Bad Axe Creek
Nutrient Reduction

COST-SHARE DOLLARS NOW AVAILABLE

Cover Crop - $35 per acre
No-Till - $17.50 per acre
Zone-Building/Strip-Tillage (System) -$50 per acre
Zone-Building (Alone) - $28 per acre
Strip-Tillage (Alone) - $18 per acre
Shallow Vertical Tillage -$17 per acre
Grade Stabilization Structure – up to $3,500 each
Tile Outlet Repair – up to $450 each
Corn Stalk Residue - $12.50 per acre
Pre-Sidedress Nitrate Testing - $1.71 per acre
Nutrient Management - No Manure - $10 per acre
Nutrient Management - With Manure - $12.50 per acre
Hobby Farm Manure Management – up to $8,000 each
Medium Waste Storage Structure – up to $75,000 each

Cost-Share dollars are now available to implement BMPs**. To be eligible to apply for cost-share your proposed site must be located within the boundaries of the watershed**. **Producers should also consider USDA programs.** *All requests for cost-share are subject to Technical Committee approval. Payments will not be made for a practice started or completed prior to Technical Committee approval.*

Contact us today at the
Huron Conservation District
1460 S. Van Dyke
Bad Axe, MI 48413
(989) 269-9540 extension 3

BMPs AND GUIDELINES FOR BAD AXE CREEK NUTRIENT REDUCTION COST-SHARE

Cover Crops $35 per acre
A cover crop is a grass, forb or legume providing seasonal cover and soil conservation. The cover crop protects the soil from wind and water erosion when crop residues are not adequate. Cover crops reduce crop seedling blow out, suppress weed seedlings, and acts as a nitrogen trap.
Seeding must be completed by the following dates: Rye – Nov. 15th, Wheat – Nov. 1st and Oats – Sept. 15th for fall seeded covers (these are just some examples of seedings and planting dates, many types of cover crops will be considered). Cover crops may be spot seeded in conjunction with sugar beets in the spring and maintained until beets have reached a stage where protection against blow out has passed. Acres may be limited if funds are not adequate to cover all request. Payment will be made after cover has been certified established by a technician. Must be signed up and approved before completing practice. Cover crop can be chopped as a forage crop in the spring but cannot be harvested as a production crop. Volunteer stands do ***not*** *qualify. Producer must not have previously adopted this practice as determined by the technical committee. Exception: practice is enhanced. Example-producer has used single species in the past and wants to try mixtures.*

No-Till Planting $17.50 per acre
The purpose of no-till is to seed directly into the previous crop's undisturbed residue (corn stalk chopping is allowed). This reduces wind and water erosion, sediment and phosphorus deposition to surface water bodies.
Producer must not have previously adopted this practice as determined by the technical committee.
Payment will be made after technician's verification of this practice.

Zone-Building/Strip-Tillage (As a System) $50 per acre
A combination of zone building in the fall or spring and strip tillage in the spring must be performed.
Zone-Building: (Stand Alone) $28 per acre Deep vertical tillage, performed in the fall, and designed to alleviate compaction in preparation for strip tillage of the row centers. This operation must be performed with a tool specially designed for this purpose, (examples: Unverferth Zone Builder, Brillion Zone Commander). Row crop must be planted directly on zone strips. Spring planting operation may require the addition of "add-on" equipment (additional coulters or residue managers) to planter row units. No full width tillage can be performed in the spring.
StripTillage: (Stand Alone) $18 per acre Shallow narrow row tillage done prior to planting with a planter equipped with additional coulters or residue managers or other specialized strip tillage equipment. A strip till tillage machine may allow the use of a conventional planter with no additional modification. No full width tillage can be performed in the spring.
Payment will be made after technician verifies the completed practice. Must be signed up and approved prior to completion of practice. Producer must not have previously adopted this practice as determined by the technical committee.

Shallow Vertical Tillage $17 per acre
Tillage done to a depth of 1 in. - 2.5 in. in the fall after harvest or in the spring prior to planting. Shallow vertical tillage is performed to size residue, incorporate fertilizer and manure, remove small weeds, level the soil surface slightly, increase residue decomposition, improve soil drying and relieve surface compaction. The tool is equipped with straight or wavy coulters and does very little soil inversion, blade concave cannot exceed 2%, tool can be equipped with a leveling attachment such as a rolling spike, rolling basket or reel. Shallow vertical tillage is one pass followed by planting. Producers using shallow vertical tillage will also be eligible to use the no-till practice on the same field. *Producer must not have previously adopted this practice.*
(Acceptable tools would include but are not limited to: Agco-Sunflower 6630 series, Great Plans Turbo Till or Turbo Chopper, Salford I-1100 (RTS), Case IH-True Tandem 330 Turbo, Kongskilde-Verta-Till 9100, Summers-Supercoulter Plus, Landoll-7400 VT Plus series, Krause-Excelerator, McFarlane-Reel Disc, John Deere-2623 VT (front & rear gang angle not to exceed 15º)

Grade Stabilization Structure **Up to $3,500 per structure**

A structure used to control the flow of water from one grade to the next while controlling the threat of erosion. Here are some examples of acceptable structures.

