The Blue Jay Bookshelf

ENNING HABITS OF THE POLAR EAR (Ursus maritimus Phipps). C. Richard Harington. 1968. Canan Wildlife Service report series, 5. Queen's Printer, Ottawa. 50 ats.

This is not only a good factual port on denning, the result of idies in the Canadian Arctic by the thor between 1961 and 1964, but so a mine of further information in rard to polar bears; and finally, a nsible, objective, and moderate plear their preservation.

These interesting and romantic anials have been known to man for a
ng time, certainly for many years
fore the Romans wrote of them in
B.C. Many legends grew up in
orthern Europe and Asia in regard
their supposed ferocity, and probly to Stone Age Man they did apar pretty formidable. However, this
oklet shows the animals in a rather
ferent light.

Polar bears are the largest carnires which are truly circumpolar in stribution, and for this alone they e unique. The brown bear of Russia d its counterpart in our own north Vrsus arctos) hardly occupy such an broken chain, besides which they e terrestrial, whereas the polar ar may be found far from land, en on occasion denning in pack ice. therefore follows that the governents of not only Canada, but Greennd, Norway, Russia and the State Alaska are all concerned with the lar bear's survival, and to this end, eetings have been held between ese governments which are already elding fruit.

As early as 1939 Norway establed a polar bear sanctuary on ong Karls Land near Spitzbergen; lie this report tells us that the viet Union now affords complete otection for her polar bears. We e also told that the world populan is about 10,000, of which 6,000 e in Canada, which puts us very

much on the spot. In 1964 the world kill was 1,300 and the Canadian kill 600, so we appear to have taken a fairly modest quota. Actually, we do take polar bears on a quota system, and in the Northwest Territories only Indians and Eskimos (with a few exceptions) are permitted to hunt these animals.

Mr. Harington has presented a carefully planned and systematic account with maps, graphs, and some excellent explanatory drawings of densites. From these we learn that Banks Island, Simpson Peninsula and Southampton Island (all in the Northwest Territories) are among the most important denning and therefore cubbing areas for polar bears.

Mr. Harington mentions that most dens are to leeward of prevailing winds and tend to face south or southeast. In this respect they would seem to differ from what I know of black bears (Ursus americanus), for both sexes of this species seem to prefer a den-mouth to face north or, especially in heavy bush, northeast. Within their range winter thaws commonly occur, in which case the drifted-in den-mouth might well become frozen and too hard to break through. would seem that all bears on occasion take advantage of milder weather or the early spring strengthening of the sun to leave the den and sun themselves. In the case of polar bears then, they would have to go no farther than the "front porch."

There are fascinating notes on the movements of polar bears which are well worth following on the maps. It appears that many bears come south in fall on drift-ice. This bears out older writers, such as the master of the ship "Fox" when on the search for Franklin, as well as many others who met with bears far out to sea on floes and pack-ice. Certainly Mr. Harington mentions that at times polar bears have had no choice but to den in this maritime environment.

It would be a shame to quote to you any more from a book which is a gift at fifty cents and a six-cent stamp. But I must mention the excellent and beautiful photographs, which depict this great animal in such a way as to make us proud of harbouring their great number in our Northwest. The Department of Indian Affairs and Northern Development is to be congratulated on this publication.—*R. D. Symons*, Silton.

SAMSON'S LONG RIDE. By Kerry Wood. 1968. Collins, Don Mills, Ontario. \$3.50.

Samson's Long Ride, by the famous Alberta naturalist, Kerry Wood, is a well-bound book, beautifully illustrated in black and white, and suitable for a gift for the ten-year-olds to the teens. It is a stimulating tale of the daring and courage of ten year-old Samson Beaver, son of Joby Beaver, "The Trail Maker", chief of the Stony Indian band.

Samson, left early in September at the Indian residential school established at Morley by the Rev. John McDougal, was outwardly docile but inwardly grieving for the freedom of the open trail. He managed to remain for a month, then quietly slipped away on the back of his pony, taking only one loaf of bread tucked in his shirt, determined to find his family.

Samson knew only that his family had headed north into the mountains and that his father's "Big Horse" had a split hoof. Expecting to overtake his family in a day or two, he was a whole month alone on the trail, suffering the pangs of hunger, cold and the danger from wild animals. His endurance and ingenuity delight the reader.

