

Salmon Creek Estuary Botanical Inventory--State Fish and Wildlife Lands
by Fred Weinmann, September 23, 2004

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The lands inventoried consisted of estuarine salt marshes, old railroad grades, riparian areas and formerly farmed areas. The inventory is based on a single site visit of about 3 hours covering an area of over 300 acres. Therefore, this should not be considered a comprehensive inventory.

Areas Inventoried

Salt marsh area north of highway 101: This was mostly a high salt marsh with smaller areas of low marsh. A portion of the high marsh had been filled, apparently with material dredged from Snow Creek when it was rerouted to Discovery Bay.

The railroad grade (including several spurs) and the former saw mill site: These areas were characterized by many weedy, non-native species as well upland native species which had colonized since construction of the grade.

The formerly farmed area north of highway 101: Only a cursory inventory was completed. The old fields were dominated by non-native grasses and a forbs.

Riparian areas along Snow Creek and Salmon Creek: These consisted of forested and scrub-shrub areas.

Freshwater wetlands: There were occasional freshwater wetlands in small depressions as well as in small sloughs; there also were fresh wet areas associated with the Salmon and Snow creek in upstream areas. Portions of the riparian areas and the old pasture would also be considered wetlands. Since a wetland delineation was not conducted, I did not include any species from these areas in the fresh water wetland category of the attached list.

115 species, 65 native, 7 noxious (Obviously planted trees and shrubs are not included in the inventory)

Abbreviations used in the accompanying table:

I=introduced i.e. non-native

N=Native

nox=noxious

rr=railroad grade and/or old sawmill site

hsm=salt marsh

lsm=low salt marah

pasture=old pasture dominated by introduced grasses

rip=forested and scrub-shrub riparian areas along Snow and Salmon Creeks

fw=fresh water wetlands

Taxonomic note: The complex including *Atriplex prostrata*, *A. dioica* and *A. gmelini* are difficult to distinguish until fruits are fully mature. Additional research is necessary to determine which of these species occur at the site.

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Scientific Name	Common name	Family	Origin	Location
<i>Abies grandis</i>	Grand fir	Pinaceae	N	rr
<i>Acer macrophyllum</i>	Bigleaf maple	Aceraceae	N	rip
<i>Achillea millefolium</i>	Yarrow	Asteraceae	N	hsm,rr
<i>Agrostis capillaris</i>	Colonial bentgrass	Poaceae	I	rr,pasture
<i>Agrostis stolonifera</i>	Creeping bentgrass	Poaceae	I	hsm,rr
<i>Aira praecox</i>	Elegant hairgrass	Poaceae	I	rr
<i>Alnus rubra</i>	Red Alder	Betulaceae	N	rip
<i>Alopecurus pratensis</i>	Meadow foxtail	Poaceae	I	pasture
<i>Ambrosia chamissonis</i>	Silver burweed	Asteraceae	N	sandy shores
<i>Amelanchier alnifolia</i>	Serviceberry	Rosaceae	N	rr
<i>Anaphalis margaritacea</i>	Pearly everlasting	Asteraceae	N	rr,rip
<i>Angelica lucida</i>	Sea watch	Apiaceae	N	hsm
<i>Arbutus menziesii</i>	Pacific madrone	Ericaceae	N	rr
<i>Asparagus officinalis</i>	Asparagus	Liliaceae	I	hsm
<i>Aster subspicatus</i>	Saltmarsh aster	Asteraceae	N	hsm
<i>Athyrium filix-femina</i>	Lady fern	Dryopteridaceae	N	rr,rip,fw
<i>Atriplex prostrata</i>	Fat hen	Chenopodiaceae	I	hsm
<i>Brassica nigra</i>	Black mustard	Brassicaceae	I	pasture
<i>Buddleja davidii</i>	Butterfly bush	Buddlejaceae	I	rr
<i>Calystegia sylvatica</i>	Giant bindweed	Convolvulaceae	I	rr,rip
<i>Carex deweyana</i>	Dewey's sedge	Cyperaceae	N	pasture
<i>Carex lyngbyei</i>	Lyngbey's sedge	Cyperaceae	N	hsm,ism
<i>Carex obnupta</i>	Slough sedge	Cyperaceae	N	fw
<i>Centaurea biebersteinii</i>	Spotted knapweed	Asteraceae	I	rr
<i>Chenopodium album</i>	Lambsquarters	Chenopodiaceae	I	rr,hsm
<i>Cichorium intybus</i>	Chicory	Asteraceae	I	rr
<i>Cirsium arvense</i>	Creeping thistle	Asteraceae	nox	rr,rip,pasture,field sm
<i>Cornus sericea</i>	Red-stem dogwood	Comaceae	N	rip
<i>Crepis capillaris</i>	Smooth hawk's-be	Asteraceae	I	rr
<i>Cytisus scoparius</i>	Scot's broom	Fabaceae	nox	rr
<i>Dactylis glomerata</i>	Orchard grass	Poaceae	I	rr,pasture
<i>Daucus carota</i>	Queen Ann's lace	Apiaceae	nox	rr
<i>Deschampsia cespitosa</i>	Tufted hairgrass	Poaceae	N	hsm
<i>Dipsacus fullonum</i>	Wild teasel	Dipsacaceae	I	rr,rip
<i>Distichlis spicata</i>	Saltgrass	Poaceae	N	hsm,ism
<i>Elytrigia repens</i>	Quackgrass	Poaceae	I	rr,pasture
<i>Epilobium ciliatum</i>	Watson's willowherb	Onagraceae	N	rip
<i>Equisetum arvense</i>	Field horsetail	Equisetaceae	N	pasture
<i>Equisetum hyemale</i>	Scouring rush	Equisetaceae	N	rip
<i>Equisetum telmateia</i>	Giant horsetail	Equisetaceae	N	rr,rip
<i>Festuca arundinacea</i>	Tall fescue	Poaceae	I	rr,pasture
<i>Festuca rubra var. littoralis</i>	Salt marsh fescue	Poaceae	N	hsm
<i>Festuca rubra var. rubra</i>	European red fescue	Poaceae	I	pasture
<i>Fragaria virginiana</i>	Wild strawberry	Rosaceae	N	rr
<i>Gaultheria shallon</i>	Sisal	Ericaceae	N	rr
<i>Geum macrophyllum</i>	Big-leaved avens	Rosaceae	N	rr,rip

