Trade in African Rhino Horn

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Between 1969 and 1976 the price of rhino horn in Kenya rose 446 per cent — from K£8.24 per kilogram to K£44.6. Between 1972 and 1976 the average amount exported each year represented the product of 1197 rhinos. Most of it went to Hong Kong, but demand was rising in southern Arabia, especially North Yemen. In March 1979 rhino horn imports were totally banned in Hong Kong, but the authors believe that the price in North Yemen will continue to rise, and with it the demand for rhino horn.

Over the past ten years we have been collecting data on the international trade in rhino horn originating in East Africa. These are of some interest in view of the current concern about the black rhino *Diceros bicornis* (see page 131), on whose status in the wild there is little published data.

Methods and Results

Information on the quantities and value of rhino horn exports was collected from the Annual Reports of the Game Department of the then Uganda Protectorate (1936-1948), the Blue Books for Uganda, Tanganyika and Kenya (1926-1948), and the former East African Customs and Excise Department's Annual Reports for the three East African countries (1949-1976). In addition, we have obtained data on rhino-horn imports to the North Yemen from the Annual Reports of the Central Bank of Yemen from 1971 to 1977.

Our results are presented in the three tables and two graphs. Tables 1 and 2 show the total East African rhino-horn exports, in quantities and value from 1926 to 1976. The two graphs show the export trends. Table 3 shows the quantities and value of rhino horn arriving in North Yemen. For reasons of space, a table showing to which countries the horn was exported, together with quantities and value, is summarised at the end of this article and can be had on application to the FPS office or the authors.

Discussion

The data indicate that there were few rhinos in Uganda in the period covered. From personal recollections of one of us (ISCP) much of the rhino horn attributed to Uganda originated from white rhino *Ceratotherium simum* in the southern Sudan or north-eastern Zaire and was seized in illicit transit through Uganda or Kenya.

The Kenya and Tanzania data are similar between 1926 and 1958, both in amounts and patterns. Both show depressions during the 1939-45 war years and major peaks in 1946, the obvious explanation being that stocks accumulated during the war when exports were difficult and were released in a flood when communications were restored. After 1958 the Tanzania data suggest progressive declines, whereas the Kenya figures denote an increase. We do not know of any official explanation of the eight tons exported from Kenya in 1972 — some 695 per cent above the previous ten-year average — although in part it

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Table 1 East African Domestic Rhino Horn Exports in Kg, 1926 - 1976

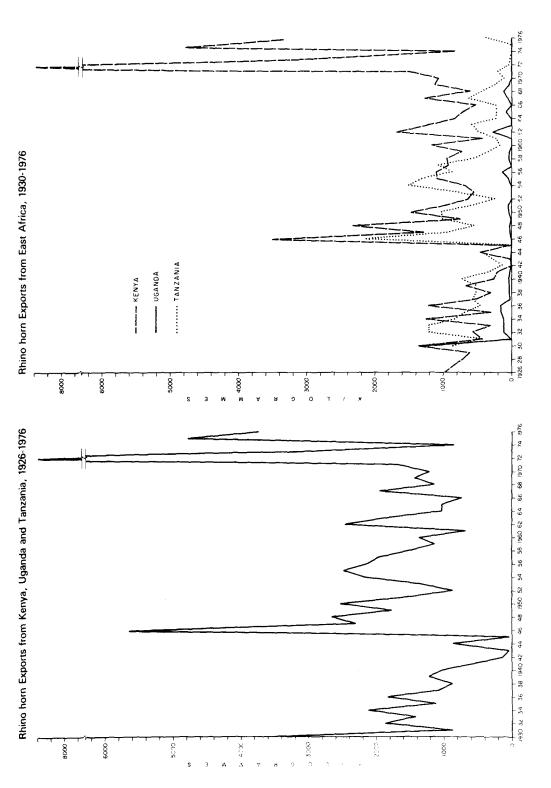
				77
Year	Kenya	Uganda	Tanzania*	Total
1926	965			
7	864			
8	711		1.021	
9	610	1 201	1,931	1.555
1930	1,372	1,321	864	3,557
1	406	-	457	863
2	559	102	1,219	1,880
3	305	_	1,118	1,423
4	1,219	102	813	2,134
1935	305	153	660	1,118
6	1,219	153	457	1,829
7	508	24	559	1,091
8	305	48	508	861
9	660	38	508	1,206
1940	250	56	711	1,017
1	203	20	356	579
2	0	7	152	159
3	0	33	0	33
4	457	21	406	884
1945	0	41	0	41
6	3,506	11	2,134	5,651
7	1,307	17	965	2,289
8	2,319	23	508	2,850
9	762	_	1,016	1,778
1950	1,473	51	1,016	2,540
1	965	51	559	1,575
2	610	-	254	864
3	559	-	813	1,372
4	660	_	1,524	2,184
1955	1,089	45	1,361	2,495
6	1,134	136	862	2,132
7	907	_	1,089	1,996
8	953	45	544	1,542
9	726	45	363	1,134
1960	1,179	_	181	1,360
1	408	0	272	680
2	1,678	272	499	2,449
3	1,225	_	590	1,815
4	814	0	218	1,032
1965	726	94	203	1,023
6	508	5	221	734
7	1,280	60	615	1,955
8	601	125	403	1,129
9	1,133	27	285	1,445
1970	1,093	12	105	1,210
1	1,472	13	199	1,684
2	8,371	0	18	8,389
3	3,182	18	12	3,212
4	838	0	0	838
1975	4,783	0	0	4,783
6	3,339	0	386	3,725

