

## Jackal and Wolf and other true tales...

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Few South Africans don't know the tales about Jackal and Wolf. Jackal the clever, crafty one that always pull one over on Wolf. Jackal eating the farmer's sheep and Wolf punished when the farmer catches him, while jackal escapes unharmed.

But how many of us knew that these stories are actually based on the truth? A few generations ago it was common for our farmers to refer to hyaenas as "wolves". Even at present, in many areas they talk about "tiere" (tigers) when actually referring to leopards. And this is nothing new... how many of us have thought about Tygerberg been called by that specific name? "Tijger" being the Dutch version of the Afrikaans "tier" (tiger). There were no striped tigers when Jan van Riebeeck first landed in the Cape. But there were many leopards ("tijgers"), lions and hyaenas ("wolwe"). Whether Tygerberg were

christened because of the "spots" on the mountain, or the presence of many leopards, the fact remains that it was probably named after the large spotted cat called *Panthera pardus* by scientists, otherwise known as leopards.

But to return to true tales about Jackal and Wolf.. since the time of Jan van Riebeeck, the new arrivals in Southern Africa already had problems with predators who just did not want to stay away from their livestock. The larger predators, like lions, which can even kill fully-grown cattle, was the first to fall, with the last Cape lion (*Panthera leo melanochaitus*) shot around 1858. An interesting trend can already be seen... larger animals (predators) are more prone to extinction by human hunting than smaller animals. Why would this be? They are easier to hit when shooting, but need a larger caliber weapon, and can be dangerous to hunt. Providing a larger target is thus probably not the best explanation for this trend. No, something else plays a role; ecologically they are higher in the food pyramid. This means that many prey animals are required to sustain one lion. Moreover, the prey animals need to be a certain minimum size to be worthwhile for a lion to hunt. Especially when we take into account how many hunting attempts by lions fail. The natural effect is that we will find less lions per hectare than e.g. jackals or springboks. Even large herbivores like elephants and rhinos need larger ranges per animal in order to find enough food than their smaller family members like hyraxes. And once one start to think in terms of established farms, this means that the same leopard's territory can cover 5 or 6 farms, for example, while the territory of a single jackal pair can easily fit into one farm or part of a farm. This means that one leopard can be caught or shot by any one of five farmers, while the jackal only have to avoid a single farmer in order to survive.

So what does all of this have to do with Jackal and Wolf? The black-backed jackal is not a new problem for livestock farmers. No, already since the 1800's the farmers and the Cape colonial government have tried all kinds of plans to get rid of this rascal. The first and most obvious method was simply hunting. This method already "worked" against lions. But the problem was that jackals became nocturnal wherever they were being hunted. And before the time of using recorded sounds to "call" jackals closer, and having spot lights to find their eyes at night, this also meant that hunting was largely ineffective. And cage traps, while successful against hyaenas, were avoided by the clever jackal. Here we can already see the start of the later well-known tales about the dumb wolf and the crafty jackal. Because in the primitive cage traps with bait, it was the "wolves" (hyaenas)

who were caught every time, while the jackals escaped unharmed. Even using dogs, hunting was not effective. In the 1800's British officers introduced jackal hunting with horses and dogs, similar to the English fox hunt, to the Cape. Although it became relatively popular, it did not have any significant effect on jackal numbers. As an example, in Wolmaranstad a great hunt with about 1000 men was organized (200 horse riders, 200 of the best shots and 600 chasers)... the result? Just 31 jackals killed.