The first interest of this tale is that it is a true story. In addition, it has the power by its picturesque language of taking one right into those vast mountains and making one feel the biting winds and fear of wild animals. The black-and-white line drawings by Audrey Teather are powerful and authentic. Perhaps a

map of the area would have added the authenticity, and a few footnot defining such words as "kinnikinick and "soapalallie" would increase t knowledge of the young natural for whom the book is intended.

One feels that this little tale coube lengthened to a full biograph. The postscript tantalizes us with glimpse of a very fine leader, and brave and noble gentleman, making us feel that we would like to known more of his life.—Dorothy Rhode Moose Jaw.

OF PREDATION AND LIFE. 1 Paul L. Errington. 1967. Iowa Sta University Press, Ames, Iowa. \$6.9 U.S.

Within his lifetime, the late I E. Errington developed his interes in natural history and the outdoo into a major contribution to o understanding of the relationships between predators and their prey. The his last book, summarizes some thir years of investigation into the interaction of predator and prey.

Dr. Errington devoted most of H research to the study of two pr species, the bobwhite quail and the muskrat, and their predators. In bo cases, predation is difficult to stud because several predator species a The list includes sever involved. kinds of raptors and mammalian ca nivores, differing greatly in behavior and the ease with which they can observed. Consequently, any dire measure of the numbers of prey kill by predators was impossible and i direct measures, such as the fr quency of prey remains in predat the abundance droppings and predators, had to be used. Despi these difficulties, it is impossible deny the importance of Dr. Errin ton's work. Few ecologists spend many years and so many field hou studying one ecological system as d Dr. Errington in the case of min predation on muskrats.

The work summarized in this both has formed the basis for much of the

rrent research into predator - prey Dr. Errington's most teractions. portant contribution has been, in v view, the discovery that some edators exist mainly on the surplus imbers of their prey and do not ually reduce prey numbers below ose levels that can be maintained by e food and cover of the environent. He stresses the importance of od and cover in maintaining healthy ey populations. When these ficient, predators can more easily I the weakened animals. Removal this surplus by the predators tually reduces competition among e remaining prey and increases the elihood of their survival. It remains be seen how widely this principle plies in the natural world but has rmed the basis of an enlightened edator in many places.

The author's approach to biology essentially descriptive rather an experimental. Admittedly, exriments under natural conditions e difficult when large, freely-moving imals are involved, but the purely scriptive approach has certain limitions. Whenever any natural change the environment occurs (an excepnally cold winter, for example), it difficult to record all resulting changes with accuracy. ological so, because such changes er large areas, usually no control pulation is available for comparae study. One wonders if certain nipulative experiments, such anging the population density of edator or prey or altering the bount of prey food or cover might t have provided convincing evidence rtaining to the regulation of prey mbers. As they stand, after thirty ars of descriptive work, Dr. Erringn's conclusions about the importce of predators in controlling the mbers of their prey are still intuie to some extent. Nevertheless, ey provide a solid base for future perimentation.

In content, the book is informative d a valuable addition to the library anyone interested in predation.

Unfortunately, only the first draft had been completed at the time of Dr. Errington's death. The book, edited posthumously, contains considerable repetition and lapses at time into scientific jargon. As a result, it is, in many places, too technical and tedious for a lay audience and not sufficiently precise for a scientific audience. The book contains no tables or graphs but a few simple bar or line graphs might have provided a illustration ofpopulation fluctuation than description alone. A selection of good photographs to supplement the drawings would also have made the book attractive to a wider audience. These criticisms may seem petty in the light of the tremendous scientific contribution of Dr. Errington but it is just these things that will, in my opinion, prevent the book from becoming widely read. unfortunate because of the importance of the subject to natural history, ecology, and conservation and wide experience of its author.

The book concludes with a plea for conservation of predators. Too many governments and individuals espouse the goal of complete predator eradication when, in fact, predators elements in maintaining vital some balance and stability in our increasing agrarian countryside. These same predators have the potential to prevent rodents and insects from reaching pest proportions. We should aim for reduction in predator numbers only when they interfere directly man. — Dr. D. H. Sheppard, with Regina.

NATURE'S WORLD

CBC-TV has a series of School Broadcasts every Monday from 10:00 to 10:30 a.m., March 1 to March 31. The third one (March 17) is about the Prairie Dogs at Val Marie where the Chandlers will host the Summer Meet this year. The fourth, on woodlands, was taken mostly in the Maurice G. Street Wildlife Sanctuary. The fifth, on the prairie, was made north of Swift Current and includes the sand dunes.