

Division of Marketing  
Agricultural Development and Diversification (ADD) Program  
1995 Grant Final Report

Grant Number 10010

**Grant Title** Utilization of Northern Wisconsin Pasture Forages

**Amount Awarded** \$14,200.00

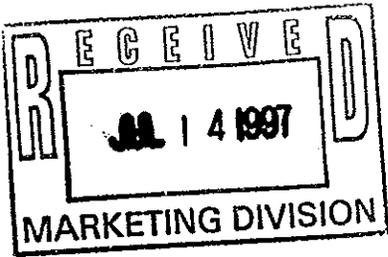
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# **FINAL REPORT**

## **CONTRACT NUMBER 10010**

### **AGRICULTURE DEVELOPMENT AND DIVERSIFICATION GRANT PROGRAM**

**SUBMITTED BY:**

**RUSSELL KIECKER, UWEX AREA AG AGENT**

**JULY-1997**

# **UTILIZATION OF NORTHERN WISCONSIN PASTURE FORAGES**

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## Results:

### Result:

140 acres were actually enrolled. More acres were utilized with non-project cattle but were not included in the final analysis. It was demonstrated that an alternative use of underutilized land is available to land owners. Project length was an average of 137 days on pasture. The stocking rate was at a rate of 1 acre per stocker (300-500 pounds). Beginning and ending weights were determined and fecal samples were analyzed.

### Result:

137 lightweight cattle were on the demonstration project. These cattle were mixed, some being holstein steers and others being beef breeds. A total of 25,307 pounds of additional weight was gained by the animals on the project.

### Result:

Average selling price was \$.54 per cwt.  
A total of \$13,834 was the value of weight gain.  
The gross value of gain on each acre of pasture was \$98.00.  
The average cost per pound of gain was 30 cents a pound.  
The net value of gain on each acre of pasture was \$54.00.

### Result:

A marketing relationship was developed between Southern United States sellers of stockers and the trucking industry. Local cattle finishers were also involved in the purchase of project cattle.

### Result:

A strategic de-worming program was demonstrated. All project animals were de-wormed.

### Result:

\$9969.00 was "added" to the local economy. Using a multiplier effect of 1.3, the total increases to \$12,959.00.

### Result:

The project was entered in the 1997 NACAA Awards Program-Livestock Production Program Category by Russell Kiecker. It was chosen as a National award by the organization and all team members have been recognized by the National Association.

The results from this project clearly show that "stocker" cattle can be successfully managed on Northwest Wisconsin pastures. The project proved that only a short amount of time is needed and the amount of capital is minimal. It was shown that it is possible to gross \$98 per acre when the current land rental value is \$15- \$20 per acre. Net return per acre was shown to be \$54 per acre.

The financial accountability of this project was a combination of two factions:

Faction one:

All receipts and expenditures were accounted for by the Burnett County Treasurers Office. The Account number was: 95-101-34-56901-297.

Faction two:

All invoices for payment were accounted for by the ADD Project Administrator. Purchase order number was: 30000108

An official accounting statement is available from the ADD Project Administrator's office.

Only one basic objective permeated the entire project. That objective was to demonstrate that hundreds of acres of under-utilized land could be utilized as improved pasture, with rotational grazing management, to produce weight gains on light cattle during the course of a summer grazing period in Northwestern Wisconsin.

In addition to the above basic objective, several additional economic objectives were detailed.

1. Choose at least six farms in the project area as cooperators:

Result:

Three farms were chosen instead of the six. Since conception of the project, two original counties dropped out of the project.

2. Enroll 600-1000 acres of pasture land that is underutilized today.

Result: 140 acres were actually enrolled. More acres were utilized with non-project cattle but were not included in the final analysis. It was demonstrated that an alternative use of underutilized land was found and it was adequately demonstrated.

3. Create added value.

Result: 137 lightweight cattle were on the project.

These cattle were mixed, some being holstein steers and others being beef breeds.

A total of 25,307 pounds of additional weight was gained on the project.

Average selling price was \$.54 per cwt.

A total of \$13,834 was the value of weight gain.

A total of 140 acres were utilized for these 137 lightweight cattle.

