

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

Cropland and pastureland

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.

Criteria

1. Implementation of this enhancement requires compliance with the requirements of the Conservation Practice Standard, Irrigation Water Management (449)
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

Documentation Requirements

1. Documentation of the operation of a variable rate irrigation system which will provide for variable application of irrigation water based on variations of soils, topography, or crops.
2. Copy of the irrigation prescription and irrigation logs

ALABAMA SUPPLEMENT TO ENHANCEMENT WQT01 IRRIGATION SYSTEM AUTOMATION

The use of a variable rate irrigation system will allow the producer to better match the water need of the crop based on the variable site conditions within the field to reduce water use and runoff from irrigation. This enhancement is applicable to crop land and pasture land. An irrigation prescription based on soil characteristics, topography, or crops is to be implemented through the use of GPS guidance and control system or other automated control system that will allow a variable application of irrigation water. This enhancement requires the implementation of the Conservation Practice Standard, Irrigation Water Management (449). Refer to the national enhancement for more information.

Documentation Requirements:

1. Documentation of the operation of a variable rate irrigation system which will provide for variable application of irrigation water. (i.e. notes and photos). Photos should be date stamped and labeled with field number
2. Copy of the irrigation prescription and irrigation logs.

NRCS, Conservation Practice Standard, Irrigation Water Management (449)

<http://efotg.sc.egov.usda.gov/references/public/AL/tg449.pdf>

ALABAMA SUPPLEMENTAL INFORMATION FOR THIS ENHANCEMENT

WQT01 - Irrigation System Automation

Documentation Form

Producer Name:			Date:		
Tract Number(s):			County:		
Fields:					
Field Size (acres):					

NOTES:

1. Attach documentation of the operation of a variable rate irrigation system (i.e. notes and photos). Photos should be date stamped and labeled with field number.
2. Attach a copy of the irrigation prescription and irrigation logs.
The supplied documentation accurately reflects the implementation of this enhancement.

SIGNATURE: _____