

Animal Enhancement Activity – ANM31 – Drainage water management



Enhancement Description

This enhancement consists of seasonal hydrology management during non-cropping periods for wildlife habitat on working lands.

Land Use Applicability

Cropland

Benefits

Maintaining flooded or saturated soil conditions during non-cropping periods can have multiple benefits. Flooded fields can provide important

habitat for migratory waterfowl and other species that benefit from temporarily flooded land. Flooded areas provide food, cover and resting areas for wildlife, especially waterfowl during their migration.

Conditions Where Enhancement Applies

This enhancement applies to cropland that has been artificially drained (surface or subsurface) and which is flat enough that significant portions can be flooded or saturated by controlling outflow from the drainage system.

Criteria

Refer to the criteria in Conservation Practice Standard, Drainage Water Management (554), Shallow Water Management for Wildlife (654), Upland Wildlife Habitat Management (645), Wetland Wildlife Habitat Management (644), and Structure for Water Control (587) for the requirements for drainage/water control structures, their management and vegetative management to be used with this enhancement. Contact your local conservationist for assistance with Conservation Practice Standards.

1. Develop a plan that:
 - Identifies the targeted species or suite of species (e.g., giant gartersnake, shorebirds, waterfowl, other waterbirds)
 - Provides for the installation, retrofitting of existing, or utilization of existing water-supply and water-control structures, including pumps and irrigation gates for precise water-level control such that seasonal shallow water is assured.
 - Establishes the optimum flooding or saturation including timing, frequency, depth, and duration of ponding and/or soil saturation that provides at least
 - Ponding of 1/3 of the surface area of the cropped field
 - Ponding for 45-days during the target season
 - Final drawdown is extended over at least a 2-week period
 - Provides wildlife food through the management of crop residues, or plantings of wildlife friendly cover-crops



United States Department of Agriculture
Natural Resources Conservation Service

2012 Ranking Period 1

Adoption Requirements

This enhancement is considered adopted when drainage control structures are in place on all fields where the enhancement will be implemented and fields are flooded such that ponding or saturated conditions meet the target hydrologic conditions in the plan.

Documentation Requirements

1. Plan developed for the target species,
2. List of fields where this enhancement was implemented,
3. The surface area of each field that is ponded,
4. List of equipment installed, retrofitted, or utilized for water level control and where it is located,
5. Dates when fields were ponded and when final drawdown began and when completed, and
6. Photographs of the impounded area(s). Photos must be dated and labeled with field number.

Michigan Supplement

ANM31

Conditions Where Practice Applies

1. On lands, both hydric and non-hydric, where water can be impounded or regulated for the purpose of wildlife habitat management.
2. A water table will be maintained without affecting adjoining properties.

Criteria

1. Drainage water will be managed using a water control structure or device.
2. Drainage water management will be planned, designed, and installed to meet all federal, state, local, and tribal, laws and regulations.
3. NRCS Shallow Water Development and Management (646) and Drainage Water Management (554) conservation practice standards will be followed.
4. The system shall provide saturation to the soil surface or shallow flooding at a maximum average depth of 18 inches to provide wildlife habitat unless deeper average depths are incidental to flooding a minimum of 1/3 of a field.
5. Flooding will be maintained annually for a minimum of 45 days between September 1 and June 1.
6. If flooding begins prior to October 1, water levels must be maintained through April 15 to avoid detrimental impacts on hibernating reptiles and amphibians.