



CONSERVATION ENHANCEMENT ACTIVITY

E449E

CONSERVATION STEWARDSHIP PROGRAM

Convert from Cascade to Furrow Irrigated Rice Production – reduce irrigation water consumption

Conservation Practice 449: Irrigation Water Management

APPLICABLE LAND USE: Crop (Annual & Mixed)

RESOURCE CONCERN: Water

ENHANCEMENT LIFE SPAN: 1 Years

Enhancement Description

Field currently flooded through a cascade levee system will be converted to furrow irrigation.

Criteria

Currently, water distribution to the field must be delivered through a cascade system, with the field having enough slope for water to advance. The irrigation water management plan is followed and includes, as per NRCS Conservation Standard Practice Irrigation Water Management (Code 449):

- Field (s) will be leveled on the lower end and sides prior to implementing the enhancement.
- An irrigation system layout map showing the main pipeline(s), irrigated area, location of layflat tubing and water control structure on the lower corner of the field.
- Methods used to measure or determine the flow rate or volume of the irrigation applications.
- Measurement records showing the amount of water applied each field.
- Documentation of the method used for scheduling the timing and amount of irrigation applications.

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Documentation and Implementation Requirements

Participant will:

Prior to implementation

- Prior to implementation, acquire an irrigation water management plan meeting NRCS Conservation Practice Standard Irrigation Water Management (449) requirements.
- Install a flow meter at well location(s).

During implementation

- Record irrigation data such as location, date, duration and flow rate (to derive volumetric estimates) of all irrigation operations. Record rainfall amounts during the production season.

After implementation

- Make the following items available for review by NRCS to verify enhancement adoption:
 - Irrigation water management plan and records.
 - Changes made to address distribution uniformity deficiencies.

NRCS will:

Prior to implementation

- Provide and explain NRCS Conservation Practice Standard Irrigation Water Management (CPS 449) as it relates to implementing this enhancement.
- Provide additional assistance to the participant as requested

After implementation

- Verify implementation of the irrigation water management plan by reviewing participant records kept during enhancement implementation (i.e. Record of irrigation dates, duration and rainfall amounts during the production season.)

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NRCS Documentation Review:

I have reviewed all required participant documentation and have determined the participant has implemented the enhancement and met all criteria and requirements.

Participant Name _____ Contract Number _____

Total Amount Applied _____

Fiscal Year Completed _____

NRCS Technical Adequacy Signature Date



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