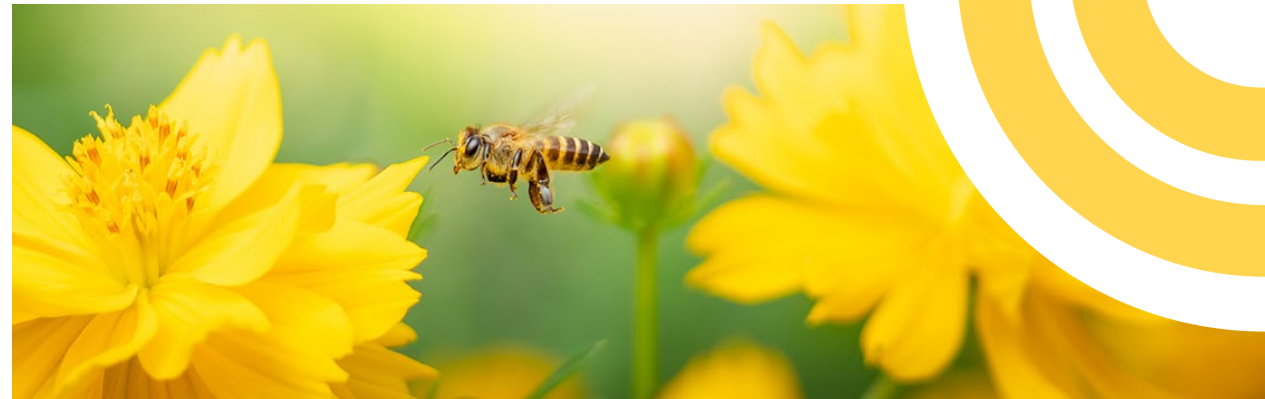




Natural Resources Conservation Service
U.S. DEPARTMENT OF AGRICULTURE



WRE & WREP Opportunities

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FARM PRODUCTION AND CONSERVATION
FSA | NRCS | RMA | Business Center

Management Types

- Compatible Use Agreements (CUA)
 - Are for landowner management using approved practices
- Customer Program Contract (CPC)
 - Are for using stewardship funded management practices
- Landowner Agreement
 - Through RWBJV that allows landowners to complete management with cost share
- RWBJV Management
 - Allows certain management practices to happen on the easement with no cost to the landowner



Management Techniques Used

- Grazing
- Burning
- Herbicide Treatment
 - Wetlands
 - Uplands
- Brush Management
- Haying
- Beaver Dams
- Water Control Structures
- Discing
- Reseeding/Interseeding
- Pumping
- Pivot Modifications



Grazing

- Trampling of wetlands that create openings and exposed mud flats that some wildlife species desire
- Graze during the months of April - November
 - Depending on producer and easement
 - Continuous VS Rotational
- Higher stocking rate on wetland acres
- Effective at reducing plant stand height, as well as creating structural and species diversity
- Reduce cover/root systems of invasive species



Grazing

- Trampling can create seedbed for annual plants
- Grazing can make other management tools more effective
- Grazing has an income benefit
- Timing considerations for nesting birds and T&E Species
- Need CUA Agreement
- Focus Grazing on Invasive/Noxious weeds
 - Fencing out these areas
 - Higher stocking rate or Longer time during important timeframes



Prescribed Burning

- Reduce/Eliminate invasive species
- Remove excess thatch that's accumulated
- Recycle nutrients back into the system
- Need additional management
- Help reduce woody species
- Tool to use ahead of grazing or spraying



Management with Prescribed Burning

- Use of fire will treat the areas of phragmites that are thick and have dense dead stems
 - Help locate & spot treat regrowth
 - Herbicide treat before burning
 - Due to fires encouraging rhizome growth
- Multiple management techniques are needed
 - Herbicide, grazing, burning



Herbicide Treatment

- Need to consider potential impacts to other plants, crops and wildlife
- Follow all label directions for both aquatic and upland herbicides
- Very efficient for control of monotypic stands of invasive plants, if the right chemical is applied according to the directions
- Can be expensive



