Upper Midwest Grazing Educators Webinar Series

Green Lands Blue Waters





Teaching the Basics of Grazing May 15, 2015

Hosted by Warren King and Jane Jewett



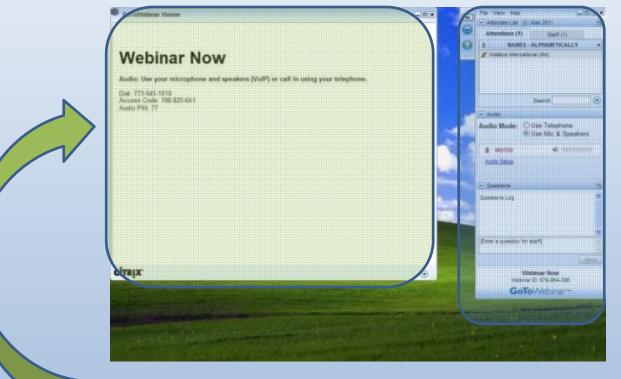
- Co-manager of the Pasture Project
- President of WellSpring, Ltd
- Work focused on expanding environmentally sustainable farming, developing local & regional food systems and improving water quality



- Research Fellow, University of Minnesota
- Green Lands Blue Waters Initiative

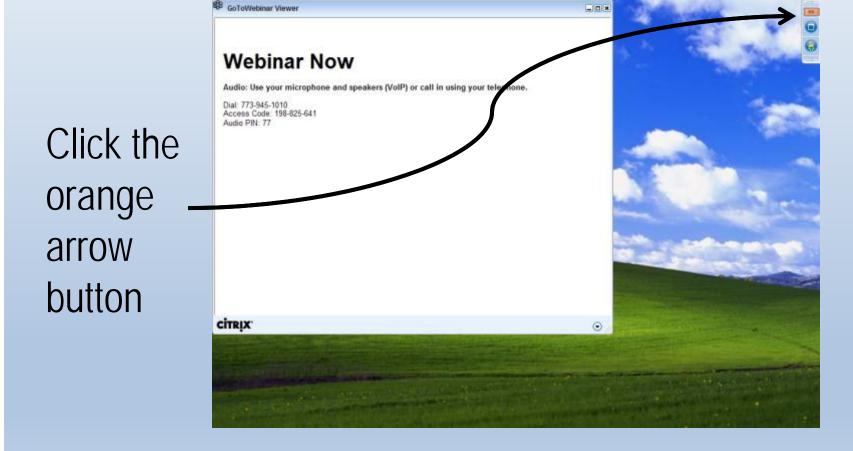
Webinar Technical Orientation

Your Starting Screen

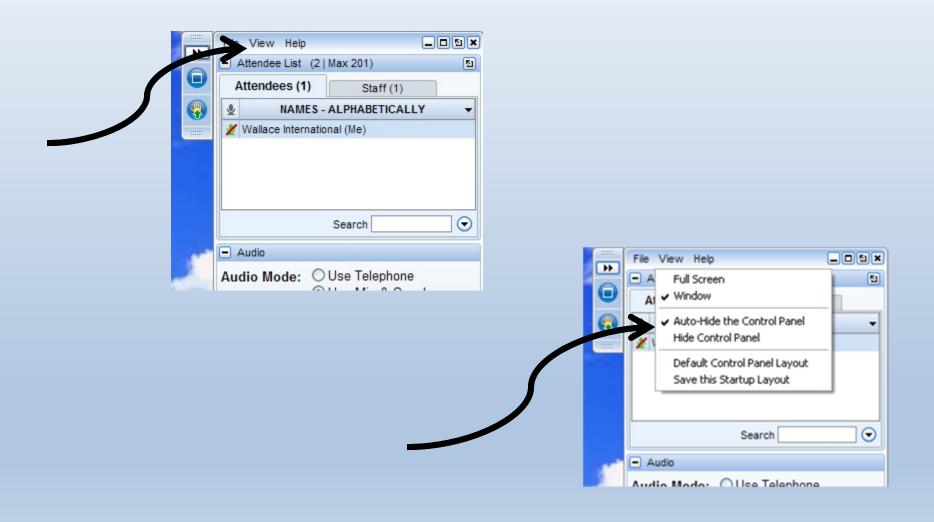


Presentation Control Panel

To Display Minimized Control Panel



To Keep Control Panel Visible

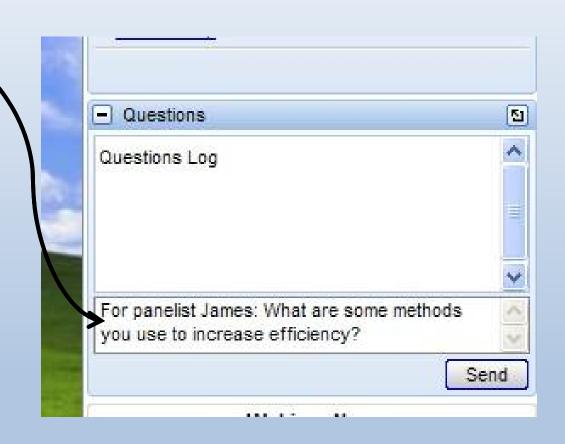


To Ask a Question

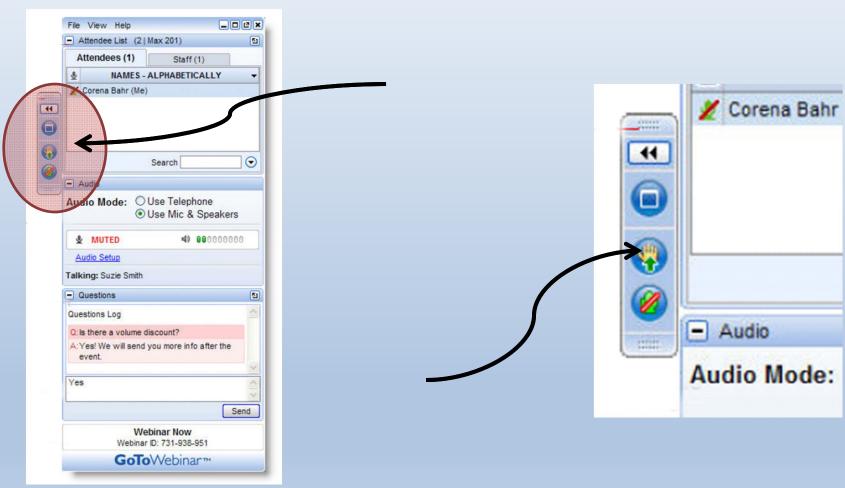
Type your question in the small box at the bottom of the Questions box.