^{*} Before 1964 Tanganyika only

Table 2 East African Domestic Rhino Horn

Year	Kenya	Uganda	Tanzania*	Total
1926	2,323			
7	3,371			
8 9	2,956		. 0.55	
	2,854	1.610	6,957	
1930	1,725	1,619	1,372	4,716
1	531	30	578	1,139
2	937	164	2,261	3,362
3	676	98	1,829	2,603
4	1,534	97	1,018	2,649
1935	551	232	750	1,533
6	1,876	249	657	2,782
7	932		1,012	
8	644		894	
9	1,195		960	
1940	448	88	1,320	1,856
1	502	50	767	1,319
2	15	12	190	217
3	0	52	0	52
4	747	30	511	1,288
1945	0	87	0	87
6	284(?)	51	5,950	
7	2,680	37	2,681	5,398
8	4,926	52	996	5,974
9	1,355	9	2,440	3,804
1950	4,630	226	3,207	8,063
1	4,898	304	2,554	7,756
2	3,697	65	2,141	5,903
3	4,651	146	5,393	10,190
4	4,898	243	7,722	12,863
1955	7,002	440	12,434	19,876
6	7,844	1,204	7,335	16,383
7	7,513	47	8,177	15,737
8	9,974	315	6,884	17,173
9	7,417	406	3,852	11,675
1960	12,398	171	3,053	15,622
1	3,729	0	2,109	5,838
2	12,610	1,783	3,224	17,617
3	7,485	131	3,683	11,299
4	5,739	0	1,438	7,177
1965	7,333	936	1,661	9,930
6	4,328	28	1,850	6,206
7	11,290	560	4,946	16,796
8	5,770	925	3,411	10,106
9	9,336	179	2,321	11,836
1970	10,602	77	811	11,490
1	22,416	183	2,470	25,069
2	59,537	0	156	59,693
3	53,640	275	183	54,098
4	9,285	0	. 0	9,285
1975	55,657	0	Ö	55,657
6	149,081	ō	6,820	155,901

^{*}Before 1964 Tanganyika only



Year	Amount/kg
1969-70	233
1970-71	131
1971-72	1445
1972-73	2139
1973-74	3544
1974-75	nil
1975-76	8310

1976-77 1969-77

Table 3 Rhino Horn Imported into North Yemen 1969 - 1977

from the Annual Reports of the Central Bank of Yemen 1971-1977.

may have been accounted for by many rhino deaths during the serious drought in eastern Kenya the year before. The general trend of increasing rhino-horn exports would be in response to the sharp rise in prices from K£8.24 per kg in 1969 to K£44.6 per kg in 1976 — 441 per cent.

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22645

Our data show minimum rhino mortality because they come from official figures and therefore do not reveal illegal kills. Confidential information given to one of us (ISCP) in the course of research into the ivory trade confirms that from Kenya illegal rhino-horn exports have always exceeded legal exports. Taking East Africa as a whole — Kenya, Tanzania and Uganda — the average annual number of rhino represented by the export statistics was 563 between 1930 and 1934, and 1197 between 1972 and 1976 (based on an estimate of 3.5 kg of horn per animal).

