Human-Lion Conflict and the Reproduction of White Supremacy in Northwest Namibia.

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Abstract
Throughout the nineteenth and twentieth centuries, Europeans and the South African colonial government used human-lion interactions to reproduce white supremacy in northwest Namibia. This ‘animal-sensitive history’ reveals the central role of livestock in antagonistic human-lion interactions and role of government in securing European dominance over lions, while African pastoralists suffered from human-lion conflict. Government interventions had lasting effects on the geography of lion survival. Lions were eradicated on white farms, thrived in Etosha – where livestock were prohibited – and maintain a tenuous presence in Kaokoveld. Lion survival and human livelihoods remain linked to one another.

Introduction
During South Africa’s colonization of Namibia (1915-1990), ideologies of white supremacy reached beyond social and civil society to the wildlife and landscape. Since independence in 1990, Namibia is moving towards a more just and equitable society. But decolonization has not emphasized the more-than-human effects of South African imperial rule (Whatmore 2002). Throughout the colonial era, human-lion (Panthera leo) interactions were differently experienced by white settlers and Africans as expressions of racialized social and environmental politics, with lasting effects. This case study examines the history of human-lion interactions in northwest Namibia, emphasizing the colonial era. It reveals a history in how Europeans and the state reproduced white supremacy through human-livestock-lion interactions. Reproduction refers to the social processes through which cultural ideas of privilege and dominance are entrenched among groups and across generations (Bourdieu 1996).

Human-lion interactions during the South African colonial period were coopted to serve the racialized goals of the South African empire. In their Namibian-centered overview of South African colonialism, Henrichsen et al. described empire as “a systematic order, an arrangement of the world into categories…express[ing] itself through disciplines and institutions, the division of nature and culture, and in the enduring colonial legacies of racialised collecting” (2015:433). I have found these threads in the history of human-lion interactions in colonial Namibia. This paper adds to the historiography of South African “empire building” (Henrichsen et al. 2015:432) by examining the interwoven human and more-than-human effects, of imperial racialized social and economic policies. Racial categories were manifest in government policy concerning human-lion interactions, while enduring colonial legacies still influence the geography of lion survival, as well as the ongoing challenge of human-lion conflict facing African pastoralists.

Lions in northwest Namibia are the most geographically isolated free-ranging population of lions in southern Africa, and exhibit pride structure, behavioral, and social adaptations to their arid environments. Lions historically occurred across central and northern Namibia (Shortridge 1934). Today they persist in the wild in the northwest (Etosha and Kunene) and north-eastern parts of the country. I focus on the northwest population due to high government interest in resolving human-lion conflicts there (NMET 2017). I begin by contrasting the history of human-lion interactions in northwest Namibia with popular western conceptions of lions, primarily derived from human-lion interactions in East Africa. The role of livestock is central to this history. The arrival of livestock in northwest Namibia transformed human-lion interactions into spaces of potential and actual conflict. European settlers and South African colonial officials used these antagonistic interactions to perpetuate European dominance and racialized government policies. In particular, asymmetric colonial efforts to protect white-owned livestock – cattle (Bos taurus), goats (Capra aegagrus), and sheep (Ovis aries) – were integral to entrenching white supremacy. In spaces where humans, livestock, and lions coexisted white settlers destroyed lions in high numbers, while African pastoralists were hindered in their efforts to kill lions to protect their livestock. The different experiences...
of whites versus Africans echoes historian Emmanuel Kreike’s position that environmental changes in Namibia did not follow a “unilinear Nature-to-Culture” narrative (2009:81). The important role of livestock in generating human-lion conflict is underscored with the rise of wildlife conservation in Etosha, a space formerly occupied by humans and livestock, but which became a space set aside for wildlife where human-lion interactions were no longer antagonistic. In contrast, the neighboring ‘ethnic homeland’ of Kaokoveld remained a space inhabited by humans, livestock, and lions, with each suffering as a result. In a twist, following independence, Kaokoveld (renamed Kunene Region) became the only space where humans, livestock, and lions all persisted. In Kunene pastoralists are now being pressured to conserve lions, though they still suffer from human-lion conflict and limited government support.

This “animal-sensitive history” (Swart 2019) draws upon scholarship from human-animal studies – a diverse field accounting for animal agency and providing alternate theorizations to hierarchical ordering of human over animal (Benson 2011; Pearson 2013). By focusing on human-(livestock-)lion interactions, I show predators and livestock were vectors of reproducing inequality (Oommen 2019; Rangarajan 2013). This study also draws upon the environmental historiography of northwest Namibia, particularly the work of historian and anthropologist Michael Bollig, and historians Lorena Rizzo and Giorgio Miescher, whose works are highly recommended for those seeking to learn more about the region. My contribution emphasizes the more-than-human effects of colonial era policies and how these were in-turn experienced as social and economic outcomes by white settlers and Africans. Many of the issues raised remain pertinent to decolonization challenges and questions of socioeconomic and environmental justice in northwest Namibia.

Available material on human-lion interactions in northwest Namibia is limited, and diverse in format. Precolonial material come from nineteenth century European ‘explorers’ and archaeological evidence. Colonial era records primarily come from Namibia’s National Archives and published sources. Environmental historian Lance Van Sittert notes the reliance on elite archives within the historiography of wild animals in southern Africa risks continuing to subsume subaltern perspecitves (2005). Bringing-forth oral accounts of African pastoralists is an intervention in the reproduction of historical inequalities. These accounts have been collected by me or are drawn from published ethnological works. Grey literature and limited-circulation documents detail changing lion conservation efforts. My own lens is informed by more than four years of lion conservation and community extension work in northwest Namibia. As a co-founder of northwest Namibia’s Lion Ranger program (Lion Rangers 2021), I approach human-lion interactions using historical, political, and economic material, as well as human and nonhuman environmental factors. This cross-disciplinary approach is forming part of a locally-centered lion conservation initiative seeking durable solutions to human-lion conflict.