<i>Glaux maritima</i>	Sea milkwort	Primulaceae	N	hsm
<i>Glechoma hederacea</i>	Creeping charlie	Lamiaceae	I	rr,rip
<i>Grindelia integrifolia</i>	Beach gumweed	Asteraceae	N	rr,hsm
<i>Holcus lanatus</i>	Velvet grass	Poaceae	I	rr,pasture
<i>Holodiscus discolor</i>	Ocean spray	Rosaceae	N	rr,rip
<i>Hordeum brachyantherum</i>	Meadow barley	Poaceae	N	hsm
<i>Hypericum perforatum</i>	St. John's wort	Celastraceae	nox	rr
<i>Hypochaeris radicata</i>	Hairy catsear	Asteraceae	nox	rr
<i>Ilex aquifolium</i>	English holly	Aquifoliaceae	I	rr
<i>Impatiens capensis</i>	Jewelweed	Balsaminaceae	I	rip
<i>Juncus balticus</i>	Baltic rush	Juncaceae	N	hsm
<i>Juncus effusus</i> var. <i>pacificus</i>	Soft rush	Juncaceae	N	hsm
<i>Juncus effusus</i> var. <i>effusus</i>	Wire rush	Juncaceae	I	rr,pasture
<i>Juncus gerardii</i>	Mud rush	Juncaceae	I	hsm
<i>Lactuca muralis</i>	Wall lettuce	Asteraceae	I	rr
<i>Lapsana communis</i>	Nipplewort	Asteraceae	I	rr
<i>Lathyrus littoralis</i>	Gray beach pea	Fabaceae	N	rr
<i>Lolium perenne</i>	Perennial ryegrass	Poaceae	I	pasture
<i>Lonicera involucrata</i>	Black twinberry	Caprifoliaceae	N	rip
<i>Lotus corniculatus</i>	Bird's foot trefoil	Fabaceae	I	pasture
<i>Lupinus arboreus</i>	Tree lupine	Fabaceae	I	rr
<i>Malus fusca</i>	Pacific crabapple	Rosaceae	N	rr,rip
<i>Oemleria cerasiformis</i>	Indian plum	Rosaceae	N	rr
<i>Phalaris arundinacea</i>	Reed canary grass	Poaceae	nox	pasture,rip,filled sm,fw
<i>Phleum pratense</i>	Timothy	Poaceae	I	pasture
<i>Picea sitchensis</i>	Sitka spruce	Pinaceae	N	rr
<i>Plantago lanceolata</i>	English plantain	Plantaginaceae	I	rr
<i>Plantago maritima</i>	Salt marsh plantain	Plantaginaceae	N	hsm,ism
<i>Polystichum munitum</i>	Sword fern	Polypodiaceae	N	rr,rip
<i>Potentilla anserina</i>	Pacific silverweed	Rosaceae	N	hsm,rip,fw
<i>Prunus avium</i>	Mazzard	Rosaceae	I	rr
<i>Pseudotsuga menziesii</i>	Douglas fir	Pinaceae	N	rr
<i>Pteridium aquilinum</i>	Bracken	Polypodiaceae	N	rr
<i>Ranunculus acris</i>	Meadow buttercup	Ranunculaceae	I	rr,pasture
<i>Ranunculus repens</i>	Creeping buttercup	Ranunculaceae	I	rr,rip,pasture,filled sm,fw
<i>Rhamnus purshiana</i>	Cascara	Rhamnaceae	N	rr,rip
<i>Rhododendron macrophyllum</i>	Pacific rhododend	Ericaceae	N	rr
<i>Rosa nutkana</i>	Nootka rose	Rosaceae	N	rr,rip
<i>Rubus armeniacus</i>	Himalaya blackberry	Rosaceae	I	rr,rip,pasture
<i>Rubus laciniatus</i>	Evergreen blackberry	Rosaceae	I	rr,pasture
<i>Rubus parviflorus</i>	Thimbleberry	Rosaceae	N	rr,rip
<i>Rubus spectabilis</i>	Salmon berry	Rosaceae	N	rr,rip
<i>Rubus ursinus</i>	Dewberry	Rosaceae	N	rr,rip,
<i>Rumex crispus</i>	Sour dock	Polygonaceae	I	rr,pasture
<i>Salicornia virginica</i>	American glasswort	Chenopodiaceae	N	hsm,ism
<i>Salix lasiandra</i>	Pacific willow	Salicaceae	N	rip
<i>Salix scouleriana</i>	Scouler's willow	Salicaceae	N	rr,rip
<i>Sambucus racemosa</i>	Red elderberry	Caprifoliaceae	N	rr
<i>Scirpus acutus</i>	Hard-stem bulrush	Cyperaceae	N	salt water shoreline
<i>Scirpus maritimus</i>	Salt marsh bulrush	Cyperaceae	N	salt water shoreline
<i>Scirpus microcarpus</i>	Small-fruited bulrush	Cyperaceae	N	pasture,fw

