



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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Design Approvals & Acknowledgements:

Design Approval	Date	Job Approval Authority
Designed by:		
Approved by:		

Client's Acknowledgement Statement:

The client acknowledges:

- I have received a copy of the specification and understand the contents and requirements.
- It is my responsibility to obtain all necessary permits and/or rights and to comply with all ordinances and laws pertaining to the application of this practice.
- I will not begin installation of this practice until I have received appropriate approval to do so. I understand NRCS also has Federal and state laws to comply with that may take some time to address (e.g. cultural resources).

Client's Signature	Date

Certification Documentation:

	Field Evaluation: Post-treatment inventory, measurements, notes, as-built, and supporting documentation (document completion in conservation plan), as required.
	Map(s): Including field numbers, fields treated, and units treated (may document on conservation plan map), as required.
	Photos or other supporting documentation (e.g., seed tags, soil tests, receipts, invoices, spray records, fertilizer records, etc.)
Brief Description of Work Accomplished (types of equipment used, date of application, extents and quantities installed, etc.)	

Certification Statement:

The employee certifies the implementation of this conservation practice:

- Meets the purpose, general criteria, and any required additional criteria as documented in the conservation practice standard and/or enhancement sheet.
- Meets the specifications contained herein and is complete.
- Conforms to my existing Job Approval Authority controlling factors and levels.

Name	Date	Job Approval Authority

Field Level Certification – For multiple applications of this design.				
Land Unit/ Contract Item Number	Date	Unit(s)	Amount Installed	Certifier