Project length was an average of 137 days on pasture.

The gross value of gain on each acre of pasture was \$98.00.

The average cost per pound of gain was 30 cents a pound.

The net value of gain on each acre of pasture was \$54.00.

The stocking rate was at a rate of 1 acre per stocker (300-500 pounds)

4. Interaction of activity between livestock buyers, sellers, and farmers will increase.

Result: A marketing relationship was developed between Southern United States sellers of stockers and the trucking industry. Local cattle finishers were also involved in the purchase of project cattle.

5. A stale ag economy which now exists will be revitalized with the infusion of new agriculture activity on currently dominant agriculture units.

Results: The project was too small to make a significant impact of the revitalization of the ag economy. However, it was demonstrated that it has the potential.

6. Research used.

Results: University of Wisconsin research on fencing and cattle management was used to complete the project.

7. The local economy will be stimulated.

Result: \$9969.00 was the value "added" to the local economy. Using a multiplier effect of 1.3, the total increases to \$12,959.00.

The following budgets were developed to indicate the economic impact of the project.

**Budgets:**

UNWPF BUDGET	NUMBER OF ANIMALS ON PROJECT:	88.00
11/07/96	TOTAL POUNDS GAINED:	17680.00
	POUNDS OF GAIN PER ANIMAL:	200.91
	DAILY RATE OF GAIN (120 DAYS)	1.67

FOR: \_\_\_ Chris and Posi Beaudin

GROSS RECEIPTS:			
SALE OF LIVESTOCK	62050.00 LBS	0.63	39091.50
TOTAL GROSS RECEIPTS:			39091.50

VARIABLE COSTS:			
PURCHASE COST	281.00 PER HEAD	88.00 HEAD	24728.00
PURCHASED CORN AND HAY	0.00 BUSHELS	0.00	0.00 Y
PURCHASED MINERAL	1.53 PER HEAD	88.00 HEAD	134.64 Y
PASTURE RENT			568.00 Y
MILK REPLACER	0.00	0.00	0.00
DEWORMER BLOC			1161.60 Y
MARKETING BEEF BOARD	1.00 PER HEAD	85.00 HEAD	85.00
UTILITIES FENCER AND WATER PUMP	16.00 PER MO	4.00 MONTHS	64.00 Y
OPPORTUNITY COST OF BORROWED \$	9.76 PER HEAD	88.00 HEAD	858.88 Y
PASTURE FERTILIZER	1.60 TONS	625.00 PER TON	1000.00 Y
OTHER MISC.	0.00	0.00	0.00
PROCESSING, TRUCKING, VET WORK	9.32	88.00 HEAD	820.16

TOTAL VARIABLE COSTS: 29420.28

FIXED COSTS:			
EQUIPMENT AND FENCING			300.00 Y
BUILDINGS	0.00	0.00	0.00
LABOR AND MANAGEMENT			1005.00 Y
OTHER	0.00	0.00	0.00
OTHER	0.00	0.00	0.00

TOTAL FIXED COSTS: 1305.00

COST PER POUND OF GAIN (GROWTH INPUTS ONLY)	0.29
RETURNS TO LAND, LABOR, MANAGEMENT	1573.00
RETURNS TO THE PROJECT (RECEIPTS MINUS ALL COSTS)	8368.22

Budget prepared by Russell Klecker, Area Ag Agent October-1996  
 UNWPF PROJECT-WDATCP-AGRICULTURE DIVERSIFICATION AND DEVELOPMENT GRANT

*For discussion purposes only*

**Beaudin Budget**

UNWPF BUDGET	NUMBER OF ANIMALS ON PROJECT:	37.00
11/07/96	TOTAL POUNDS GAINED:	4606.00
	POUNDS OF GAIN PER ANIMAL:	124.49
	AVERAGE DAILY GAIN (143 DAYS)	0.87

