Wildlife resources and tourism in wetlands of Tanzania

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Summary

The presence of wetlands in the various protected areas in Tanzania (national parks, game reserves, controlled areas and the Ngorongoro Special Conservation Area) is described. The value of tourism in wetlands and the problems of wildlife in wetlands is discussed. Recommendations for the management of wetlands in reserves emphasises the necessary involvement of people who live adjacent to these areas and are affected by management decisions.

Introduction

The reserved areas in Tanzania arc summarised in TabIc I. In Table 2 the conservation status of large freshwater wetlands of the Zaire River drainage and Lakes Tanganyika, Nyasa, and Victoria are shown. Table 3 shows the wetlands of the eastern Rift Valley and the eastern drainage -system.

There are 56 controlled areas where wildlife exists alongside human activities such as farming and fishing.

Laws governing wetlands

If a wetland is within a national park or game reserve, then its management falls under the control of the Director of Wildlife. Hydropower dams are controlled by the Tanzanian Electricity Company (TANESCO). In some areas, for example the Bahi Swamps, the wildlife is under the control of the Director of Wildlife but the wetland is managed by the villagers.

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Protected areas Area		Wetland system	Features of significance	
	(km2)			
National parks	S			
Arusha	137	Riverine, lacustrine,	Ngurudoto Crater. watershed for	
		palustrine	pangani system	
Katavi	2.253	Riverine. palustrine	Rukuru, Katavi Swamp system	
Kilimanjaro	756 .!	Riverine. palustrine	Watershed	
lake Manyara	320	lacustrine, palustrine. riverine	lake Manyara	
Mikumi	3,230	Riverine, palustrine	Ruvu. Wami and Ruaha watersheds	
Ruaha	12,950	Riverine, palustrine	Usangu plain, Ruaha watershed	
Rubondo	457	lacustrine	lake Victoria shore	
Serengeti	14,763	Riverine, palustrine, lacustrine	Watershed to part of lake Victoria	
Tarangire	2,600	Riverine. palustrine	Tarangire Swamp	
Game reserve	es			
Biharamulo	1.300	lacustrine, riverine	lake Victoria shore	
Burigi	2.200	lacustrine. riverine	lake Burigi	
Ibanda	200	Riverine. lacustrine	lake Twamwala and Kagera River	
Kizigo	4.000	Riverine. palustrine	Ruaha watershed	
Maswa	2,200	Riverine	lake Eyasi and Wembere watershed	
Mkomazi	1.000	Riverine	Pangani watershed	
Moyowosi	6.000	Riverine	Moyowosi watershed	
Rumanyika	800	Riverine	Kagera watershed	
Rungwa	9,000	Riverine. palustrine	Rungwa and Ruaha watersheds	
Sadani	300	Marine. estuarine	Marine and estuarine habitats	
Selous	50,000	Palustrine, riverine	Rufiji floodplain. Rufiji watershed	
Ugalla	5,000	Riverine	Malagarasi-Moyowosi system	
Uwanda	5,000	lacustrine. riverine	lake Rukwa system	
Conservation	areas			
Ngorongoro	8,288	Riverine. lacustrine	lake Magadi, watersheds for lakes Eyasi. Manyara and Natron	

 Table 1
 Protected areas of Tanzania and their status, with reference to wetland conservation

Table 2Large feshwater wetlands associated with the Zaire River, and Lakes Tanganyika, Nyasa
and Victoria; their status and special features (Source: Chabwela, 1991)

Name	Wetland types	Approx. size (km2)	Conservation status	.special features
Rukwa	Shallow lake	2,300	Partially protected as controlled area and game reserve	Wildlife, grazing and fishery
Malagarasi	Floodplain and swamp	7,360	Partially protected as game reserve and controlled area	Wildlife, grazing and fishery
Moyowosi	Swamp and floodplain	-	Partially protected and controlled area	Wildlife
Lake Tanganyika	Swamp, shore	-	Uncontrolled	Fishery
Lake Nyasa	Swamp, shore	-	Unprotected	Fishery, agriculture and grazing
Lake Burigi	Shallow lake	-	Unprotected	Fishery, agriculture and grazing
Upper Kagera	Shallow lake	350	Partly protected as controlled area	Wildlife, agriculture and grazing
Lake Ikimba	Shallow lake	-	Unprotected	Fishery and agriculture
Lake Victoria	Swamp, shore	-	Largely unprotected	Fishery, agriculture and grazing
Mara River system	Swamp and floodplain	30,000	Unprotected	Agriculture, fishery and grazing 63

Table 3Large wetlands of the East Rift Valley and the eastern hydrological systems; their
status and special features (Source: Chabwela, 1991; IUCN/WWF/NEMC, 1990)

