

Country Profile

Kingdom of Swaziland



Giraffe Conservation Status Report

Sub-region: Southern Africa

General statistics

Size of country: 17,360 km²

Size of protected areas / percentage protected area coverage: 5%

(Sub)species

South African (or Cape) giraffe (*Giraffa camelopardalis giraffa*)

Conservation Status

IUCN Red List (IUCN 2012):

Giraffa camelopardalis (as a species) – least concern

Giraffa camelopardalis giraffa – not assessed

In the Kingdom of Swaziland:

Giraffe in the Kingdom of Swaziland (referred to as 'Swaziland' in this report) are classified as royal game under the Second Schedule of the Game (Amendment) Act of 1991, an Act to amend the Game Act of 1953 and to provide for matters incidental thereto. A valid permit issued under the provisions of section 16 of the Game Act is required to hunt or attempt to hunt, or be in possession of a trophy of any royal game.

Issues/threats

The environment of Swaziland is rapidly changing as a result of population growth, industrialisation, urbanisation and increasing agricultural demands (SEAP 2012; USAID 2007; BSAP 2001). Many of these changes are negatively affecting the natural environment and the wildlife it contains (USAID 2007). Major threats to wildlife include habitat degradation, fragmentation and loss due to the conversion of natural land to other forms of land use (BSAP 2001; M. Reilly pers. comm.).

The clearing of natural vegetation for the cultivation of sugarcane has been the main land use conversion and subsequent cause of habitat loss affecting the savanna ecosystem in Swaziland (USAID 2007; BSAP 2001; M. Reilly pers. comm.). This clearing has continued unabated despite limited water availability (BSAP 2001). Other irrigated agriculture that has resulted in the clearing of large tracks of land, and subsequent destruction of habitat, include monocultures such as pineapple and citrus, as well as large-scale timber plantations (Menne & Carrere 2007; USAID 2007).

Human settlement and increased anthropogenic activity is further exacerbating habitat loss in Swaziland (USAID 2007; BSAP 2001; M. Reilly pers. comm.). Wildlife resources have been decimated on Swazi National Land and, as a result, very few large mammals still survive there (BSAP 2001; Monadjem 1998). The presence and distribution of most large mammals in the country is therefore limited to national parks and

reserves as well as privately owned ranches (Monadjem 1998). Giraffe in Swaziland are found only within the boundaries of these protected areas (M. Reilly pers. comm.).

People living in poverty are concerned with their immediate survival rather than possible environmental concerns looming ahead (USAID 2007). The growing human population is expanding into protected areas and unsustainable harvesting of woody vegetation for timber, fuel wood and building materials as well as bushmeat are occurring at increasingly higher rates (USAID 2007; BSAP 2001). There is insufficient government interest and support in developing parks and nature reserves, which leads to insufficient human and financial resources being made available for their promotion and management (SEAP 2012; BSAP 2001). Due to insufficient socio-economic incentives, neighbouring communities often do not support parks and reserves (SEAP 2012; BSAP 2001). Incidental targeted as well as non-targeted illegal hunting of giraffe occurs within these protected areas (SEAP 2012; M. Reilly pers. comm.). Giraffe are used as bushmeat, while certain parts of the body are also used for traditional muti¹ (M. Reilly pers. comm.). Inadequate size of protected areas provides further challenges as large areas are needed for large mammals like giraffe to thrive (USAID 2007). Protected areas can no longer guarantee shelter from increasing human effects.

There is further concern that recent efforts by certain human rights activists to curtail Swaziland's zero tolerance approach to illegal hunting is encouraging criminal activity in protected areas (Saving Rhinos 2011; M. Reilly pers. comm.). The initiative to protect suspects who have broken the law, as well as sponsored civil litigation against game reserves, may encourage the increase of illegal hunting (Saving Rhinos 2011). Although the act of illegal hunting is liable to prosecution, some NGOs are citing law enforcement actions as human rights abuses, thus reducing the will of private sector and parks staff from conducting effective anti-poaching (M. Reilly pers. comm.).

If the private sector cannot retain the ability to effectively protect their wildlife assets, game ranging might decline as private land owners might shift to other, more competing agricultural forms of land use (M. Reilly pers. comm.). This could reduce the range and number of wildlife such as giraffe considerably (M. Reilly pers. comm.).

Where public roads and train rails pass through wildlife areas, as in the case of Hlane Royal National Park, giraffe mortalities have occurred due to collisions (M. Reilly pers. comm.). An increase of such traffic therefore fragments habitat and increases the risk for wildlife mortalities (M. Reilly pers. comm.).