If possible, specify which panelist(s) you are addressing with your question.

Press "Send"!



To "Raise Your Hand"



Post-Webinar Survey

- We will be sending out a survey following the webinar.
- These surveys help to make for a better experience for everyone involved, if you could please take a moment to fill them out, it would be of great help to us.

Who's Sponsoring the webinar series?

Green Lands Blue WatersGoals

- Increase perennial forage and pasture
- Improve environmental performance of farming
- Maintain production and profitability

The Pasture Project

Goals

- Expand grass-based livestock production
- Accelerate transition to sustainable farm production
- Improve water quality

Why Focus on Grazing Educators?

- The Upper Midwest is a unique geography
- More young farmers are interested in livestock production
- More landowners and conservationist are interested in livestock benefits
- More consumers want pasture raised meat and dairy products

- Less public funding for grazing networks and education
- Fewer professional development opportunities for educators
- Changes in grazing techniques and terminology
- No single source for education materials

What Could a Grazing Educator Network Achieve?

- Connect Upper Midwest Educators through discussion and sharing
- Assess education materialstool; determine what's missing and fill the gaps
- Create a platform to house and access materials and tools
- Share what works and why
- Cross-pollination of staff, students, apprentices and programs

- Involve established grazing education programs
- Access materials-tools no longer in circulation
- Build collaboration that is more "grass-roots" than "topdown"
- Include educators of various types; farmers, academics, agency and consultants
- Establish basic principles of managed grazing that are taught by all

What is the format for today's webinar?

- Presenters will discuss topics, sharing experience and insights
- Audience is encouraged to do the same
- Moderators will "direct the traffic" and keep discussion moving
- Audience is asked to take a brief survey at the end of the webinar



Andy Marcum

- Andy Marcum is the Ag Lands Solutions Specialist for the Land Stewardship Project. His work focuses in the Chippewa River Watershed on the Chippewa 10% Project, a cooperative effort focused on increasing perennial cover throughout the watershed.
- Growing up on a Hereford Ranch in Oregon, Andy has gained an extensive background in cattle and grassland management.
- Currently Andy works with various landowners to improve production and profitability on their property
- Andy also raises Grassfed Beef on his own ranch using intensive grazing management to restore degenerated pasture and Native Prairie.



Laura Paine

- Laura Paine has been involved in Wisconsin's sustainable agriculture community in a variety of roles for more than 20 years.
- From 2006 to 2014, she served as Grazing & Organic Agriculture Specialist for the Wisconsin Department of Agriculture, Trade and Consumer Protection.
- Paine is currently Program Director for the Dairy Grazing Apprenticeship, a formalized, nationally accredited training program for beginning dairy farmers.
- She has a Bachelor's Degree in Botany from Southern Illinois University, a Master's Degree in Horticulture from the University of Wisconsin, and is a Certified Educator for Holistic Management International.
- She and her husband raise and direct market grassfed beef on their farm near Columbus, Wisconsin.

Conservation and the Environment on the Grazing Farm:



Grassroots Success in Landscape Level Change



Andy Marcum & Laura Paine

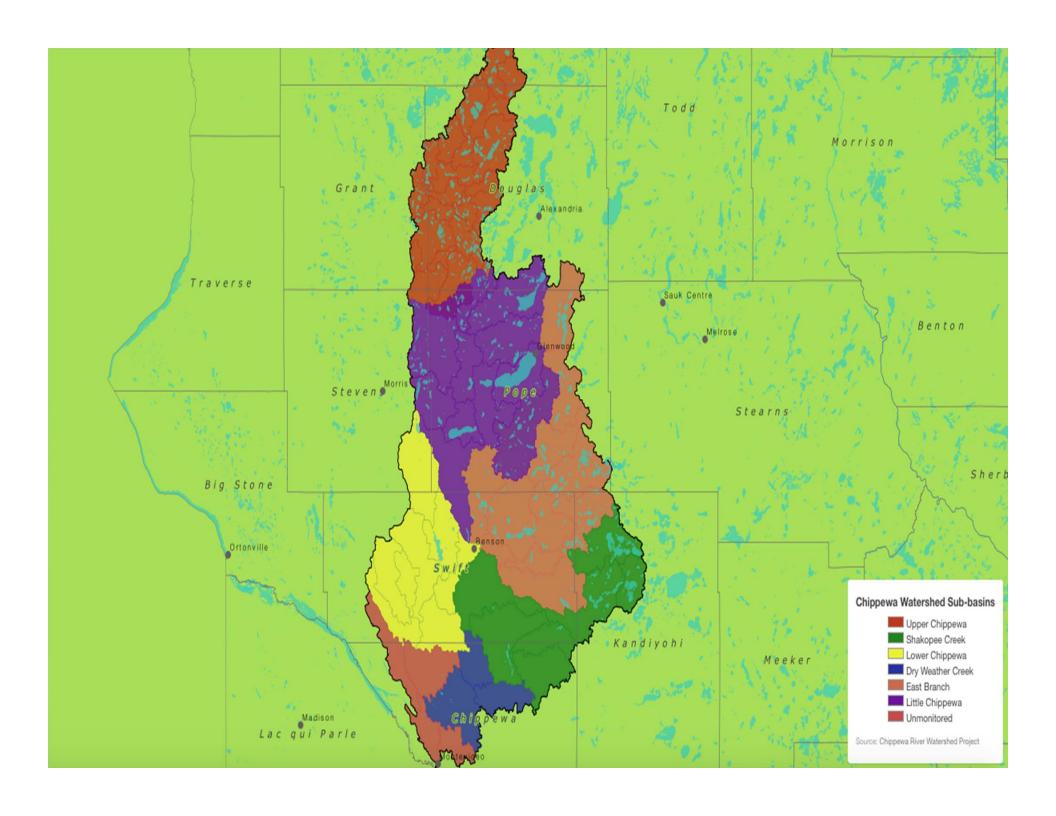




Land Stewardship Project

- Mission- Foster an ethic of stewardship for farmland, to promote sustainable agriculture and to develop sustainable communities.
- Landowner Engagement- Meet with farmers and landowners individually and spend time in a 1-1 setting. We discuss conservation goals, help recognize and verbalize obstacles to those goals, then form a plan to overcome these obstacles.
- Chippewa 10% Project- Work with farmers and landowners to improve water quality throughout the watershed.
 - Perennial Cover
 - Cover Crops
 - Soil Health Monitoring
 - Input Reduction
 - Managed Grazing