Over the period 1949-1976, Hong Kong has been the major import market for rhino horn (as shown in the table summarised but not published here), but southern Arabian countries — Aden (South Yemen) and North Yemen — have taken an increasing share of the market. Table 3 confirms this trend of a rising demand in North Yemen imports between 1969 and 1977. There are several reasons for this. The annual per capita income in North Yemen has increased from \$80 in 1970 to \$500 in 1978, due to the large number of Yemenis working in Saudi Arabia; in 1978, one million Yemenis working abroad remitted \$1500 million to North Yemen. Every male above adolescence must own a jambia (dagger), and those most in demand have rhino-horn handles. One of us (EBM) saw the horn being carved into handles in the main market in Sana'a, and established that one wholesaler supplied most of the horn; the price in late 1978 was \$675 per kg.

In late 1978 ISCP examined import data in Hong Kong which indicated that few rhino horns had entered in the preceding five months, the greatest single shipment being 1000 kg of chippings and shavings from Southern Arabia. Hong Kong traders said that the Yemeni prices were too high for them. Since then the Hong Kong traders have recommended, as a conservation measure, a total ban on rhino-horn imports into the colony. Their recommendation was accepted by the government and became law in March 1979. Thus the colony is no longer a market for legal rhino horn.

We have been told that in much of southern and south-east Asia rhino horn is used for medicinal purposes. This is so in two Indian states, Gujerat and Bengal.

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In Gujerat EBM was told that in 1978 demand was being met by illegal East African exports at \$375 per kg. The Bengalis have no traditional trading connection with East Africa and try to get supplies from Indian rhinos killed in neighbouring Assam, for which they pay \$875 per kg.

Conclusion

From our data and collected information we believe that, in the absence of unforeseen political events in the Arabian peninsula, the price of rhino horn will continue to rise and provide yet greater incentive to hunt rhinos of all species for their horns.

Summary of Import Statistics

Customs figures from the three exporting countries show that from 1949 to 1976 Hong Kong imported 23,852kg of rhino horn, roughly two-fifths of total exports -57,175kg. The other major primary importers were Aden/South Yemen, 8857kg; mainland China, 7619kg; USA, 2723kg; Japan, 1639kg; UK, 1549kg; Zambia, 907kg; and West Germany, 124kg. From 1949 until 1964, when it joined with Tanganyika to form Tanzania, Zanzibar imported 7192kg. China, the third largest customer for the entire 28-year period, did not begin importing at all until 1968, and in 1972 bought 4554kg, more than any other country in any one year. Minor importers were Argentina, Australia, Austria, Bahrain, Belgium, Brazil, Canada, Denmark, Egypt, Finland, France, India, Iran, Italy, Malaya (pre-Malaysia), Mozambique, Netherlands, New Zealand, Norway, Rhodesia and Nyasaland, Saudi Arabia, Singapore, South Africa, Spain, Sri Lanka, Sweden, Switzerland, Syria and Lebanon, Thailand, and Uruguay. General categories in the statistics include Central and South America (37.5kg) and 'other' (2130.5kg). In many instances the amount imported by a particular country was considered negligible, listed as 'trace', and not reckoned in the final sums. A complete table of import statistics for 1949-1976 is obtainable from the FPS office.

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Fur and Skin Smuggling

According to ISPA News in a period of 18 months a fur-smuggling operation in the USA was responsible for traffic in 46,000 margays, 30,000 ocelots, 15,500 otters, 5600 leopards, 1900 cheetahs, 500 pumas and 200 jaguars, representing nearly 100,000 animals. The value of the shipments was some \$5 million. A report by ISPA investigators on traffic in South American wildlife says that in one month more than 30,000 caiman skins entered Suriname from Brazil. In another month, 7700 lizard and more than 4000 snake skins arrived for trans-shipment. In 1978 approximately 13 tons of deer skins and 12.5 tons of peccary skins were shipped through Suriname.

Effect of Elephants in the Akagera Park

In 1975 the Rwandese Government decided that a population of 134 elephants in central Rwanda were so troublesome that they must be eliminated. As part of the operation 26 young elephants (from one to 12 years old) were transported and released in the Akagera National Park, in the north-east, where there were no elephants. Although they belonged to different family units, the young elephants formed stable social herds in their new habitat, according to a report by Nicole and Alain Monfort in La Terre et la Vie (1979, 1), and their presence appears to be beneficial for most of the grazing animals; for the smaller ungulates particularly, they open up the vegetation making more food available.