



AG-DRIP

Helping Farmers Optimize Water

***Agriculture - Demonstration, Research,
and Implementation Program
(AG-DRIP)***



AG-DRIP

Helping Farmers Optimize Water



Extension
UtahStateUniversity

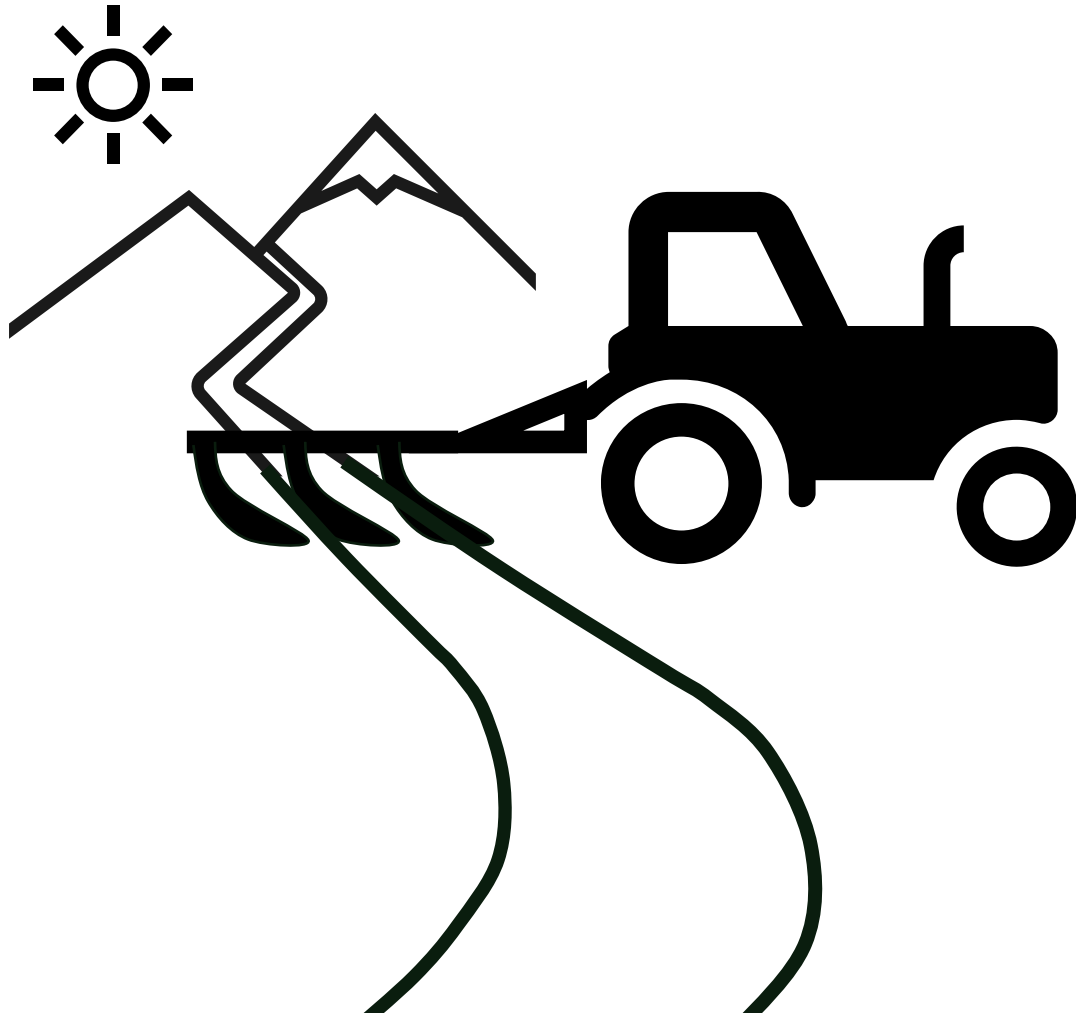


CENTRAL UTAH WATER
CONSERVANCY DISTRICT



**THE COLORADO
RIVER AUTHORITY**
OF UTAH

Project Objective



**Cultivate a
resilient water
supply**

Tasks

1. **Engage** participants to build trust and partnerships,
2. **Enable** participants to achieve their management goals,
3. **Invest** in farms and irrigation companies ultimately to reduce consumptive use,
4. **Validate** the program by helping participants evaluate their programs to achieve their goals.

