

## YEMENI ECOSYSTEM SERVICES: LINKING ECOLOGY AND ENVIRONMENTAL MANAGEMENT

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**Relevance:** Yemen's ecosystems' threats and difficulties, as well as how they affect ecosystem services. This might involve problems like pollution, water scarcity, deforestation, habitat degradation, and the consequences of climate change. The necessity of sustainable environmental management strategies is emphasized in this section in order to address these issues and encourage the long-term provision of ecosystem services.

**Goal of the work:** The purpose of this paper is to examine the idea of ecosystem services within the Yemeni context and to emphasize how crucial it is to incorporate ecological knowledge into environmental management techniques. Yemen, a country in the southwest of the Arabian Peninsula, is home to a variety of ecosystems, including deserts, mountains, coastal regions, and agricultural landscapes. Numerous services offered by these ecosystems are essential to both sustainable development and human well-being.

**Result analysis** – The specific ecosystem services provided by Yemen's unique ecological systems are discussed. It examines providing services (such as wood, food, and water), regulating services (such as regulating climate, cleaning water, and halting erosion), cultural services (such as leisure and spiritual values), and supporting services (such as nutrient cycling and soil formation). It is emphasized how crucial these services are to both local and national economies in the US. With a focus on Yemen, this article attempts to examine the idea of ecosystem services and emphasize how crucial it is to incorporate ecological knowledge into environmental management techniques. Yemen contains a wide variety of ecosystems, including coastal regions, mountains, deserts, and agricultural landscapes. Yemen is situated in the southwest of the Arabian Peninsula. For human well-being and sustainable development, these ecosystems offer a variety of essential services.

**Conclusion.** The conclusion, which also emphasizes how important it is to recognize and value Yemeni ecosystem services. It emphasizes how important it is to continue research, develop capacity, and integrate policy in order to ensure Yemen's ecosystems are preserved and used sustainably for future generations.