Cultivating a Conservation Grazing Program as a Public Land Manager

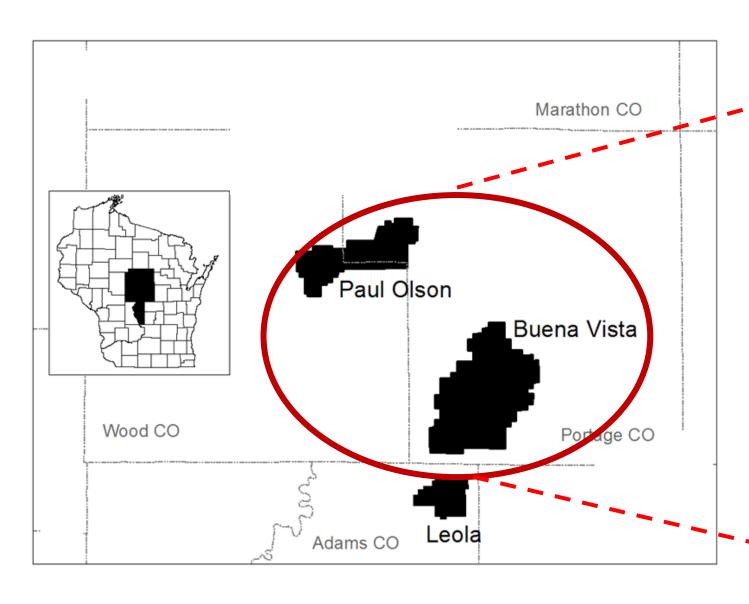


Topics Covered

- My early grazing experiences
- Evolution of our grazing program
- Current grazing program successes, challenges, lessons learned



Central Wisconsin State Wildlife Areas







- Minimal experience with grazing
- Limited on-the-job training by veteran staff
- No formal training





Pre-existing Grazing Program

- Management tool since 80s
- Continuous grazing
- Small group of local producers
- No grazing plan

Managed Grazing - A New Tool

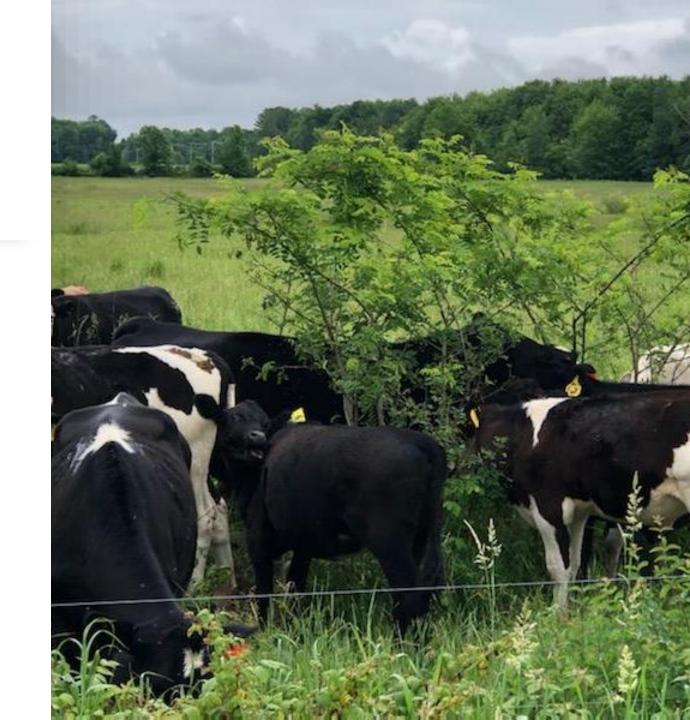
- Initiated in 2015 by local wildlife technician
- Desire to adjust stocking, timing, intensity
- My pilot project
 - Infrastructure contracted (\$\$\$)
 - Grazing specialist wrote forage-based plan
 - Limited interest (1 bid)
 - Producer & myself new to rotational





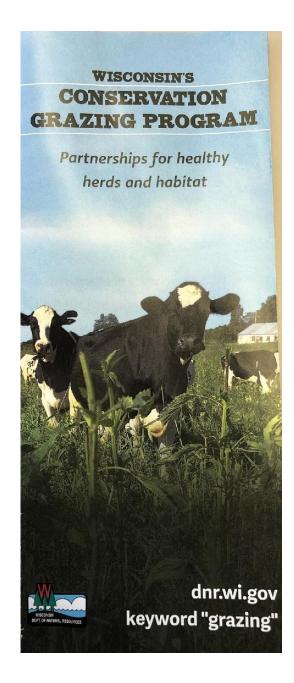
Why Grazing?