Pan-African Human-Lion Narratives

Environmental historians have examined the role of elite European hunters in forging western perspectives of typical interactions between humans and African wildlife (Carruthers 2005; MacKenzie 1988). Within the English-speaking world, early popular accounts emphasized the experiences of British and American hunters in present-day Kenya and Tanzania. John Patterson’s Man-Eaters of Tsavo (1907), reports of US President Roosevelt’s safariis (Neumann 2013), and works by Ernest Hemingway (1986), all feature violent human-lion interactions and emphasize the prospect of human death from lions. Most famously, a pair of maneless lions terrorized workers on the Kenya-Uganda railway in 1898. In 1925 one lion is believed to have killed 84 people in Uganda. Between 1932 and 1947, lions in the Njombe district of southern Tanzania killed an estimated 1500 people before the pride was eradicated. Though specific numbers may be exaggerated, they communicate a tone of fear and likely undersell the death toll: across Africa untold numbers of ‘natives’ died from lions during the colonial era, but most deaths went unrecorded (Kruuk 2002:61).

Early scientific perspectives of lions also primarily came from Kenya and Tanzania. Biologist George Schaller’s The Serengeti Lion (1972), was among the first high-profile scientific works on the species, and became the standard understanding of lion behavior, ecology, and sociality for a generation. In 1978, Craig Packer took over the Serengeti Lion Project, which he directed for more than thirty years;
authoring dozens of scientific and popular articles, and two books on lions in the area (e.g. Packer 1994, 2015). As a result, lions from these areas are among the most studied, publicized, and consistently conserved.

Until the twentieth century, lions ranged across African habitats (Haas et al. 2005). During the twenty-first century lion range has been reduced to approximately ten percent of their historically-recorded range and has decreased by forty-three percent since assessments were compiled in the late 1990s. There are currently 20,000-30,000 free-ranging lions in Africa. As many as half reside in East Africa, primarily within Serengeti or similar grassland ecosystems (IUCN 2018). In contrast, wars of independence, civil wars, and other forms of societal turmoil and government instability in formerly lion-rich places, such as West Africa, Zimbabwe, and Mozambique, and the lingering effects of apartheid in Namibia, often kept information about lions in these places from reaching international audiences. Many of these countries contain lions inhabiting settings radically different from Serengeti, including the forests of West Africa and Mozambique and the deserts of Botswana and northwest Namibia. Thus, the popularly-received picture of lions, of human-lion interactions, and lion conservation efforts, has focused on East Africa, which provides a small sample of the diverse localities in which humans and lions have and continue to interact.
The Shared Landscape
Northwest Namibia is bounded by the Ugab river in the south, the Kunene in the north, the Skeleton Coast in the west, and Ovamboland in the east. Previously referred to as Kaokoveld, and as Kaokoland and Damaraland during apartheid, following independence the area was redesignated as the Kunene Region. The region’s heterogeneous environments are dominated by mountains, gravel plains, and sandy dunes bisected by ephemeral riverbeds in the west and mopane savannah further east, around present-day Etosha National Park. Rainfall is low (50 to 300 millimetres per year) and erratic, though generally increases as one moves east from the ocean. The region supports a variety of wild species adapted to the boom-and-bust nature of the rainfall and available grazing, including springbok (Antidorcas marsupialis), oryx (Oryx gazella), mountain zebra (Equus zebra) and plains zebra (E. quagga), kudu (Tragelaphus strepsiceros), and giraffe (Giraffa camelopardalis). During the wet season (January to May) rains may come in brief, localised downpours. These are followed by migrating wildlife and livestock driven by semi-nomadic herders. During the dry season (June to December) both wildlife and livestock may congregate in ephemeral riverbeds where grass remains (Mendelsohn et al. 2003).

Genetic evidence indicates lions have inhabited northwest Namibia for tens of thousands of years (Antunes et al. 2008). Prior to the arrival of intensive pastoralism, the region was home to small bands of highly-mobile Khoe-Sān for thousands of years, who were primarily hunter-gatherers. Anthropological work by Ute Dieckmann with the Hai||om, a Khoe-Sān group residing near Etosha, suggests lions and hunter-gatherers can maintain somewhat collegial relationships. Dieckmann recorded memories of lions and humans recognizing each other’s dominance based upon different times of day or night. One man remembered that when he was young,

“We even shared meat with the lions. In the daytime we took their meat and at night we served them our wounded game!” Another elaborates that “the lions were regarded as ‘colleagues,’ if not friends.” And if they tried to attack them? Kadison explains that there was a saying shouted at approaching lions: “||Gaisi ai!nakarasa!”, meaning “You ugly face, go away!” (Schalkwyk & Berry 2007: 66; 73)

During their Serengeti research, Schaller and anthropologist Gordon Lowther found lions to be “little inclined to attack during the day.” They posited groups of hominid hunter-gatherers could cautiously move through the landscape in daylight. They put this proposition to the test by stalking game and scavenging carcasses on foot. Analogizing their experiences to early hominids, Schaller and Lowther concluded,

If they kept in open country, away from thickets in which lions often rest, and traveled in groups, a practice which would increase their rank in the inter-specific predator hierarchy, hominids would probably have been molested only rarely. Even when encountering a predator at close quarters, they could have put it to flight by using such typical primate intimidation displays as vocalizing and throwing and shaking branches, a technique effective against today’s predators. (1969:330)

Biologist Hans Kruuk has challenged these assertions, noting, “present-day lions are conditioned to people being armed and dangerous” (2002:113). Though Kruuk also notes human-lion antagonism may be driven by lion cultural transmission, suggesting, “one animal learning from another, plays a role in prey selection...Perhaps lions have now learned from their elders that people do not fit into their normal spectrum of prey species” (2002: 62). Field work in northwest Namibia supports the perspective that human-lion interactions cannot be essentialized as antagonistic or violent. Lions typically avoid people traveling on foot during the daytime. In contrast, lions are much bolder at night, sometimes investigating groups of people, including approaching the open windows of an unfamiliar research vehicle and lingering nearby while their pride-mates are immobilized and collared (pers obs). Because human-lion interactions take a variety of forms historians can examine the contingencies of different interactions.
Livestock and Lions

The presence or absence of livestock is a critical mediating factor in human-lion interactions. Livestock presence transforms human-lion interactions into almost universally antagonistic experiences for humans, livestock, and lions. This was recognized by one pastoralist in northwest Namibia, who put the matter succinctly: “If you are only a person you can live with lions. But if you are having livestock, then it is not good.”