Success of Engagement; Networks & Individual Change

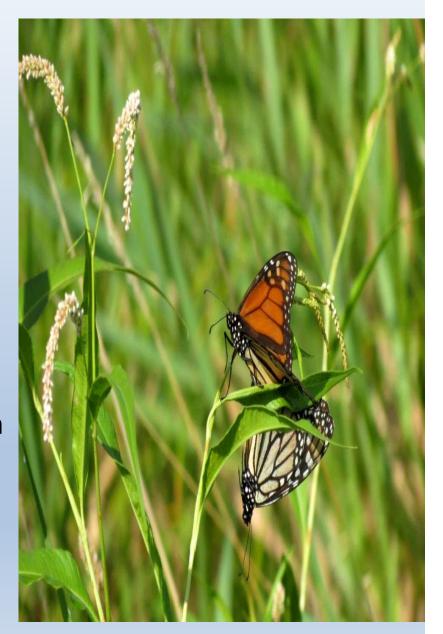
Meet landowners on their turf



1-1 Conversations

- Their History?
- Farm History?
- What are they proud of?
- What they would like to see on their farm?
- Changes in the community?
- Conservation Goals?

Stating these values provides us with an opportunity to support action.



Formation of Networks



Cover Crop/Soil Health Network

- Incentivize Initial trials
- Connect farmers to resources
- Provide opportunities for farmers to work together
- Provide soil monitoring. Spring and Fall testing







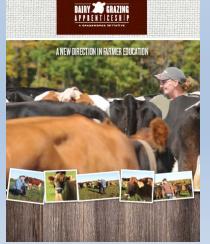
Green Lands Blue Waters

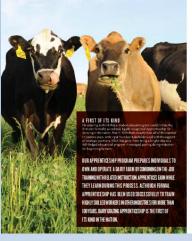




A Conservation Farming Apprenticeship







IS IS THE PLACE, NOW IS THE TIME pre-the economic and cultural significance of dutry farming in consist, the state continues to be osefulf and mid-sixed dutry fartioning farmers are not extering the provincion at a rate ethal offsilos of ortifier monitors. Became the average to the orthodological continues to the continues of the continu

Regioning farmers are not extering the profession at a rate that offsets wheless of extring produces. Resource beer exercised, so the primary farm operator in the state is 57 years old, farm loss is expected secontinus, with fewer produces to more industry needs, confinementally operations have expanded by increasing the number of costs on a single-site. Modern confinement dairy operations have begady accepted this model of expansion in order to stay competitive,

mm, the number of 400-1,000 core darkes has increased significantly: e-ment doward consolidation and expansion leads to highly spall-intensible farming, which results in more farm labor and ere primary owner-aperators.

ALLINISIDE THE CHALLENGE OF SO MANY FARMS ON THE EIGE
OF EXPANSION OR RETIREMENT LEST THE OPPORTUNITY TO
TRANSTION THE MODILE THAT THE MEMORITHMENT OF THE
AND SUSTAINABLE SHAPE YEAR OF THE WINDOW POORTUNION OF
DOORSTELLINY OF MANAGEMENT AND DE ONLY ADDIT A DECEMBEN.

The transition will require broad implement aton of management systems that can be sostained and replicated on moderately sized farms. The most efficient, productive and profitable dairy farming

While managed grating farms often have modern miking parfors and miking many as 150-500 cons, successful graties have few opportunitie for investment, because belongical constraints from the number of animal and farm into And, as with conventional farms, seed established grating

The health and longrifty of grating at Imals means that dairy gratient often have excess replacement cattle and time for management. This creates the possibility of setting up a second spin of farmer mills, sharing arrangement with an Appentice. Such models provide new incontinent opportunitions for art represented after framers and more incontinent opportunitions for art represented after framers and more

Dairy Grating Apprenticeship which includes alternative models for general hig managed grating dairy farms, will bring more farmers into ownership, retain farm numbers, maintain rural communities, and hale to restore natural measures.





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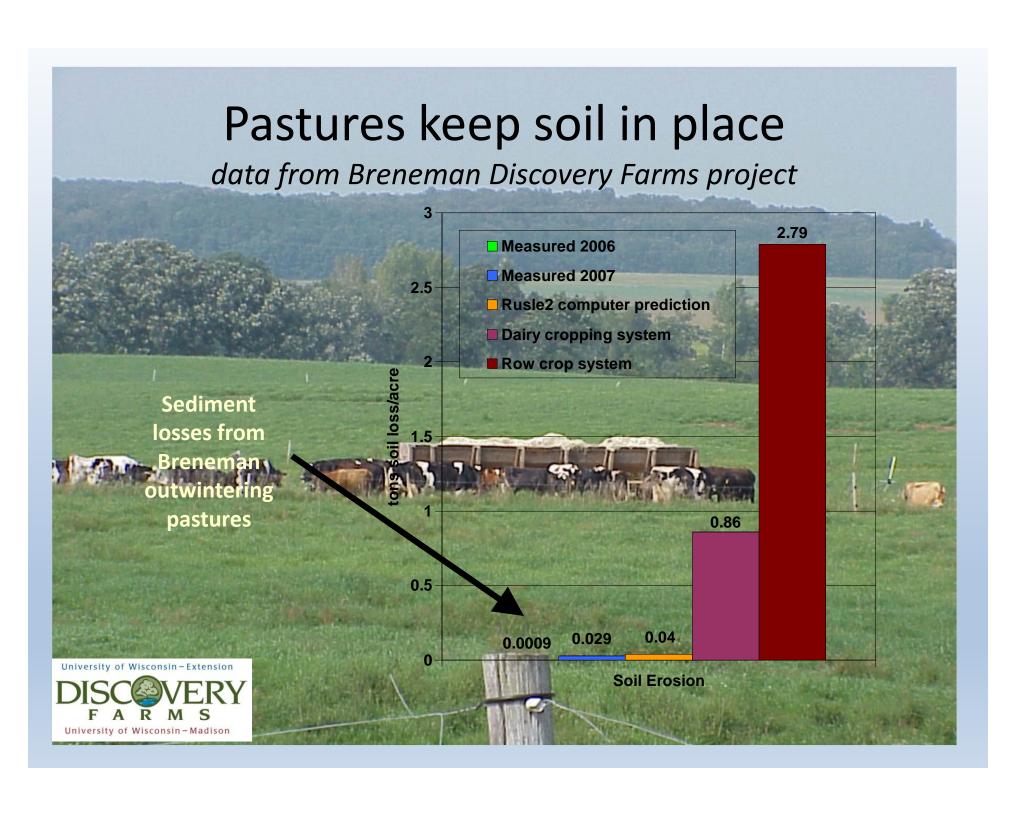
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"Yourk at A. (1997) Wis Westerning Stary of Sciences.
Reschilate United States on

- 2 year program.
- 3712 hrs. on-the-job training on a working dairy farm.
- 288 hrs. related classroom instruction.

