ROSS LAKE ER #22

ORIGINAL PURPOSE To preserve an isolated population of ponderosa pines and other

vegetation in a location transitional between coastal and interior

climates

macos			
4 April 1971 3022 92 H/3	Location: Latitude: Longitude:	E side of the head of Ross Lake, 50 km SE of Hope 49°00'N 121°03'W	
61 ha 61 ha	Elevation:	525-760 m	
Access via Silver-Skagit Road from Hope, and 0.5 km hike from that road at Ross Lake. The reserve is within the Skagit Valley Recreation Area			
Interior Douglas-Fir (IDF) IDFww Wet Warm Hozameen Range Lower Mainland South Fraser			
	4 April 1971 3022 92 H/3 61 ha 61 ha 61 ha Access via Silverthat road at Ross Recreation Area Interior Douglas-IDFww Wet Warr Hozameen Range Lower Mainland	3022 92 H/3 Latitude: Longitude: 61 ha Elevation: 61 ha Access via Silver-Skagit Road from that road at Ross Lake. The reserve Recreation Area Interior Douglas-Fir (IDF) IDFww Wet Warm Hozameen Range Lower Mainland	

COMPOSITION

Physical:

The reserve is situated on the lower slopes of Mount Hozameen, Cascade Mountains, on the east side of the Skagit River valley. Adjacent peaks rise to about 2000 m. The reserve has a westerly aspect and average slope of 25 to 30%. Surficial materials are largely colluvial, and several areas of bedrock outcrop occur. Annual precipitation is intermediate between that of the coast and the interior due to a partial rain-shadow caused by the Skagit River which lies to the west.

Biological:

Of major interest here is the occurrence of ponderosa pine trees and associated dry-site plants in a semi-coastal environment. Southwestern exposure and rocky, well-drained soils, together with the reduced precipitation regime allow these species, which may be remnants of formerly more widespread dry forest in this area, to persist in a marginal environment. Ponderosa pine trees occupy a small central part of the reserve, and have an understory dominated by kinnikinnick and bluebunch wheatgrass. Douglas-fir forests cover most of the reserve, and associations having affinities with both coastal and interior zones have been noted. On dry sites a Douglas-fir-kinnikinnick-pinegrass association is present, while in mesic locations a Douglas-fir-Oregon-grape-moss association has developed. This contains typically coastal species such as vine maple, and interior ones like soopolallie. A typically coastal forest type, the western redcedar-devil's club-foamflower-moss association occurs in moist gullies and seepage areas. Coastal trees like bigleaf maple and grand fir occur sporadically in this forest community.

The Skagit Valley also has a diverse bird and mammal fauna containing both coastal and interior species.

MANAGEMENT CONCERN	NS			
SIGNIFICANT SPECIES	BC LIST STATUS	COSEWIC STATUS	CF PRIORITY	
silvery lupine lace fern	Red listed		1 4	
Propertius Duskywing steer's head	Blue listed Blue listed		2 2	
THREATS				
Climate Change:	The unique transitional climatic characteristics represented in this reserve may shift as a result of changed hydrology and temperature as is projected for the interior of B.C. Changed conditions may favour one forest system over another, resulting in reduced diversity of representation within the reserve boundaries. Changes in regular disturbance regimes may also contribute to shift in the forest's composition			
Forest health:	as parts of the eco	has effected the composition of the forest osystem require natural fire cycles. The nic forest fires has also been amplified due load build-up.		
RESEARCH OPPORTUNITIES		ecosystem may show sig thers. A good place for		

SCIENTIFIC NAMES OF SPECIES MENTIONED IN THE ROSS LAKE ER ACCOUNT

Flora

devil's club (*Oplopanax horridus*)

Douglas-fir (Pseudotsuga menziesii)

fir, grand (Abies grandis)

foamflower, three-leaved (*Tiarella trifoliate* var. *trifoliata*)

kinnikinnick (Arctostaphylos uva-ursi)

lupine, silvery (Lupinus argenteus var. laxiflorus)

maple, bigleaf (*Acer macrophyllum*)

maple, vine (Acer circinatum)

Oregon-grape, dull (Mahonia nervosa)

pine, ponderosa (*Pinus ponderosa*)

pinegrass (Calamagrostis rubescens)

redcedar, western (Thuja plicata)

soopolallie (Shepherdia canadensis)

steer's head (Dicentra uniflora)

wheatgrass, bluebunch (Pseudoroegneria spicata)

Fauna

Duskywing, Propertius (Erynnis propertius)