The Agricultural Pieces





BRUCHEZ PROPERTY

COVER AND LOCATION BRUCHEZ PROPERTY

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Evaluating Conserved Consumptive Use in the Upper Colorado

2021 Report (2020-2023 Study)

Study funded by the **Colorado Water Conservation Board**

With support from: Colorado Basin Roundtable The Nature Conservancy Trout Unlimited American Rivers





















COLORADO Colorado Water Conservation Board Department of Natural Resources



COLORADO Division of Water Resources Department of Natural Resources





MacIlroy Research & Consulting





Estimating Water Use

Remote Sensing: satellite based, cost-effective over large and heterogeneous landscapes, multiple models

Eddy Covariance: site-specific, highly accurate, can be used to compare with estimates from remote-sensing, higher cost to build and maintain

Remote-Sensing Based ET Estimation



Collaboration with DRI to evaluate forage recovery and conserved consumptive use on high-elevation pastures under irrigation restriction (Cabot, et al., 2022)

Colorado River Water Users Association December 5, 2024 Las Vegas, NV

UAV/Drone Technology for Field Monitoring



MicaSense Altum-PT sensor enables synchronized capture of multispectral, thermal, and panchromatic data. Thermal band resolution (10-17 cm) allows similarly high-resolution mapping of ET with energy balance models (Mokhtari et al., 2021).



Colorado River Water Users Association | December 5, 2024 | Las Vegas, NV

2024