The arrival of livestock in northwest Namibia, beginning in the last few centuries BCE, would have had significant livelihood effects for the region’s residents (Sadr 2015) and the prospects of the region’s lions. Domesticated sheep were present among the Khoe-Sān in the northern Namib desert two thousand years ago; cattle arrived in large numbers during the last one thousand years (Kinahan 2016, 2019). Intensive pastoralism in northwest Namibia increased in the sixteenth century, coinciding with the arrival of the ovaHerero people (Borg & Jacobsohn 2013). With the ovaHerero came large numbers of cattle.

The introduction of large numbers of domestic stock, not as adapted to resisting predators as wild prey were, would have been a boon for lions. Historian William Beinart has shown predators at the Cape quickly adapted to the novel opportunities presented by the slower, less dangerous animals crowding-out wild prey (1998). As Mahesh Rangarajan has noted for India’s Gir Forest, “herding of sheep, cattle, and goats offered large cats and canids easy meat on the hoof...That lions should hunt cattle was only logical” (2013:113). Goats and sheep – local breeds weighing an average 29-32 kg and 50-90 kg respectively – could feed a small group of lions for a day or two, while large-bodied cattle – 300-600 kg could feed them for a number of days (Schaller 1972:276).

Historian Jon Coleman has found livestock’s arrival in colonial North American created relationships predators were ill-equipped to navigate. ‘Wild’ animals generally evince great fear of humans. However, a similar fear of livestock has not been developed by predators. Coleman shows livestock survival, and by extension the social and economic reproduction of human livelihoods, lay at the heart of human-wolf conflict. “Wolves,” Coleman writes, “had enough sensibility to retreat from people, but…[w]hen they sank their teeth into cows, pigs, and sheep, wolves committed sins unimaginable to them” (2004:36). He continues: “Wolves and people were not natural enemies…humans’ relationship with other animals established their rivalry with wolves” (2004:49). Similarly, when lions attack livestock they constrain human livelihoods, engendering human antagonism.

The economic value of a growing livestock culture was reinforced by European trading ships moving along the Skeleton Coast throughout the seventeenth and eighteenth centuries. While the ovaHerero mostly kept their stock hidden in the rugged Kaokoveld, Khoe-Sān pastoralists sought to benefit from this new market by maintaining stock camps near Walvis Bay. However, without sufficient water or suitable forage at the coast, these pastoralists and their stock trekked from further inland (Kinahan 2014). Such drives, with livestock and people sleeping in the open, presented an opportunity for lions and other predators (Wallace & Kinahan 2011:35-6). As lions turned towards more densely populated herds of docile livestock, I suggest their hunting success improved and lion numbers increased. Pastoralists’ bow-and-arrows, spears, or rudimentary firearms, and botanical poisons would have been little deterrent. Whereas before the threat of lions may have been considered too great for pastoralists to make such dangerous treks, access to trade goods would have ameliorated some of the material effects of livestock loss. This period drew humans, livestock, and lions into a feedback loop interweaving colonial markets, livestock death, and human-lion conflict.

European Strength and the Killing of “Man-Eaters”

When European ‘explorers’ entered northwest Namibia during the nineteenth century, human-livestock-lion interactions were a familiar challenge to local pastoralists. Speaking of the end of the 1800s, one Himba recounted,

In those days the cattle were properly herded because of hyenas and lions...During the night the people would not go out; sometimes the lions were even entering the homesteads to kill the cattle. (Bollig 2020:36)
Western accounts of lions in northwest Namibia began with Francis Galton and C. J. Andersson in 1853 and were typically antagonistic. They recorded lions being drawn by their party’s retinue of livestock (Andersson 1856:53). The conflict that occurred when lions attacked livestock, or the humans attending them, created a space in which Europeans—well-equipped with firearms—could exercise dominance regarding human-lion interactions not widely available to locals. In a series of dramatic stories Andersson cast locals as terrified, rendered helpless, and even killed by lions. A typical incident of panic included,

the screechings of the terrified women and children...the hallooings of the men, the rush of the cattle and the sheep, firebrands whizzing through the air, the discharge of fire-arms, the growls of the lions, and other discordant noises, the scene was one which baffles description. (Andersson 1861:140)

Like other Europeans, Andersson and Galton reproduced accounts of “white male gigantism,” in which brave white men penetrate wild Africa to destroy fearsome man-eaters (Coleman 2011). Tales of (white) muscular colonialism, communicated back to the metropole, reproduced perspectives of European over African, and civilization over nature. Human-animal historian Simon Pooley has shown European hunters considered lions and crocodiles to be Africa’s most fearsome animals (2016). As historian Jane Carruthers notes, for Europeans “hunting lions came to be regarded as the ultimate test of masculine bravery and strength” (2005:192). Though Andersson and Galton’s accounts may have sold books back in the metropole, their experiences largely represented a passing era.

**Lion Eradication as White Domination**

Profit and capitalist growth were the driving forces behind white colonialism in Namibia (Botha 2000). By the twentieth century, European interactions with lions primarily took the form of settler-farmers eradicating lions and other predators for economic reasons. During the colonial era, South Africa and Namibia maintained Africa’s only large white settler underclass. White settler-farmers during the early twentieth century were primarily composed of landless white *bywoners* (sharecroppers) from South Africa, who were encouraged to settle in Namibia by generous government assistance programs (Lau & Reiner 1993:53). Though these landholders were well-to-do when compared to African farmers, many required extensive government assistance to make ends-meet (Botha 2000). Environmental historians have examined the historical interactions between this relative underclass and predators—emphasizing jackals (*Canis mesomelas*) (Beinart 1998; Moore 2017; Swanepoel 2016; van Sittert 2016), finding jackal killing was important for securing white livelihoods. Among settlers, lions’ fearsome traits were secondary to their economic effects: lions were primarily considered vermin needing to be destroyed to secure rangelands for livestock. Efforts to control valuable pasture land for white benefit resulted in widespread lion death on white farms (Anonymous 2020a). Though the ‘sport’ of lion killing never disappeared entirely among Europeans, as the number of white settlers, primarily from Germany and South Africa, rose dramatically in the early twentieth century (Botha 2000), the driver of human-lion conflict was the threat lions posed to livestock.

