Supplemental materials

Land use/cover-related ecosystem service value in fragile ecological environments: A case study in Hexi region, China

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Table S1 Definition of groups and individual indicators for ecosystem service

Groups	definition	Indicators	definition
Provisioning services	Direct material and energy resources provided by ecosystems, such as food, water, wood, etc., to support the needs of humans and other organisms. These services play an important role in maintaining biological survival and quality of life.	Food production	That portion of gross primary production extractable as food.
		Material production	That portion of gross primary production extractable as raw materials
		Water resources supply	Storage and retention of water
Regulating services	Ecosystems influence biodiversity and ecosystem stability by regulating natural phenomena such as climate, flooding and disease, and by providing functions such as soil fertility and water purification.	Gas regulation	Regulation of atmospheric chemical composition
		Climate regulation	Regulation of global temperature, precipitation, and other biologically mediated climatic processes at global or local levels.
		Purify environment	Recovery of mobile nutrients and removal or breakdown of excess or xenic nutrients and compounds.
		Hydrological regulation	Regulation of hydrological flows
Supporting services	functions provided by ecosystems that are essential for the survival and reproduction of other organisms, including humans. These functions include soil formation, water cycling, climate regulation, and other processes that provide the foundational support for maintaining biodiversity and ecological balance.	Soil conservation	Soil formation processes
		Maintain nutrient cycle	Storage, internal cycling, processing and acquisition of nutrients
		Biodiversity	Provide habitat for a wide range of organisms and the conditions necessary for the evolution of organisms and the emergence and formation of biodiversity
Cultural services	Spiritual and cultural values that ecosystems provide to humans, including aesthetics, spiritual pleasure, education, cultural heritage and social identity	Aesthetic landscape	Ecosystems provide cultural and enjoyment values