JRVIVORS OF THE PAST: WILL THEY AVE A FUTURE?

RARE NATIVE PLANT SPECIES OF THE COMMERCIAL FOREST

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start with I would like to thank the stry Department for giving me this ortunity to speak concerning rare ts. I would also like to compliment Department for all their efforts ugh inventory research to better with the commercial forest of Sashewan. Yours is a serious responty as guardians of the forest and I ire the program for forest fire control prevention, but as to clearcutting and culture there are some areas of con-

hoped that the birds and mammals need a mature forest habitat will survy moving into the remaining buffer around the lakes, and also into the left by the harvest rotations. Limitnem to smaller local habitats will not mean greater losses by the predate enemies. The well-being of every ies needs to be continuously tored with much caution and care.

Many of the plants of the forest thrive with disturbance and grow with profusion like never before in the open cuts and on bulldozed banks. Asters, goldenrods, wormwoods, Cut-leaved Ragwort, Tall Lungwort, Fringed Bindweed, Fireweed and Pea-vine, and some of the grasses and sedges burst forth like the glory of a botanical garden. (Introduced weeds from the farmlands also get established into the skidways, but they generally disappear as the area is reforested.) A lot of people welcome this profusion of growth for what was once mossy woods is providing food for the game.

The area of concern is the rare and delicate species that need cool moist woods to survive. There are 1700 to 1800 species of vascular plants in Saskatchewan. Of the native species 298 were listed as rare in the book "The rare vascular plants of Saskatchewan" (1979: Maher, Argus, Harms and Hudson). In the

last 10 years about 10 new species have been found. The rare native plants of Saskatchewan total well over 300, which is about 6% of our total plant species. Of these rare - 88 species grow in the commercial forest and about 33 of



ewa (Chimaphila umbellata) is found in Cypress Hills and tered locations in the forest.

G.J. Smith

March 1990



Recreation, snowshoeing at Boundary Bog in Prince Albert National Park

D.I 'kes

m depend upon a forest canopy for stence. The Cypress Hills are of special tanical interest for many Rocky Mounnapecies are found there. On the other not the eastern side of the commercial est has many eastern species that are reme outliers from their normal range. I main areas are Duck Mountain, Porpine and Pasquia Hills, with some cies even extending to the Cub and pawekka Hills.

When we discover a new plant species he province people ask questions like where did it come from? Did the birds y the seed? It is true that seeds are ad by wind, water and living creas, but in many cases when it comes to plants they were always there in that cial habitat as survivors of the past. y have come down to us through -glacial floods, great climatic chanand many ravaging forest fires that le them even more local and rare than while the hardier common species have adapted themselves to these nges have returned and replenished nselves again and again. A number of are species are already extirpated in e of the states of the U.S.A. With the hods of clearcutting and silviculture a slogan — "Forever Forests," I would to ask "how many of these rare plant ies will be here forever?"

me of the most delicate plants are the ids. Of the 21 species found in the son Bay area 10 are rare in Sassewan and 7 are protected in Canada deral law, requiring export permits. of these orchids disappear when rbance and clearcutting come to the mossy woods.

me might ask why we don't move plants out of the way of the logging try and establish them somewhere This could be done in some extreme by but whenever you move plants are no longer in a native condition hey become introductions. Let me ask "should all the elephants be in the zoos and none left in the jungles?" Again someone might say these rare species can survive in the parks. That is a good notion, but sad to say many of the rare species do not occur in the parks simply because the main object in choosing an area for a park has recreation and sports in the forefront.

As guardians of the forest I feel that we have a serious responsibility for the well-being of every species. Along with timber harvest it is of great benefit for the rare to survive and be protected where necessary. This is of great importance to the Forestry Department by showing the public that along with this all out harvest



Dragon-mouth Orchid or Swamp Pink (Arethusa bulbosa) Chris Adam

March 1990

we are protecting special areas of concern. These areas are also of great benefit in the field of tourism which continues year by year while you wait another 100 years for the next forest to grow up for reharvest. It will be very sad if we realize too late, after many species are extirpated, that we should have done something to save them. This would be something like the tourists that were in Japan recently, and while in a beautiful park they remarked about the lovely singing of the birds. They were told that it all came over the loudspeakers since the birds had disappeared years before.

I have guided several botany tours in the Hudson Bay area and have found the response overwhelming. In three days we would go from the Pitcher Plant bog at Greenbush, the Bainbridge Canyon in the Pasquia Hills, the Nitenai River Salt Marsh to the Rendek Elm Forest and the mossy, ferny woods of Brockelbank Hill, which is the highest point in the Porcupine Hills. These special spots are valuable and important.

I hereby appeal to the Forestry Department to make an amendment to the forestry act that will establish a rare plants protection policy; that environmental impact studies be done in special areas where rare species are endangered by clearcutting, and the most vital of these special areas be protected and set aside, so these rare understory species that depend on the forest canopy, can continue to exist in Saskatchewan.

Special rare plant areas in the commercial forest

CANDLE LAKE — 15 species of rare Saskatchewan plants including 2 subarctic species

AMISK LAKE — limestone cliffs with 26 species of rare Saskatchewan plants

CUMBERLAND DELTA — mostly unbotanized; large areas of sodium chloride

marshes. The only known Saskatche n locality for three ocean salt m h species.

PASQUIA HILLS — 36 species of e Saskatchewan plants. Many eas n species, as well as some sub-arctic d western species.

PORCUPINE HILLS — Brockell Ik Hill and north slope — 29 species of re Saskatchewan plants. This area con is the only Saskatchewan sites known 4 species of plants.

Macdowall Forest

PROPOSED MACDOWALL FOLT AND BOG NATURAL AREA — fores ad bog areas between C.N.R. tracks and c-Farlane Creek support 15 speciest provincially rare vascular plants.

Rare plants hot spots

It is recommended that the Forry Department work very closely with a botanist in these special areas. She local spots should be set asid a protected areas with no logging allo d. Others could be logged using speak care, and small equipment on more trees only.

It is interesting to note that the area oparks have been chosen mainly recreational purposes. It is sad to say a many of these rare plant species do occur in the parks.

This article is [with only very no modifications in organization] in presentation that was given to the Form Advisory Committee on 30 January 10 by the SNHS representative, Doll Hooper. The presentation also included escription of the habitat and status sample of 12 provincially rare species that occidente Brockelbank Hill area. Following the report that he gave to the SNHS of tors at their next meeting.