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Name	Wetland types	Conservation status	Special features
Usangu	Floodplain, swamp	Partially protected as	Wildlife, grazing,
	(520 km2)	controlled area	agriculture
Kilombero	Floodplain, swamp	Partially protected as	Fishery, wildlife,
	(6,650 km2)	controlled area	grazing, agriculture
Rufiji	Floodplain	Partially protected as	Agriculture, wildlife,
	(1 ,450 km2)	game reserve	fishery
Liwale	Swamp	Unprotected	Fishery, agriculture
Ruvu River system	Floodplain, swamp	Partially protected as	Fishery, grazing,
	(43,000 km2)	controlled area	agriculture
Mkata- Tendigo	Floodplain and swamp	Unprotected	Fishery, grazing, agriculture
Bahi Swamp	Swamp (125,000 km2)	Unprotected	Fishery, wildlife, grazing
pangani system ,	Swamp, floodplain	Fully protected as	Agriculture, fishery,
	(90,000 km2)	controlled area	grazing
Olgarwa-Shambari	Swamp	Fully protected as	Agriculture, fishery,
		controlled area	grazing
Ngusero	Swamp	Protected as	Agriculture,
-		controlled area	grazing, wildlife
Tarangire	Swamp (60,000 km2)	Protected as part of a	Wildlife
i di di gi d	• · · · · · · · · · · · · · · · · · · ·	National Park	
Lake Manyara	Shallow sodic lake,	Partially protected as	Wildlife, grazing,
,	swamp (41,300 km2)	National Park and	agriculture
		controlled area	
lake Natron	Shallow sodic lake	Protected as	Grazing, wildlife
	(85,500 km2)	controlled area	
lake Balangida	Shallow sodic lake (6,000 km2)	Unprotected	Agriculture, grazing
lake Balangida lelu	Shallow sodic lake (3,000 km2)	Unprotected	Agriculture, grazing
Ngorongoro Crater	Shallow lake	Protected as conservation area	Wildlife, grazing
lake Eyasi	Seasonal shallow	Partially protected as	Agriculture, fishery,
2	sodic lake	controlled area	wildlife
	(116,000 km2)		
Wembere	Floodplain, swamp	Unprotected	Wildlife, agriculture,
			fishery, grazing
lake Kitangiri	Shallow lake	Unprotected	Fishery, agriculture
Wami River	Estuarine	Unprotected	Fishery, agriculture
Rufiji Delta	Estuarine	Unprotected	Fishery, wildlife,
		onprotected	agriculture
			ayılculule

Wildlife in wetlands

Animals tend to congregate around wetlands. There are some species which are always found near water, such as hippopotamus, waterbuck, warthog, elephant, crocodile, sitatunga, and waterbirds such as flamingos and ducks. These animals are part of a complex food chain which is reflected in the high diversity of biota in wetlands.

Economic value of wildlife in wetlands

Wetlands provide people with a source of food and skins. Local people hunt for food while the tourist from abroad hunts for trophics, such as skins, horns and ivory. In some areas, illegal hunting has caused wildlife numbers to decline and the Government of Tanzania has neither the finance nor the manpower to control it. The international community has provided funds to assist Tanzania to manage its wildlife. Also, *NGOs* such as the World Wildlife Fund (WWF), the African Wildlife Fund (AWF), the World Conservation Union (IUCN), German Technical Assistance, YOU Magazine and individuals have been involved in wildlife conservation and management in Tanzania.

Tourism

Tourism is the major activity in wetlands where there is a high concentration of wildlife. It is impossible to develop infrastructures in all wetlands of Tanzania because many are very remote. The Bahi Swamps, in Dodoma Region, and Lake Kitangiri, in Singida Region, are well known for their bird life but the long and rough road from Dodoma to these places precludes any tourist development there. Perhaps future generations will develop these areas and use them for recreation.

If these areas can be developed then tourism has the potential to become a major foreign exchange earner in Tanzania.

Human-wildlife interactions in wetlands

The major problem in wetlands is poaching for both meat and ivory. The wildlife resource is threatened by the greed and short term views of the poachers and their masters.

There is a conflict of interest between the conservators of wildlife and farmers. When wild animals destroy crops, property and livestock no compensation is paid to the farmers. This has resulted in the farming community resenting the presence of wildlife. In some areas, there is competition between livestock and wildlife for

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grazing areas; villagers in Mkomazi and U galla want the game reserves to be available for livestock grazing.

No traditional fishing and honey collecting is allowed in national parks and game reserves. People resent this as they receive no tangible benefits from the presence of these protected areas in their vicinity.

Recommendations

The Wildlife Division of the Ministry of Tourism Natural Resources and Environment should work closely with villagers who live near the wetlands so that they are involved in the management of the wetland and can see the value of conservation.

The government should create a wetland authority which will be responsible for planning the management of wetlands for the whole country.

Since the government owns the wildlife and receives monetary benefit from its existence, it should compensate villagers for damage done to property, crops and livestock.

Legislation governing the conservation of wetlands should be made more relevant to current needs.

International bodies should be approached to assist Tanzania in the development of remote wetland areas, such as Wembere, Malagarasi, Lake Kitangiri and Bahi Swamps.

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