

Dr. Laura Garza

Area Water Resources Management Advisor UCCE Water and Climate Change Program Mendocino and Lake

Agenda

1

California Water Setting

- Climate and Hydrology
- Water Challenges and Pressures
- Water monitoring indices

2

North Coast Case Study

- Water strategies to balance agriculture and biodiversity needs

3

Water Strategy for irrigation systems

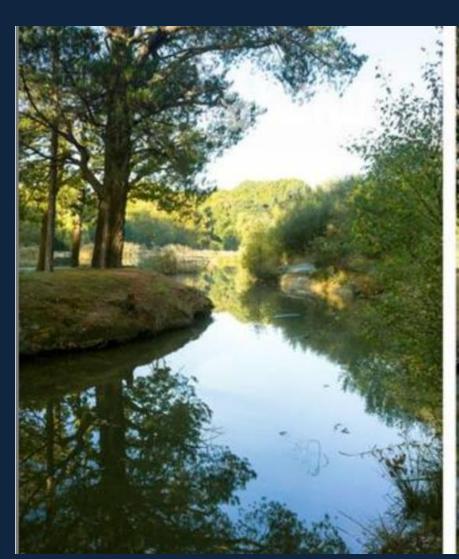
- Water Budget
- Irrigation efficiency methods
- Best practices for improving

Water conservation and quality

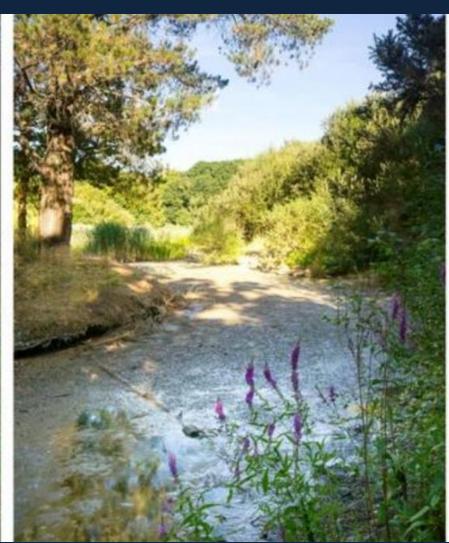
- Cover Crops

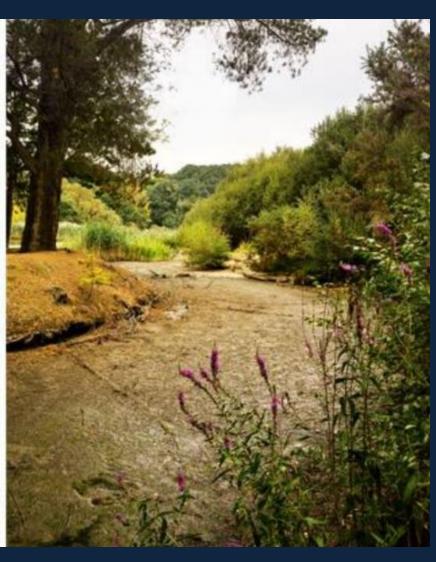
The Rhythm of Rivers:

Imagine standing by a river through the seasons

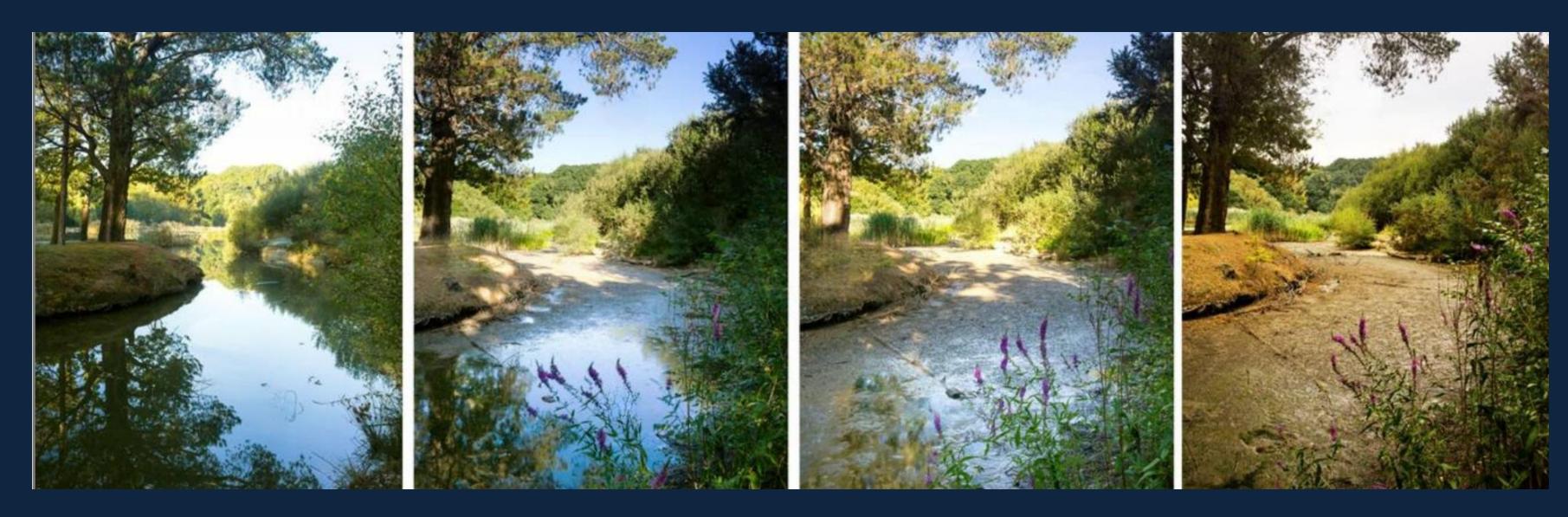








The Rhythm of Rivers:



This natural rhythm of high and low flows is: the river's heartbeat – a pulse of water that sustain ecosytems.

The Rhythm of Rivers:

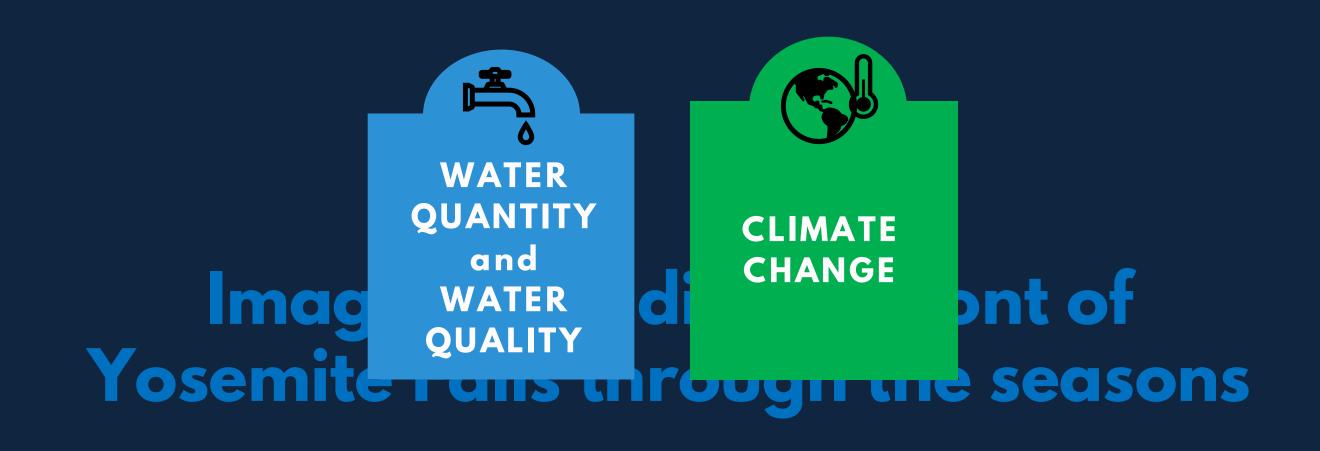
Imagine standing in front of Yosemite Falls through the seasons





