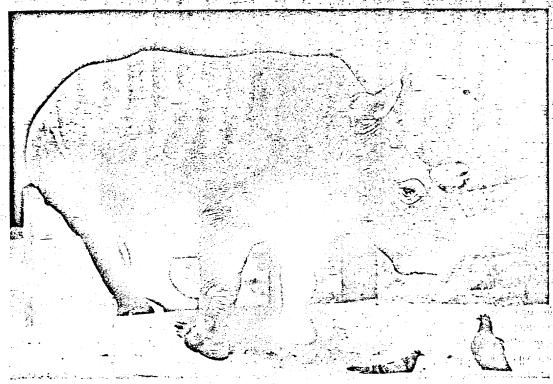
RHINOCEROSES

ANIMAL LEAFLET No. 9.
by MICHAEL BOORER



W. G. Vanderson, Fox Photos

RHINOCEROSES are odd-toed ungulates, having three toes on each foot, and are therefore related to the tapirs and to the horses and asses. The odd-toed ungulates are an older group than the more numerous even-toed ungulates, and were decreasing in numbers long before man arrived to speed up the process. Once there was a great variety of rhinoceroses including long-legged, running types, and Baluchitherium which stood 18 feet tall (twice as high as an elephant) and was the largest of all land mammals. Today there remain only five species of rhino, and of these four are rare and the other is declining.

Rhinos are heavily built animals and need thick, short legs in order to support their weight. Actual weights of individual animals seem hardly ever to have been recorded, but it is possible that the two largest species, the White and Indian Rhinoceroses may sometimes reach three tons. These animals are certainly among the largest living land mammals, only the two species of elephants being heavier. The compact shape of a rhino's body enables it to crash through the bush in which

White Rhinos, never kept in captivity twenty years ago, are now to be seen at both London Zoo and Whipsnade Park.

these animals are often found, while the skin forms an admirable protection against thorns.

In some ways this skin may be compared to armour plating, as it is up to an inch thick, and as tough as thick leather. All the surviving rhinos come from the tropics, and as large bodies hold heat much better than small ones they have little need of hair. Accordingly, they are usually covered only with sparse bristles.

ONE AND TWO HORNS

Perhaps the best known of all the rhino's features are the horns. These are made from the same material as hair or human fingernails and unlike the horns of cattle or the antiers of deer are not joined to their owner's skull, but grow from the skin. Indian and Javan Rhinoceroses each have only a single horn, but other species have two, the front horn usually being the longer. The horn grows throughout the rhino's life, but is usually prevented from becoming too long by wear as its



of these rarely measures more than a foot. The skin has few folds, and bears more hair than in any other rhino, although the colour and quantity of this hair seems to vary with age, and with the area from which the animals come. Sumatran Rhinoceroses once had a range similar to Javan Rhinos, except that the

W. G. Vanderson, Fox photos Whipsnade shares with Basle Zoo a distinction on having bred the rare Indian Rhinoceros.

smaller species was not found in Java. Where the range of these two species overlapped the Sumatran Rhino was found on higher ground, preferring the thickets on steep hillsides.

case of zoo animals, against the bars of the cage. The longest horn ever recorded belonged a female Black Rhinoceros and was over 4 feet 6 inches long. This exceptional horn was too long for the normal stresses and strains of rhino life, and its owner, who lived at a National Park at Amboseli in Kenya, later broke off the first tip and then the whole horn. The horns are used by some species in the ponderous scuffles that accompany courtship but are also used, more peacefully, to dig drinking holes in dry river beds, to dig for the salt which rhinos love, and in the case of the White Rhinoceros, to steer the young one as it runs in front of its mother. Fully grown rhinos have few enemies other.

than man, who over the last few hundred

years has hunted them with ever-increasing

efficiency, using spears, poisoned arrows, pit-

falls, wire snares, and, most recently, guns.

Rhinos are occasionally hunted for meat,

more often for sport, and most of all in order

to obtain products, of which the horn is most

highly prized, which are thought to have

medicinal value in the Far East. As rhinos breed only slowly this incessant hunting has reduced them greatly in numbers. Today it is realised that all rhinos are in danger of extinction, and steps are being taken to conserve those that remain. Some reserves within which rhinos can live peacefully have already been set up, and some of the most exciting work in animal conservation at the present time is going on in Africa, where rhinos are being moved from unprotected areas into the safety of game reserves. However, a great deal of poaching is still going on, and even the reserves are not entirely safe when hungry local people covet them as farmland. Rhinos will only survive as a result of much more human effort, and still more human restraint. THE INDIAN RHINOCEROS The Indian Rhinoceros (Rhinoceros unicornis) is found today only in Assam, where the Kaziranga Sanctuary is a notable example of

a successful rhino reserve, in Bengal, and in Nepal. Fully grown specimens measure 5½ feet tall at the shoulder, this being one of the two largest species of rhino. Indian Rhinoceroses have only a single horn, and seem to make · little use of this weapon when they fight, preferring to slash at the flanks of their adversary with their sharp, tusk-like canine teeth. Usually they live on their own, collecting into groups only during courtship battles, or when there is

an abundance of fresh new vegetation within a

small area.