Engage

- **Task 1 – Establish Program**
 - Create public website
 - Publish and disseminate resources
- **Task 2 – Develop training and networking resources**
 - Host annual workshop for participants.
 - Annual water manager meeting at the Water Users Workshop
 - Host biennial workshop for trainers
 - Create guide to IMP development

Enable

- **Task 3 & 4 – Develop Irrigation Management Plans**
 - 125 farms/ranches
 - 50 irrigation companies
 - Farm visits and assessments.
 - Develop IMPs with farmers
 - Follow-up consultations
- **Task 5 – Develop and disseminate education materials**
 - Publish fact sheets and present on IMP and program experience

Invest

- **Task 6 – Invest in equipment, alternative crops, and incentives**
 - Field testing of alternative crops
 - \$200/acre for up to 10 acres
 - Incentives for continued participation
 - \$750 annual irrigation dealer credit for farms/ranches
 - \$1,000 annual irrigation dealer credit for irrigation companies
 - Equipment transfer to cooperator
 - After three years of participation

Equipment

- Farms/Ranches
 - 1 – Flow meter (~\$4,500)
 - 1 – Soil moisture station (~\$2,750)
 - + 5-years of remote access (~\$1,000)
 - 1 – Weather station, if far from existing station (~\$2,200)
 - + 5-years of remote access (~\$1,000)
- Irrigation Companies
 - 1 – Flow measurement device (~\$10,000)



Validate

- **Task 7 – Program Evaluation**
 - Compile collected data
 - Evaluate potential water savings
 - Share data with participants and project partners
 - Compare weather data, soil moisture, and flow data to Open ET
 - Survey participants on their experience and commitment to their IMP.

