Black Buck Safety

(How they are safe in an ecosystem and why we human should conserve them)

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Abstract – This study has been undertaken to investigate the properties of Black Bucks that make them safe in a forest. As being an herbivorous animal, there is always a threat to their life from their predators as well as from the human beings, but this Antelope manage to survive in a tough competition. So, this paper includes some properties of Black Bucks which makes their population good in a forest. This paper also includes some point that why this Antelope is harmed by humans and why we should save/conserve them.

Keywords- Black Bucks, Antelope, Habitat, Grassland, Herd, Conservation, Pray, Predator, Herbivorous, Grassland.

• Introduction-

Blackbuck, (Antilope cervicapra) an Antelope (family Bovidae) indigenous to the plains of India. Blackbucks are primarily grazers and frequent open short grassland, but they can survive in semi desert where there is sufficient vegetation, and they often frequent nearly barren salt pans. The blackbuck is an antelope of the same tribe (Antilopini) that includes gazelles, the springbok, and the gerenuk. What sets the blackbuck apart from the rest is the adult male’s horns, which are long (50–61 cm [20–24 inches], the record being 71.5 cm [28.1 inches]), spirally twisted, V-shaped, and covered with pronounced ridges nearly to the tips. In addition, there is a striking contrast between the black-and-white coloration of mature male blackbucks and the reddish yellow coloration of females and immature males—a much greater contrast than is found in any of the blackbuck’s tribal relatives. They are active in daytime, tolerate the hottest sun, and seek shade for only two to three hours at midday.

Diet- Primarily grazers, feeding on fresh grass shoots. In winter they sometimes feed on seed pods of Jand (Prosopis cineraria) and Mesquite (P. juliflora).

Habitat- Known to favour open plain areas, but found in semi-arid grassland, open scrub, grassy clearings and open forest.
Male blackbucks weigh 34–45 kg (75–100 pounds) and stand 74–88 cm (29–35 inches) at the shoulder. Females are not much smaller, weighing 31–39 kg (68–86 pounds) and having shoulder heights only a few centimeters shorter than the males. Females also have the same white markings as males, including circular eye patches, mouth, underside, inner legs, and rump patch. The only obvious difference between females and immature males is the presence of horns. Even black males, which are most colorful at the end of the monsoon season, begin to fade in midwinter after the annual molt and turn quite brown by early April when hot weather returns. In fact there is one southern Indian population in which the males never turn black. Nevertheless, male blackbucks are still darker than females and immature males.

- **Study Area-**

The Black Buck Sanctuary [(25°02'46.00"N) (81°54'15.18"E)] is roughly 90KM from the Prayagraj city, which is flanked by Chand Khamaria and Mahuli villages. This is the Trans-Yamuna portion of the Prayagraj district and the first Blackbuck conservation reserve of Uttar Pradesh state. The protected area is supposed to be have an area of 29 Hectare with 300-500 or more number of Blackbucks. The sanctuary is surrounded by the agricultural field. The sanctuary is fenced by the stone walls which prevents the entry of animals and humans to the sanctuary.

- **What makes Black Bucks safe-**

1. **Habitat-** They inhabit grassy plains and thin forest areas with easily available water resources. So in grasslands it become very difficult to spot a Black buck easily by their predators as well as by the human beings. So the grassland provides them a safe site and makes their appearance difficult.

2. **Defense-** Fast running and perceptive eyesight are the important defensive factor for species. Although they lack a strong sense of smell and hearing but a good eyesight helps them to react quickly. Furthermore, study has illustrated that superior bucks defend their territory by ostentatiously peculiar postures such as they uplift snout, draw the ears backward, elevate tail, which is curved upward, making a white spot on buttock more discernible. Species position down the head till adjoining the land and insert the peaks of horns to the adversary. In this position, it can withstand the adversary for 15-25 minutes.

3. **Height-** The blackbuck is a moderately sized antelope. It stands up to 74 to 84 cm (29 to 33 in) high at the shoulder. Females are generally smaller than males and having shoulder heights only a few centimeters shorter than the males. So it provides them additional support to hind easily from the risk.
4. **Speed**- Black buck is a swift animal with top speed of 80KM/H. This high speed makes conditions safe for them as they are quick to escape from the danger. Also the light weight of Blackbuck helps them to run fast. Males are 20-57Kg while females are 20-30Kg.

5. **Living in herd**- Black bucks generally prefer to live in a herd. Group size fluctuates and seems to depend on the availability of forage and the nature of the habitat. Large herd have an edge over smaller ones in that danger can be detected faster, through individual vigilance in the former. A disadvantage for large herd, however, is that travelling require more resources.

- **Why we should conserve Black Buck?**

  - All life on earth is inter-related and interconnected. Living things are dependent upon their physical environment - the land, water and air. Vegetation makes the basic support to the life on earth. They also provide food and habitat for animals, insects and birds. Animal helps in dispersal of seeds of plants, parasites infest plants or animals. As being an herbivorous animal, Black bucks helps to disperse the seeds of various plants through their dung from one place to other.
  
  - **Natural Cleaner**- The crow, the eagle, the hyena, and others who act as scavengers and bacteria aiding in decomposing the dead. They play an important role in returning the organic and inorganic components of dead animals and plants back to nature to be used and reused by subsequent living organisms.

  - **Proper food chain And Food Web**- Black bucks plays an important role in food chain and food web; as being a part of this and helps in energy flow from one trophic level to next.
This is our **Natural Heritage** - A Heritage on which we ourselves among many species of animals depend for our sustenance and survival.

The **Bishnois** of Jodhpur consider the Black Buck to be the reincarnation of their religious Guru Bhagwan Jambeshwar also known as Jambli. They can even sacrifices their life to save this Antelope.

**How Black bucks be saved**-

Avoid construction and concreting, especially in the blackbuck habitat area. This is increasingly reducing the food availability of these animals. This area is heavily built up (about 25% including concreted and paved surfaces) and fragmented due to buildings coming up in key habitat zones dividing them and making them not accessible to animals.

Avoid creating lawns and return the existing lawns back to nature to recover native species.

Protecting trees alone will not help humans as well as other animals who feed on the ground. A habitat is healthy due to various species that exist there in harmony. Protect bio-diversity by protecting the native wild plants and trees.

Maintain their habitat area as open grassland and avoid planting more trees in those areas. As trees not allow grass and herbs to grow, on which the Black buck survive.
References


