# **Poaching**

**Poaching** has been defined as the illegal <u>hunting</u> or capturing of wild <u>animals</u>, usually associated with <u>land use rights</u>. [1][2] Poaching was once performed by impoverished <u>peasants</u> for subsistence purposes and a supplement for meager diets. [3] It was set against the hunting privileges of nobility and territorial rulers. [4]

Since the 1980s, the term "poaching" has also been used to refer to the illegal harvesting of wild plant species. [5][6] In agricultural terms, the term 'poaching' is also applied to the loss of soils or grass by the damaging action of feet of livestock which can affect availability of productive land, water pollution through increased runoff and welfare issues for cattle. [7] Stealing livestock as in cattle raiding classifies as theft, not as poaching. [8]



*The Poacher* by Frédéric Rouge (1867–1950)

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# Legal aspects

In 1998, environmental scientists from the <u>University</u> of <u>Massachusetts Amherst</u> proposed the concept of poaching as an <u>environmental crime</u>, defining any activity as illegal that contravenes the <u>laws</u> and regulations established to protect renewable natural resources including the illegal harvest of wildlife

with the intention of possessing, transporting, consuming or selling it and using its body parts. They considered poaching as one of the most serious threats to the survival of plant and animal populations. Wildlife biologists and conservationists consider poaching to have a detrimental effect on biodiversity both within and outside protected areas as wildlife populations decline, species are depleted locally, and the functionality of ecosystems is disturbed.

#### **Continental Europe**

Austria and Germany refer to poaching not as theft, but as intrusion in third party hunting rights. [11] While ancient Germanic law allowed any free man, including peasants, to hunt, especially on the commons, Roman law restricted hunting to the rulers. In Medieval Europe feudal territory rulers from the king downward tried to enforce exclusive rights of the nobility to hunt and fish on the lands they ruled. Poaching was deemed a serious crime punishable by imprisonment, but the enforcement was comparably weak until the 16th century. Peasants were still allowed to continue small game hunting, but the right of the nobility to hunt was restricted in the 16th century and transferred to land ownership. The low quality of guns made it necessary to approach to the game as close as 30 m (98 ft). For example, poachers in the Salzburg region then were men around 30 years of age, not yet married and usually alone on their illegal trade. [12]

The development of modern hunting rights is closely connected to the comparably modern idea of exclusive private property of land. In the 17th and 18th centuries, the restrictions on hunting and shooting rights on private property were being enforced by gamekeepers and foresters. They denied shared usages of forests, e.g. resin collection and wood pasture and the peasant's right to hunt and fish. However, comparably easy access to rifles increasingly allowed peasants and servants to poach by end of the 18th century. [13] Hunting was used



The Poacher, 1916 sketch by Tom Thomson, Art Gallery of Ontario, Toronto



End of the poacher, illustration based on a painting by August Dieffenbacher, 1894

in the 18th century as a theatrical demonstration of the aristocratic rule of the land and had a strong impact on land use patterns as well. Poaching in so far interfered not only with property rights but clashed symbolically with the power of the nobility. During the years between 1830 and 1848 poaching and poaching related deaths increased in Bavaria. The German revolutions of 1848–49 were interpreted as a general allowance for poaching in Bavaria. The reform of hunting law in 1849 restricted legal hunting to rich land owners and members of the bourgeoisie able to pay hunting fees; this led to disappointment among the general public, who continued to view poachers favourably. Some of the frontier regions, where smuggling was important, showed especially strong resistance to this development. In 1849, the Bavarian military forces were asked to occupy a number of municipalities on the frontier with Austria. Both in Wallgau (today a part of Garmisch-Partenkirchen) and in Lackenhäuser in the Bavarian forest each household had to feed and accommodate one soldier for a month as part of a military mission to quell the uproar. The people of Lackenhäuser had several skirmishes with Austrian foresters and military that started due to poached deer. The well-armed people set against the representatives of the state were known as bold poachers (kecke Wilderer). Some poachers and their violent deaths, like Matthias Klostermayr (1736–1771), Georg Jennerwein (1848–

1877) and Pius Walder (1952–1982) gained notoriety and had a strong cultural impact till the present. Poaching was being used then as a dare. It had a certain erotic connotation, as in Franz Schubert's Hunter's love song, (1828, Schubert Thematic Catalogue 909). The lyrics of Franz von Schobers connected unlimited hunting with the pursuit of love. Further poaching related legends and stories include the 1821 opera Freischütz till Wolfgang Franz von Kobell's 1871 story about the Brandner Kasper, a Tegernsee locksmith and poacher achieving a special deal with the grim reaper.