AG-DRIP Staff



Elisa Flint

Program Coordinator
On-Farm Focus

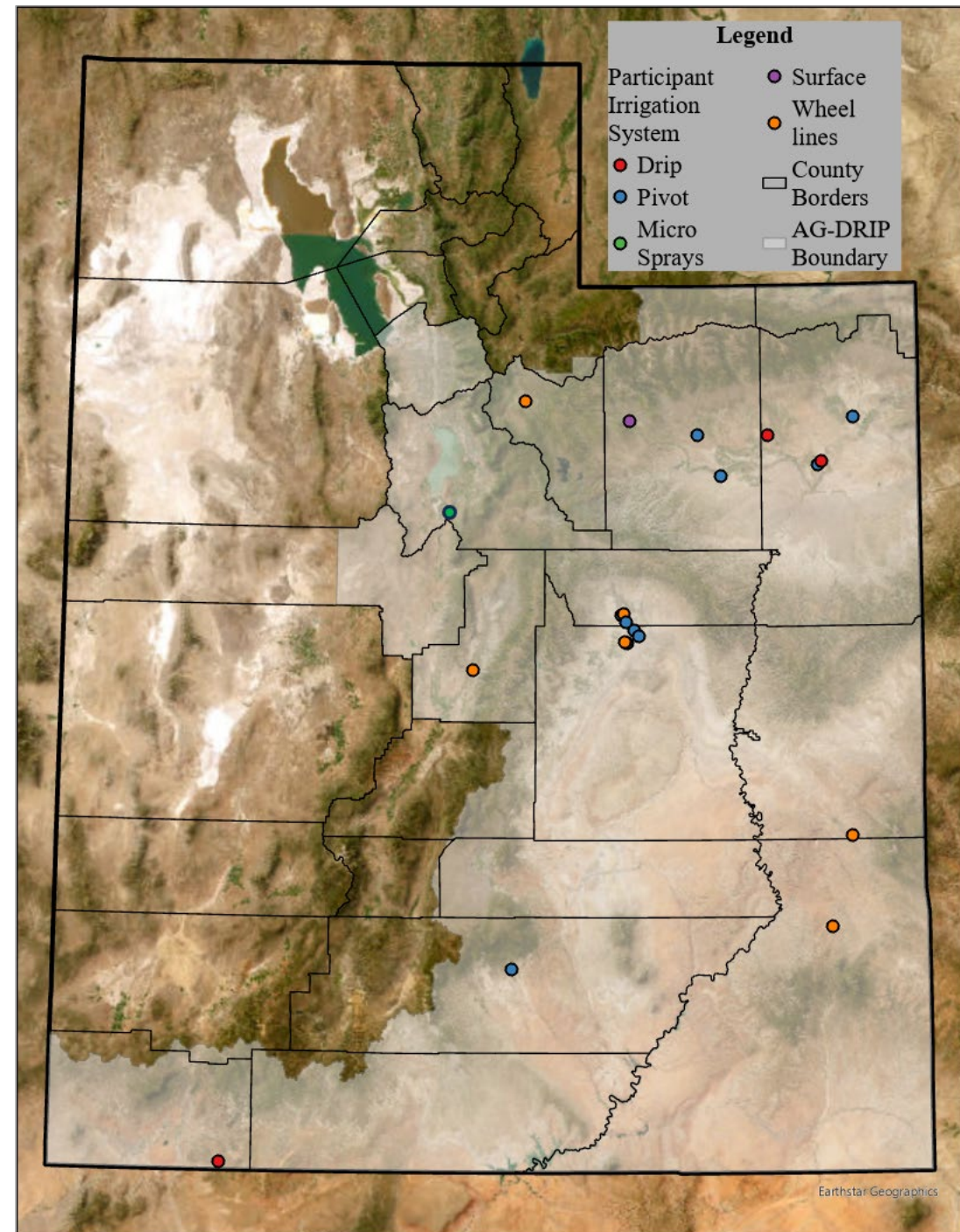


Silas Ekadu

Program Coordinator
Irrigation Company Focus

2023 Participants

- 21 farmers (4,500 acres)