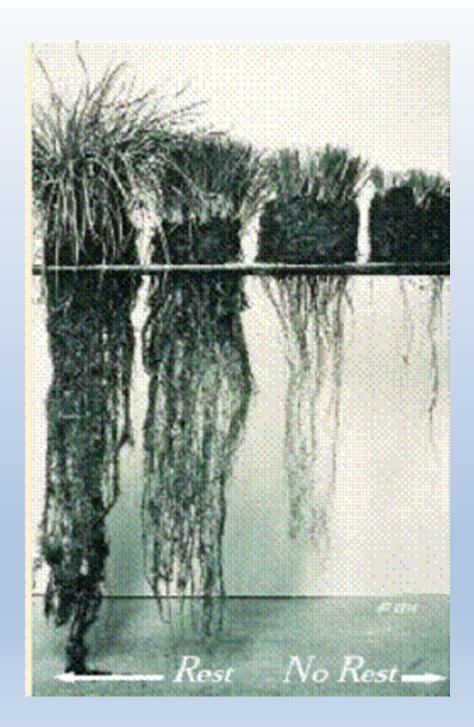


Considering grazing as a habitat management tool

- Restore something approaching natural grazing component and nutrient cycling
- Increasing cost of other management tools (mowing, burning, etc.)
- Livestock can go places where equipment cannot
- Opportunity to partner with neighboring farmers
- Other?



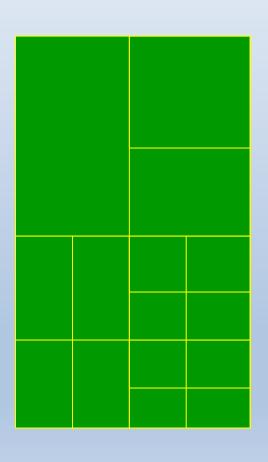
Well Rested



Over Grazed

Rotational Grazing Principles

for Production AND Conservation

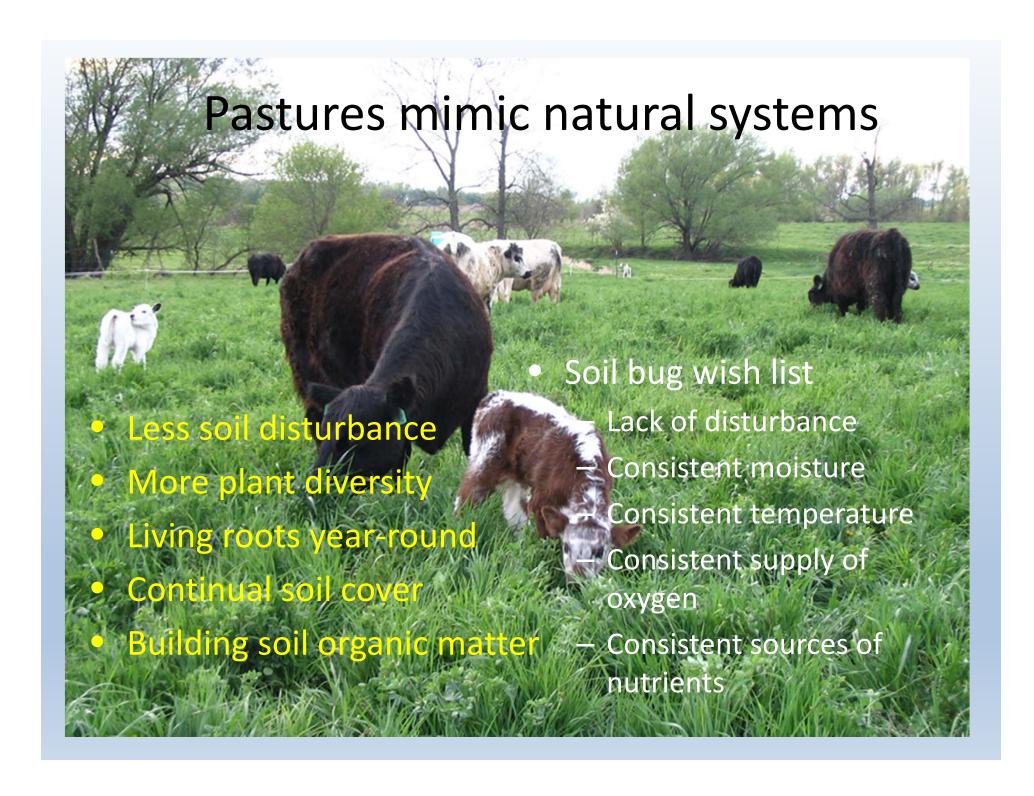


- Optimizing grass growth.
- Pasture area is divided into paddocks.
- Herd is <u>rotated</u> through a series of paddocks, remaining in each for 1 to 3 days.
- Adequate <u>residual</u> is left to promote fast regrowth.
- * Each paddock is <u>rested</u> for 3 to 5 weeks.
- Productivity and quality are maximized.
- Thick, healthy pasture increases intake.