Drop Control Structure Chutes or Flumes (Sod, rock or concrete)
Side Drain (Enclosed)

Landowner is responsible for obtaining a MDEQ and Drain Commission permit (no charge for Drain Commission permit). The permit fee can be included in bills submitted for cost share reimbursement. Personal labor charged will not exceed $17.55 per hour. Landowner will be required to sign an Operation and Maintenance Agreement. Payment will be made after practice has been certified installed as planned by a technician. MDEQ engineers must review and approve all designs. This process could take 6 to 8 weeks. Bills must be provided to calculate cost share

Tile Outlet Repair **up to $450 per site**

The purpose of repairing tile outlets is to eliminate stream bank erosion caused by lack of suitable outlet pipe, pipe that is damaged or in poor structural condition.

MDEQ engineers must review and approve all designs. This process could take 6 to 8 weeks. Bills must be provided to calculate cost share. Landowner will be required to sign an Operation and Maintenance Agreement. Payment will be issued after practice has been completed and certified by a technician.

Corn Stalk Residue **$12.50 per acre**

The purpose of the corn stalk residue is to leave the corn stalks undisturbed (stalk chopping is allowed) until April 1st the following spring. This reduces erosion, sediment and phosphorus deposition to surface water bodies. *Payment will be made after the technician has certified that the practice has remained in place until April 1st.*

Pre-Sidedress Nitrate Testing **$1.71 per acre**

The purpose of the PSNT is to determine the amount of nitrates available at sidedress time and apply only the amount needed for the current crop to reduce the loss of nitrates to surface or groundwater.

Payment will be made when the technician has certified the practice after reviewing the PSNT results and your as-applied records. Producer must not have previously adopted this practice.

Nutrient Management no manure **$10 per acre**
Nutrient Management with manure **$12.50 per acre**

A plan developed with a HCD technician to manage the amount, source, placement, form and timing of the application of nutrients. The plan will minimize agricultural non-point source pollution of surface water.

Payment will be paid after successful review of your as-applied records. Producer must not have previously adopted this practice as determined by the technical committee.