- 2 irrigation companies



Farm Setup



Understand field

- Farmer knowledge
- Soil survey



Collect soil data

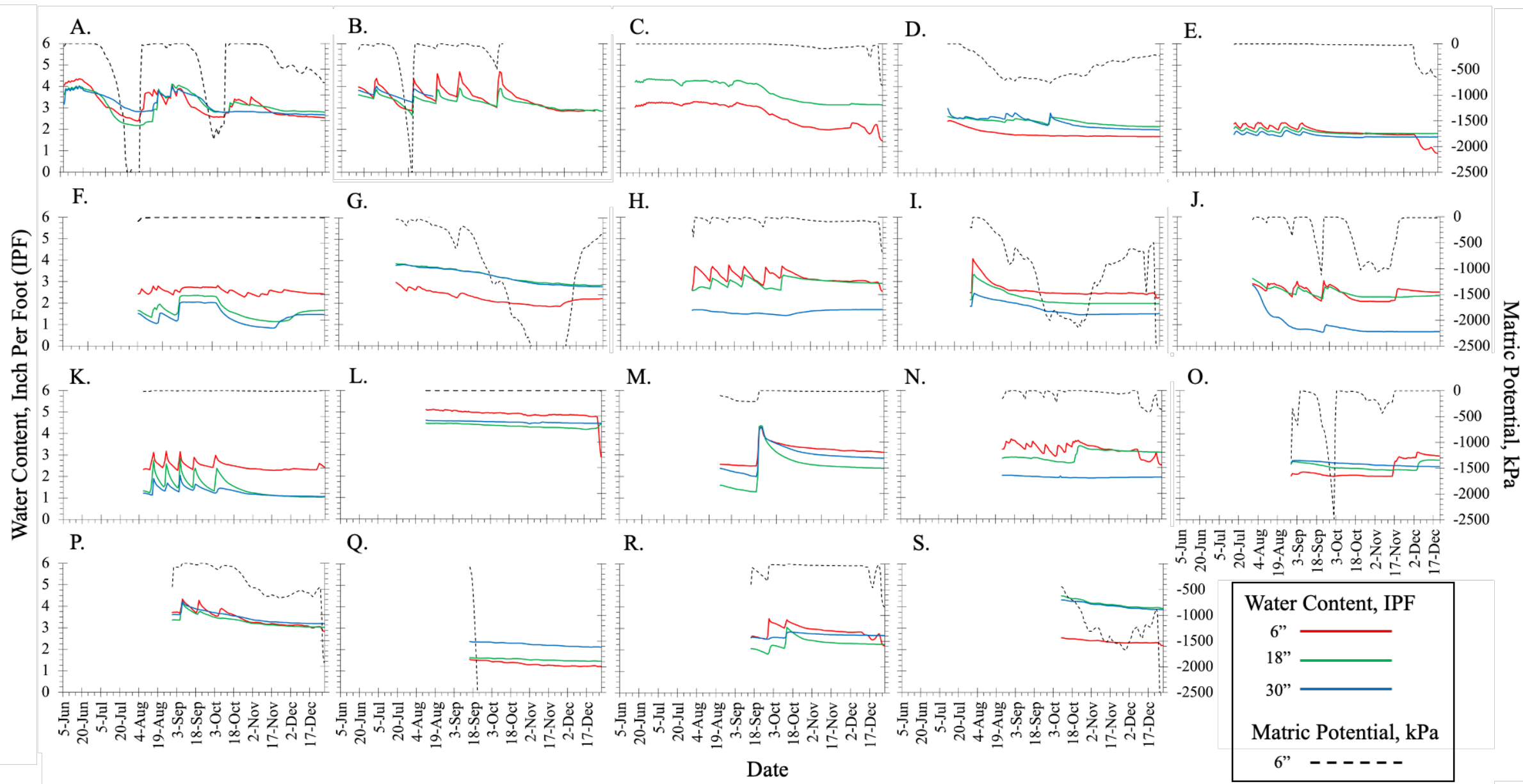
- Soil moisture sensors,
- Soil sampling