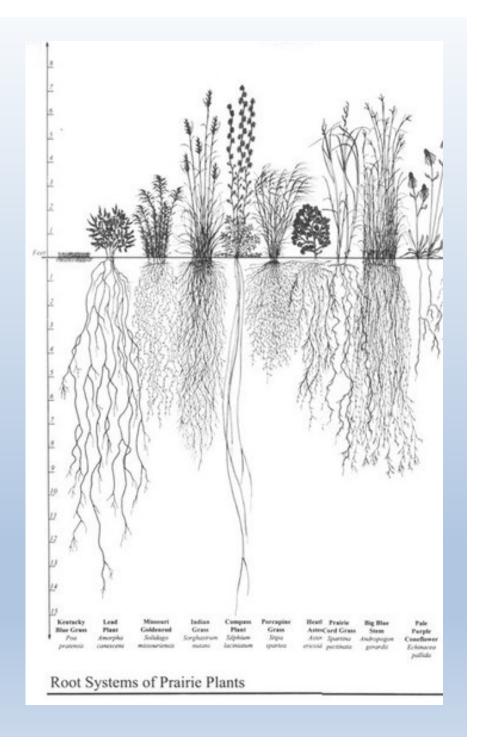




Diverse pastures increase intake

- Plant competition
 - Water
 - Nutrients
 - Light
 - Space

Diversity enhances resource use efficiency

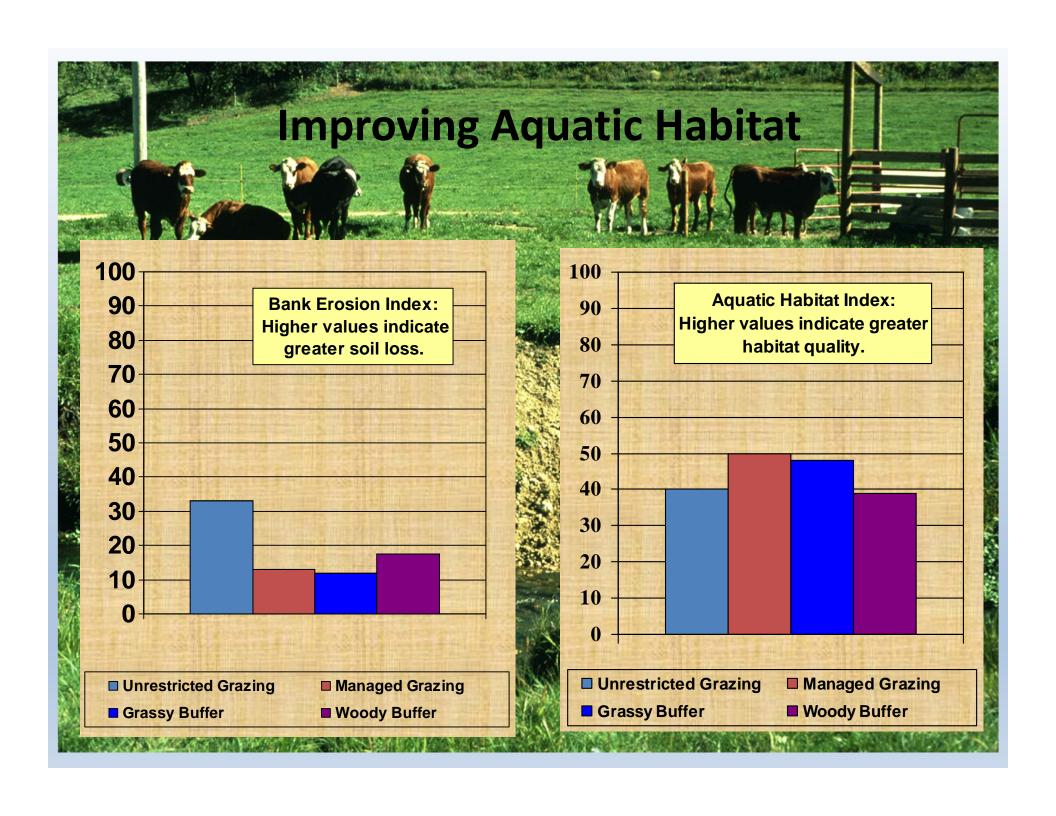


Forage Yield in simple and complex mixtures

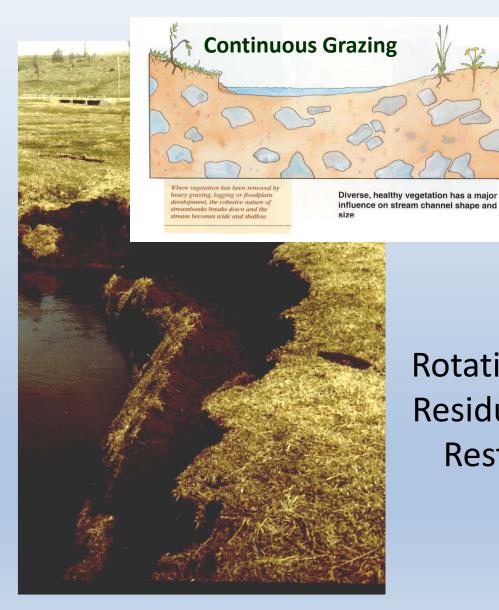








Aquatic Habitat & Bank Stability

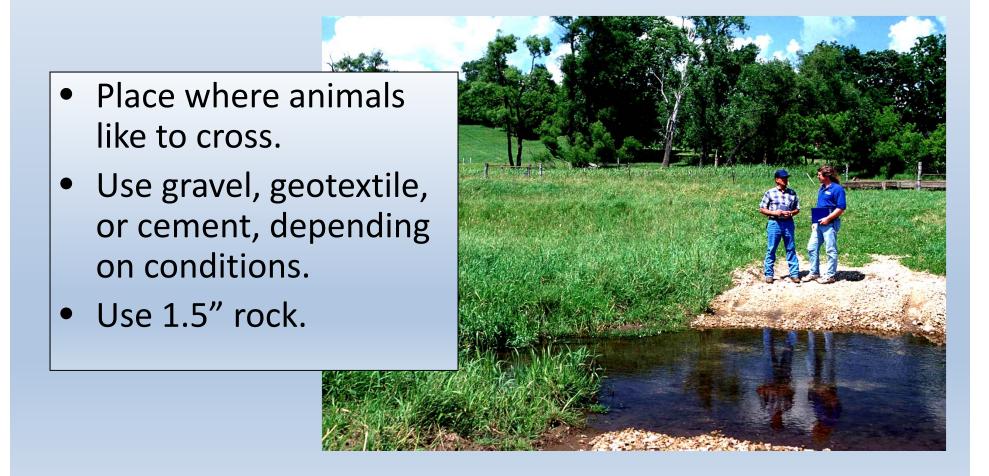


Rotation Residual Rest

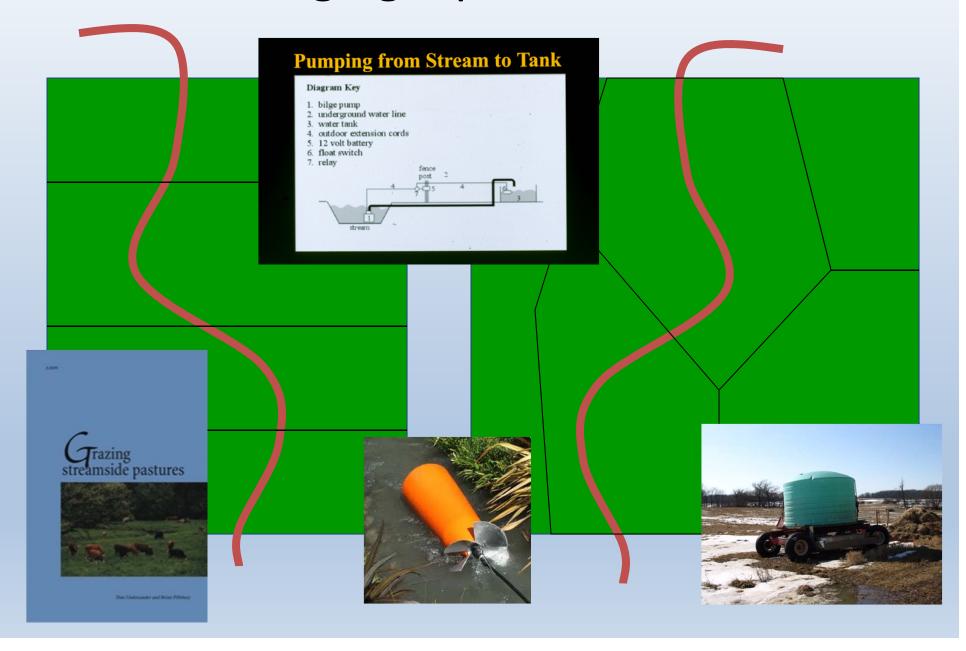


STREAM CROSSINGS

Constructed crossings allow animals safe access to water and protect streambanks

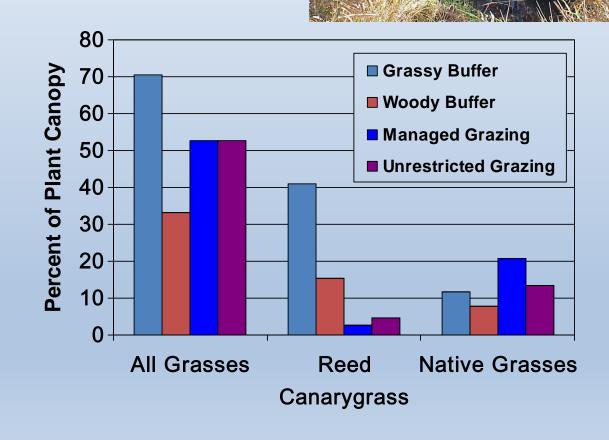


Managing Riparian Pastures



Vegetation management goals: Improve habitat structure? Control invasives?

Grazed sites
had more
native grasses
and sedges
and less reed
canarygrass,
an invasive
species in
riparian areas
and wetlands.