While poachers had strong local support until the early 20th century, Walder's case showed a significant change in attitudes. Urban citizens still had some sympathy for the <u>hillbilly</u> rebel, while the local community were much less in favor. [11]

### **United Kingdom**

Poaching, like smuggling, has a long counter-cultural history. The verb poach is derived from the Middle English word pocchen literally meaning bagged, enclosed in a bag. [16][17] Poaching was dispassionately reported for England in "Pleas of the Forest", transgressions of the rigid Anglo-Norman Forest Law. [18] William the Conqueror, who was a great lover of hunting, established and enforced a system of forest law. This operated outside the common law, and served to protect game animals and their forest habitat from hunting by the common people of England and reserved hunting rights for the new French-speaking Anglo-Norman aristocracy. Henceforth hunting of game in royal forests by commoners or in other words poaching, was invariably punishable by death by hanging. In 1087, a poem called "The Rime of King William" contained in the Peterborough Chronicle, expressed English indignation at the severe new laws. Poaching was romanticised in literature from the time of the ballads of Robin Hood, as an aspect of the "greenwood" of Merry England; in one tale, Robin Hood is depicted as offering King Richard the Lion Heart venison from deer illegally hunted in the Sherwood Forest, the King overlooking the fact that this hunting was a capital offence. The widespread acceptance of this common criminal activity is encapsulated in the observation Non est inquirendum, unde venit



Grave of a poacher in Schliersee, quoting the first stanza of the Jennerwein song. Now and then, poached game is being placed on the grave to commemorate 'Girgl'.



Marterl at the Riederstein, near Baumgartenschneid, Tegernsee. The remains of a poacher, who never returned from a hunting expedition in 1861, were found at the site in 1897. [10]

venison ("It is not to be inquired, whence comes the venison"), made by <u>Guillaume Budé</u> in his *Traitte de la vénerie*. However, the English nobility and land owners were in the long term extremely successful in enforcing the modern concept of property, expressed e.g. in the <u>enclosures</u> of common land and later in the <u>Highland Clearances</u>, which were both <u>forced displacement</u> of people from traditional land tenancies and erstwhile common land. The 19th century saw the rise of acts of legislation, such as the <u>Night Poaching Act 1828</u> and <u>Game Act 1831</u> in the United Kingdom, and various laws elsewhere.

#### **United States**

In North America, the blatant defiance of the laws by poachers escalated to armed conflicts with law authorities, including the Oyster Wars of the Chesapeake Bay, and the joint US-British Bering Sea Anti-Poaching Operations of 1891 over the hunting of seals.

Violations of <u>hunting laws</u> and regulations concerning <u>wildlife</u> management, local or international <u>wildlife</u> conservation schemes constitute wildlife <u>crimes</u> that are typically punishable. The following violations and offenses are considered acts of poaching in the USA:

- Hunting, killing or collecting wildlife that is listed as <u>endangered</u> by <u>IUCN</u> and protected by law such as the <u>Endangered Species</u>
   Act, the <u>Migratory Bird Treaty Act of 1918</u> and international treaties such as CITES.
- Fishing and hunting without a license. [21][22]
- Capturing wildlife outside legal hours and outside the <u>hunting</u> season; [20][21] usually the <u>breeding season</u> is declared as the closed season during which wildlife is protected by law.
- Prohibited use of machine guns, poison, explosives, snare traps, nets and pitfall traps. [20]
- Other offenses of incorrect weaponry, such as the use of cartridge rifles in muzzleloader or archery season or in shotgunonly areas, or the killing of big game animals with insufficient firepower e.g. .22 Long Rifle rounds.
- Prohibited use of <u>baiting</u> with food, decoys or recorded calls in order to increase chances for shooting wildlife.
- Hunting from a moving <u>vehicle</u> or <u>aircraft</u>.[20]
- Scouting game animals from an aircraft.
- Shining <u>deer</u> with a <u>spotlight</u> at night to impair its natural defenses and thus facilitate an easy kill is considered <u>animal abuse</u>. [23] This hunting method is illegal in <u>California</u>, <u>Virginia</u>, <u>Connecticut</u>, Florida, Michigan and Tennessee. [20]
- Taking wildlife on land that is restricted, owned by or licensed to somebody else.
- The animal or plant has been tagged by a researcher.
- Shooting an animal in a confined area (canned hunting).

