ESPECES MENACEES OU EN VOIE DE DISPARITION. VANISHING SPECIES.

THE GREAT INDIAN ONE-HORNED RHINOCEROS (Rhinoceros unicornis Linn.) IN ASSAM PROVINCE, INDIA.

BY.

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At the invitation of the Government of Assam, the Bomba, Natural History Society deputed a two-man commission consisting of Mr. Salim Ali, its Honorary Secretary, and Dr. S. Dillon Ripley of Yale University (U.S.A.) to report on some of the Wildlife same tuaries in that Province and make recommendations for their improvement both from the point of view of practical conservation and public education.

Particular interest attaches to the Assam sanctuaries since they are at the present time some of the very last refuges of the Great

One-horned Rhinoceros (Rhinoceros unicornis L.).

The following are some excerpts from the findings and recommendations of this Commission which bear on some of the questions to be discussed at the forthcoming UNSCCUR and UNESCO IUPN Conferences.

« The Kaziranga Game Sanctuary [ca 160 square unb-(410 sq. km) situated south of the Brahmaputra River in Sibsagar District] is primarily intended for the preservation of the Great One-horned Rhinoceros. The total number of individual animalnoted by us during our week of inspection was about twentyfour (24). We are prepared to concede that we may have missed 75 % of the total number that may possibly exist here, without any sort of proof, of course, whether this is so or not. We cannot help feeling, however, that the figure of « 500 to 600 » given to us as the estimated population in this sanctuary is greatly in excess of actuality and apt to lead to unwarranted complacency as regardthe position of the species. »

« ... we feel it essential that a proper census be made without delay, preferably enumerating males, females and young separately

This should be followed up by periodical counts, at least once every year, since without reliable statistical and up-to-the-moment data it is impossible to gauge the vicissitudes of the rhino populanon or the efficacy of any measures adopted for their preservation. »

- " In connection with the work of practical conservation and public education, we could recommend the penning off, by ditch or palissade, of a two- or three-acre (0.8 or 1.2 hectares) plot of typical rhino country within the sanctuary (containing suitable wallows, etc.) in which a pair or two of the animals could be kept under close observation in conditions as nearly natural as possible. for a detailed study to be made of their life history and ecology.
- " It may be mentioned that extremely meagre scientific data are currently available on points of basic importance for determining the practical measures necessary for the preservation of the species. For example, we do not know precisely how long the rhino takes to attain maturity, to what age it lives, at what age it begins to breed, what is the period of gestation or between one calf and the next, sex ratios and sex relations, social behaviour, to what enemies or diseases it is particularly susceptible, the causes of fluctuation in its numbers, seasonal movements and migrations, straying, and so on... It should be possible to collect most of the relevant data by an intensive study of the animals in their wild state supplemented and checked by information obtained under such controlled conditions. »
- " One of the problems of primary importance in the practical conservation of the rhinoceros in the Kaziranga Sanctuary is in connection with the grazing of village cattle which is now permitted within the northern and southern boundaries of the area. We are emphatic that it is absolutely imperative to stop this grazing completely and without delay. It is realized that steps in this direction are bound to meet with considerable opposition from a section of the people. However, if it is the serious intention of tiovernment to safeguard the continued existence of this fastvanishing species (so ruthlessly persecuted in the past for its commercial possibilities) no half measures will work, and Government must be prepared to face a certain amount of ephemeral unpopularity. Such unpopularity will be more than counterbalanced by the gratitude they will earn from posterity, and by the general approbation and moral support they will receive not only from all right-thinking people in this country but from international scientific bodies such as Unesco who are watching the position with keen interest and deep concern.
- " That anthrax and similar diseases are readily contracted by wild animals from infected village cattle with wholesale tragic results is only too well known. Thus, domestic cattle were undoubtedly responsible for the anthrax epidemic of 1947 which

destroyed an ascertained total of fourteen rhinoceros in Kazirarri Sanctuary and probably accounted for many more whose carrained undetected.

» Our maximum estimate of the One-horned Rhinoceros (Assam is two hundred (200). Our minimum estimate is filly three (53), as follows: Kaziranga Sanctuary twenty-four (24), Martis Sanctuary (North Kamrup District) two (2), Sonairupai Sanctuary (Darrang District) one (1), Orang Sanctuary (Darrang District) eight (8), Laokow forest (Nowgong District) eighteen (18).

A complete ecological survey of the status of the rhinoceres of Assam should be undertaken. The present estimates of the nurve of these animals in the Province range from two hundred of these animals in the Province range from two hundred of the our maximum — to five hundred-one thousand (500-1) — others' maximum. Even if there are actually as many mathematical (200) of these animals left, this figure is more than the combined total from all other known habitats at present, nation Nepal (estimated) fifty (50), Bengal (estimated) twenty-five from Cooch Behar (estimated) twenty (20): total ninety-five (05).

» Thus the inescapable responsibility of preserving the spectrum extinction falls upon Assam. »

« The Annual Report of the working of the Wildlife Division of the Assam Forest Department should be forwarded through a proper channels to the Government of India in New Delhi with request that it be passed on to the International Committee Wildlife Protection (now connected with Unesco) for circulative other nations. »

NOTES ON BIRDS THREATENED WITH EXTINCTION.

BY

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Africa. — Dr. Chapin believes that some of the game to such as the bustards and guinea hens, should receive the total of a closed season in all parts of Africa where there are appurenumbers of white hunters. At least one species of guines (Agelastes meleagrides) of Liberia has not been recorded in a syears.

India. -- Several species of Indian bustards require belter, tection. For example, the Great Indian Bustard (Choriotis ray) is one of them. The peculiar Pink-headed Duck (Rhadans) another very rare species that deserves study and protection.

Australia. — Several Australian parrots are on the verge of winction. Among the rarest are the Beautiful Parakeet (Psephotus and the Ground Parakeet (Pezoporus wallicus).

Oceania. — The kagou (Rhinochetus jubatus) of New Caledonia was very unusual bird in great need of further protection, as pointed by Dr. Dwain Warner in a recent issue of THE AUK. In the Marianas Islands the native mallard (Anas oustaleti) is also threating with extinction. In the Hawaiian Islands the same is true of the native Hawaiian goose (Nesochen) and the Hawaiian duck (Anas aprilliana).

Judging from Oliver Austin's recent papers, the Short-tailed

Worth and South America. — The species threatened with extinction in North America have already received considerable publicity, who whooping Crane. In South America the Brazilian merganser Mergus octosetaceus) has always been rare, though its exact status cancertain.

THREATENED AND VANISHING SPECIES OF FLORA AND FAUNA IN INDONESIA,

13.7

Ir. F. J. APPELMAN, Rotterdam (Netherlands).

SUMMARY.

Mr. Appelman points out that the extinction of plants and causals is generally caused by the following factors:

Wanishing of their biotopes as a result of the ever-increasing

b) The trade in living wild plants, wild animals, their skins, borns, and aphrodisiacs prepared from them;

Unbridled hunting, for lack of adequate hunting regulations through not — or improperly — putting those measures into the second control of the second con

These factors occur in Indonesia partly as a result of the table political situation, but this is no reflection on tropical ties, since in « inadequately governed European countries the tiem is, or would be, the same ».

though it is very difficult to determine which species are most med in the Malayan Archipelago, the author lists and