- Below ground: soil health, clean water
- Maintain/enhance grassland habitat
- My primary "above ground" objectives
 - Reduce brush, residual grass, herbaceous invasives
 - Enhance plant species diversity



Support for Public Land Grazing Essential

- Staff
 - Permanent Grassland Specialist
 - Grazing Team
- Conservation Grazing Field Guide
- Secured funding
- Grasslands priority habitat
- Training



Training

- Classes
 - Farming 101
 - Grazing, nutrient management plans
- Conferences
- In the field
 - Fencing days
 - Grassland Specialist site visits



Greater Prairie-Chicken Management Plan

- Revised in 2022
- Expand conservation grazing





Partners are an essential part of our public lands grazing program



Financial Support

- Equipment/infrastructure
- Land acquisition
- Access to grants, programs







Outreach

- Landowner mailings, site visits, workshops
- Pasture walks
- Social media
- Outcomes
 - Improved agricultural community relations
 - Interest in public land grazing
 - Appreciation for public lands





Environmental Quality Incentives Program

- Partners
 - U.S. Department of Agriculture Natural Resources Conservation Service
 - Pheasants Forever
- 5+ year grazing contracts
- Public lands eligible
- Cost-share
 - Infrastructure
 - Grazing practice
 - Inter-seeding
- Lessons
 - Start early
 - Good communication



Adopt a Wildlife Area Program

- University of WI-Stevens Point Student Chapter of The Wildlife Society
 - Pasture infrastructure
 - Brush/invasive species control
- Farmers of Mill Creek Watershed Council
 - Brush/invasive species control
 - Outreach to local agricultural community

Finding Producers

- Limited outreach in past
 - mailing list
 - local paper
- Enhanced outreach, more diverse producers
 - pasture walks
 - workshops/conferences
 - partner organizations
 - webpage









Developing Relationships with Producers

- Lack of trust in some government
- Seek first to understand, then to be understood
- Manager should be
 - Responsive, available
 - flexible with work schedule
 - Adaptive in communication style

Rare Species Protocols

- To reduce/prevent incidental take
- Multiple rare species
- Requirements
 - Avoidance periods
 - Stocking rates



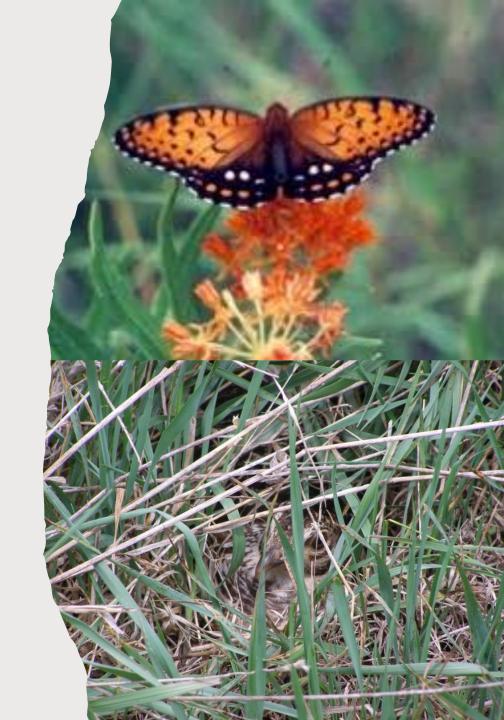
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Grazing Management Plans

- Grassland specialist consultation
- Habitat/species goals & objectives
- Resource and forage inventory
- Plans
 - Livestock grazing
 - Monitoring
 - Contingency
- Operation/maintenance
- Maps

