


A scenic view of a mountain valley with a lake and dense forest. The text is overlaid on the image.

**Colorado Water Management in
the Era of Limits:**

**Potential Contributions From
Agricultural Research**

Research Results: Sources

A photograph of two men in a field. The man on the left is wearing a dark jacket and a cap, and the man on the right is wearing a red plaid jacket and a cap. They are standing near a fence post and a spool of wire. The background shows a vast, open field under a cloudy sky.

- **State**

- Agricultural Experiment Station

- Cooperative Extension

- CWRRI

- Water providers

- State agencies

- Private consultants

- **Federal**

- USDA – ARS, NRCS

- EPA

- USGS

Other Sources

- **Climate records**
 - Colorado Climate Center
 - Regional Climate Centers
- **ET monitoring networks**
- **USGS Nat. Water Information System**

Research Products

- **Primary results – Publications, Reports**
- **Synthesis from publications, reports**
 - Modeling efforts**
 - Decision support systems**
 - SWSI**

Agricultural Water Research: Topics

- **Irrigation water management**
 - Water use efficiency/conservation
 - Crop response to limited irrigation
- **Management of saline/sodic soils**
- **Crop consumptive water use**
- **Dryland cropping systems**

Value of Agric. Water Research

Blaney-Criddle methods

Monthly estimates of consumptive use

Based on temperature and day-length

$$\text{Monthly consumptive use} = k f$$