FOR: \_\_\_ Dick Quinton      Shell Lake, Wisconsin

GROSS RECEIPTS:			
SALE OF LIVESTOCK	20202.00 LBS	0.43	8585.85
TOTAL			8585.85

VARIABLE COSTS:			
PURCHASE COST OF PROJECT ANIMAL	37.00 HEAD	168.00 Each	6216.00
TRUCKING IN ANIM	37.00	5.59	206.83
VET COS	0.00	33.00	0.00 Y
PASTURE RENT	80.00 ACRE	10.00 PER ACR	800.00 Y
PURCHASED FEED	0.00 TONS	179.00	0.00 Y
DE-WORMER PROGRAM	5.00 BLOCKS	30.00 PER BLO	150.00 Y
TRUCKING OUT ANIMALS	0.00 ANIMALS	10.00 PER HEA	0.00
UTILITIES	1.00	30.00	30.00 Y
OPPORTUNITY COST OF BORROWED \$	6216.00 DOLLARS	0.02 PERCENT	124.32 Y
PASTURE FERTILIZER	2.00 TONS	294.00 PER TON	588.00 Y
OTHER SUPPLIES	37.00	0.30	11.10 Y
OTHER INSURANCE	1.00	13.00	13.00 Y
TOTAL			8139.25

FIXED COSTS:			
EQUIPMENT AND FENCING	1.00	280.00	280.00 Y
BUILDINGS	0.00	0.00	0.00
LABOR	15.00 HOURS	8.00 PER HOU	120.00 Y
VALUE OF YOUR MANAGEMENT	15.00 HOURS	3.00 PER HOU	45.00 Y
OTHER	0.00	0.00	0.00
OTHER	0.00	0.00	0.00
TOTAL			445.00

COST PER POUND OF GAIN (GROWTH INPUTS ONLY)	0.47
RETURNS TO LAND, LABOR, MANAGEMENT	965.00
RETURNS TO THE PROJECT (RECEIPTS MINUS ALL COSTS)	1.60

Budget prepared by Russell Kiecker, Area Ag Agent October-1996  
 UNWPF PROJECT-WDATCP-AGRICULTURE DIVERSIFICATION AND DEVELOPMENT GRANT

*For discussion purposes only*

**Quinton Budget**

**Miller Budget**

UNWPF BUDGET 11/07/96	NUMBER OF ANIMALS ON PROJECT:	12.00
	TOTAL POUNDS GAINED:	3021.00
	POUNDS OF GAIN PER ANIMAL:	251.75
	AVERAGE DAILY GAIN 152 DAYS	1.68

FOR: \_\_\_ JOHN AND NORA MILLER-FREDERIC, WISCONSIN

GROSS RECEIPTS:			
SALE OF LIVESTOCK	9828.00 LBS	0.58	5700.24
TOTAL			5700.24

VARIABLE COSTS:			
PURCHASE COST OF PROJECT ANIMAL	225.00 PER HEAD	12.00 HEAD	2700.00
PURCHASED CORN AND HAY	0.00	0.00	0.00 ✓
PURCHASED SUPPLEMENT			24.00 ✓
PASTURE RENT			108.00 ✓
MILK REPLACER	0.00	0.00	0.00 ✓
VET AND DE-WORM DE-WORMER	31.00 PER BLOC	1.70 BLOCKS	52.70 ✓
MARKETING	13.00 PER ANI	12.00 HEAD	156.00
UTILITIES	7.50	12.00 HEAD	90.00 ✓
OPPORTUNITY COST OF BORROWED \$			80.00 ✓
PASTURE FERTILIZER			162.00 ✓
OTHER MISC.	0.00	0.00	0.00 ✓
OTHER TRUCKING AND SHIPPING			108.00
TOTAL VARIABLE COSTS:			3480.70

FIXED COSTS:			
EQUIPMENT AND FENCING	9.75 EACH	12.00 HEAD	117.00 ✓
BUILDINGS	0.00	0.00	0.00
LABOR	81.00 HOURS	4.95 HOUR	400.95 ✓
VALUE OF YOUR MANAGEMENT	25.00 %		100.00 ✓
OTHER	0.00	0.00	0.00
OTHER	0.00	0.00	0.00
TOTAL FIXED COSTS:			617.95

COST PER POUND OF GAIN (GROWTH INPUTS ONLY)	0.16
RETURNS TO LAND, LABOR, MANAGEMENT	608.95
RETURNS TO THE PROJECT (RECEIPTS MINUS ALL COSTS)	1601.59

Budget prepared by Russell Kiecker, Area Ag Agent October-1996  
UNWPF PROJECT-WDATCP-AGRICULTURE DIVERSIFICATION AND DEVELOPMENT GRANT

*For discussion purposes only*

The failures of the project were very few and minimal. The project coordinator indicated that the time frame it took to pay a bill was too long. It is documented that some bills took 2.5 months to pay. Some creditors became concerned and vented such.