Grazing regimes

- Habitat objectives drive regime
- Average residual grass height (6-10")
 - Wildlife cover
 - Start date, stocking, contingencies
- Move every 1-2 days (May-June)
 - Minimize nest trampling
 - Higher quality forage
- Move every 3 days (cool season grass slump)
- Longer rotations during nesting when possible
- Refuge areas



Monitoring

- Are we meeting our objectives?
- Weekly monitoring
 - Average residual grass height
 - Rotations, stocking
- Contingency plan
 - Below average residual grass height
 - Reduce/remove livestock
 - Sacrifice area(s)











Fencing

- Mostly DIY
- Adapting/refining our process
- Lessons for success
 - Plan ahead
 - Staff training
 - Preliminary work







Electric

- Equipment we provide
 - Fence energizer w/ solar panel kit
 - Batteries
 - Fence tester
- Challenges
 - "Off the clock" damage
 - Vandalism/theft
- Lessons
 - Have backup supplies
 - Keep equipment well hidden
 - Inventory for insurance

"Your Cows Are on the Road"

- When livestock escape public land pastures, expect
 - A lot of phone calls, texts
 - Evening, weekend occurrences
- Lessons
 - Regular fence checks
 - Create pasture maps with producer mobile #
 - Share map with warden, county dispatch, neighbors



Water Systems

- Ponds
- Gravity-fed (pumping)
- Well with electric or solar pump
- Portable water tanks
- Waterline (above/below ground)





Challenges of Creating Water Sources

- Well drilling can be expensive
- Wetland permits (ponds)
- Water transport on flat terrain











Water Installation and Maintenance

- Mostly DIY
- Above vs below ground waterline
- Biggest lesson plan ahead!







Before

After

Equipment Storage/Inventory

- Label all equipment
- Dedicate a storage area
- Check out/check in list
- Repair/replace in winter







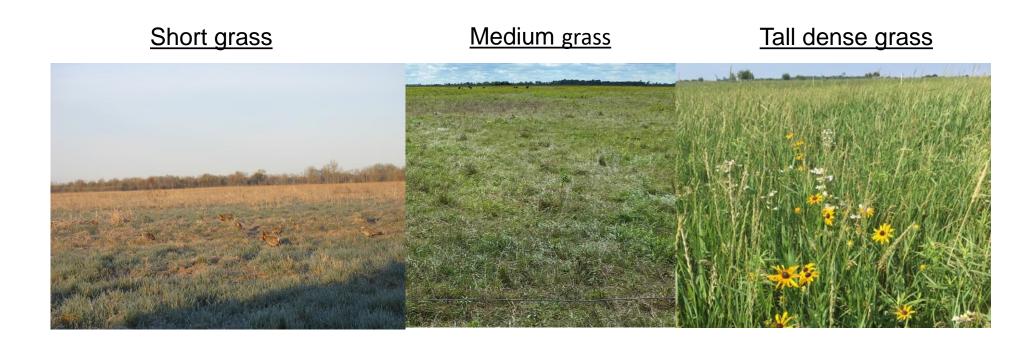
Organic Producer Considerations

- National Organic Program Pasture Rule
- Fence infrastructure/maintenance
- Pesticide use
- Forage improvement

Achieving Our Wildlife Habitat Objectives



Managed Grazing for Structural & Species Diversity of Plants



Woody Vegetation Control

- Some control
 - Browsing (aspen)
 - Rubbing
- Stocking density important
- Combine with mowing & herbicide
- Consider livestock hoof injury



Herbaceous Invasive Control, Buena Vista Wildlife Area

- Canada Goldenrod
 - Native, but aggressive
 - Reduction (local study)
 - Anecdotal evidence (managers, producers)
- Thistle species











Inter-seeding

- Clover, native flowers
- Dormant (frost) seeding





Public land grazing: More than a habitat management tool

- Focus on people & partnerships
- Promotes
 - engagement in conservation efforts
 - appreciation for public lands
 - Understanding/trust between public land managers & agricultural community
- Fosters partnerships