#### **Africa**

Stephen Corry, director of the human-rights group <u>Survival International</u>, has argued that the term "poaching" has at times been used to criminalize the traditional subsistence techniques of <u>indigenous peoples</u> and bar them from hunting on their ancestral lands, when these lands are declared wildlife-only zones. Corry argues that parks such as the <u>Central Kalahari Game Reserve</u> are managed for the benefit of foreign tourists and safari groups, at the expense of the livelihoods of tribal peoples such as the Kalahari bushmen.





Brass plaque on door at <u>Tremedda</u> farm dating to 1868, warning that poachers shall be shot on first sight



Lady Baltimore, a bald eagle in Alaska survived a poaching attempt in the Juneau Raptor Center mew on 15 August 2015

Sociological and criminological research on poaching indicates that in North America people poach for commercial gain, home consumption, trophies, pleasure and thrill in killing wildlife, or because they disagree with certain hunting regulations, claim a traditional right to hunt, or have negative dispositions toward legal authority. In rural areas of the United States, the key motives for poaching are poverty. Interviews conducted with 41 poachers in the Atchafalaya River basin in Louisiana revealed that 37 of them hunt to provide food for themselves and their families; 11 stated that poaching is part of their personal or cultural history; nine earn money from the sale of poached game to support their families; eight feel exhilarated and thrilled by outsmarting game wardens.

In <u>African</u> rural areas, the key motives for poaching are the lack of employment opportunities and a limited potential for <u>agriculture</u> and <u>livestock production</u>. Poor people rely on <u>natural resources</u> for their survival and generate cash income through the sale of <u>bushmeat</u>, which attracts high prices in urban centres. Body parts of wildlife are also in demand for <u>traditional medicine</u> and ceremonies. The existence of an <u>international market</u> for poached wildlife implies that well-organised gangs of professional poachers enter vulnerable areas to hunt, and <u>crime syndicates</u> organise the trafficking of wildlife body parts through a complex interlinking network to markets outside the respective countries of origin. Armed conflict in Africa has been linked to intensified poaching and wildlife declines within protected areas, likely reflecting the disruption of traditional livelihoods, which causes people to seek alternative food sources.

Results of an interview survey conducted in several villages in Tanzania indicate that one of the major reasons of poaching is for consumption and sale of <u>bushmeat</u>. Usually, bushmeat is considered a subset of poaching due to the hunting of animals regardless of the laws that conserve certain species of animals. Many families consume more bushmeat if there are no alternative sources of protein available such as fish. The further away the families were from the reserve, the less likely they were to illegally hunt wildlife for bushmeat. They were more likely to hunt for bushmeat right before the harvest season and during heavy rains, as before the harvest season, there is not much agricultural work and heavy rainfall obscures human tracks, making it easier for poachers to get away with their crimes. [31]

Poverty seems to be a large impetus to cause people to poach, something that affects both residents in Africa and Asia. For example, in Thailand, there are anecdotal accounts of the desire for a better life for children, which drive rural poachers to take the risk of poaching even though they dislike exploiting the wildlife. [32]

Another major cause of poaching is due to the cultural high demand of wildlife products, such as ivory, that are seen as symbols of status and wealth in China. According to Joseph Vandegrift, China saw an unusual spike in demand for ivory in the twenty-first century due to the economic boom that allowed more middle-class Chinese to have a higher purchasing power that incentivized them to show off their newfound wealth using ivory, a rare commodity since the Han Dynasty. [33]