Colonial farmers demanded government assistance in eradicating lions and other ‘vermin’ (*ongedierte*) (NAN SWAA 1349 1921; NAN SWAA 2328 1918, 1923). As van Sittert has shown for the Cape Colony/Province, marginally-productive rangelands forced farmers to drive livestock far-afield, sometimes for days at a time, where they were more exposed to predators. This meant stock often slept in the open, as opposed to trekking back and forth each day to enclosures where they were more likely to suffer from diseases of overcrowding (van Sittert 1998). Though fences were useful against small and medium-sized predators (Moore 2017), expensive lion-proof fencing was beyond the means of most farmers—many of whom relied upon government cash grants and infrastructure loans (Adams et al. 1990:20-24; GSWA 1927). The recurrence of human-lion conflict created a space in which the colonial government’s prioritization of white settler livelihoods was evident. Elsewhere I have shown settlers’ destruction of predators received extensive support such as tax relief and ammunition and industrial poisons
at cost price. The government also supported the creation of ‘vermin clubs’ – whites-only hunting groups empowered to eradicate predators on private land. By contrast, non-whites were disallowed from receiving ammunition and poisons, and from joining vermin clubs (Anonymous 2020a). Similar to whites’ destruction of wildlife in eastern South Africa, the slaughter of predators served white Namibians’ “physical and economic survival” (Carruthers 2005:187). As noted by Coleman of bear hunting in the southeastern United States, the necessity of such eradication indicated the socially and economically marginal positions settlers occupied (2011).

When it came to lion killing, economic marginality did not preclude, but supported the reproduction of a mythos of white dominance. As widely recognized symbols of wild Africa, lion destruction reproduced white strength in written and visual discourse. In Lords of the Last Frontier, Lawrence Green, a popular South African author, portrayed typically rugged, white masculine lion hunters in northwest Namibia as the vanguard of European civilization. Green praised one Outjo-area settler as a “great lion hunter.” Another, Karl Hartmann, was reputed to have killed at least fifty lions, only to die at the hands of a lion he wounded (1952:126, 136). Though lion hunting evoked danger, more often than not it was the lions who died; surrendering their heads and skins for prominent display (NAN SWAA 2329 1952). More mundanely German soldiers at remote Fort Namutoni fought boredom by shooting lions from observation towers (Schalkwyk & Berry 2007:46). Historian Patricia Hayes has analyzed photographic portrayals of white dominance on the Namibian frontier. For example, photographs of Ovamboland and Kaokoveld Native Commissioner, Carl ‘Cocky’ Hahn centered Hahn as the dominant force in scenes of lion death (Hayes 1998, 2000). When Africans are present in these images, they stand adjacent to Hahn’s position of dominance – present but peripheral.

![Carl ‘Cocky’ Hahn and unnamed Africans with lion carcasses, 1930s. Retrieved from Namibia National Archives.](image)

**Game Reserve No. 2/Etosha**
State support of the white economy, reinforced by European masculinity emphasizing wildlife destruction, led to the dramatic decline of lions in white-controlled areas. By 1912, lions around Etosha had become so rare that when Lieutenant Adolf Fisher heard them roaring near Namutoni, it was the first evidence of lions there in years (Berry 1997:5). In later years, Rudolph Böhme, a long-time resident of Onguma farm
bordering eastern Etosha, noted there were no lions in the area when he was young, until 1917 (NAN SWAA 2331 1952).

The slaughter coincided with increasing government control over the northwest. In 1907, efforts to protect the white economy led to policies demarcating specific areas for settlers, Africans, and wildlife (Miescher 2012:43-68). The largest area set-aside was ‘Wildschutzgebiet Nr. 2.’ Originally encompassing Kaokoveld as well as Etosha, Game Reserve No. 2, was approximately 80,000 km²— at that time the world’s largest wildlife reserve (Berry 1997). The reserve’s creation was part of a trend in southern Africa of colonial governments designating African-controlled land for the protection of charismatic wildlife, which was considered an economic and social resource (Miescher 2012:52–3). This practice also limited human mobility and increased state surveillance (Carruthers 1997). The southern border of the reserve delineated the extent of German, and later South African, colonial possession: spaces to the north being considered “too rough and mountainous for European occupation” (NAN SWAA 1168 1926).

At the outset, Game Reserve No. 2 was no haven for lions. White ownership of farms within the reserve only ended in 1935 (Berry 1997). In 1922, the local magistrate supported the request of two whites to shoot lions at Okaukuejo (NAN SWAA 2328 1922). In 1924, G. C. Shortridge noted lions inhabited “the Kaokoveld and Etosha Pan areas, in the second of which districts, owing to trapping and poisoning in the Game Reserve, they have been very much thinned out” (NAN SWAA 1331 1924). In a 1926 survey, Etosha and Ovamboland, a combined area of at least 48,000 km², were estimated to contain 200 lions total (GRSA 1964:27; Berry 1997). In 1934, Shortridge showed lions to be present around Etosha and increasingly plentiful further north, though he thought they were uncommon in Kaokoveld. This perspective was not universal. Böhme believed that though lions were largely absent from his farm, they persisted in Kaokoveld; where whites infrequently went (NAN SWAA 2329 1952; NAN SWAA 2331 1952).