Understanding Animal Grazing Behavior

<u>Species</u>	<u>Grass</u>	<u>Forbs</u>	<u>Browse</u>
Bison	93	5	2
Horses	81	5	14
Elk	63	16	20
Cattle	64	18	12
Sheep	57	19	20
Goats	39	10	50
Deer	10	34	57



Educated Cows Eat Weeds!



In 2004, Kathy Voth invented a method for teaching cows to eat weeds. Based on decades of science, her simple steps make it possible for anyone to save money and take advantage of new forage by turning their cows into weed managers.

Learn More....

Background
Weed Eating Benefits
What's Edible
Projects
How to Get Started
What People Are Saying
Meet the Inventor
Links

Goat Prescribed Grazing



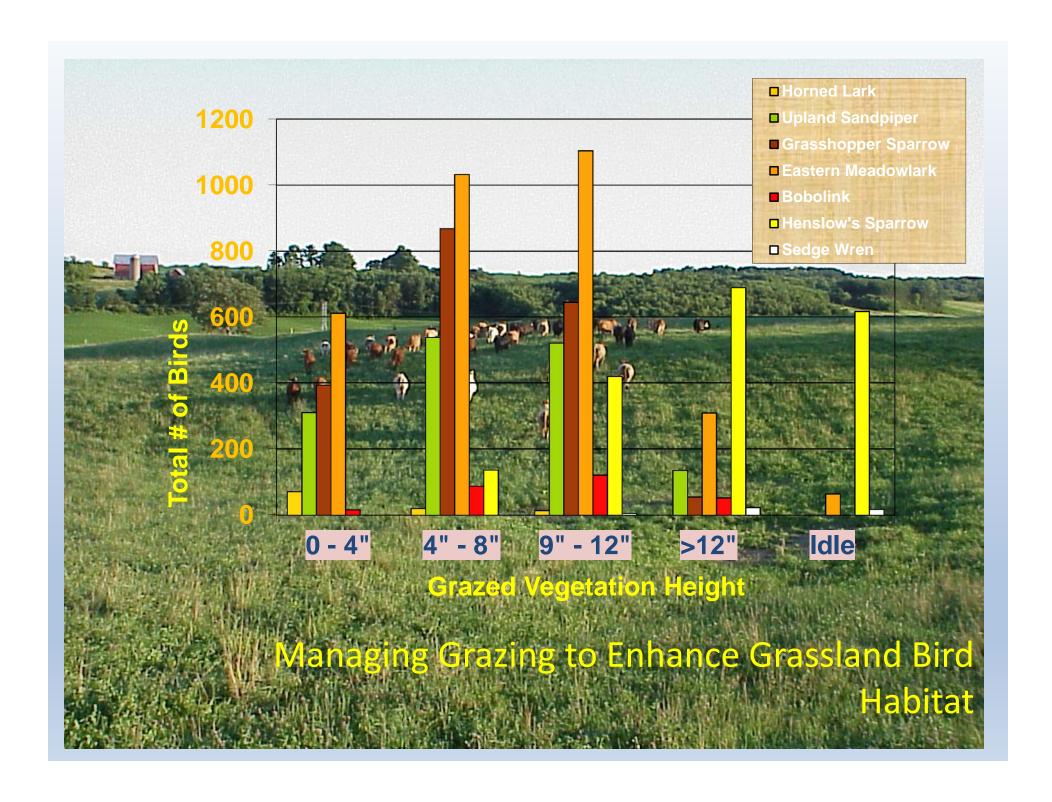
My six year reserach project explored the best ways to manage goats for fire control. The results are useful for land managers and those interested in running a prescribed grazing service.

