

Regional Conservation Partnership Program (RCPP/EQIP)
Advanced Irrigation Water Management on the High Plains Aquifer in Kansas

Approved Land Use

Crop-Irrigated

Primary Resource Concerns

Source water depletion, Inefficient irrigation water use

Source water depletion, Ground water depletion

Area of Applicability

All planned land units are in a Kansas Ground Water Management District (GIS answered)

Additional Requirements for this Project

- Eligible participants will install a telemetry enabled moisture monitoring package to include flow meter(s) dedicated to each center pivot and at least one moisture probe in quarter section sized fields and a minimum of two moisture probes in fields larger than a quarter section. Additional moisture probes may be necessary where more than one crop is grown.
- Eligible participants will hire the services of a crop consultant to provide technical assistance for real time irrigation water scheduling. Scheduling will be based on using a water budget method with advanced methods of determining irrigation water applied, estimated crop evapotranspiration, continuous soil moisture data, and crop temperature stress monitoring. Data generated will be provided to NRCS at the end of the irrigation season to support practice certification and payment.
- A NRCS Irrigation Water Management Plan will be developed before the application is funded. Participant will implement the plan annually throughout the contract period. Note: Telemetry enabled flow meter(s) at the pivot are not required if the amount pumped can be determined and reported while the irrigation system is being operated. The NRCS Irrigation Water Management Plan will detail methods and reporting requirements in these situations.
- No end guns or similar appurtenances will be used on the center pivot system.

Category (Applications compete by category)

All planned land units are in a Kansas Ground Water Management District (GIS answered)

Eligible Conservation Practice

449 Irrigation Water Management

- o (Only the Advanced Payment Scenario is eligible for this project. Practice must be completed for 3 years with Financial Assistance provided for 3 years.)

Ranking Component Weights

Vulnerabilities (from CART) – 40 %

Planned Practice Effects (from CART) – 20%

Program Questions – 15%

Resource Questions – 15%

Efficiencies – 10%

Program Ranking Questions

Select one the following responses:

- Existing total points are less than threshold AND planned total points are greater than threshold for one PRIORITY resource concern. (50 points)
- Existing total points are less than threshold AND planned total points are greater than threshold for two or more PRIORITY resource concerns. (100 points)
- Otherwise. (0 points)

Resource Ranking Questions

Select ONE of the following responses describing the irrigation water management plan to be implemented:

- The Farm Irrigation Rating Index (FIRI) will be increased by at least 20 points. (75 points)
- The Farm Irrigation Rating Index (FIRI) will be increased by at least 10 to 19.9 points. (50 points)
- The Farm Irrigation Rating Index (FIRI) will be increased by at least 5 to 9.9 points. (25 points)
- Otherwise. (0 Points)

Land is located in a Local Enhancement Management Area (LEMA), Intensive Ground Water Use Control Area (IGUCA), or Water Conservation Area (WCA):

- Yes. (15 points)
- No. (0 points)

Additional monitoring sensors are installed beyond what is required:

- Yes. (10 points)
- No. (0 points)