As Etosha’s profile as a wildlife reserve was growing, the colonial government’s stance on killing lions there changed. During the early 1930s vermin clubs killed lions and other predators along the reserve’s southern and eastern borders by the hundreds and thousands annually (Anonymous 2020a). In 1936 the vermin law was repealed, leaving the status of lions within the reserve unclear: though no longer classified as vermin, they were not explicitly protected. In 1938, Native Commissioner Hahn, also serving as Etosha warden, convinced the Secretary for South West Africa to enforce an existing prohibition against shooting within the reserve, though lions could still be killed, “in defence of human life or to prevent the infliction of personal injury” (NAN SWAA 2328 1938a, 1938b). During the 1940s Etosha lions were still considered a menace by neighboring white farmers, leading to an estimated eighty lions per year being killed and prompting one farmer to request permission to pursue lions into the reserve (de la Bat 1982:16; NAN SWAA 2329 1952). The request was rejected. Peter Stark, who later served as an Etosha ranger, claimed to have killed 75 lions while employed on a farm bordering Etosha during the 1940s-50s. Stark later wrote, “In those days if you asked Nature Conservation for help, your pleas fell on deaf ears” (2011:38). This put Etosha conservationists at-odds with both European and Africans on surrounding lands.

As they disappeared from white farmlands lions still caused fear and destruction among African pastoral communities. This disparity had lasting effects on the geographic distribution of lions and other predators, leading to a spatially-explicit divergence in human-lion interactions that continued throughout the South African period.

**Lion Persistence in Kaokoveld**

While the colonial government supported white farmers facing the challenges of human-lion conflict – in the form of financial support, as well as ammunition and poisons – Africans’ struggles went largely unaddressed, and were even hampered by official practices. Kaokoveld residents were denied access to requested firearms and industrial poisons. When South Africa took control of Namibia during World War I, at least 155 firearms were seized in Kaokoveld (Bollig 2020:110). The few communities that still had firearms during the early colonial period often relied upon a single one. Ammunition was rarely issued, and then as few as five to ten rounds. Africans were also not trusted with the use of strychnine or other poisons (NAN NAO 031 1943; NAN SWAA 2328 1945). This forced Kaokoveld pastoralists to find their own
solutions – yielding predictably tragic results. Certain residents confronted lions armed only with spears. As one report stated,

This usually results in several of the hunters being mauled. Only a few days ago [a Himba] was treated for an arm wound caused by a lion, and he intimated that two of his less fortunate comrades were laid up with more serious wounds. (NAN NAO 061 1946)

Kaokoveld inhabitants pleaded for government assistance to kill predators that were attacking livestock. Addressing government officials, one headman summarized the struggles and inadequate government response,

Here in the Kaokoveld we live only on our livestock…We thank you for the guns we have received. They are not enough. The Kaokoveld is very big. The cartridges are also too few. We have trouble with lions, hyaenas and wild dogs. Vermin has destroyed a lot of our stock. (NAN NAO 061 1949)

Official inaction led to livestock deaths. In 1942, the Officer-in-Charge of Native Affairs for Kaokoveld reported, “it is not possible to ascertain how many animals were killed by lions and hyenas, but, the natives maintain that they have sustained very heavy losses” (NAN NAO 029 1942). Another official described lions and other predators as having been, “troublesome during the year…the natives frequently bring in reports of the losses sustained by them” (NAN NAO 029 1944). Complaints among Kaokoveld residents occurred so frequently that a category detailing human-predator problems, termed “Carnivora,” became standard within government reports (e.g. NAN NAO 029 1942, 1944).

Nevertheless, officials remained incredulous. In 1946, the Officer-in-Charge of Native Affairs for Kaokoveld stated his position plainly,

Numerous reports were received of the losses sustained as a result of the onslaughts of carnivora, but I feel convinced that the natives are inclined to exaggerate their losses, and that a high percentage of these losses are due to the carelessness of their herd[er]s, also to the neglect of adequate kraaling at night. (NAN NAO 061 1946)

Denigrating African herding practices and questioning the veracity of pastoralist’s claims formed part of what Bollig has called a “supremacist, imperious, and aggressive” discourse among colonial officials (2020:81) – it also remains a common reaction among Europeans in Namibia (pers obs). Yet, “adequate kraaling at night” was often not an option. In arid areas with limited grazing, bringing stock to and from enclosures each night strains animals and degrades grasses near the homestead (van Sittert 1998). When asked why she does not always kraal her stock, one Sesfontein pastoralist responded that in her experience stock being kraaled each night will lose twenty-five to thirty percent of their body condition, due to overcrowding and tramping back-and-forth to available grazing. In contrast, if they are allowed to sleep where grazing is available, perhaps predators will kill some of them.

Human attacks also persisted. In the early 1940s a headman from Sesfontein, a major settlement and gathering point, was killed by lions (Green 1952:42). In 2017, one elder man remembered his own fearful encounter, “when I was a young man, I was with a man who was attacked by a lion.” Another shared this story,

One man was looking for honey…He went into the mountains and was camping there and the lions killed him there. The people around here were looking for him, looking for him…My father went into the mountains to get some honey also and saw the bones [of the man] lying there and brought the bones back so they could bury the bones. This is when I was a very young person – my father told me about this.
The disparate outcomes between white farmlands and Kaokoveld indicate the important role of government intervention in affecting the outcomes of human-lion conflict. Yet, the government’s dismissal of African pastoralists’ struggles also served state goals. Livestock death constrained livelihoods. Because native reserves were intended to serve as reservoirs of cheap labor for white-owned mines and farms, dead livestock helped maintain a prostrate African peasantry. Elsewhere I have shown colonial era policies focused on livestock movements and predator eradication were interwoven with state economic concerns (Anonymous 2020a, 2020b). Kaokoveld pastoralists’ success in maintaining large herds frustrated government attempts to recruit workers from the region (van Wolputte 2004:157). The state’s use of veterinary and environmental means to keep Kaokoveld pastoralists impoverished during the colonial era have been examined by Bollig (1998), and by van Wolputte (2004), who has interpreted ovaHerero livestock ownership and mobility during this period as a form of political disobedience. Furthermore, livestock, particularly cattle, played – and still play – an important cultural role among the ovaHerero (Crandall 1998; Jacobsohn 1998). More than simply commodities rendering access to milk, meat, and cash, cattle embody nonmaterial values and historical continuities. When lions kill livestock, they can rupture trans-generational cultural continuities. Because they also threaten human lives, lions are still seen as particularly dangerous and destructive (Anonymous 2019).