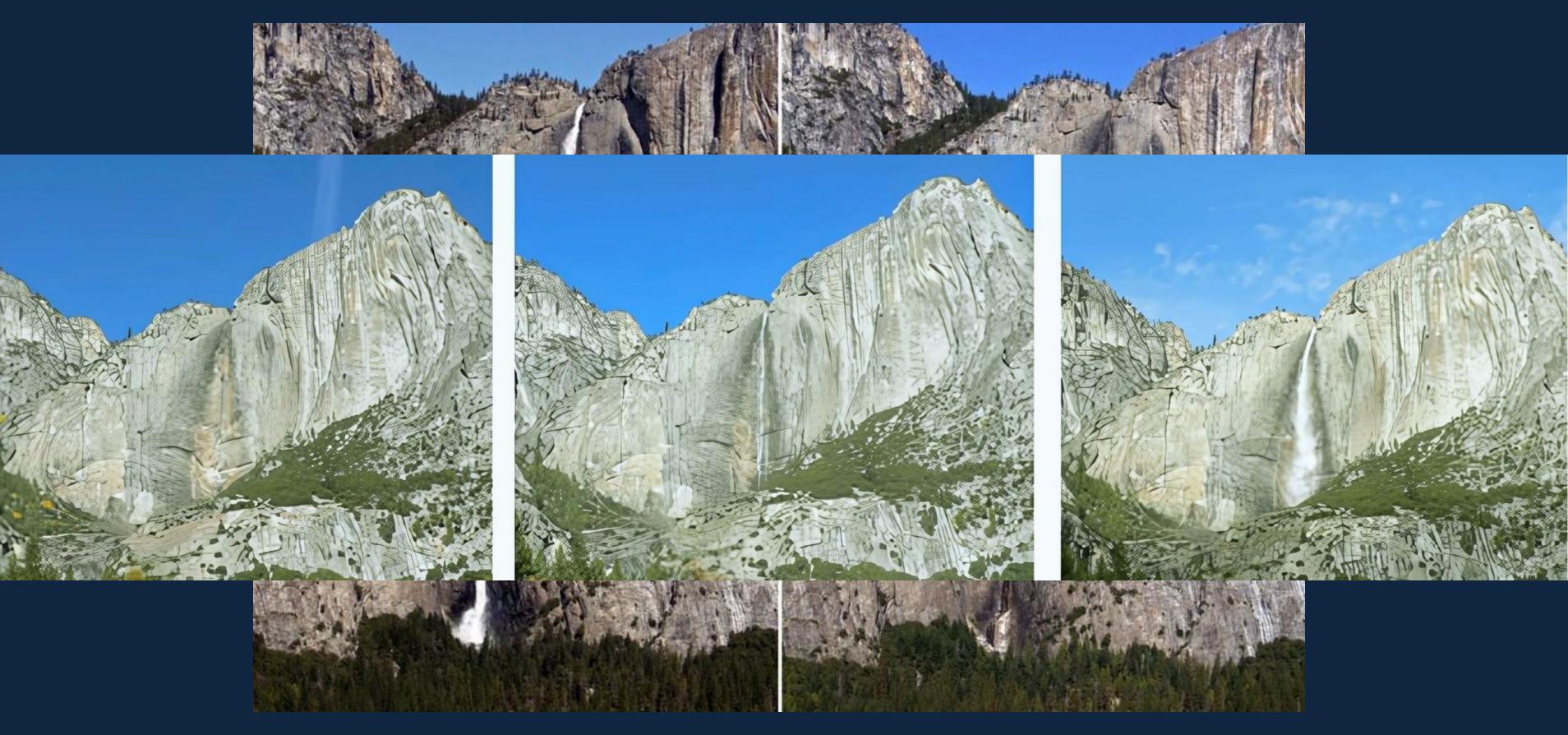


The Rhythm of Rivers: Why Flow Timing Matters for Ecosystems



The Rhythm of Rivers: Imagine standing in front of Yosemite Falls through the seasons

This natural *rhythm* of high and low flows is the river's heartbeat – a pulse of water that sustains life.



Yosemite Falls generally peaks in late spring (left), during the snowmelt pulse, and dries up in late summer (right), before fall storms arrive. Photos by Greg Stock





California Climate and Hydro Setting

Climate

CA climate has five major climate types:

- Mediterranean (wet winters and dry summers)
- Desert
- Cool Interior
- Highland
- Steppe