

# Pesticide Leaching Potential in Irrigated Agriculture

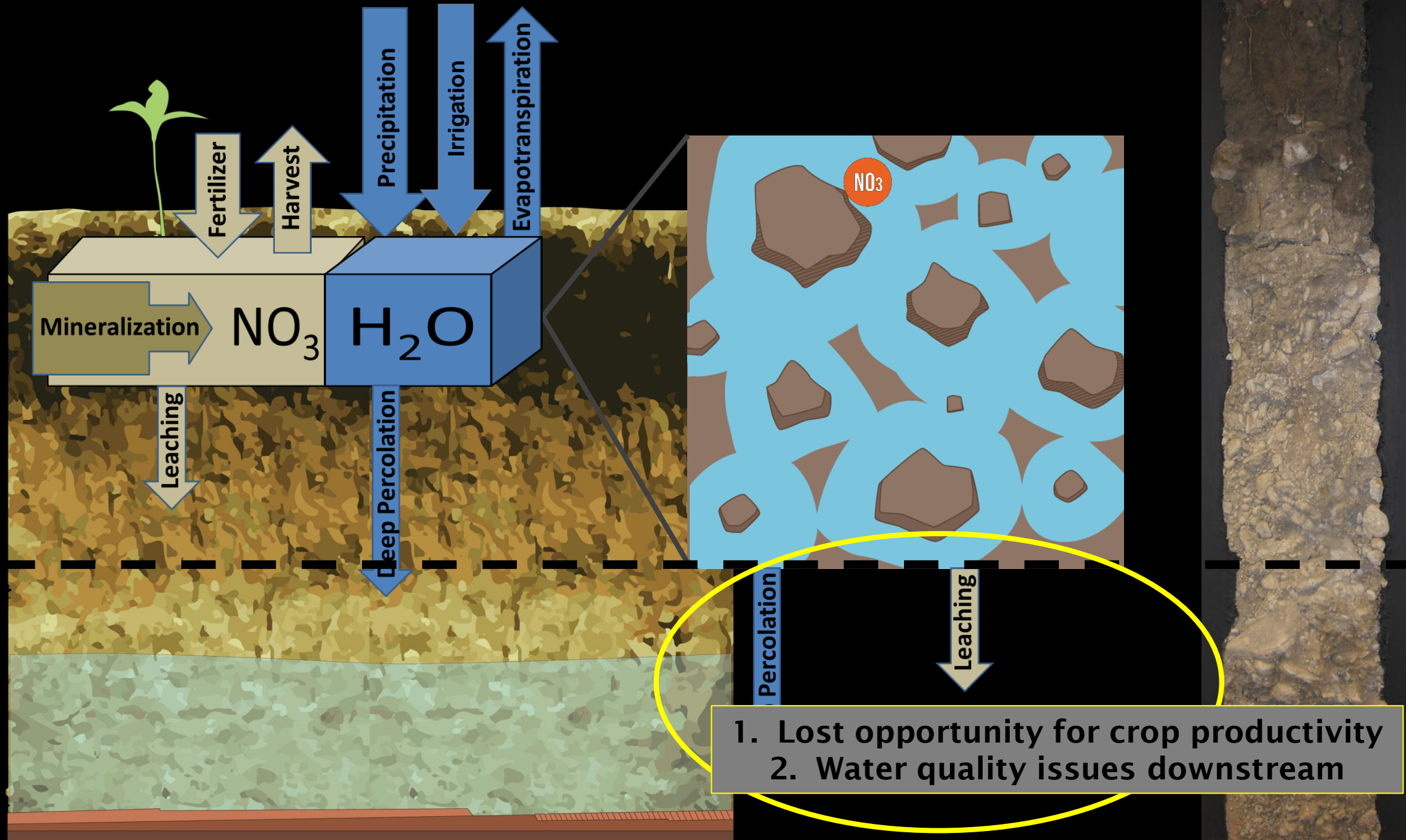


MWCC Annual Meeting  
February 4<sup>th</sup>, 2025