The difficulties Kaokoveld pastoralists faced from predators were generated by livestock ownership and the central role of livestock in maintaining livelihoods. In this way Kaokoveld pastoralists were similar to white farmers. The critical difference, one entrenching human-lion conflict as an ongoing challenge in Kaokoveld, were the unequal government policies exacerbating the challenges of human-lion conflict. Whether these policies were expressly racist in their design, they were racist in their effects. Unsupported and prohibited by government from departing Kaokoveld due to policies of racialized isolation (GRSA 1964), and unable to make use of modern firearms or poisons, pastoralists’ antagonistic feelings towards lions persisted, were unable to eradicate lions. yielding challenges for conservationists in coming generations. Near the Etosha border in the late 1960s, one government official was requested by his ovaHerero companions to shoot a group of nearby lions. Lecturing the ovaHerero on the virtues of wildlife conservation was no use: “‘Lions are not animals,’ they insisted. ‘They are the devil’s children and should be killed wherever they are’” (Owen-Smith 2010:135).

Conservation in Etosha

During the colonial period access to northern ‘native’ areas was tightly regulated for purposes of controlling human and livestock movements (Miescher 2012). With the vast majority of white areas having been converted to private rangelands, Etosha became one of the few places where white Namibians could view lions. Following the 1930s karakul sheep boom and World War II, Namibia’s white economy was on stronger footing, giving birth to a robust domestic tourism market (Bravenboer 2007; Wellington 1967:126).

During the 1940s Etosha lions increasingly became a tourist attraction (NAN NAO 066 1947). By the 1950s, Etosha was becoming a haven for wildlife. At this point lion conservation in northwest Namibia begins in earnest: human-lion interactions were increasingly mediated by state officials aiming to conserve, not eradicate, lions. Within the reserve lions became objects of official responsibility and tourists’ affection. Tourism and wildlife management during this period was ad-hoc, leading to a variety of frightening, often surprising, and occasionally humorous interactions between tourists and lions. Accommodations were rough-and-ready, including camping at waterholes shared with wildlife. One time two elderly women were confined to a restroom for hours as a lion pride encircled the structure. When a lioness fell into a half-filled swimming pool, a quick-thinking witness threw her a dry stump, which she clung to while the pool was refilled so she could climb out. It is not recorded where staff hid themselves once she exited. At the Leeubron (‘lion source’) waterhole, when an emaciated lioness, dubbed ‘Isabella’ by staff, was struggling to provision five cubs, Etosha staff routinely provided the group with wildebeest (Connochaetes taurinus) and plains zebra (Equus quagga) carcasses. Routinised feedings attracted other lions and the ‘lion restaurant’ became a tourist attraction (de la Bat 1982:16).

The provisioning of ‘Isabella’ demonstrates a type of care for individual animal welfare directed from humans to lions. ‘Isabella’ and a pride male named ‘Castor’ were the first Etosha lions known to be
given names – a practice that became increasingly common. Previously, predators only entered into human records as individuals following violent encounters with humans. With the rise of conservation, lions given individual identities by people became durable historical figures rather than generic members of their species (Maglen 2018). Human-animal historian Etienne Benson has shown the naming of animals is associated with a set of ethical claims concerning their individual status and sentence (2016). From fearsome pest to cosseted individuals, human-lion relationships in the Etosha region transformed dramatically in fewer than thirty years.

Lions in the park became further separated from white farmers and African pastoralists due to colony-wide government policies. In 1948, a conservative white nationalist government came to power in South Africa and began implementing a decades-long series of racialized legislation, known as apartheid, that also affected human-wildlife interactions in Namibia. By simplifying, arranging, classifying, and ordering its human subjects and environments, the apartheid government sought to creation what political scientist James Scott terms a “legible” state (1998). This process was implemented following the recommendations of the so-called “Odendaal Plan,” which was intended by apartheid planners to spatially organize Namibia upon ‘rational’ planning principles (GRSA 1964; Anonymous in press). This included separating Etosha and its wildlife from the surrounding landscape by enclosing Etosha – effectively keeping wildlife inside and livestock outside (Miescher 2012:159-68). The similarities in the apartheid government’s confinement of Africans and wildlife are evident (Brown 2002). Both took place with the support of white settlers who overwhelmingly stood on the side of colonial authority (Miescher 2012:152).

The effects of the Odendaal Plan codified a new type of space for lions: one permanently free of livestock and the antagonistic human-lion interactions that came with their presence.

The effects of the Odendaal Plan coalesced and exacerbated transformations in human-lion relationships in Etosha and the surrounding areas. The creation of a fencing separating Etosha from neighboring rangelands delineated differing human-lion interactions within the park and beyond its borders. As Etosha’s borders were fenced, first along its southern boundary in 1961-63 to control a foot-and-mouth outbreak, then completely in 1973 by 850 km of ‘game-proof’ fence, herbivores could no longer migrate beyond the park, as many historically had (Ebedes 1976). This had unanticipated benefits for lions. Prey species’ confinement coincided with increased lion recruitment. In contrast, lions exploited gaps in Etosha’s fences, frustrating neighboring farmers’ efforts to keep livestock safe. During this period, lion numbers in Etosha rose from an estimated 200 in 1953, to approximately 500 at the end of the 1970s (Berry 1987). Henceforth the park would serve as the source of lions in the region.

Disappearance in Kaokoveld

Following the Odendaal Plan’s policies of racialized isolation, Kaokoveld remained beyond the purview of government conservationists. Beginning in the 1960s, Kaokoveld existed on the edges of a brutal and active war zone. As a result, little quantifiable information is available concerning the fortunes of lions there. Official records on wildlife are not widely available from the 1960s-80, no systematic wildlife surveys were performed until 1976, and no government conservationists were posted to Kaokoveld until 1980. However, it is known the accelerating war for independence led to an influx of firearms and industrial poisons previously prohibited to Africans, primarily from South African military personnel hoping to curry favor with local leaders (Owen-Smith 2010:106; van Wolputte 2004). As a result, wildlife in Kaokoveld came under increasing persecution, both from residents seeking provisions, and elite government officials using the region for illegal sport hunting (GRSA 1979; Owen-Smith 2010:189).