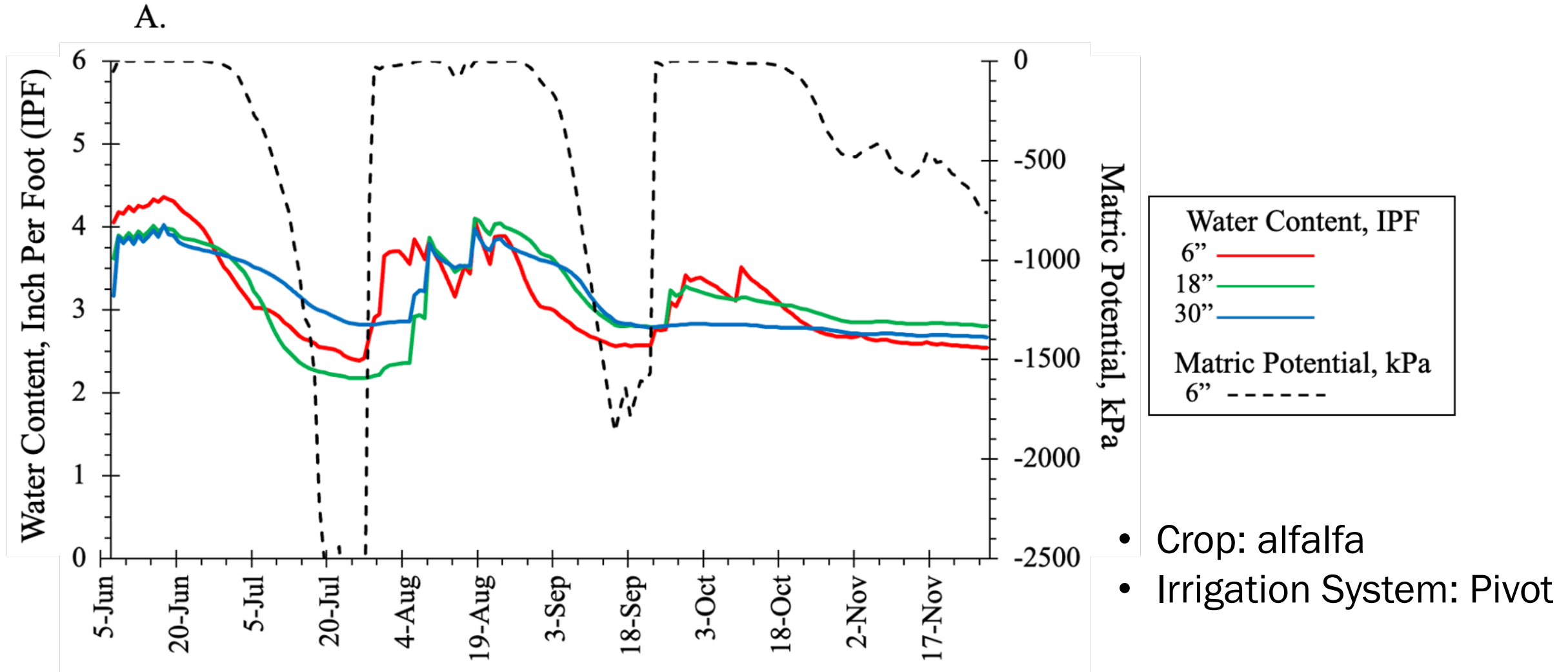
Collect water data

- Irrigation evaluations
- Water samples
- Flow meters

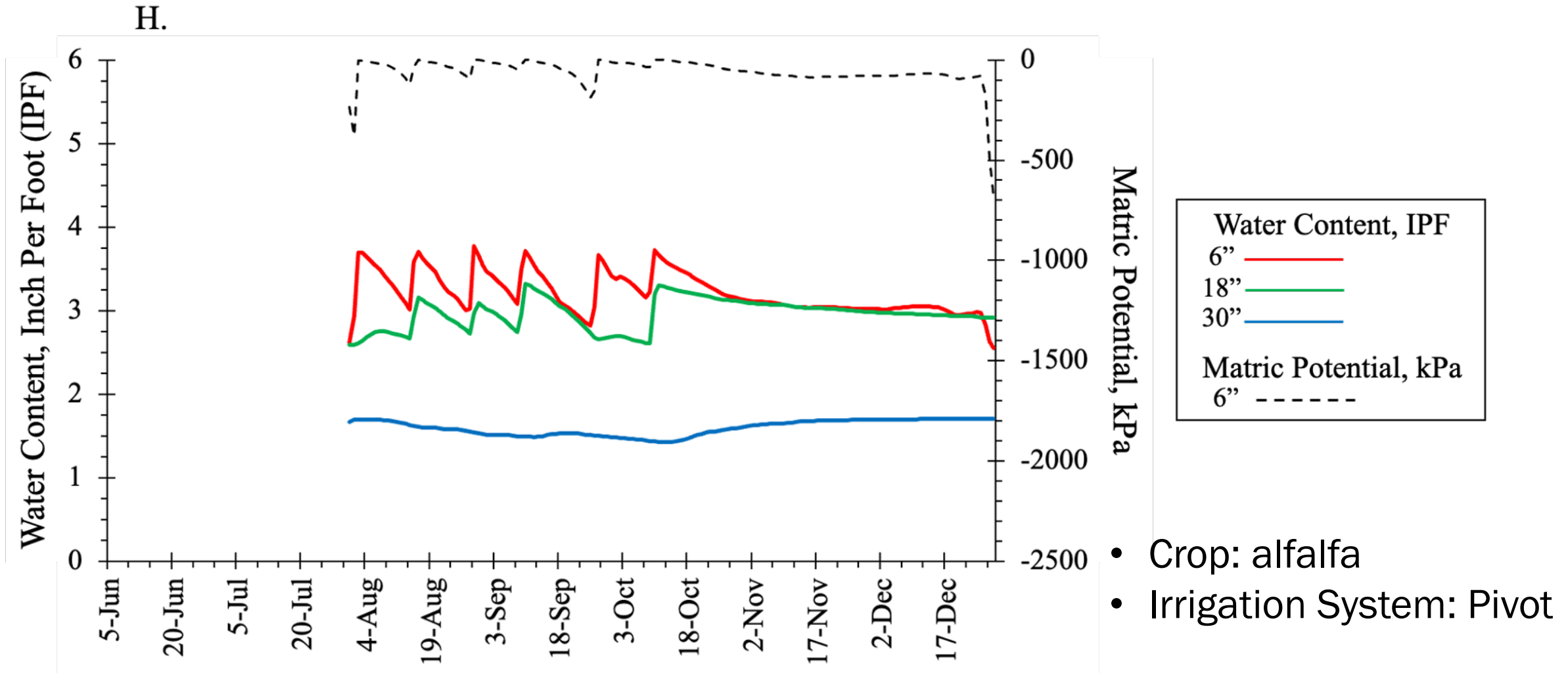
2023 Soil Sensor Data



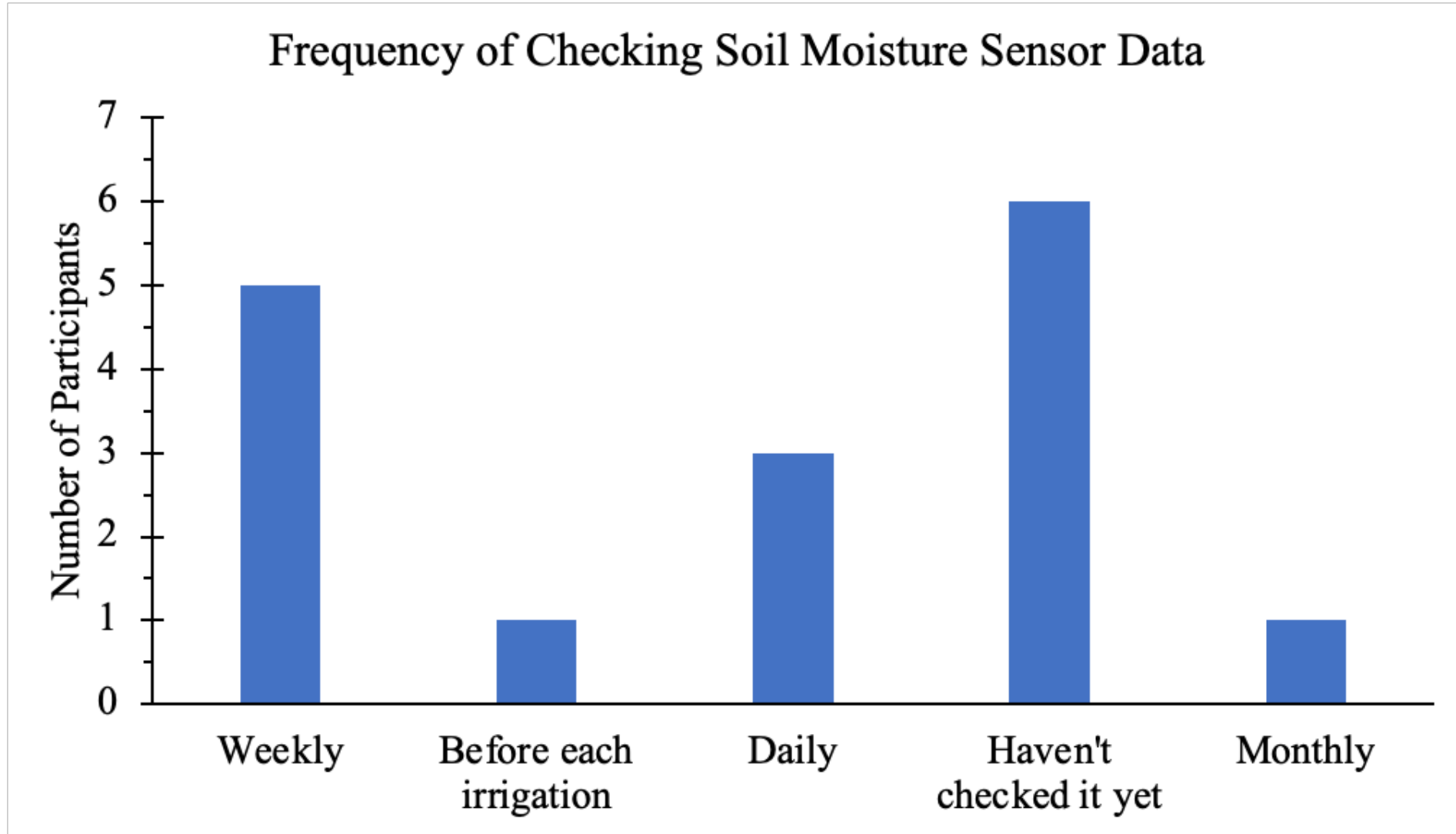