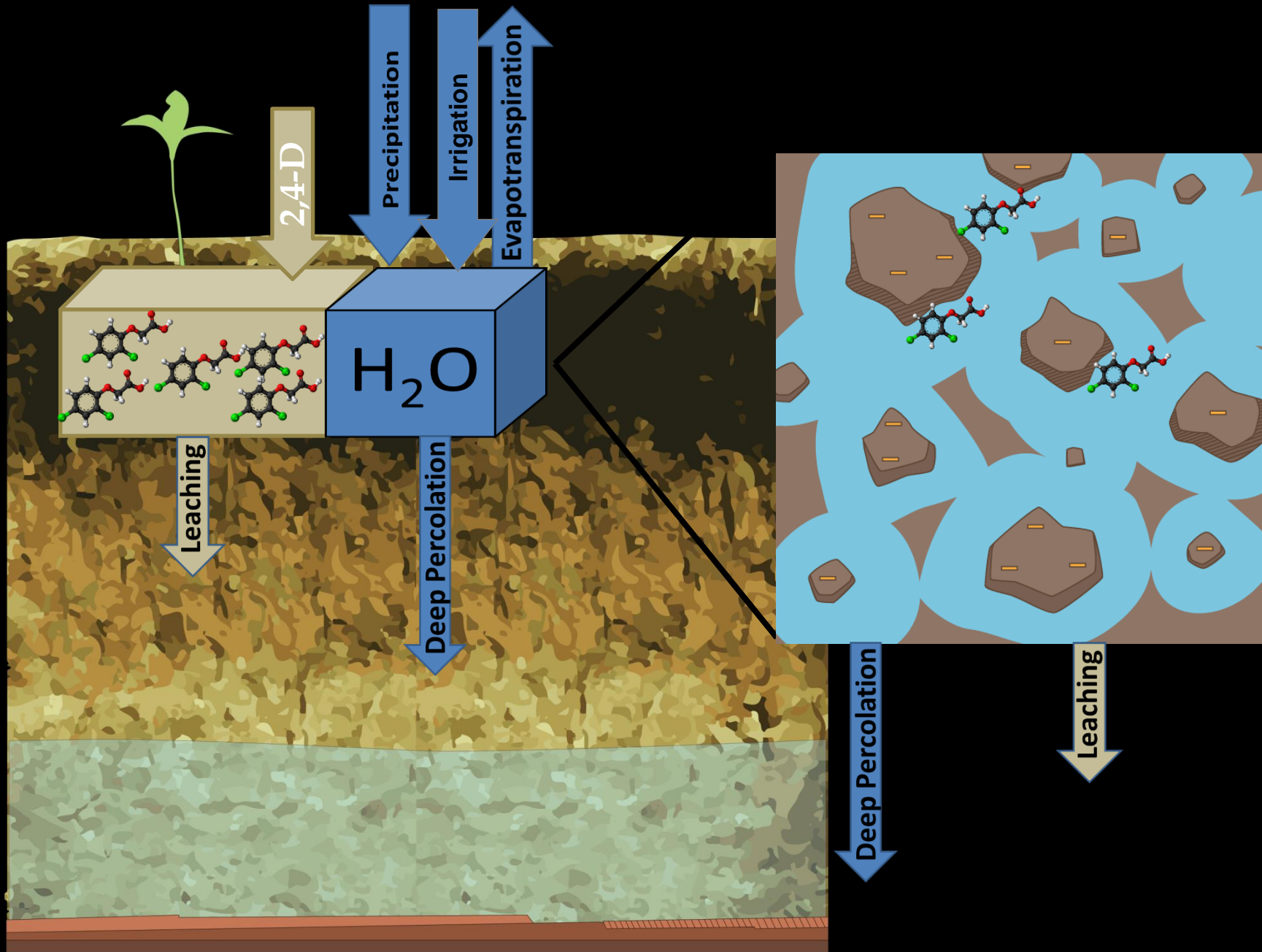
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# Background - Water and N use Efficiency



