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Freshwater systems can be found in widespread areas of the American West, with a large portion of this being consumed by agricultural irrigation. Irrigation systems have been an essential component of agricultural productivity and water resource management in the region. However, the increasing demand for water supplies has led to the development of alternative irrigation practices, such as non-irrigation, which can be more sustainable and efficient. The water-energy nexus in the American West highlights the interdependence of water and energy systems and the need for integrated solutions to address environmental and resource challenges.
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