Information concerning Kaokoveld lions during this period comes from scattered accounts and anecdotes, such as unfounded rumors that lions there were “maneless and generally grey in colour” (Tinley 1971:16). A key witness to this era was government official Garth Owen-Smith, who was posted to Kaokoveld from 1968-70. Owen-Smith’s anecdotal accounts include finding four desiccated lion carcasses in the dunes near Cape Fria, and records of locals’ encounters with lions around northern villages and water points. In such accounts lions primarily play the role of fearsome pests, frequently attacking livestock. They were in-turn harassed and killed by residents. Rare for this time, Owen-Smith, a white South African, sought collegiality, respect, and friendship with Kaokoveld’s African residents. This provided clues to the
persistence of lions which otherwise would have gone unrecorded. In 1971, Owen-Smith estimated approximately forty lions residing in Kaokoveld with perhaps a few additional migrants from Etosha (Owen-Smith 1971:50-2). Thought to have been formerly widespread, by the 1980s lions were considered greatly reduced by firearms and poison (Hall-Martin et al. 1988:32). A dramatic reduction of predators from the 1970-90s is evident in the transformation of herding practices. Bollig has shown methods of “loose herding,” where livestock are escorted in the general direction of grazing and left to return home at night, developed during this period as a consequence of decreased danger from predators (2020:268 ft. 26).

The first comprehensive account of Kaokoveld lions was given by PJ ‘Slang’ Viljoen. Finding lions were nowhere plentiful, Viljoen conveys a population poised to disappear,

The status of the lion in Kaoko[veld] is uncertain because it is intensively hunted down. Until recently, the lions were also killed by poison. Only in the inhospitable, uninhabited areas will the lions survive for a while, but with the opening of the area for four-wheel drive vehicles, these lions are no longer safe either. (1980:349, translation mine)

Viljoen’s pessimism was prescient. Beginning in 1978/9 drought struck Kaokoveld. This resulted in widespread livestock and wildlife starvation. Increased numbers of weak prey and carcasses temporarily benefited lions. However, in the coming years prey species were decimated: mountain zebra numbers declined by eighty-four percent, oryx by eighty-seven percent, and springbok by ninety-six percent. Plains zebra disappeared entirely. Livestock experienced a similar decline (Owen-Smith 2010:364-6). Among Himba residents the drought was known as “Otjita” (the dying): a period defined by “a complete breakdown of herding” and “outright starvation and social disintegration,” signaling disaster for people and livestock (Bollig 2020:227). In contrast to white farmers who continued receiving various forms of state assistance, what little Kaokoveld pastoralists received during apartheid usually took the form of boreholes drilled to water livestock (Bollig 2020:151-236; Botha 2005). The geographic spread of boreholes likely worsened the effects of drought. During the 1970s pastoralists exploited rangelands previously lacking available water. This expanded the reach and size of livestock herds. When the rains failed in successive years no grass remained in the newly exploited rangelands. As a result, herds dwindled and starvation ensued.10

The benefits of drought for lions were short-lived. As prey numbers declined lions began starving (Reardon 1986:31). The net effect was lions and other predators increasingly troubled residents; exacerbating state policies keeping people hungry and poor. As Rangarajan has shown, “carnivores may not make social distinctions, but the uneven spread of wealth made some people far more risk-prone than others” (2013:120). In one community a lioness entered the schoolgrounds while children were present. Nearby, fourteen lions killed 96 sheep and seventeen goats in one evening (Owen-Smith 2010:352-3). In early 1982, the last known human fatality occurred when a starving lioness killed a young child in her home. The lioness was shot by military personnel from a nearby fort, while still consuming the girl’s body.11

The effects of drought, combined with the influx of firearms and poison, likely led to locals killing lions in unprecedented numbers. Simultaneously, high numbers of lions were shot by professional hunters. During the drought no fewer than 76 lions were killed in the southern part of the region alone (Reardon 1986:34). By 1986 it was estimated only twenty to thirty lions inhabited Kaokoveld (Reardon 1986:40; Stander 1990). By 1991 conservationists believed none did (Stander 2018:46). In contrast, lion numbers in Etosha declined, from an estimated 500 in 1980 to 200 in 1986, but quickly rebounded to an estimated 309 by 1989 (Berry 1987; Stander 1990, 1991).
Human-Lion Legacies of the Colonial Era

Following independence, human-lion relationships in northwest Namibia remain largely defined by the threat lions pose to livestock. Towards the end of the 1990s a population of approximately twenty lions was discovered in Kaokoveld's rugged Kharokhoab mountains. Augmented by lions dispersing from Etosha, this remnant population recolonized southern Kaokoveld rangelands under the watchful gaze of increasingly powerful government, NGO, and local conservation partnerships. Initially this growing population primarily inhabited a government concession area free of livestock herds, thus limiting human-lion conflict (Stander 2018).

In the new millennium, northwest Namibia became a wellspring of community-based conservation and lion numbers grew. From 2000 to 2015 the estimated lion population increased from 39 to 180 (Stander 2001; NMET 2017). The rising number and growing range of lions has generated heightened levels of human-lion conflict leading to causing negative outcomes for lions and pastoralists. From 2000-2015, eighty percent of known lion (non-cub) mortalities, and one hundred percent of known sub-adult mortalities were due to lions being killed by people (NMET 2017). Responding to increasing human-lion conflict, pastoralists still voice complaints reminiscent of their forebearers. Said one pastoralist, “The problem of the lion...lions come and kill someone’s cattle that they are living from. Living from the milk or whatever. That is when people are getting angry.”

