



United States Department of Agriculture
Natural Resources Conservation Service

WELCOME TO THE 2012 CONSERVATION DRAINAGE WORKSHOP

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Conservation Planning covers all resource concerns



Drainage Water Management

The objective of Drainage Water Management (DWM) is to control soil water table elevations and the timing of water discharges from subsurface or surface agricultural drainage systems.

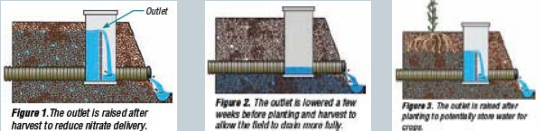


Figure 1. The outlet is raised after harvest to reduce nitrate delivery.


Figure 2. The outlet is lowered a few weeks before planting and harvest to allow the field to drain more fully.

Figure 3. The outlet is raised after planting to potentially slow water for crops.

Illustrations from Drainage Water Management, WQ-44, Purdue University


Key Points

- DWM is ideally part of an overall conservation plan
- How NRCS can pay for DWM planning - EQIP
- How you find a Technical Service Provider



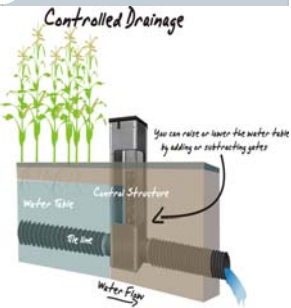
Drainage Water Management

- Can be an important practice
 - To reduce nutrient losses
 - To preserve soil moisture
 - To allow dormant season saturation for
 - ✦ Wildlife benefits
 - ✦ Water storage



CAP130 – Drainage Water Management Plan

- For NRCS Funding:
 - Producer must have an EQIP contract
 - Work must be performed by a NRCS certified TSP
 - Plan must meet NRCS requirements

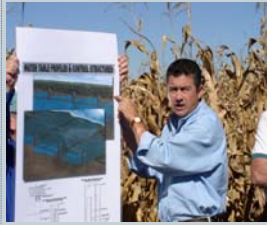


Controlled Drainage

You can raise or lower the water table by adding or subtracting gates.

DWM Planning

- Conservation Activity Plan 130(CAP130)
- Payment rate for 2012 was \$1415 per field
 - 20 ac?
 - 160 ac?
- Anticipate revisions in 2013



Charlie Schafer, President, AgriDrain, Adair, Iowa

DWM Planning

- In Minnesota..
 - NRCS can fund DWM planning assistance for
 - ✦ Retrofitting old systems
 - ✦ New systems

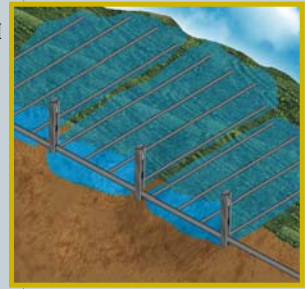



Illustration from AgriDrain, Adair, Iowa

DWM Planning

- NRCS does not pay for tile in a Drainage Water Management Plan.
 - The upstream tile water enters Water Control Structures.
 - Possible New for 2013 EQIP signup - Interim Vegetated subsurface drain outlet practice (Saturated Buffer)




Implementation

NRCS can pay toward:

- Water Control Structures
 - \$1071 for 10" or smaller
 - \$1285 for 12" or larger

This includes payment on fittings, piping, anti-seep diaphragms, etc...




Implementation

Denitrifying Bioreactor

- 2012 rates \$18.00 cu yd.
- The payment includes the volume of wood chips, excavating, piping, and fabric

Drainage Water Management

- ✦ 2012 rates paid \$7.58/acre for 3 years
- ✦ Limit is \$1100



Implementation


If public funds are involved, requires additional technical assistance:

Specs for control structure

- Materials
- Installation
- Already have location/elevation

Construction verification

Certifying



How to signup for EQIP

- **EQIP is a continuous signup.**
- **Each Fiscal Year the MN – NRCS sets funding ranking periods.**
- **Applicant must complete a NRCS-CPA-1200 with their local NRCS Field Office.**

Applicant must meet the EQIP program requirements to be considered for funding

- **Be a producer**
- **Have control of the land for the term of the proposed contract period**
- **Be in compliance with the Highly Erodible Land (HEL) and Wetland Conservation Compliance (WCC) provisions.**


EQIP

- **The Drainage Water Management CAP 130 practice is a stand alone application.**
- **Once a CAP 130 plan has been completed and certified by a NRCS Certified TSP, NRCS field office can issue payment.**
- **The next EQIP application can be completed based on what the plan requires for structures and Drainage Water Management**

How do you find a TSP?

- **Ag Drainage Management Coalition web page**
<http://admcoalition.com/>
- **NRCS TechReg website:**
<http://www.nrcs.usda.gov/wps/portal/nrcs/main/national/programs/technical/tsp>

Google: NRCS TechReg



Questions?

- **DWM is ideally part of an overall conservation plan**
- **How NRCS can help pay for DWM planning**
- **How you find a TSP**



Follow these suggestions for good TILE DRAINAGE

MAKE COMPLETE PLANS BEFORE STARTING TO LAY TILE

There is a common saying, mentioned in the drainage design and construction, make the necessary survey, plan the best and most economical system, make out the tile lines and check construction. In fact, you are money and give you the best the system in your field. Plan your tile system for all the wet areas to be drained into one main area. If you intend to tile only a part of the area on this plan. Your work will then be large enough to handle all the area when the time comes.

Provide for the drainage of the drainage ditch. The drainage ditch should be planned and constructed before the tile is laid. The drainage ditch should be planned and constructed before the tile is laid. The drainage ditch should be planned and constructed before the tile is laid.

Be sure the tile is installed according to the plan and plan. You can be sure of the tile if you are sure of the plan. Be sure that a standard tile drainage can be used to select the size of tile.

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