loin, and on the legs, and these fold the animal to move freely despite th ness of the skin, which is cover characteristic low bumps. Ticks on are removed by a bird, the Jungle which settles on the rhino's back in perform this service. It is remarkable the of other species have evolved the sam relationship with the African rhinoce The first rhino ever to be exhibite

folds at the neck, behind the shoulde

London Zoo, in May 1834, belonge Indian species, and since that time t almost always been at least one animals in the Zoological Society's co In 1947 a male was purchased from N

in 1952 he was joined in his large pac Whipsnade Park by a female from t source. Up to that time the Indian Rh had never bred in captivity, but in 1957 a female calf was born to the Wh pair. At about the same time a male

born in Basle Zoo, and later these tw animals were sent to an American another potential breeding pair. Mode are anxious to play their part in anir servation by breeding rare animals v

possible. At the present time the Wh

female Indian Rhino can still be see

paddock, now accompanied by her

youngster, still only the fourth of his

be born in a zoo. THE JAVAN RHINOCEROS

The Javan Rhinoceros (Rhinoceros so also has only one horn, and looks smaller version of the Indian spec

smoother skin, but with an addition

over the top of the shoulder. At one had the widest range of all the Asiation being found from Eastern India to Sumatra and Java, usually in thick, lo forests, which were often honeycon paths regularly used by these anima wallowing-places at regular intervals.

Today these paths are overgrown, Javan Rhinoceros has become one world's rarest large mammals. A fev

survive in the Udjung Kulon Game re Java, but on the mainland only a few individuals may survive in the most parts of Malaya, Burma, Siam and Vi

THE SUMATRAN RHINOCEROS The Sumatran Rhinoceros (Dider sumatrensis) is the smallest living measuring little more than four fee shoulder. There are two horns, but th

According to recent reports only about 150

| Same thousands of Black Rhings will survive survives with a survive surv

According to recent reports only about 150 Sumatran Rhinos still survive, and these are scattered from Sumatra, through Malaya to Northern Burma. These animals are great wanderers, and this makes it exceedingly difficult to set up successful sanctuaries for them. The last member of this species to live in London Zoo, one of the Hairy-eared variety, died in 1910, and it seems unlikely that there will ever be another.

THE BLACK RHINOCEROS

The Black Rhinoceros (Diceros bicornis) is grey-brown in colour, as is the other African species, which is known most confusingly as the White Rhinoceros. The origin of this colour mix-up is not at all clear; possibly the specimens described had been wallowing in dark and light-coloured mud respectively. At all events the two species are most easily distinguished by their lips, size, and shape. The Black Rhino, being a browser, has a pointed upper lip, and is a little smaller, while the White Rhino grazes and therefore has square lips, is larger, and has rather a peculiar hump on its shoulder when seen from the side.

Black Rhinos are found over a wide range puls in Africa, usually in bush country. Like the Asiatic species, they are usually solitary, but they are sometimes seen in small groups, often accompanied by the tick birds which not only remove parasites from the rhinos' skins, but also give warning of possible danger with their cries of alarm. Black Rhinos are more numerous than any of their relatives, especi-

Some thousands of Black Rhinos still survive, this species is declining under human pressure; ally in East Africa, where several thou

still exist. 1999 of the WHITE RHINOCEROS THE WHITE RHINOCEROS Not until after the last war was a speci

the White Rhinoceros (Diceros simus) in any zoo in the world. Since then a rof pairs have been distributed to zoos hope, as yet unrealised, that they will At the present time one pair of White are to be seen at London Zoo, whe have lived since 1955, while another, y pair, have been on show at Whipsnad 1962.

Two slightly different types of White

exist. One population, formerly wide south of the Zambesi River, is now represent to some hundreds of animals in and numfolozi Reserve in Natal, South Recently animals from this reserve has introduced into other areas in the hothey will thrive there. Another population to the north in Uganda west Nile, Eastern Congo, and Southern Animals of this type too have been medicated as the south of th

areas of greater safety in some cases.

White Rhinos are even tempered, an often found living in small groups th other species of rhino. They prefer couwhich grass is interspersed with mu wallowing) and thicker cover to give professive heat or said.

from excessive heat or cold.