

# Environmental Quality Incentives Program

## 2013 EQIP Signup

Minnesota Supplement for:  
Practice Standard 442 – Irrigation System, Sprinkler

### **Supplemental Criteria**

1. Payment is authorized for low pressure conversions on existing center pivot systems used at least 2 of the last 5 years.
2. Payment is authorized only when Irrigation Water Management (449) is included in the contract.
3. For low pressure conversion payment components are installed sprinkler packages, pressure regulators, pressure gauges, and drop tubes. Costs are limited to those necessary for a single conversion package. Multiple components to facilitate a crop rotation are not eligible for payment.
4. Equipment suppliers are responsible for providing documentation to show that the system meets NRCS Standard 442.
5. Reduction of pressure in the irrigation system is encouraged for energy savings but not required. The regulators at each nozzle must reduce pressures to levels required in the standard.

### **Scenarios**

#### **Renovation of Existing Sprinkler System**

Center pivot sprinkler systems are used in large crop fields with fairly regular field borders and flat topography. The scenario involves changing nozzles on center pivot irrigation systems to low-pressure systems to improve efficiency of water use and reduce energy use. This scenario is intended for cropland areas where the objective is water and energy conservation. A typical scenario assumes a 1300 LF span, including end booms renozzled with low-pressure nozzles. Resource concerns include: Soil Erosion (Concentrated flow erosion e.g. irrigation induced), Insufficient Water (Inefficient use of irrigation water), Water Quality Degradation (Excess nutrients in surface and ground waters, Excessive salts in surface and ground waters, Excess pathogens and chemicals from manure, bio-solids or compost applications), Inefficient Energy Use (Equipment and facilities e.g. pumping)

Associated Practices: Irrigation Pipeline (430), Pumping Plant (533), Irrigation Water Management (449)