WSU WISE
Water Irrigation Systems Efficiency
December 2\textsuperscript{nd}, 2016
WSU WISE  Confronting insufficient water in Washington State be increasing irrigation efficiencies through education and consultation
USDA-NRCS CIG 69-3A75-17-24

NRCS Award: $455,915
WSU Match: $455,978
Total Operating Funds: $911,893
Principle Investigators

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Increase irrigation efficiencies and reduce agricultural water waste through education and consultation
1. Educate and enroll farmers in the Irrigation Scheduler Mobile (ISM) system; a tailored, water-use efficiency monitoring application.

2. Increase water-use efficiency by providing voluntary irrigation assessments and delivering a tailored compilation of recommendations for irrigation system improvements. Quantify changes in water-use efficiency rates of participants.

3. Facilitate the adoption of irrigation equipment upgrades by providing consultations and technical assistance for EQIP grant proposals.
Using data derived from over 175 Weather Stations, ISM alerts farmers to the irrigation needs of a particular crop in a particular site

- Average increase in irrigation efficiency of 20% post adoption
- Optimizes crop production by reducing plant stress
On Farm Irrigation Assessments

Participating farms will be visited by a WSU WISE irrigation specialist, and have their current irrigation methods evaluated.

- Evaluation report listing
  - Efficiency rates
  - Water loss estimates
  - A comprehensive list of recommendations to increase irrigation efficiency.

- Each farm will be re-evaluated in that same growing season to measure change in irrigation efficiency rates.
On Farm Assessments
On Farm Irrigation Assessments

Irrigation Training Resource Center

- Specialization in various irrigation systems:
  - Furrow
  - Border strip
  - Hand move/side roll sprinkler
  - Linear move sprinkler
  - Undertree sprinkler
  - Drip/micro

ITRC
moving water in new directions
WSU WISE encourages adoption of efficient irrigation equipment by providing producers with technical assistance if they are applying for EQIP Grants.

**EQIP Eligibility Requirements**

- Adjusted Gross Income of individual, joint operation or legal entity may not exceed $900,000 annually
- In compliance with highly erodible land and wetland conservation provisions
- Has control of land throughout the term of the assessment
- Full Resource: Food Security Act - 7 CFR 1466.8
Total Program Deliverables

Objective 1
- 36 ISM workshops annually
- 108 ISM workshops throughout duration of WSU WISE

Objective 2
- Conduct 30 of farm irrigation assessments annually
- 90 irrigation assessments throughout duration of WSU WISE

Objective 3
- Provide Technical assistance in EQIP proposals for 6 producers annually
- Total of 18 EQIP grant applications for Washington farmers
Actual Water Savings

WSU WISE intends to be the catalyst for efficient irrigation upgrades by an averaged measure of 20% for those participating in assessments and consultations.

With an average farm participant size of 50 acres, this will result in a water savings of over **290 million gallons over the duration of the program** and continued water savings into the future.
Logo Design
Questions?

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