When cage traps did not work, more and more farmers started using poison to try and control their problem. In the late 1800's "poison clubs" were even founded for farmers to exchange ideas and plans for the use of poison. "Wolf poison" (Strychnine) was for long one of the favourite weapons against predators. But as the name shows, while effective against hyaenas, it failed against jackals. But in the process, not only hyaenas, but also vultures were basically extirpated on farms. By the early 1900's most poison clubs disbanded, primarily because farmers realized that it was not working. Additionally they were seeing the negative side-effects, like the extirpation of beneficial species. By this time already, many stories about the clever (crafty) jackal were doing the rounds... how female jackals seduced male dogs to mate instead of killing them; how jackals roll on their backs and play, only to grab the curious sheep as it comes close to look; how they would run around a bush several times before taking off in a different direction in order to confuse following dogs, or walk through water; how they cleverly avoid poison or traps; how they would pretend to be dead or hurt when cornered, only to suddenly flee away as the hunter or dogs hesitate when getting close. I cannot help but think of the old Jackal and Wolf tale, where they meet after Wolf had had a hiding from the farmer's whip, and Jackal then complains so much about his own imaginary pains, that Wolf carries him all way the home too! In the same period the government started paying bounties for jackal tails and predator skins. However, jackal hunters sometimes hunted only with male dogs, knowing full well that the dogs were unlikely to kill female jackals, thus ensuring that they would have jackals to hunt again in the next year. Job security! But farmers also started seeing other negative effects from hunting jackals, e.g. the mouse population outbreaks around the Kalahari edges, destroying the veld, especially grass roots, after a fall in jackal numbers. Unfortunately, the bounty system not only resulted in various abuses, but by 1904 a commission found that black-backed jackals had even spread to areas where they never occurred before. Does this sound familiar?

Because of all these issues with jackals, most farmers, since the days of Jan van Riebeeck were forced to use kraals in order to protect their

livestock; the same method used by the indigenous peoples for centuries already. The Khoikhoi and the older trek-farmers were semi-nomadic. Like game in a natural ecosystem they would follow the rains or trek seasonally between winter and summer rainfall areas (or between hard veld and sandy veld). Especially the lack of permanent drinking water caused seasonal treks with their livestock to be part of the lifestyle of most farmers in the drier part of Southern Africa. There was one important change... through the encouragement of first the British and later the Union government, the trek-farmers were becoming increasingly sedentary. And the forced kraaling of livestock because of predators, primarily jackals, caused trampling and an appreciable decline in veld conditions. To a large extent, the introduction of jackal-proof fencing was driven by the desire to utilise grazing better and to prevent trampling, by the government and on established farms. Of course, camps also enabled rotational grazing without the need for farmers to trek long distances with their livestock.

But government subsidies for jackal-proof fencing, together with hunting dogs, finally meant a setback for jackals as well as the end of an era where periodic large migrations by springbok (the "trekbokke") still occurred. Springbok numbers plummeted... and it was baby springbok that had provided the most important source of protein baby jackals in springtime. In some districts, the black-backed jackal was almost completely eradicated, only to see the caracal take its place. But it required constant inputs, maintenance of jackal-proof fences, gin traps, and often a permanent hunter, paid by the government, to reach this situation. Since then, we have organizations like Jaracal and various private hunters who hunt especially jackals, for their own pleasure (and the farmer's money) trying to get the same results. But just as in the time when the government paid bounties for jackal tails, it is naturally not to the hunters' advantage that all jackals on farms are eradicated.

But is it truly sustainable? Statistics from the official predator-hunter in the Ceres Karoo, have shown that those farms on which the most predators (jackals and caracals) were killed in a certain year, had the most livestock losses to predators in the following year. And from the current situation on small livestock farms, it seems that Jackal is having the last laugh. Wolf, and most of his natural enemies, like Leopard, had already lost to the farmer, while Jackal still continues. He no longer has the privilege to share in their meals for free and has to hunt for his own food. But he also no longer have to live in fear that leopard might kill him or keep his numbers down. And although there are no longer large herds of springbok to eat, the farmer has

provided enough fat and stupid sheep walking all over without even a herder. Water is provided throughout the year. And of course, if mom or dad Jackal maybe meet their end prematurely by bullet, it means that all the teenagers can set up house simultaneously without the need to look for their own houses or getting permission from their parents. The farmer mostly still does not know how to keep Jackal away from his sheep. The chances that we will ever return to a system where the government will subsidise jackal-proof fencing and jackal hunters, are almost non-existent. This means that the only solution will be from farmers making their own plans to outsmart Jackal. And this can only happen if farmers learn from the lessons of the past, realize that extermination efforts are not sustainable and in the end did not really work either. New farming methods like high stocking rates in small electrified camps, shifted every so often, in order to mimic the migratory springbok of the past, together with age-old methods like livestock guarding dogs and herders, might not only improve the grazing, but also result in less depredation losses. And Jackal? He will once again have to make do with mice, hare, duikers and steenbuck, and if lucky, springbok young for his children in spring.

**With credit to:**

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