Estimate population abundance and trends

Historic

Although most large herbivores in Swaziland were hunted to extinction by the early 20th century (Reilly 1985), uncertainty remains regarding the historical presence of giraffe in the country (Monadjem 1998; Goodman & Tomkinson 1987; East 1999). Goodman & Tomkinson (1987) suggested that giraffe probably did not occur in Swaziland in recent historical times. According to East (1999), giraffe may have formerly occurred in northern Swaziland, to the north of the Komati River. It is furthermore believed that giraffe historically occurred in the lowveld savanna region in the eastern parts of the country (M. Reilly pers. comm.). Any indigenous populations that might have existed have however gone extinct (East 1999). The impacts of rinderpest on giraffe populations in Swaziland are unknown, but many believe that it played a significant role in causing their early extinction in the country. Anecdotal information suggests that giraffe may have gone extinct in Swaziland during the rinderpest outbreak of 1896 (M. Reilly pers. comm.).

Swaziland remained without giraffe until 1965, when one male and one female South African giraffe (*G. c. giraffa*) were introduced to Mlilwane Wildlife Sanctuary (M. Reilly pers. comm.). These animals were translocated from the Hoedspruit area in the South African lowveld (M. Reilly pers. comm.). Some giraffe were later translocated from this founder population to Hlane Royal National Park in Swaziland.

¹ Muti is a term for traditional medicine used in Southern Africa.

Six giraffe from Namibia were introduced to Hlane Royal National Park in the 1970s (East 1999). Although taxonomic confusion has surrounded the (sub)species occurrence of giraffe in Namibia, evidence provided by Fennessy (2004), Brown *et al.* (2007) and Brenneman *et al.* (2003) indicated that giraffe in Namibia can be subsumed into *G.c. angolensis* (commonly known as Angolan giraffe) and not *G. c. giraffa*, as historically classified (Fennessy 2008). According to East (1999), these Angolan giraffe introduced to Swaziland never bred. However, Ted Riley (pers. comm.) indicated that the giraffe from Namibia did in fact breed with the South African giraffe, but that minimal genetic diversity exists as tick related diseases caused the death of all originally introduced giraffe from Namibia, as well as their offspring.

Recent

Since the first re-introduction, further giraffe were introduced to Hlane Royal National Park and Mkhaya Game Reserve, as well as to other privately owned properties, including Mhlosinga and Mbuluzi Nature Reserves, mainly from what are now known as the Limpopo, Mpumalanga and Kwa-Zulu Natal Provinces of South Africa (East 1999; M. Reilly pers. comm.).

With the evolution of private ownership of game and game ranching in Swaziland, the private sector has invested heavily in giraffe and their numbers and range increased steadily over recent years (M. Reilly pers. comm.). Apart from the imports into Swaziland, a number of the re-established populations have provided giraffe for further re-location within the country (M. Reilly pers. comm.).

By the new millennium, six giraffe populations occurring in protected areas throughout Swaziland amounted to an estimated total number of 80 giraffe (T. Reilly pers. comm.). Of these, approximately 10 individuals occurred in Mbuluzi Game Reserve, 13 in Mhlosinga Nature Reserve, 12 in Mkhaya Game Reserve, 25 in Hlane Royal National Park, 12 on Nisela Ranch and one in Mlilwane Wildlife Sanctuary. No giraffe were found outside of these protected areas (T. Reilly pers. comm.).

Current

At present, it is estimated that there are a total of 209 giraffe in Swaziland (M. Reilly pers. comm.). An estimated 75 giraffe occur in two proclaimed protected areas that are managed by Big Game Parks: ground censuses of 2012 indicate a population of approximately 30 individuals in Hlane Royal National Park, while Mkhaya Game Reserve is home to an estimated 45 giraffe (M. Reilly pers. comm.). Although giraffe formerly occurred in the Mlilwane Wildlife Sanctuary, they no longer exist there as it does not provide an ideal habitat for giraffe.

Further giraffe populations occur on non-proclaimed private establishments. Ground censuses of these establishments indicate giraffe populations of approximately 40 individuals in Mbuluzi Game Reserve, 11 in Mhlosinga Nature Reserve, 25 on Nisela Ranch, 25 at Oberland, 20 at Inyoni Yami Swaziland Irrigation Scheme (IYSIS), three at Panata River lodge and six at Canterbury estates (M. Reilly pers. comm.). Three giraffe were translocated from South Africa's Kwa-Zulu Natal Province and introduced to the Royal Jozini Private Estate in 2011, which now hosts four individuals (J. Brown pers. comm.).

While some government managed parks in Swaziland show suitable habitat, there are no giraffe in any of these parks. There have also been no attempts to re-introduce giraffe, despite several government subventions in the past 40 years (M. Reilly pers. comm.).

In summary, current giraffe numbers for Swaziland are estimated at <210 giraffe, occurring in two proclaimed protected areas and on non-proclaimed private establishments.

Future Conservation Management

The following are proposed conservation management options for giraffe in Swaziland:

- Any future introductions should only be the same (sub)species as previously re-introduced – *G. c. giraffa*;
- Development of National Giraffe Strategy for Swaziland; and
- Support to dedicated giraffe conservation, habitat protection, anti-poaching, education and awareness initiatives (government, NGO and academic)

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Map

