GRAI INDIA! RHINO

a struggle for survival By Richard Waller



There are five species of rhinoceros still in existence-all five are at present well exhibited in the entrance hall of the British Museum (Natural History). Two of these are found in Africa and three in Asia; of the three in Asia only the Indian one-horned rhinoceros holds out any real hope of being preserved for future generations. The other two are the Javan one-horned and the Sumatran two-horned, both of which are down to 20 to 50 individuals at the most.

The present status of the Indian rhinoceros is also that of an endangered earlie species, and is entered as such in the Red nots Book of IUCN. We estimate its numbers at lestin about 630 in all, and those are concentrated in a limited area along the slaug base of the Himalayan foothills from the the Nepalese terai in the west through the was north of West Bengal into Assam in the press east.

The situation in Nepal is depressing. In Reser 1964 the estimate was 185 (E.P. for t Gee-Wildlife of India); in 1966 it was 100 first or less (J. Spillet-Bombay Natural from History Society Journal, Vol.63.3); but it Ka was doubtful if even 70 remained when I the S was last in Nepal in July 1970. I was not rhino able myself to visit this area from peop Katmandu due to the heavy monsoon, but prote the UN Wildlife Management Adviser, the p John Blower, who made the estimate, was the in the Chitawan Rhino Sanctuary in May, follow

Some 50,000 to 80,000 villagers live, P.D. cultivate, and graze many thousands of vator cattle within the sanctuary whose rhino R.C. habitat has now been virtually destroyed, Fu with the exception of the 150 acres around rehab 'Tiger Tops' which has been leased to the 1964 company for 15 years by the Government and V of Nepal and which they protect carefully now so that their foreign clients may see rhino. 1400 a

However, events have been moving about hopefully there during the first few West months of 1971. The Government with and a the full backing of the King, has allocated In funds for the demarcation of the Chitawan India. Rhino Sanctuary in the terai where, in the then last few years, as stated above, thousands horn of cattle and domestic buffalo have been reserv destroying the high grass habitat of the reserv rhino. Villages will be moved, where respec necessary, and alternative grazing will be remain found for the cattle and domestic buffalo. well-p This is an excellent step, thanks to the 1966: interest of the King of Nepal and the 80, 1 persistence of John Blower, UN Wildlife Kazira Adviser-and if continued with zeal, becau should ensure the existence of the rhino 1966. and the steady build-up of its numbers as slightl its favourite habitat is gradually restored in see cl ation the Chitawan Sanctuary. 15 ls abso

In India, where this species of rhino

Two Indian rhinos in Kaziranga, Assa

say

eros still ent well e British of these a; of the -horned ne most.

now confined to Assam and the north of west Bengal, its history over the last 65 vears, in spite of various set-backs, is a riumph of wildlife conservation and efficient protection, especially in the famous Kaziranga Sanctuary in Assam. being he other and the hich are ne most Early moves were made in the days of the Indian elephant. Reading the records of the angered earliest Kaziranga Reserve, her failure is the Red mbers at lose are los areas ong the slaughtered nearly all of them. Luckily for rom the the world the Chief Commissioner's wife ugh the was a forceful lady and brought such n in the pressure to bear on her husband that he ordered the formation of the Kaziranga ssing. In Reserve in 1907 and, with a fine disregard (E.P. for the tea planters of his day, made the was 100 first step in saving this species of rhino Natural from extinction.

3); but it Kaziranga went through bad times after when I the Second World War when poaching for was not rhino horn was at its height and the very ea from people who were supposed to be oon, but protecting the rhino were in league with Adviser, the poachers and shared their profits. In nate, was the early fifties there was a clean-up, in May. followed by the excellent partnership of gers live, P.D. Stracey at the top as Chief Consersands of vator, E.P. Gee at hand to advise, and se rhino R.C. Das running the sanctuary.

estroyed, Further success has continued in the s around rehabilitation of the rhino since E.P. Gee in ed to the 1964 estimated 440 in India (Assam 375) ernment and West Bengal 65). The figure for India is carefully now about 560, of which Kaziranga has e rhino. 1400 and probably more, Manas 40, with moving about 40 in other small reserves; while irst few West Bengal has 80, mainly in Jaldapara ent with and a few in Gorumara.

In 1966, Spillett estimated 580 for Chitawan India. The drop in the total figure since re, in the then is due to heavy poaching for rhino nousands horn in the small, poorly protected ave been reserves in Assam as well as outside these of the reserves, for which he estimated 70 and 40 where respectively; of these rhino very few g will be remain. On the other hand, numbers in the buffalo. well-protected sanctuaries have risen since to the 1966: Jaldapara and Gorumara from 50 to and the 80, Manas from 15 to 40, while the Wildlife Kaziranga figure remains at 400 only th zeal, because a census has not been done since the rhino 1966. I believe the present number to be mbers as slightly higher. From these figures we can estored in see clearly the effect of good administlation and protection and vice versa. There f rhino is absolutely no alternative, when it comes o saving a species, but the right men determined to do a good job.

Kaziranga Sanctuary in Assam is undoubtedly the best place for viewing this species of rhino, with Jaldapara in West Bengal a good second. In view of the importance of Kaziranga both from the rhino point of view and from good tourist facilities for viewing it and other animals, I think it is worth while giving a description of the sanctuary and some of my experiences there last year.

Its area is 166 square miles, less about 15 square miles lost by erosion along the Brahmaputra river since 1950. The habitat is essentially riverine on the Brahmaputra flood plain, and it consists of four main types:

Open grassland or maidan with high grass, already partly flooded in the second half of May by early pre-monsoon rain. This is the main area for swamp and hog

Tall grass and reeds (Arundo donax and Phragmites sp.) over 10 feet high. These border the following:

The many small lakes or 'bils' (the 'jheel' of the Punjab) with interconnecting streams.