In China, there are problems with wildlife conservation, specifically relating to tigers. Several authors collaborated on a piece titled "Public attitude toward tiger farming and tiger conservation in Beijing, China", exploring the option of whether it would be a better policy to raise tigers on a farm or put them in a wildlife conservation habitat to preserve the species. Conducting a survey on 1,058 residents of Beijing, China with 381 being university students and the other 677 being regular citizens, they tried to gauge public opinion about tigers and conservation efforts for them. They were asked questions regarding the value of tigers in relations to ecology, science, education, aestheticism, and culture. However, one reason emerged as to why tigers are still highly demanded in illegal trading: culturally, they are still status symbols of wealth for the upper class, and they are still thought to have mysterious medicinal and healthcare effects. [34]

# **Effects of poaching**

The detrimental effects of poaching can include:

- Defaunation of forests: predators, herbivores and fruit-eating vertebrates cannot recover as fast as they are removed from a forest; as their populations decline, the pattern of seed predation and dispersal is altered; tree species with large seeds progressively dominate a forest, while small-seeded plant species become locally extinct. [35]
- Reduction of animal populations in the wild and possible extinction. [36]
- The effective size of protected areas is reduced as poachers use the edges of these areas as open-access resources. [37]
- Wildlife tourism destinations face a negative publicity; those holding a permit for wildlife-based land uses, tourism-based tour and <u>lodging</u> operators lose income; employment opportunities are reduced.



Memorial to rhinos killed by poachers near St Lucia Estuary, South Africa

- Emergence of zoonotic diseases caused by transmission of highly variable retrovirus chains:
  - Outbreaks of the <u>Ebola virus</u> in the <u>Congo Basin</u> and in <u>Gabon</u> in the 1990s have been associated with the butchering of apes and consumption of their meat. [38]
  - The outbreak of <u>SARS</u> in <u>Hong Kong</u> is attributed to contact with and consumption of meat from <u>masked palm civets</u>, <u>raccoon dogs</u>, <u>Chinese ferret-badgers</u> and other small carnivores that are available in southern Chinese wildlife markets. [39]
  - Bushmeat hunters in <u>Central Africa</u> infected with the <u>human T-lymphotropic virus</u> were closely exposed to wild primates.
  - Results of research on wild <u>central chimpanzees</u> in <u>Cameroon</u> indicate that they are naturally infected with the <u>simian foamy virus</u> and constitute a reservoir of <u>HIV-1</u>, a precursor of the acquired immunodeficiency syndrome in humans.

### **Products**

The body parts of many animals, such as <u>tigers</u> and <u>rhinoceroses</u>, are <u>traditionally believed</u> in some cultures to have certain positive effects on the human body, including increasing virility and curing <u>cancer</u>. These parts are sold in areas where these beliefs are practiced – mostly Asian countries particularly <u>Vietnam</u> and <u>China</u> – on the black market. [42] Such <u>alternative medicial</u> beliefs are <u>pseudoscientific</u> and are not <u>supported</u> by <u>evidence-based medicine</u>. [43][44]

Traditional Chinese medicine often incorporates ingredients from all parts of plants, the leaf, stem, flower, root, and also ingredients from animals and minerals. The use of parts of endangered species (such as seahorses, rhinoceros horns, binturong, pangolin scales and tiger bones and claws) has created controversy and resulted in a black market of poachers. [45][46][47] Deep-seated cultural beliefs in the



A <u>seashell</u> vendor in <u>Tanzania</u> sells seashells to tourists, seashells which have been taken from the sea alive, killing the animal inside.

potency of tiger parts are so prevalent across China and other east Asian countries that laws protecting

even critically endangered species such as the <u>Sumatran tiger</u> fail to stop the display and sale of these items in open markets, according to a 2008 report from TRAFFIC. Popular "medicinal" tiger parts from poached animals include tiger genitals, culturally believed to improve virility, and tiger eyes.

Rhino populations face extinction because of demand in Asia (for traditional medicine and as a luxury item) and in the Middle East (where horns are used for decoration). A sharp surge in demand for rhino horn in Vietnam was attributed to rumors that the horn cured cancer, even though the rumor has no basis in science. Recent prices for a kilo of crushed rhino horn have gone for as much as \$60,000, more expensive than a kilo of gold. Vietnam is the only nation which mass-produces bowls made for grinding rhino horn.