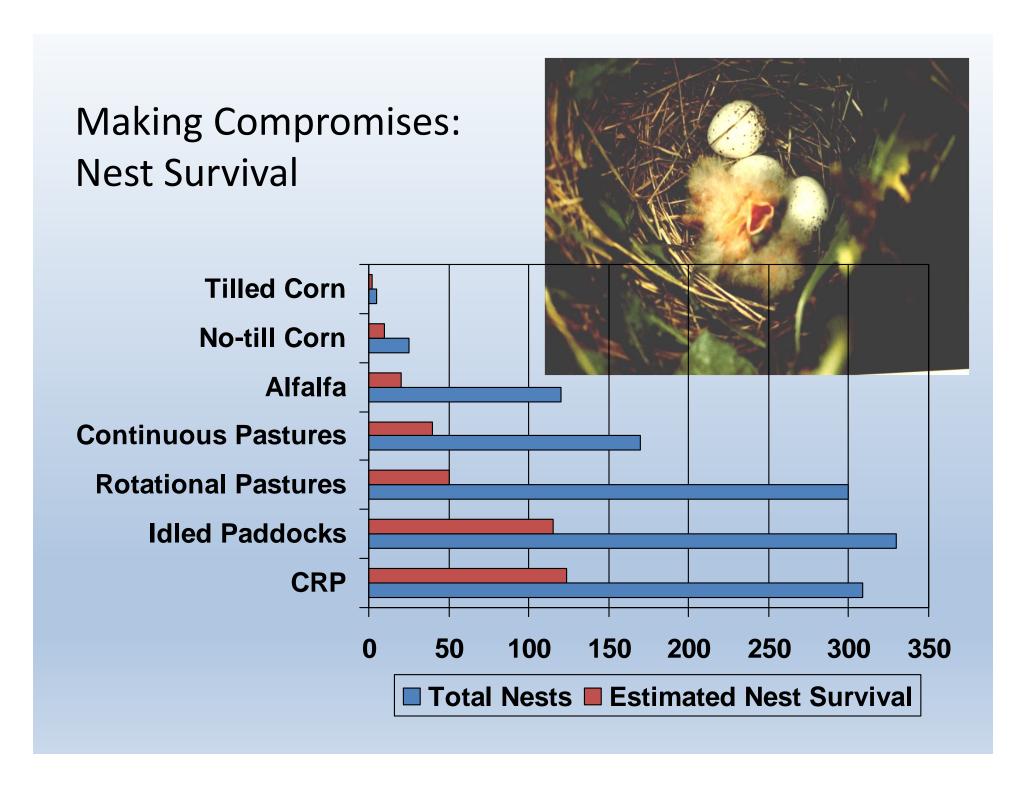
Learn More...
Project
Find a Prescribed Grazier
CD Handbook

Links

http://www.livestockforlandscapes.com/







Creating a Nesting Refuge

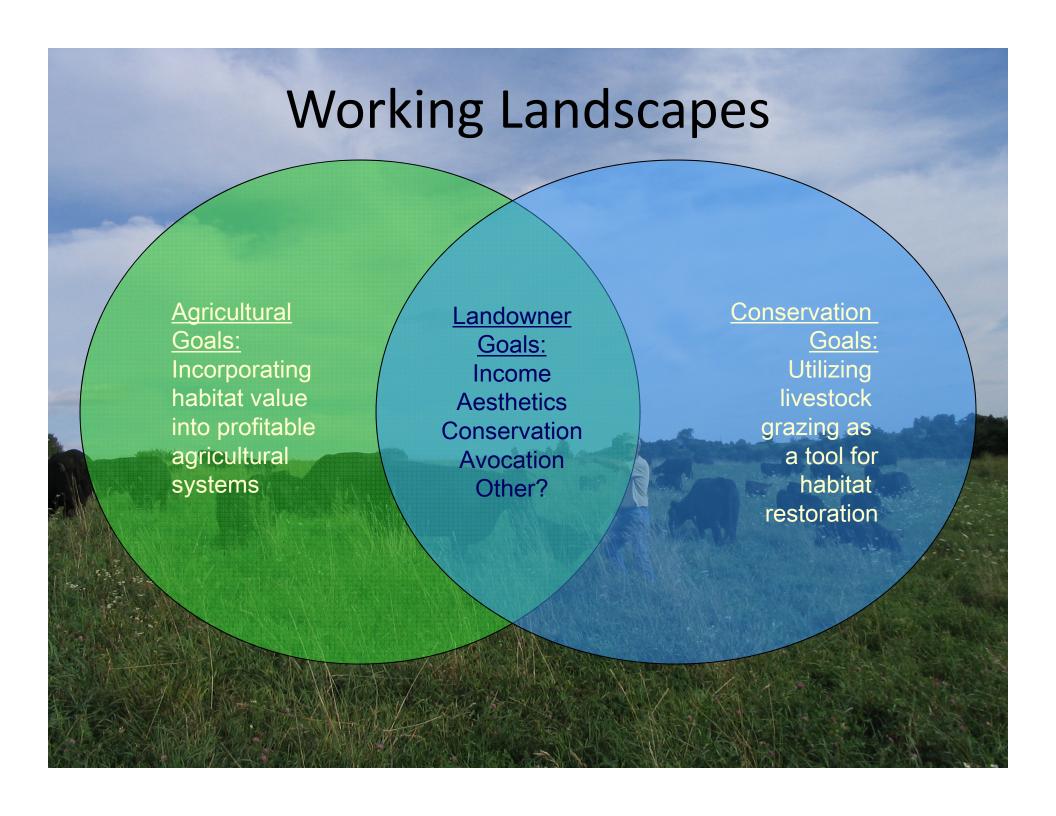


Grassland bird nesting season: May and June

Grassland birds: Fostering habitats

using rotational

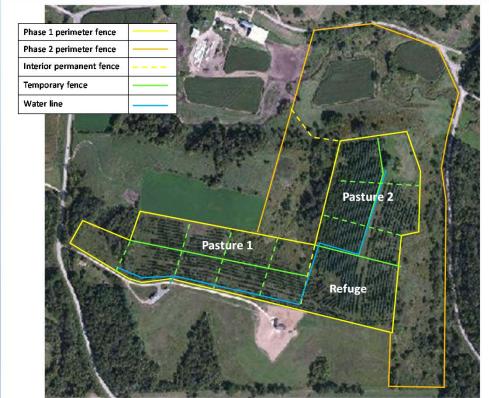
grazing



Refresh Values

Case History

David Anderson Farm Highland, WI



Landowner Information		Property/Parcel Information	
David Anderson		County: Iowa	
5005 County Road II		Legal Description: Sec. 27 T7N - R2E	
Highland, WI 53543		Parcel #: Tract 6001 farm 7772	
608 935 7568 prairewin	dl@att.net	Acres For Grazing: 65.4 Number of Fields:	2
Land Management Goals:		Grazing Objectives	
Land Management Objectives: Wants to form a bird refuze. likes the con		Duration of Grazing:	brush. y Cow 180 to year yes
	Worksheet)	Existing Infrastructure (See map):	
	rerall):	Fencing, Watering Systems, Cattle Lanes, etc	
	re 31.1 acres of expired CRP with where has contracted to have cut and Cassville, with bromegrass as the re that has a lot of brush and invasive over sids/Density/Legumes): e brush/weeds, density poor to good	Has a EQIP contract with NRCS for cost sharing fencing, watering syste seeding.	m and
1		Estimated Grazing Potential & Value:	
	Dry Cow	Grazing Capacity (AU's):	24
	0.12	Monthly Forage Need (lbs):	3,200
	24	Rental Value (Per Month): \$55	12.64
AN AND	487,884	Hay Price (\$/ton):	\$178

