

CDC FIELD SURVEY - Trial Island (2 trips)**Dates: April 23rd/1999 and June 6th/1999****Location: Trial Island (big island)****CDC Staff: M. Donovan & J. Penny**

On April 23rd, 1999 population counts for *Sanicula arctopoides*, site notes and position of polyon(s) were noted. These plants were at their peak with bright yellow flowers. In addition, *Sagina decumbens* ssp. *occidentalis* was also observed.

On June 6th, 1999, areas covered by *S. arctopoides* were verified. Plants were much less easy to see at this time. Population counts and site notes were also made for *Lotus formosissimus*, *L. unifoliolatus* var *unifoliolatus* (formerly *L. purshianus*), *Orthocarpus bracteosus*, and *Castilleja ambigua*, all flowering. New growth of *Anagallis minima* on east side of island, and fruiting plants on west side of island were also observed.

Both trips were facilitated by Marilyn Lambert, the first trip also by Doug Bifford, with ecological reserve wardens, Shane Ford and Matt Fairbarns.

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Trial Islands

Partial list of plant communities, species
compiled from notes of Dr. A. Ceska (1974,76,80)
Dr. J. Pojar (1977)

1. Xanthoria - Parmelia - Ochrolechia. Lichen community with occasional vascular plants on exposed shore rocks (entrophicated by organic debris, shells, sea spray).

Xanthoria elegans
Parmelia saxatilis & *taractica*
Ochrolechia sp.
Plantago maritima
Atriplex patula
Festuca rubra
Sagina crassicaulis

2. Sedum - Cladonia. Various similar communities on rocky ground, less exposed to sea spray than #1.

Sedum lanceolatum var. *nesioticum*
Sedum spathulifolium
Grindelia integrifolia
Rumex acetosella
Eriophyllum lanatum

- R4* *Polygonum paronychia*
Cladonia uncialis
Cladonia gracilis
Cladonia pacifica
Parmelia saxatilis

3. Elymus mollis - Lathyrus japonicus. Small gravel beaches and among driftwood

Elymus mollis
Lathyrus japonicus
Achillea millefolium
Grindelia integrifolia
Vicia gigantea
Galium aparine

4. Salicornia pacifica - Distichlis spicata. Salt marsh.

Salicornia pacifica
Distichlis spicata
Spergularia canadensis & *macrotheca*
Juncus balticus
Puccinellia nutkaensis
Plantago maritima
(*Carex lyngbyei*)
Atriplex patula

5. Plantago bigelovii - Plagiobotrys scouleri. Vernal pool communities (very variable).

- R4 ~~Plantago~~ *Plantago bigelovii*
- R4 *Plantago elongata*
- Plagiobotrys scouleri*
- R4 *Aira praecox*
- R3 *Myosurus minimus*
- Aphanes occidentalis*
- R2 *Limnanthes macconnii*
- R2 *Osoetes nuttallii*
- R4 *Agrostis microphylla*
- R2 *Anagallis minima*
- R1 *Orthocarpus bracteosus*
- R1 *Orthocarpus castillejoides*
- R4 *Orthocarpus pusillus*
- Arenaria sp.*
- R3 *Tillaea aquatica*
- R1 *Alopecurus carolinianus*

6. *Aira praecox - Festuca myurus - Camassia quamash.* "Vernal sward" on shallow soil over bedrock.

- Aira praecox*
- Aira caryophyllea*
- Festuca myurus & megalura*
- Camassia quamash*
- Bromus mollis*
- Festuca rubra*
- Armeria maritima*
- Rumex acetosella*
- Plectritis congesta*
- Collinsia parviflora*
- Lomatium utriculatum*
- Aphanes occidentalis*
- Allium acuminatum*
- Hypochaeris radicata & glabra*
- Lupinus bicolor*
- Montia perfoliata var. glauca*
- R2 *Montia dichotoma*
- Saxifraga integrifolia*
- R1 *Sanicula arctopoides*
- Brodiaea coronaria*
- Dodecatheon hendersonii*
- Orthocarpus pusillus*
- Orthocarpus castillejoides*
- Festuca pacifica*

7. Camassia quamash - Ranunculus occidentalis. Meadows on deeper soil, dry.

Camassia quamash
Ranunculus occidentalis
Cynosurus echinatus
Festuca rubra
Zygadenus venenosus
Fritillaria lanceolata
Dodecatheon pauciflorum
Plantago lanceolata
Plectritis congesta
Achillea millefolium
Luzula campestris
Festuca megalura
Bromus rigidus
Bromus sterilis
Allium cernuum
Trifolium tridentatum
Trifolium variegatum
Bromus mollis
Lomatium nudicaule
Lotus micranthus
R1 *Lotus formosissimus*
R3 *Habenaria greenei*
R? *Castilleja levisecta*
Taraxacum officinale
Orobanche uniflora
R3 *Orobanche grayana*
Cerastium arvense
Vicia sativa
Vicia hirsuta
Viola adunca
Sisyrinchium angustifolium
Brodiaea hyacinthina
R? *Danthonia californica*
Myosotis versicolor
Poa compressa
R2 *Aster curtus*
R2 *Sanicula bipinnatifida*

8. Tall forb vegetation, in various combinations with #7 (mostly on moister ground).

Juncus arcticus & *balticus*
 R? *Deschampsia holciformis*
Sidalcea hendersonii
Calamagrostis nutkatensis
Agrostis tenuis
Artemisia douglasiana
Trifolium wormskjoldii
Ranunculus repens
Ranunculus occidentalis & "californicus"
Camassia leichtlinii
 (*Heracleum lanatum*)
 (*Pteridium aquilinum*)
Aster sp.

9. (*Quercus* g., *Populus trem.*-) *Symphoricarpos* - *Rosa*. Very dense, wind-shaped thickets.

Quercus garryana
Populus tremuloides var. *vancouverensis*
Salix scouleriana
Salix hookeriana
Pyrus fusca
Symphoricarpos albus
Holodiscus discolor
Amelanchier alnifolia
Rosa nutkana & *pisocarpa*
Rubus ursinus
Pteridium aquilinum
Bromus carinatus
Elymus glaucus
Polystichum munitum
Dactylis glomerata
Erythronium oreganum
Galium aparine
Sanicula crassicaulis

Other species of various communities

- ~~Solidago canadensis~~
 Silene sp.
 Arctostaphylos uva-ursi
 Leontodon nudicaulis
 Gnaphalium purpureum
 R1 Lupinus densiflorus
 Prunella vulgaris
 Epilobium angustifolium
 Rumex occidentalis
 Carex obnupta
 R2 Poa confinis
 Veronica peregrina
 Stellaria media
 Apocynum androsaemifolium
 Fragaria chiloensis
 Mimulus guttatus
 R2 Lupinus littoralis
 R3 Calandrinia ciliata
 Trifolium dubium
 Oxytropis campestris (collection Dr. N. Turner)

* Rare and Endangered Species Committee (1978)

- R1 - Species occurring in B.C. in single or few populations
 R2 - Species occurring in several populations, locally common
 R3 - Widespread or scattered distribution, small populations
 R4 - Restricted distribution, large populations
 R? - Species rare, but its distribution is poorly known