As a general rule, few problems were encountered..

A final invoice is being submitted with this report.

Any funds that have not been expended should be returned to the grant fund and used for other purposes.

## Summary of how the project created or achieved one or more of seven criteria

The project cooperators were surveyed and asked "How did the project create or achieve the following":

### 1. Creation of jobs in the agricultural industry:

*Farmers that supplied the project calves, truckers that transported the cattle, and buyers of cattle all increased their activity. Local seasonal farm help were used to conduct the project. Participants indicated that if backgrounding is done by more farms in the project area there would be a significant increase in the activity of cattle buyers and truckers.*

### 2. New capital investment or expansion of the agricultural industry:

*Old fences were repaired, new fences were built, water systems were updated, and capital items such as farm ATV's , wagons and other farm machinery were purchased.*

### 3. Diversification or expansion of the production or processing of agricultural products or development of new agricultural products, technology or production methods:

*Lightweight cattle, (400-500 pounds) were finished to project end weights of 700 pounds or more. The cattle were in better condition to move into a feedlot situation for further finishing. It was shown that over a period of just 120 days, native legume/grass pasture could put weight on lightweight cattle. It was shown that there is an opportunity to diversify the traditional dairy position of Northwestern Wisconsin. New technologies in the area of fencing, rotational grazing, water systems and frost seeding were learned.*

### 4. Market expansion or development for agricultural products or technology, or expanded distribution:

*This project demonstrated that there is a use for vacant/idle land. If more people would begin a project as this, there would be an increase in marketing activity. One project cooperator indicated that they will develop a direct marketing of beef to the public as a result of the encouragement they received from the project results.*

5. Commercial application of new technology or practices related to agricultural products:

*New technology that was learned included:*

*State of the art fencing technology*

*Strategic de-worming of cattle on pasture*

*Use of the portable scale and cattle movement equipment*

*Incorporation of rotational grazing in a backgrounding beef enterprise*

*Pasture fertilization and soil testing interpretation*

6. Improvement of the competitive position of Northwestern Wisconsin's agricultural industry:

*This project showed that this area of Wisconsin and its abundance of idle land is well suited to grazing and backgrounding. It was also shown that this area is close to suitable cattle for a backgrounding enterprise.*

7. Efficient use of farm land or other agricultural resources:

*All participants were unanimous in their statements that efficient use of farmland was showing by example.*

8. What would project participants do differently:

*Project participants said that they would begin a pink-eye vaccination program and pay more attention to stocking rates of their available land.*

Prepared by:

Russell Kiecker, Area Ag Agent, UNWPF Project Coordinator  
WDATCP-ADD Grant No. 10010 Nov. 1996

Several educational materials were developed as a result of this project.

"Botanical Composition of the Projects Pastures"

Each pasture was sampled and a botanical analysis of the pasture forage was determined. The sample was divided into the percent of dead matter, grass and legumes. A graph was generated on computer software that made it graphically clear as to the analysis of each sample. This information was shared with participants that attended field days, demonstrations and workshops.

Each graph is included in this report.

A teaching outline/packet was developed and it was delivered to participants in the "Northern Wisconsin Farmers Institute" series. The teaching packet was presented to 30 participants at 6 locations throughout the northern UWEX District. An evaluation summary is included in this report.:

A comprehensive Power Point presentation was developed and made available to the public. Also included in this section, is a copy of the overheads that were prepared and included in the teaching packet.

