Mission: Develop and deliver science-based, region-specific information and technologies to agricultural and natural resource managers that enable climate-informed decision-making.

Vision: Robust and healthy agricultural production and natural resources under increasing climate variability and climate change.
Three approaches to promote climate awareness and resilient, productive working lands...

1. Science and data syntheses
2. Tool/technology co-development and support
3. Outreach, convening, and training
Criteria for cases:

- Concrete management intervention
- Evidence of impact on the hydrological cycle
- Within the region – currently AZ, NM, UT, NV, CA – collaborators here and elsewhere welcome!
History of the West is a story of constant adaptation to water scarcity – with a very different relationship to nature in the settler colonial era...

“Solutions” also... frame problems ...create winners and losers ...can be maladaptive ...are context-specific

WATA collects them all!
Water Conservation for Irrigated Agriculture

Cases

'Seco' Barley - A 'One-Irrigation', Drought-Tolerant Variety
Barley developed to produce a crop with minimal irrigation that outperforms commercial varieties under drought conditions.

'Solar' and 'Solum' - High-yielding One-Irrigation Barley Varieties
Barley varieties developed for minimal irrigation, developing deep roots to produce grain under dry conditions.

Agave Field Trials in Arizona
A plant with a long history in the Southwest could be an alternative crop for the future.

Alexander Pancho Memorial Farm
Farm using traditional dryland techniques

Barley-Mesquite Agroforestry with Water Harvesting Catchments
Inter-cropping of trees and winter grain with compacted rainwater harvesting systems produces two successful crops without irrigation in...
Water Conservation for Irrigated Agriculture

Clockwise from top left: One-Irrigation barley, buffalo gourd, N-Drip, Soil moisture sensor-based irrigation scheduling, deficit irrigation, liquid nano-clay