# Pesticide Leaching Risk?



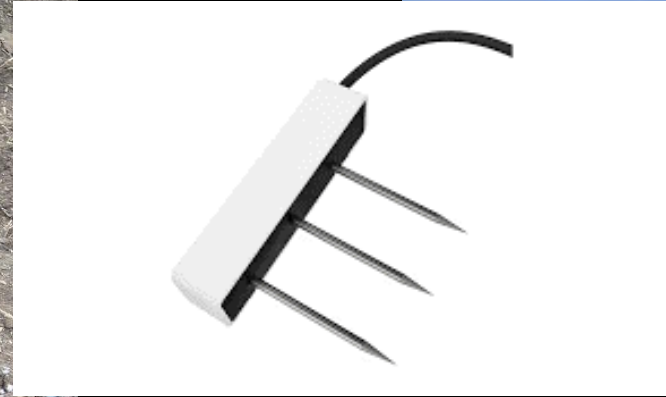
# Objectives

1. Research on irrigation practices to reduce leaching risk
2. Identify win-win options that are actionable



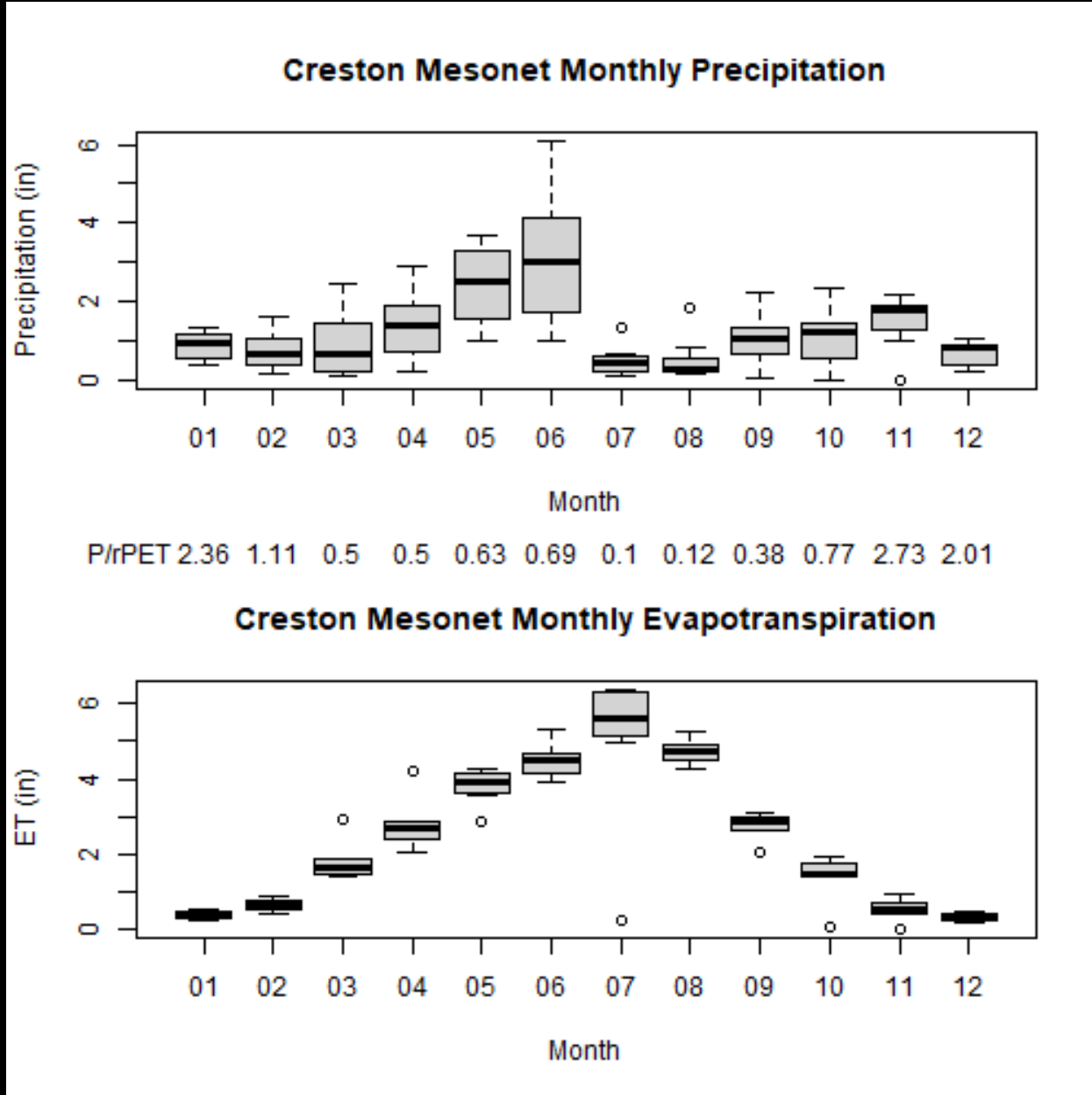
# Field Methods

Lysimeters (soil water samplers) and soil moisture sensors