Islands, usually just above flood level, covered with fairly open semi-evergreen forest (Bombax, Albizzia and Lagerstroemia species are dominant). Annual rainfall is 80 inches.

Just as the first area, when dry or not too deeply flooded, is the favourite habitat of swamp and hog deer, with sambar largely confined to the forested islands; so the second and third areas are the ones in which rhino and wild buffalo are certain to be seen. Part of the grassland area is burnt each year in January and February and the quickly growing new shoots attract the herbivores. The annual flooding is destructive in its erosion of the northern boundary, but beneficial in so far as it appears to be the only check on the insidious water hyacinth (Eichhornia crassipes) which covers parts of the lakes and water courses. The flood waters also irrigate the maidans and re-stock the lakes with fish for the numerous otters and water birds.

These estimated figures of species and numbers were given me, based on a census done on the block system in March 1966: Rhino 400 Wild buffalo 550

Elephant 375 Gaur Swamp deer 250 Sambar 300

Hog deer 4,000-5,000 Barking deer 100 Wild pig 500-600

Bear (sloth & Himalayan black) Tiger 20-25 Leopard Otter 200-300

This well known sanctuary is rightly famous for its rhino and wild buffalo (Bubalus bubalis). The populations of both species appear to be in a healthy state with a good ratio of females to young. Considering the area of Kaziranga and the difficulty of any enlargement southwards into the Mikir Hills, it is quite possible that the present figures for these two species represent the maximum that can be carried, and they should not be allowed to increase further. A careful study is needed.

There is, of course, the ever present danger of poaching for the rhinos' horn, and killings do still occur as the poachers are professionals. They come in by night, lie up again till nightfall, and then escape sometimes kill in a previously prepared pit, lie up again till night fall, and then escape with their spoil. More regular patrols, in small groups and armed since the poachers will fight, and equipped with two-way radio sets, could almost eliminate rhino poaching. The present Divisional Officer, who has a real love and knowledge of the sanctuary, takes the poaching hazard very seriously and is personally acquainted with the eight most dangerous men. He has his own methods of obtaining information

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Young rhino and adults photographed in Kaziranga by Peter Jackson.

and is doing a first class job.

He and I, often accompanied by his wife who is equally keen on wildlife, spent every evening of my four days there at a certain bridge over a water course in the Kaziranga block about 21/2 miles into the sanctuary. From here, just before and after sunset, the wealth of this sanctuary's wildlife could be fully realised. There were never less than five rhino, either partly submerged in water or grazing on the banks, within 60 yards of us, and one evening there were eight. To one side and beyond the tall reeds, where the swamp partridges (Francolinus gularis) were calling, stretched the open grasslands where swamp deer stags were grazing in the late sunlight and numerous hog deer just discernible in the swaying grass.

The whistle of an otter then drew our attention to the water below and there was a pair swimming past, their heads above the water. One of them, nearing the bank, stood on his hind legs and looked at us

before they both dived off at speed leaving lines of bubbles on the surface. On the silk-cotton tree above us were two pelicans and five open-bill storks, and in the reed bed below, two purple herons, a large egret, and a black bittern (Dupetor flavicollis), while a few minutes later a chestnut bittern (Ixobrychus cinnamoneus) flew in, his rich cinnamon colour as if lit from inside in the last rays of the sunset. Before the sun finally left us that evening the head of a swimming body was seen moving across a stretch of open water only about 50 yards away. His wife said 'pani kutta' (otter), but then as we all looked more carefully the creature swam into sunlit water and we could almost see the separate scales on the head of the fine monitor lizard.

Another evening in a nearby bil I watched three rhinos apparently cropping the underwater grass, recently flooded. All three were below the surface, showing only the horn and two ears clearly. Every

minute or so one or other of the rhino would submerge completely, disappearing from view for about 10 seconds, and then re-surface with bits of mud and grass dropping from its lips. They must have been just in their depth most of the time, at nearly 6 feet of water, but now and again one of them would clearly swim in order to take up a fresh position on the bottom of the bil.

It is unwise to walk much in highly populated rhino country unless one has a following domestic elephant. The rhinos are not aggressive unless with calf, only curious to explore a certain smell or noise Such a human smell must have agitated the two that came snorting and crashing towards me through the tall grass one afternoon. Luckily I heard them sufficiently far off to be able to reach a convenient tree which I went up like a monkey. They then came up to the tree and one even appeared to look upwards to my precarious position on a low branch: afterwards, wheeling off, they made a circle through the reeds returning with snorts to the same tree. This was repeated yet again and made me so nervous I couldn't hold my camera still! Presumably they got my scent again each time they withdrew and this stimulated another sally. So, on the third circle when they reached the farthest point, I came down and ran the fastest half mile of my life to a waiting jeep.

There is much evidence of animals feeling a sense of security in a sanctuary. Recently an old bull rhino, sensing his end, came deliberately near a guard post on the edge of the park. The guards even fed and watered him for three days where he lay before he died.

Kaziranga has a great future and, by reason of its habitat and species, can combine most happily wildlife orientation and development with tourist attractions. Animals can be seen easily and comfortably in their natural surroundings, and although the sanctuary itself is flat, the backdrop of the snow-covered peaks of the Himalayas in the cold season gives a fabulous setting.

I hope to have given some idea of this magnificent sanctuary whose staff is doing such a fine job in protecting the great Indian one-horned rhinoceros. They look after their tourists equally well and I strongly recommend a visit for anyone who can get to India.

of India's wildlife sanctuaries and endangered species in 1970 with the aid of a grant from WWF. He contributed an article on the tiger to our August issue.

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