Brush Management

- Timing considerations for nesting birds and T&E Species
- Fire, Grazing and Haying can help control small brush
- Easier to treat woody invasion when plants are smaller
- Smaller woody plants can be shredded or sheared
- Herbicides can be used, especially in uplands for help with brush management
- Deciduous trees will need to be cut/ground down and treated
 - For cedars, stumps do not need treated



Beaver Dam

- Restoration of Riverscapes
 - Beaver Dam Analogues (BDA) or Post-Assisted Log Structures (PALS)
 - BDA – hand-built structures that promote the process of beaver dam activity
 - Mix of woody debris and fill material to promote temporary ponding
 - PALS – hand-built structures that promote wood accumulation
 - Woody material of various size are pinned together with untreated wood posts that are driven into the soil
 - Process – based restoration of rare and declining stream conditions
 - Structures are used to mimic, promote, and sustain the natural process of beaver dam activity and wood accumulation
 - Intended to kick-start natural maintenance of healthy and functioning streams
 - Self sustaining process



Haying

- Timing considerations for nesting birds and T&E Species
- Limited removal on invasive herbaceous plants, but will reduce woody plant invasion.
- Can make other types of management more effective.
- Haying/Shredding will affect the plant community
- Has a benefit of creating income.



Water Control Structures

- Wetlands are not supposed to be wet year round
- Well adapted to wet/dry cycles – simulate through water level management
- Should be done in conjunction with other treatments
- Can manipulate vegetation
- Draw-downs are needed for wetland seeds to germinate
- Structures need constant maintenance



Management with WCS

- Phragmites/Reed canarygrass is intolerant of persistent flooding
 - Increase in water level alone is not effective in controlling
- Draw-downs should be in late summer
 - (mid/late July early August)
 - Maintain and promote native vegetation
 - Avoid reestablishment of Phragmites



Discing

- Used when dealing with an extreme amount of invasive plants
 - Never to be done in natural wetlands
- Not a tool to use if the plant community is desirable
 - Other management treatments will help
- Creates bare ground for moist soil, helps plants with germination
- Can be effective alone if followed by hot/dry weather
- Can be expensive as it needs multiple passes
 - Multiple times of reseeding during dry conditions



Reseeding/Interseeding

- Native seed collection
- Reseeding areas for management purposes
- To be used with a CUA, allowing Cattle on headed out grassed areas



Pumping

- Useful when a watershed has been altered and the original hydrology has been limited
- Pumping can be used to achieve desired plant community
 - Flooding out invasive species
 - Create moist soil profiles
- Can provide water at critical times when water or access to food may be limited
 - Migration
- Can enhance the landowner's property for hunting
 - If it doesn't inhibit desired vegetation
- Can be expensive
 - Wetlands are not always wet
- New WEDs prohibit any ground disturbance for utility lines
 - If well/line was previously there it can be utilized



Pivot Modifications

- Pivot bridges
 - Allow there to be a fence for grazing
 - Complete circle
 - Machinery crossings (4 wheelers/UTV)
- Flotation Tires
 - No ruts
 - No flat tires
 - Increased traction
- VRI
 - Maximize irrigation efficiency within fields that contain wetlands
 - Eliminate inputs over wetland acres
- Soil Moisture Sensors
 - Maximize irrigation efficiency cost
 - Eliminate excess inputs of water
- Funding through Landowner Agreement



CPC

- Management that can be paid for
- Area Easement Specialist thinks would benefit easement
- Funding through Stewardship funds received by the state
- Used for Restoration



Landowner Agreement

- Agreement between Landowner and RWBJV
- Has a term of agreement based on practices completed
- Has cost share attached to the agreement
- Main practices:
 - Livestock Watering system
 - Grazing Infrastructure
 - Pivot Modifications (WREP)



RWBJV Management

- Following practices are available:
 - Herbicide Treatment
 - Prescribed Burning
 - Tree pile burning
 - Tree Removal
- The projects are bid out together based on practices
- Area Easement Specialist can put you on that year's list for management needed

