

Irrigation Systems, Sprinkler (442) Requirement Sheet

2016 Environmental Quality Incentives Program (EQIP)

Eligibility: Crop and Livestock Operations with adequate irrigation history on file.

Purpose: To provide planning guidance for using Irrigation System, Sprinkler scenarios in arriving at least cost alternative to address resource concern.

Requirements: (Applicable to Animal Waste Scenarios)

- Must be a component of a Comprehensive Nutrient Management Plan that meets the Conservation Activity Plan CAP 102 criteria located at <http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/programs/?cid=stelprdb1262227>
- The design must be sealed by someone holding certification through Irrigation Association (IA) as a Certified Irrigation Designer (CID) or Certified Agricultural Irrigation Specialist (CAIS); or licensed/registered TN engineer.
- System design must follow requirements of NRCS conservation practice standard Irrigation System, Sprinkler (442) and associated CPSs.
- Pump flow testing for performance check.

Requirements: (Applicable to Non-Animal Waste Scenarios)

- Using the Farm Irrigation Rating Index (FIRI) spreadsheet (TN EFOTG), the present versus future condition index must show a minimum of 15% water saved (for renovations of existing center pivots).
- Payment requires an Irrigation Water Management Plan (IWMP) – Refer to the 2016 Requirement Clarification for IWMP's for further information.
- The design must be sealed by someone holding certification through Irrigation Association (IA) as a Certified Irrigation Designer (CID) or Certified Agricultural Irrigation Specialist (CAIS); or licensed/registered TN engineer.
- Producer must have irrigation history from 2 of the previous last 5 years or an approved waiver for all of the acreage under irrigation. This is the acreage eligible for conversion provided water savings and/or energy savings are documented in the FIRI or other tools.
 - System design must follow requirements of NRCS conservation practice standard Irrigation System, Sprinkler (442) and associated CPSs.
 - CPS 587 Structure for Water Control, Flow Meter is required under EQIP if one does not exist. Installation guidance is contained in NE-ENG-83.
 - CPS 449 Irrigation Water Management is required under EQIP.
 - Pump flow testing for performance check.
 - Converted sprinkler packages design using Center pivot nozzling (CPNozzle) and Center Pivot Evaluation and Design (CPED) (before and after runs to show any increase in Coefficient Uniformity while maintaining 0" runoff).
 - Existing/proposed pivot design evaluation using ("Area1-Renozz").
 - On the Plan Map mark elevations referenced to Bench Mark: pivot point, high point, low point in the field, etc.
 - Comparison of pumping cost and pressure of before and after on pivots (if applicable).

Producer Requirements for Payment:

Install practice according NRCS plans and specifications. Payment is made following certification by appropriate NRCS staff with engineering job approval authority that the system was installed in accordance with the above requirements.