Landowner Grazing Profile

A Grazing-Conservation Partnership









SW Badger's Grazing Broker Project

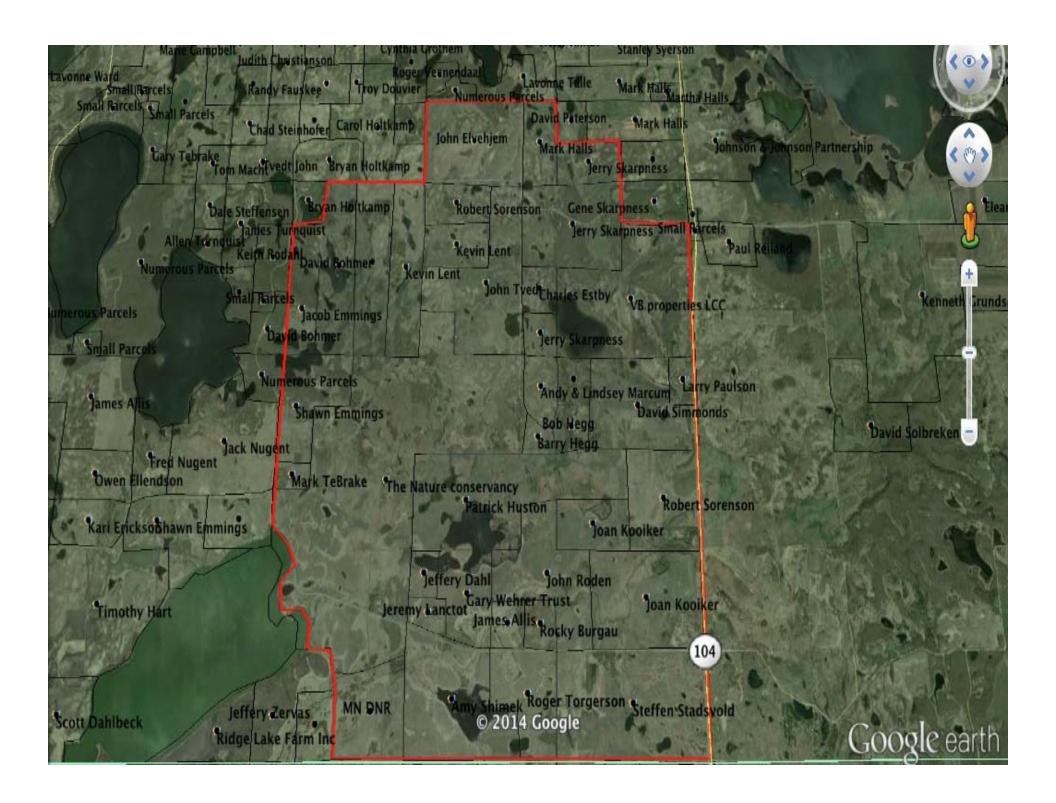


www.swbadger.org

Simon Lake Challenge

Community Based Conservation















Invasive Species Removal



Before











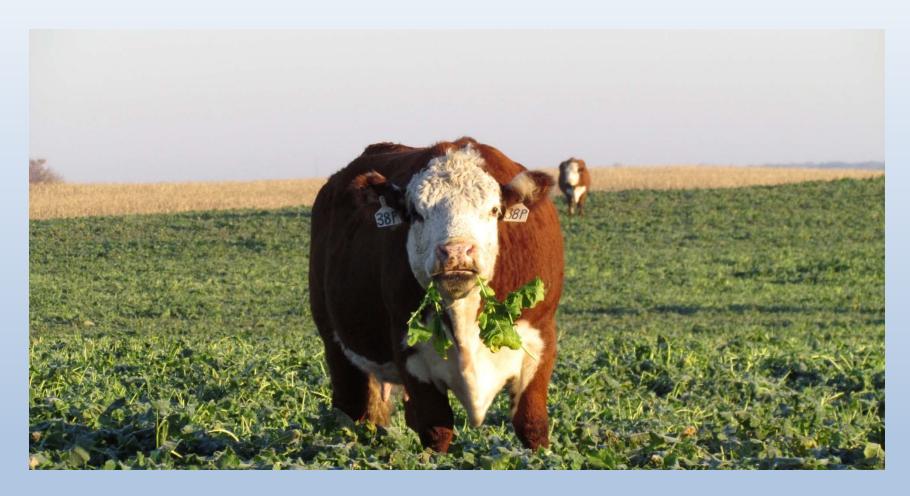




 By convening farmers, agencies and recreational landowners; in working cooperatively to meet conservation goals, we create a community environment for stewardship and strengthen communities by supporting their efforts.



Questions?





Andy Marcum- andym@landstewardshipproject.org

Phone- 320-424-3901

Laura Paine- lkpaine@gmail.com

Phone- 608-338-9039



Future Webinars



SCHEDULE 9:00-10:30 AM CDT

TEACHING THE BASICS OF GRAZING

View the webinar, slides, and

GRASS-BASED FARM FINANCIALS

View the webinar, slides, and

ADAPTIVE HIGH STOCK DENSITY

VIEW THE WEBINAR, SLIDES, AND

AUGUST 7

Integrating Livestock into Cropping Systems

SEPTEMBER 11 Grazing for Conservation and Soil Health

Teaching Resources Roundtable

chived for future use. To sign up for upcoming sessions or to re-ceive reminders about future ses-sions, you can register with us Are you a grazing specialist, land manager, or grazing educator?

Want to be involved in the development of grazing educa-

If so, please join us in our webinar series, hosted by Green Lands Blue Waters and The Pasture Project.

The monthly series will present topics important to grazing, with perspectives from scientists, experts, and producers.



The webinars are free, and will be designed to encourage an active and lively discussion on issues important to the grazing community.

Look for more information about the series and the next webinar, scheduled for August 7th, at our websites. Contact Jane Jewett or Warren King with any questions.

Green Lands Blue Waters





Thank you!