1997 Northern Wisconsin Farmers Institute Program Evaluation

February 6, 1997

How To Raise Beef On Your Idle Acres

In order to provide the best programs possible, would you please rate today's session:

*Summary of all sites*

	<u>Excellent</u>	<u>Good</u>	<u>Fair</u>	<u>Poor</u>	<u>Comments</u>
Was it interesting and well presented	<u>4</u>	<u>2</u>			
Did it provide information you can use	<u>6</u>				
Did your understanding of pasture management improve	<u>2</u>	<u>3</u>		<u>1</u>	
Did you learn about economic returns from managed pastures	<u>3</u>	<u>2</u>	<u>1</u>		
Did you learn about the cost of parasites in cattle	<u>5</u>		<u>1</u>		
Rate your understanding of the information	<u>(20)</u>	<u>(7)</u>	<u>(2)</u>	<u>(1)</u>	
Before the program		<u>4</u>	<u>2</u>		
After the program	<u>3</u>	<u>3</u>			

Thank you for participating in today's program.

*90% rated it Good to excellent  
Understanding increased significantly after program.*

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# *How To Raise Beef On Your Idle Acres*

*Russell Kiecker  
Area Ag Agent  
December-1996*



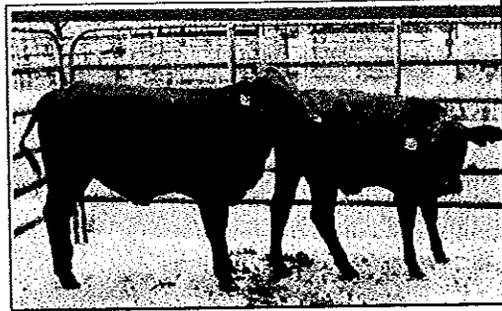
*Summary of UNWPF Project*

University of Wisconsin Extension

5/8/97

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# *Visual difference tells the story*

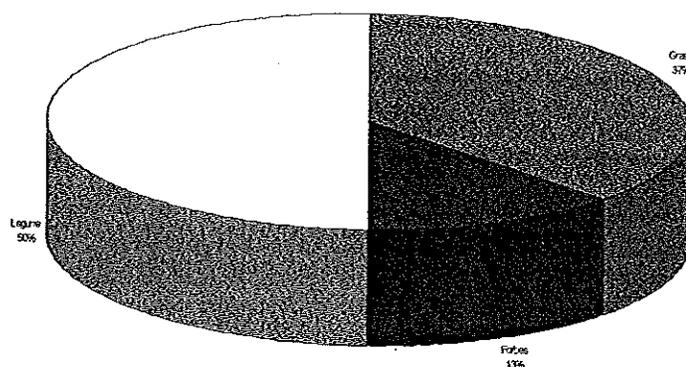


University of Wisconsin Extension

1/7/97

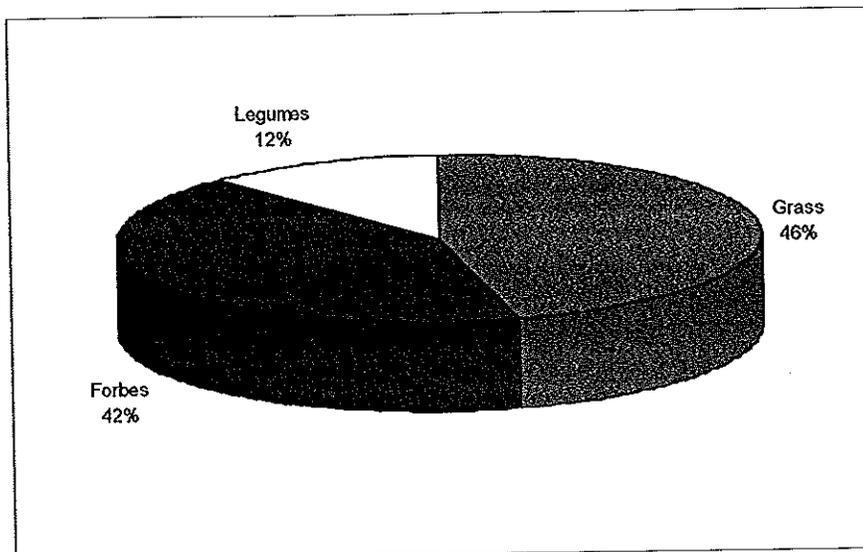
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# *UNWPF Botanical Composition of Miller Pasture Forage*

