Water Quantity Enhancement Activity – WQT01 – Irrigation system automation

**Enhancement Description**
This enhancement entails using GPS guided variable rate irrigation or other innovative technologies that allow irrigation water application based on variable site conditions within a field.

**Land Use Applicability**
Crop, Pasture

**Benefits**
The advantages of using variable rate irrigation or other innovative technologies to reduce water use and runoff from irrigation include conservation of water resources and energy conservation.

**Conditions Where Enhancement Applies**
This enhancement applies to only the irrigated acres in the crop or pasture land use.

**Criteria**
1. Implementation of this enhancement requires compliance with the requirements of the Conservation Practice Standard, Irrigation Water Management, Code 449 (check with your local NRCS Field Office for a copy of the practice standard).
2. Development and utilization of an irrigation prescription based on soil characteristics, topography, or crops.
   a. Use of a GPS guidance and control system which will provide for the variable application of irrigation water based on variations of soils, topography, or crops; or
   b. Use of an automated control system based on technologies other than GPS which will provide for variable application of irrigation water based on variations of soils, topography, or crops.

**Adoption Requirements**
This enhancement is considered adopted when GPS guided variable rate irrigation or other innovative technologies have been installed on the irrigated acres in the selected land use.

**Documentation Requirements**
1. Documentation showing the operation of a variable rate irrigation system and how it accounted for variations of soils, topography, or crops, and
2. Copy of the irrigation prescription and irrigation logs.
References
