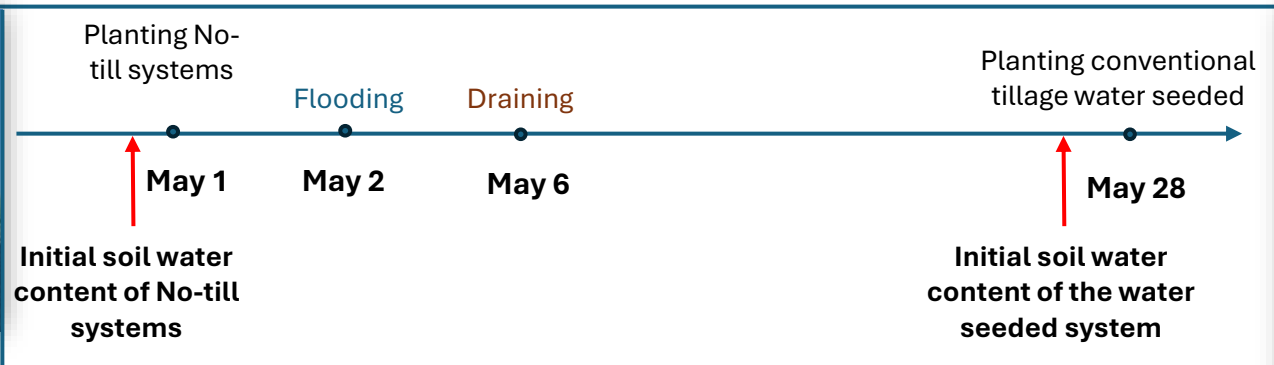


## Can No-Till Farming Save Water in Rice Fields?

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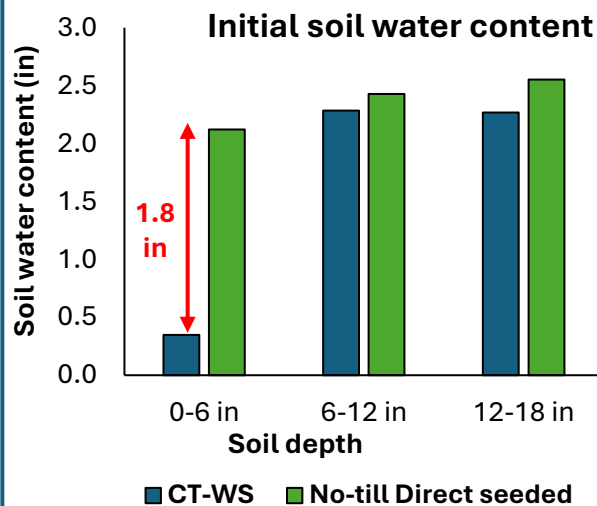


Water scarcity is a major challenge for California rice production.

No-till farming can offer a solution by conserving water and supporting sustainable rice cultivation practices.

The objectives of our experiment are:

1. Evaluate how no-till farming conserves soil moisture and influences planting time.
2. Quantify the water saving achieved by no-till farming systems.



- No-till conserves about 2 inches of water in the topsoil.
- There were no differences between water-seeded and no-till systems in the deeper soil layers.

### Rice water use (Etc)

	Crop water use (in)	Water saving (%)
No-till Direct seeded	2.2	<b>69.1</b>
Conventional tillage water seeded*	7.0	

\*Assuming planting at the same time as No-till systems

No-till Direct seeded systems used around 70% less water compared to water seeded systems due to reduced water evaporation during the flooded period.

### Main Results

- No-till farming saved about 2 in of water that can be used for early growth of rice.
- Draining the soil after planting in no-till systems saved about 70% of crop water use compared to the water seeded.