

SPECIES & ECOSYSTEM SURVIVAL

Every species plays a crucial role in the health and survival of its ecosystem. From food production to oxygen generation, pollination to seed dispersal, pest control, disease reduction, and waste recycling, each plant, animal and fungi is part of an intricate web of interconnected life.

Species roles are illustrated here using miombo woodland as an example – a forest type found across much of southern Africa.



1 Plants absorb carbon dioxide from the air and release oxygen that animals need to survive. Plants store carbon in their leaves, trunks and roots as well as in the soil around them. This reduces the amount of carbon dioxide entering the atmosphere and therefore helps reduce global warming. Plants help maintain water supplies by storing and releasing moisture, including floods and droughts.

2 Plants use energy from the sun, to convert carbon dioxide and water into glucose. This is the basis of food for almost all species in the world. Herbivores like elephants and antelopes eat plants and they can become food for carnivores like lions and wild dogs.

3 Flowering plants need to be pollinated to reproduce. Different species of insects, birds and mammals pollinate different plants. For example bats and moths pollinate baobab trees and many miombo species are pollinated by bees.

4 Many plants rely on animals to disperse their seeds, enabling new plants to grow. For example elephants, primates and birds eat fruit that disperses the seeds, fertilised by their dung, far from the parent plant.

5 Nature recycles everything, with many different species contributing to nutrient transfer. For example, dung beetles collect and bury faeces, cycling nutrients back into the soil. Millipedes feed on dead and decaying organic matter and transfer nutrients through their droppings.

6 Every species – including humans – contributes to ecosystem balance. Disrupting this balance can cause more negative consequences. For example, if natural habitat is reduced by humans, invasive animals like baboons and elephants may threaten existing people's farms, leading to community tensions. Disturbing habitat also increases the risk of disease transfer to humans.

7 There is a constant cycle of life and death, with many species helping dispose of dead matter, keeping the environment clean and healthy. For example vultures dispose of carcasses, helping prevent the spread of diseases like anthrax and rabies.

8 A healthy ecosystem has a balance of predators that keep pest populations under control. For example crocodiles eat fish and giraffes eat reeds, keeping their populations low. Many predators and omnivores reduce the number of sap-sucking insects such as mosquitoes and flies.

Ecology Science Of Survival

Michael Seilmaier



Ecology Science Of Survival:

Unveiling the Magic of Words: A Report on "**Ecology Science Of Survival**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Ecology Science Of Survival**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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