Senecio jacobaea	Tansy ragwort	Asteraceae	nox	rr
Solanum dulcamera	Bittersweet nights	Solanaceae	l	rr,rip
Sorbus aucuparia	Rowan tree	Rosaceae	l	rr
Spiraea douglasii	Hardhack	Rosaceae	N	rr,rip,fw
Stellaria humifusa	Salt marsh starwo	Caryophyllaceae	N	lsm
Taraxacum officinale	Dandelion	Asteraceae	l	rr,pasture
Thuja plicata	Western redcedar	Cupressaceae	N	rr,rip
Trifolium arvensis	Rabbit's foot clove	Fabaceae	l	rr
Trifolium pratense	Red clover	Fabaceae	l	rr,pasture
Trifolium repens	White clover	Brassicaceae	l	rr
Triglochin maritima	Seaside arrowgra	Juncaginaceae	N	hsm,lsm
Tsuga heterophylla	Western hemlock	Pinaceae	N	rr,rip
Typha latifolia	Common cattail	Typhaceae	N	fw
Urtica dioica var. lyallii	Stinging nettle	Urticaceae	N	rr,rip
Vaccinium ovatum	Evergreen huckle	Ericaceae	N	rr
Vaccinium parvifolium	Red huckleberry	Ericaceae	N	rr
Verbascum thapsus	Common mullein	Scrophulariaceae	l	rr
Vicia sativa	Common vetch	Fabaceae	l	rr