# Methods

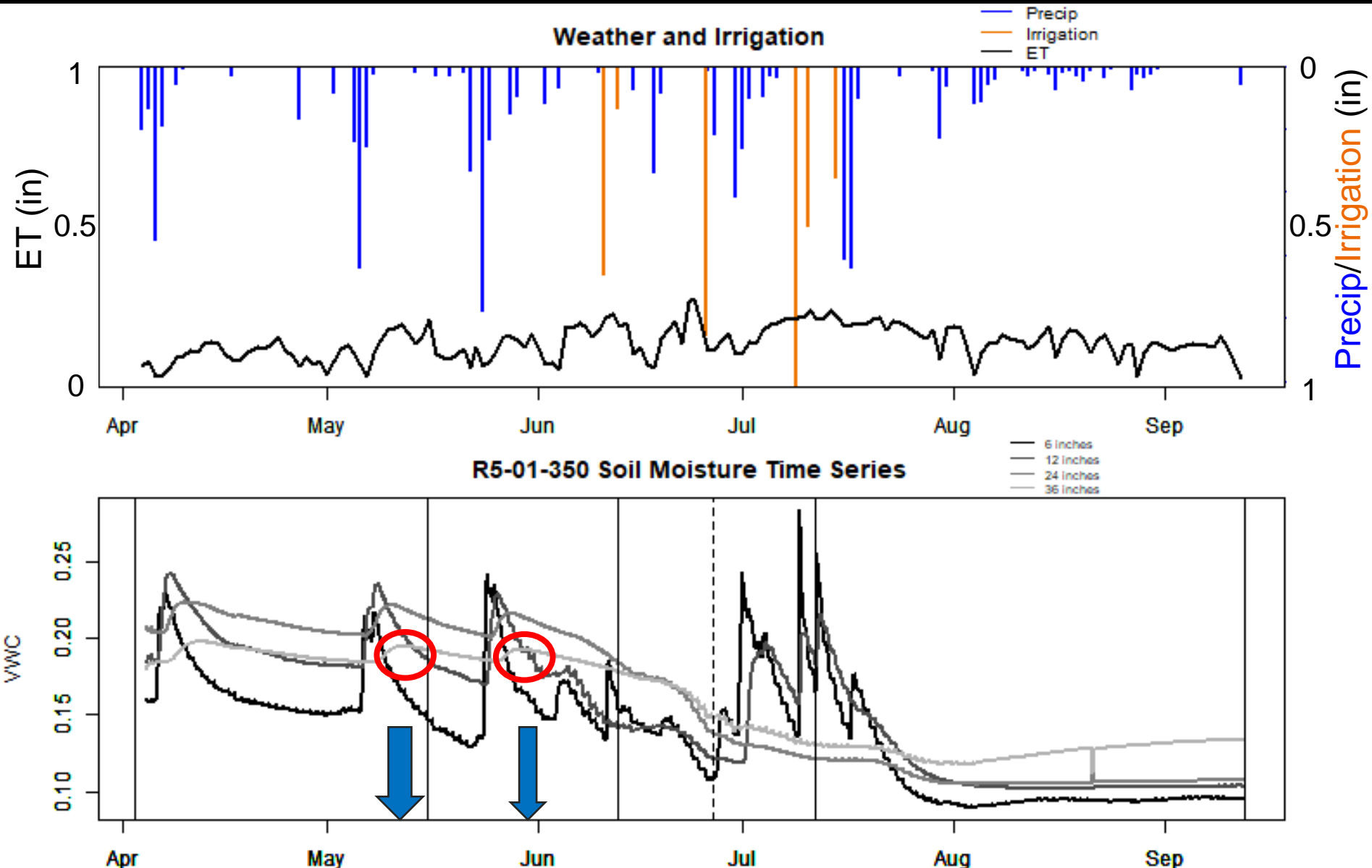
## Soil Water Model



Inches of water storage capacity per foot of soil

**Sand = 0.1**  
**Silt = 1.7**  
**Clay = 2.8**

# Example of Data from Creston 2024



Irrigation Date	Amount (in)
06/10/2024	0.66
06/13/2024	0.13
06/26/2024	0.84
06/30/2024	0.7
07/09/2024	0.48
07/12/2024	0.1