<u>Ivory</u>, which is a natural material of several animals, plays a large part in the trade of illegal animal materials and poaching. Ivory is a material used in creating art objects and jewelry where the <u>ivory</u> is carved with designs. <u>China</u> is a consumer of the ivory trade and accounts for a significant amount of ivory sales. In 2012, <u>The New York Times</u> reported on a large upsurge in ivory poaching, with about 70% of all illegal ivory flowing to China. [54][55]



A vendor selling illegal items at a Chinese market for use in traditional Chinese medicine.

Some of the pieces pictured include parts of animals such as a tiger's paw.

<u>Fur</u> is also a natural material which is sought after by poachers. A <u>Gamsbart</u>, literally *chamois beard*, a tuft of hair traditionally worn as a decoration on <u>trachten</u>-hats in the <u>alpine</u> regions of Austria and <u>Bavaria</u> formerly was worn as a <u>hunting</u> (and poaching) trophy. In the past, it was made exclusively from hair from the chamois' lower neck. [56]

# **Anti-poaching efforts**

There are different anti-poaching efforts around the world.

#### **Africa**

<u>TRAFFIC</u> brings to light many of the poaching areas and trafficking routes and helps to clamp down on the smuggling routes the poachers use to get the ivory to areas of high demand, predominantly Asia. [57]

As many as 35,000 African elephants are slaughtered yearly to feed the demand for their ivory tusks. This ivory then goes on to be used in jewelry, musical instruments, and other trinkets.

Members of the *Rhino Rescue Project* have implemented a technique to combat rhino poaching in <u>South Africa</u> by injecting a mixture of indelible <u>dye</u> and a parasiticide into the animals' horns, which enables tracking of the horns and deters consumption of the horn by purchasers. Since rhino horn is made of <u>keratin</u>, advocates say the procedure is painless for the animal. <u>[59]</u> Another strategy being used to counter rhino poachers in Africa is called <u>RhODIS (http://rhodis.co.za/?cat=9#aboutus)</u>, which is a database that compiles rhino DNA from confiscated horns and other goods that were being illegally traded, as well as DNA recovered from poaching sites. <u>RhODIS (http://rhodis.co.za/?cat=9#aboutus)</u> cross-references the DNA as it searches for matches; if a match is found, it is used to track down the poachers. Africa's Wildlife Trust seeks to protect <u>African elephant</u> populations from poaching activities in Tanzania. Hunting for ivory was banned in 1989, but poaching of elephants continues in many parts

of Africa stricken by economic decline. The <u>International Anti-Poaching Foundation</u> has a structured <u>military</u>-like approach to conservation, employing tactics and technology generally reserved for the battlefield. Founder <u>Damien Mander</u> is an advocate of the use of military equipment and tactics, including <u>Unmanned Aerial Vehicles</u>, for military-style anti-poaching operations. <u>[60][61][62]</u> Such military-style approaches have been criticised for failing to resolve the underlying reasons for poaching, but to neither tackle "the role of global trading networks" nor the continued demand for animal products. Instead, they "result in coercive, unjust and counterproductive approaches to wildlife conservation". <u>[63]</u>

Chengeta Wildlife is an organization that works to equip and train wildlife protection teams and lobbies African governments to adopt anti-poaching campaigns. [64] Jim Nyamu's elephant walks are part of attempts in Kenya to reduce ivory poaching. [65]

In 2013, the Tanzanian Minister of Natural Resources and Tourism urged that poachers be shot on sight in an effort to stop the mass killing of elephants. Since December 2016, anti-poaching police units in Namibia are permitted to return fire on poachers if fired upon. The government of Botswana adopted a 'shoot-to-kill' policy against poachers in 2013 as a "legitimate conservation strategy" and "a necessary evil", which has reduced poaching to the point it is thought to be 'virtually non-existent' in the country, and that neighbouring countries like South Africa should also adopt similar measures in order to save wildlife from extinction. May 2018, the Kenyan government announced that poachers will face the death penalty, as fines and life imprisonment have "not been deterrence enough to curb poaching, hence the proposed stiffer sentence". Human rights organizations oppose the move, but wildlife advocates support it. Save the Rhino, a UK-based wildlife advocacy organization notes that in Kenya, 23 rhinos and 156 elephants were killed by poachers between 2016 and 2017. As of March 2019, the measure is being put on the fast track to implementation by Kenyan lawmakers.

