SNOW RESERVOIR E L D O R A



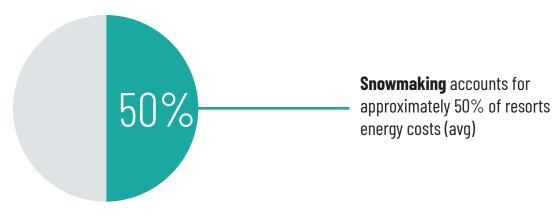
BRINGING WATER TO THE FOREFRONT

The ski industry may all but disappear in the coming decades. As climate change progresses the industry has seen little innovation. In response to our changing climate, **snowmaking** has become a common and problematic practice.

Ski resorts similar to Eldora use ~250 million gallons of water over a single season. Snowmaking requires substantial water and energy. This use ultimately takes water away from downstream communities.

While snowmaking can extend winter recreation, these practices aren't sustainable. Replacing impermeable infrastructure will allow Eldora to effectively manage water. Permeable pavement, snow fences, strategic snow collection, and additional reservoirs can improve snowmaking practices.

Energy Consumption Allocation



Vulnerability



Emissions Co2 emissions from pumping and

transport of water



Fire-prone Extensive water use

leaves resort fire-

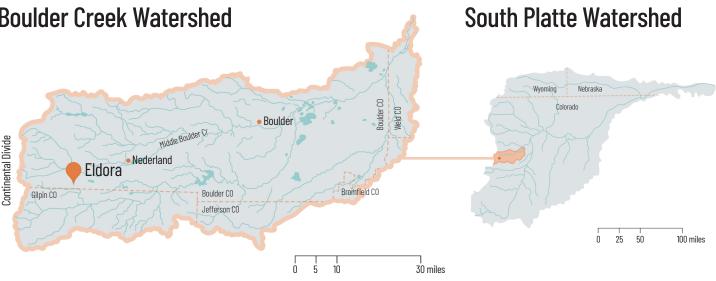
prone



Drought

drought

Boulder Creek Watershed



Western Water Law

The use of Colorado's water is determined by the **Prior** Appropriation System. This system controls who uses how much water, the types of uses allowed, and when water can be used.

680 ACRES 53 trails, and Oct-Feb at Eldora

250 MILLION

Gallons of water

used during a single season at a

200

THOUSAND

Gallons of water

to cover an acre

of terrain with a

foot of snow

Watershed drainage creates downstream

Colorado water rights are unique to the state and restrictive to those who don't own water rights. Water rights are not easily acquired, therefore improving water management can be difficult to implement.

WHAT DO WE DO?

