallacei - Wallace's selaginella	1
Senecio jacobaea - Tansy ragwort*	7
Sparganium emersum - Large burreed	12
Sparganium minimum - Small burreed	12
Spiraea douglasii - Hardhack	10 12
Spiranthes romanzoffiana - Ladies' tresses	1
Spirodela polyrhiza - Great duckweed	1112
Stachys cooleyae - Cooley's hedge nettle	67
Stellaria crispa - Crisped chickweed	6

Symphoricarpos albus - Common snowberry	4
Symphoricarpos mollis var. hesperius - Trailing snowberry	2
Tellima grandiflora - Tall fringe-cup	67
Thuja plicata - Western Redcedar	4567
Tiarella trifoliata - Foam flower	5
Torreyochloa pauciflora - Weak false manna	7
Trientalis arctica - Arctic starflower	910
Trientalis latifolia - Star flower	23
Trillium ovatum - Western trillium	5
Trisetum cernuum - Nodding trisetum	steep banks above Priest Lk.
Tsuga heterophylla - Western hemlock	5
Typha latifolia - Cattail	12
Urtica lyallii - Stinging nettle	shoreline, Priest Lk.
Utricularia gibba - Humped bladderwort	12
Utricularia vulgaris - Common bladderwort	1112
Vaccinium oxycoccos - Bog cranberry	9
Vaccinium parvifolium - Red huckleberry	345
Veronica americana - American brooklime	7
Veronica officinalis - Common speedwell	old logging roads
Veronica scutellata - Marsh speedwell	78 12
Veronica serpyllifolia - Thyme-leaved speedwell	old logging roads
Vicia americana - American vetch	1
Viola palustris - Marsh violet	10
Zygadenus venenosus - Death camas	1

Aulacomnium palustre	1 9
Cladina impexa	9
Cladina portentosa	1
Cladina rangiferina	1
Cladonia furcata	1
Dicranum scoparium	1
Fontinalis antipyretica	67 12
Homalothecium megaptilum	1
Hylocomium splendens	345
Kindbergia oregana	2345
Kindbergia praelonga	56
Leucolepis menziesii	45
Peltigera cf. malacea (?)	2
Plagiomnium insigne	45
Plagiothecium undulatum	5
Polytrichum commune	1
Polytrichum juniperinum	1
Rhacomitrium canescens	1
Rhizomnium glabrescens	5
Rhytidiadelphus loreus	45
Rhytidiadelphus triquetrus	12
Riccia fluitans	7 12
Ricciocarpus natans	7 12
Sphagnum capillifolium	9
Sphagnum pacificum	10
Sphagnum fuscum	9
Sphagnum papillosum	910
Sphagnum rubellum	9
Sphagnum squarrosum	10

ENTERED
 (Dec 17/01)