For those neighboring Etosha, the park is considered a source of conflict. Said one pastoralist living west of Etosha in 2017, “the lions that are coming into the kraal [and killing livestock] are the ones from Etosha. Because they are staying in[side] the fence and are not afraid of people." Such challenges are still exacerbated by what many locals consider asymmetric government and NGO responses to livestock and lion death: “The government is responding [to livestock deaths] by sending people, maybe one car. But if there is a lion injured, then they will maybe send eight cars.” Anthropologist John Friedman (2011) has shown for many Kaokoveld residents the government since independence still represents a form of personal and livelihood repression. Perceptions of human-lion conflict among pastoralists are consonant with such feelings of repression.
Because lions have been eradicated from white farmlands, the burden of conserving Namibia’s lions falls disproportionately on residents of communal land (Owen-Smith 2017b; Anonymous 2020c:183-214). This affects local responses to lions and human-lion interactions,

In the olden days my father and the people living here were killing lions. And so the lions were stealing [livestock and running] because the lion know, “if I kill something, they will track me.” But now, since independence, lions are taking out of the kraal and they are lying there and they are eating. 15

The return of human-lion conflict combines with the legacies of racialized colonial policies to constrain and undermine pastoral livelihoods. Social and economic prospects for residents are limited. Within the Sesfontein constituency, encompassing the majority of contemporary ‘core-lion range’ in the northwest, forty percent of residents live on USD1 per day or less, while twenty-three percent live on USD0.73 per day or less. In contrast, within the Outjo and Kamanjab constituencies south of Etosha, eighteen and nineteen percent of people live on USD1 per day or less, respectively, while eight and nine percent live on USD0.73 per day or less (NMET 2017:13; NNPC 2012). The Kunene Region (encompassing present-day Kaokoveld) maintains Namibia’s highest primary school drop-out rates and only fifty-five percent of residents complete primary school by age seventeen (UNICEF 2013). Though these unequal social welfare outcomes are not driven by the challenges of human-lion conflict, they indicate the ongoing difficulties of local communities in overcoming some of the most damaging legacies of apartheid. Additionally, since 2011 drought is again dramatically constraining pastoral livelihoods in Kunene. Lions are causing nearly one-fifth of average household cattle losses during the drought (Anonymous 2019). Another pastoralist states his difficulties succinctly, “I am becoming poor because of lions.” 16

Conclusion
The contemporary geography of lions in northwest Namibia is largely the result of colonial era policies which supported white supremacy. For Africans in Kaokoveld and Namibia’s underclass of white settlers, historical interactions at the human-livestock-lion nexus presented similar livelihood challenges, but had different effects, primarily due to racialized government interventions. Echoing Swanepoel’s findings concerning human-jackal interactions in southern Namibia, human-lion interactions have been and remain “biopolitical...in which the logics of power are shown to be manifest in...animal governance and killing” (2016:129). The key difference being the role of the state in resolving or heightening human-lion tensions by enabling or constraining human agency.

Livestock have been a critical factor in this history. Human-livestock-lion interactions are almost universally combative, even violent, experiences for all three groups of actors. But when one of the three is removed the antagonism is dramatically lessened. On white farmland human-lion conflict was relieved by killing lions; in Etosha by prohibiting livestock from the park. When examining human-livestock-lion interactions, one can fruitfully interrogate the state’s role to more clearly interpret the economic and animal survival outcomes. Within northwest Namibia (and likely beyond) human-livestock-(state)-lion interactions continue to reproduce certain social and economic inequalities, including the marginalization of African pastoralists and forms of white supremacy.

Human-lion conflict remains a potential and actual space where people occupying different social and economic positions are more or less able to secure their livelihoods. As such it remains a space where new efforts can be made to transform human-lion interactions. Initiated in 2017, the Lion Rangers program, is a community-centered effort to harness lion conservation to local development efforts with the expressed goal of securing the lion population without sacrificing pastoral livelihoods (Lion Rangers 2021). In this way it aims to address a small portion of the social and environmental injustices of the apartheid era.

Lions no longer inhabit white farmlands. The Etosha lion population, recently estimated at 400 individuals, appears secure (unpublished mss). The communal lands of former Kaokoveld are the only spaces in the region where humans, livestock, and lions co-exist. Estimated between 110-137 individuals (Stander 2018:), this lion population has recently become the focus of government and NGO conservation
efforts (NMET 2017). While it is a sad irony of this history that marginalized pastoral communities are increasingly burdened with the responsibility of conserving lions, it is a hopeful lesson that human-lion conflict is responsive to different interventions. Time will tell if the Lion Ranger program can create something new: spaces with humans, livestock, and lions.

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[Anonymous 2020a] Details omitted for double-masked redacted anonymous reviewing.
[Anonymous 2020b] Details omitted for double-masked redacted anonymous reviewing.
[Anonymous 2020c] Details omitted for double-masked redacted anonymous reviewing.
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Notes
1. During the colonial period (1885-1990), Namibia was officially known first as German South West Africa (1885-1915), then South West Africa (1916-1990). In 1968 the United Nations began recognizing the ‘territory’ as Namibia. Only at Independence (21 March 1990) do official South African documents refer to the country as Namibia. I refer to the territory/colony/country as Namibia throughout the paper.

2. Free-ranging is defined as lions inhabiting fenced areas >1,000 km$^2$ in size, or partially fenced areas >500 km$^2$ (IUCN 2018). A lion pride is “any resident lionesses with their cubs, as well as the attending males, which share a pride area in which they interact peacefully” (Schaller 1972:33).


4. Livelihood is defined as “not just what people do in order to make a living, but the resources that provide them with the capability to build a satisfactory living, the risk factors that they must consider in managing their resources, and the institutional and policy context that either helps or hinders them in the pursuit of a viable or improving living” (Ellis & Freeman 2005:2).

5. The Kaokoveld Herero, Himba, and Tjimba generally identify under the inclusive term ovaHerero. A Himba saying states this clearly: ‘omuHimba omuHerero’, a Himba is a Herero (Jacobsohn 1998:17). Differences between these groups became sharpened during the colonial era. For a discussion of the historical relationships between the Herero, Himba, and Tjimba in Kaokoveld, and the central role of livestock, particularly cattle, to each, see: Anonymous 2020b.

6. Sesfontein Pastoralist #10 (at community meeting, Sesfontein, April 10, 2018).


11. Sesfontein Pastoralist #8 (interview, Sesfontein November 25, 2017); Conservancy Leader #3 (interview, Anabeb March 11, 2018) Conservancy Leader #7 (interview, Sesfontein November 26, 2017).


13. Conservancy Leader #7.


16. Data by ethnicity not available.

17. Sesfontein Pastoralist #3 (interview, Sesfontein, December 2, 2017).