Hobby Farm Manure Management Structure **up to $8,000 per structure**

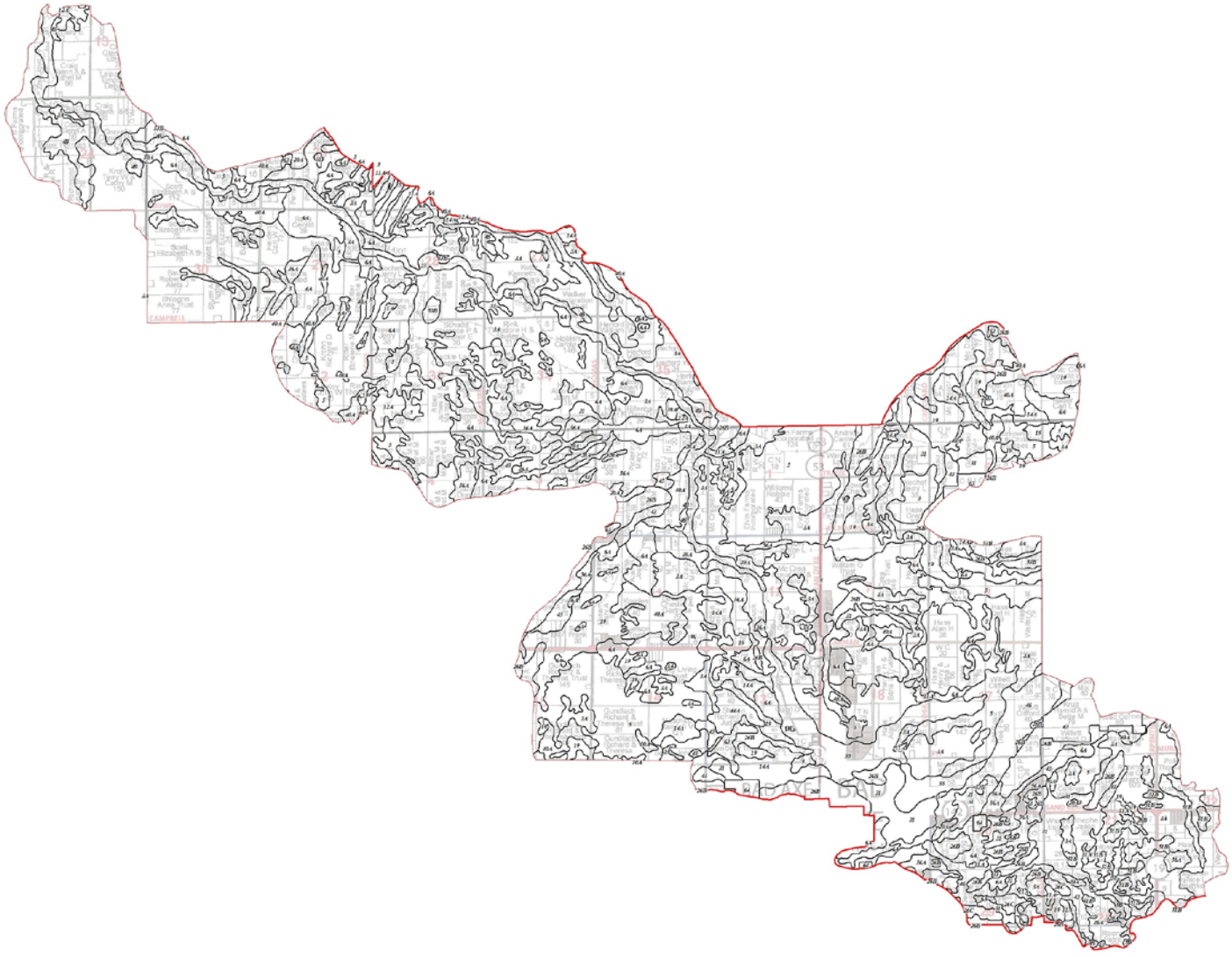
The structure will store all livestock waste generated for a maximum period of 6 months. A waste management plan will be developed for all approved systems by Huron CD. For the purposes of this grant, each site, number and type of animals will be evaluated on a case by case basis. In general a hobby farm may have 2 to 3 horses or ponies, 3 to 4 steers, 4 to 6 hogs and other livestock with similar numbers.

The necessary structure will be designed by an engineering firm and sent for review and approved by MDEQ reviewing engineer. MDEQ review could take 6 – 8 weeks. Bills must be provided to calculate cost share. The waste structure must be maintained and utilized for a minimum of 10 years and the owner will sign an operation & maintenance agreement. Landowner is responsible for all permits, cost of permits can be included in the calculation of cost share allocation.

Medium Waste Storage Structure up to $75,000 per structure

The structure will store all livestock waste generated for a maximum period of 6 months. A waste management plan will be developed for all approved systems by Huron CD. For the purposes of this grant, each site, number and type of animals will be evaluated on a case by case basis. In general a medium farm may have 200-300 milk cows or steers. *The necessary structure will be designed by an engineering firm and sent for review and approved by MDEQ reviewing engineer. MDEQ review could take 6 – 8 weeks. Bills must be provided to calculate cost share. The waste structure must be maintained and utilized for a minimum of 10 years and the owner will sign an operation & maintenance agreement.*

BAD AXE CREEK WATERSHED



Bad Axe Creek
Nutrient Reduction
Cost Share Application

Name: _____ Date: _____

Farm Name: _____ Phone: _____

Mailing Address: _____

Signature: _____

Location of Proposed Site

Township: _____ Section: _____ Acreages: _____

Township: _____ Section: _____ Acreages: _____

Township: _____ Section: _____ Acreages: _____

Practices

___ Cover Crop
___ No-till
___ Zone bldg. / Strip-till (system)
___ Zone building (alone)
___ Strip-till (alone)
___ Shallow vertical tillage
___ Grade stabilization structure
___ Tile outlet repair
___ Corn stalk residue
___ Pre-sidedress nitrate testing
___ Nutrient mgt. – no manure
___ Nutrient mgt. – with manure
___ Hobby farm manure structure
___ Medium waste stg. structure

Notes and additional comments: _____

_____

_____

For office use only Estimated C/S _____ Actual C/S _____

Paid To: _____ Tax ID # _____

Date: _____ Amount: _____ Check No. _____

For office use only:

As applications are reviewed, you will be notified of acceptance or denial.

We reserve the right to limit cost share for all practices.

For office use only

_____
Technician

_____
Date checked

Aerial Photo Attached