#### **Asia**

Large quantities of ivory are sometimes destroyed as a statement against poaching, a.k.a. "ivory  $\frac{\text{crush}}{\text{In 2013}}$  In 2013 the Philippines were the first country to destroy their national seized ivory stock. [73] In 2014, China followed suit and crushed six tons of ivory as a symbolic statement against poaching. [74][75]

There are two main solutions according to Frederick Chen that would attack the supply side of this poaching problem to reduce its effects: enforcing and enacting more policies and laws for conservation and by encouraging local communities to protect the wildlife around them by giving them more land rights. [34]

Nonetheless, Frederick Chen wrote about two types of effects stemming from demand-side economics: the bandwagon and snob effect. The former deals with people desiring a product due to many other people buying it, while the latter is similar but with one distinct difference: people will clamour to buy something if it denotes wealth that only a few elites could possibly afford. Therefore, the snob effect would offset some of the gains made by anti-poaching laws, regulations, or practices: if a portion of the supply is cut off, the rarity and price of the object would increase, and only a select few would have the desire and purchasing power for it. While approaches to dilute mitigate poaching from a supply-side may not be the best option as people can become more willing to purchase rarer items, especially in countries gaining more wealth and therefore higher demand for illicit goods—Frederick Chen still advocates that we should also focus on exploring ways to reduce the demand for these goods to better stop the problem of poaching. [76] Indeed, there is some evidence that interventions to reduce consumer demand may be

more effective for combatting poaching than continually increased policing to catch poachers. [77] However, almost no groups deploying interventions that attempt to reduce consumer demand evaluate the impact of their actions. [78]

Another solution to alleviate poaching proposed in *Tigers of the World* was about how to implement a multi-lateral strategy that targets different parties to conserve wild tiger populations in general. This multi-lateral approach include working with different agencies to fight and prevent poaching since organized crime syndicates benefit from tiger poaching and trafficking; therefore, there is a need to raise social awareness and implement more protection and investigative techniques. For example, conservation groups raised more awareness amongst park rangers and the local communities to understand the impact of tiger poaching—they achieved this through targeted advertising that would impact the main audience. Targeting advertising using more violent imagery to show the disparity between tigers in nature and as a commodity made a great impact on the general population to combat poaching and indifference towards this problem. The use of spokespeople such as Jackie Chan and other famous Asian actors and models who advocated against poaching also helped the conservation movement for tigers too. [32]

In July 2019, rhino horns encased in plaster were seized in <u>Vietnam</u> that were being trafficked from the <u>United Arab Emirates</u>. Despite the ban on trade since the 1970s, poaching level of rhino horns has risen over the last decade, leading the rhino population into crisis. [79]

Poaching has many causes in both Africa and China. The issue of poaching is not a simple one to solve as traditional methods to counter poaching have not taken into the account the poverty levels that drive some poachers and the lucrative profits made by organized crime syndicates who deal in illegal wildlife trafficking. Conservationists hope the new emerging multi-lateral approach, which would include the public, conservation groups, and the police, will be successful for the future of these animals. [80][81]

#### **United States of America**

Some game wardens have made use of robotic decoy animals placed in high visibility areas to draw out poachers for arrest after the decoys are shot. Decoys with robotics to mimic natural movements are also in use by law enforcement. Marine Monitor radar system watches sensitive marine areas for illicit vessel movement. Marine Monitor radar system watches sensitive marine areas for illicit vessel movement.

### See also

- Cruelty to animals
- Federal and state environmental relations
- Game law
- Game preservation
- Ivory trade
- Tiger poaching in India
- Wildlife trade
- African Vulture Trade
- Environmental crime
- Rhino poaching in Southern Africa
- Anti-Poaching

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