2023 Soil Sensor Data



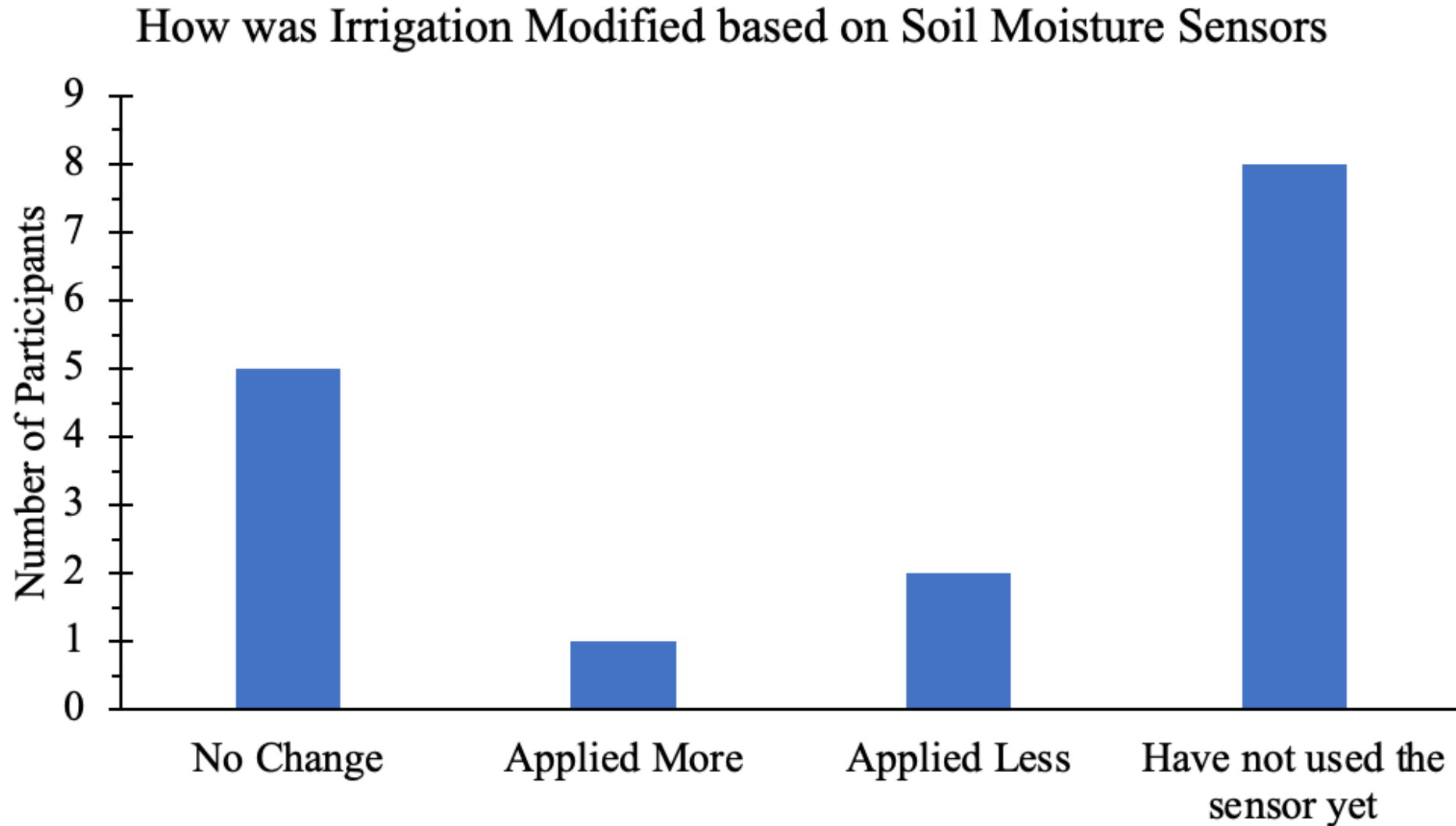
2023 Soil Sensor Data



Sensor Data Implementation Adoption

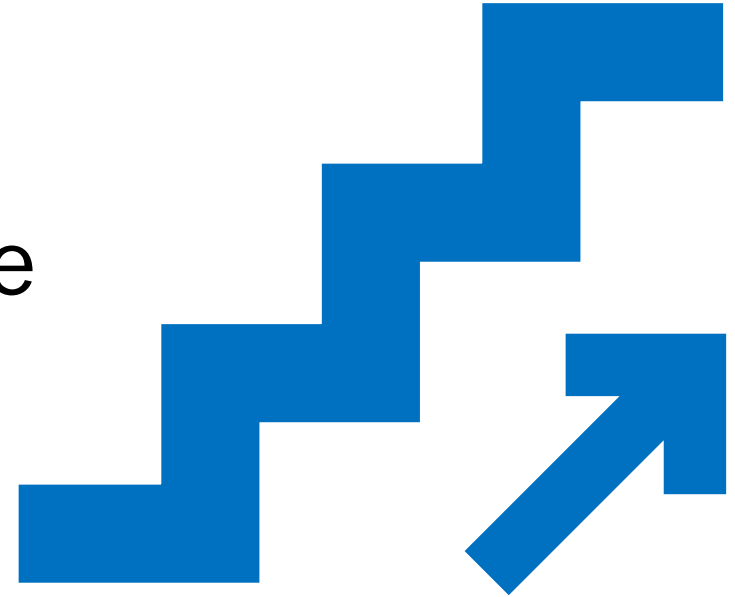


Sensor Data Implementation Adoption



Continued work

- Finalize irrigation management plans
- Share soil/irrigation data
- Train participants on soil moisture sensors
- Complete irrigation system evaluations
- Conduct water manager field days



2024 Participant Application

- Participation is voluntary
- No obligation to participate in ANY other programs.
- Participants must receive Colorado River Basin water
- Commit to develop and report on IMP and collaborate with USU Extension for 5 years.