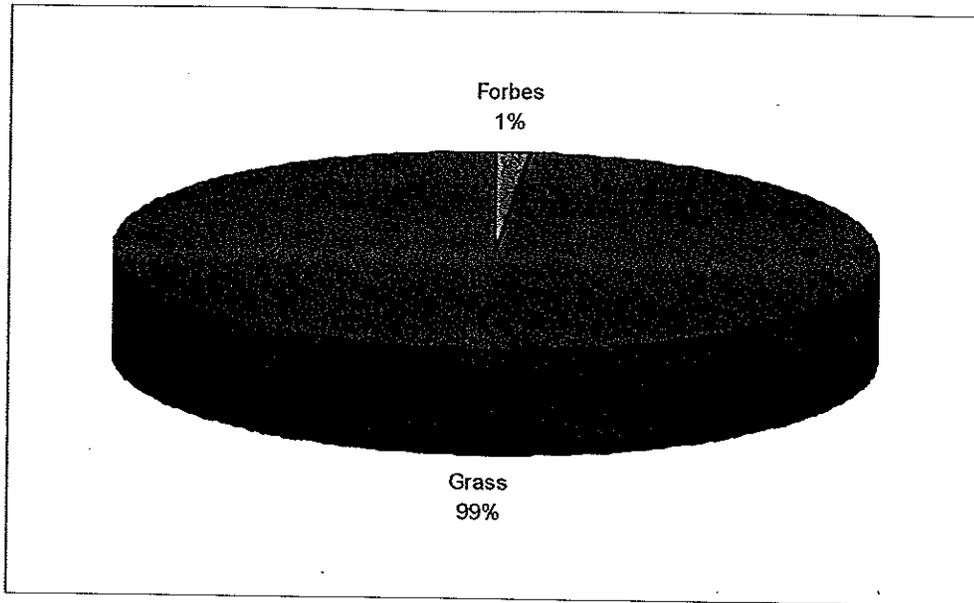


*Russell Kiecker, UMEX Area Ag Agent  
June-1996*

# UNWPF Botanical Composition of Beaudin Pasture Forage



*Russell Kiecker, UWEX Area Ag Agent  
June-1996*



*Russell Kiecker, UWEX Area Ag Agent  
June-1996*

## UNWPF Botanical Composition of the Quinton Pasture Forage Project

## *Cooperators:*

---

*Richard and Shirley Quinton  
Shell Lake, Wisconsin*



*University of Wisconsin Extension*

*1/7/97*

*4*

**Quinton**

## *Cooperators:*

*John and Nora Miller, Frederic, Wisc.*



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**Miller**

## Chris Beaudin Project

### *Cooperators:*

*Chris and Posse Beaudin, Wentworth.Wi*



University of Wisconsin Extension

1/7/97

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### **Beaudin**

Three public field days were scheduled and held.

The first was on July 9, 1996 at the John and Nora Miller Farm , Frederic, Wisconsin. A copy of the agenda is included as Appendix 1. Seven interested area farmers attended.

The second field day was on July 10, 1996 at the Chris and Posi Beaudin Farm, Wentworth, Wisconsin. A copy of the agenda is included as Appendix 2. Thirteen interested area farmers attended.

The third and last field day was on Oct.25, 1996 at the Richard and Shirley Quinton Farm, Shell Lake, Wisconsin. Six interested area farmers attended.

Several presentations were made concerning the project.

The project coordinator felt it very important to keep the Ag and Extension Committees of the County Boards informed on the project. As a result of this six presentations were made to the the committees of Washburn, Burnett, Sawyer, Ashland, Bayfield and Douglas counties. Prior to the actual commencement of the project, various presentations were made to various organizations about the intent and progress of the project.

All area newspapers were also presented information about the project. The "Country Today" state wide newspaper did several stories on the project. Copies of these stories have been submitted with prior progress reports.

A high impact visual presentation using *Microsoft-Power Point* was developed. The presentation was used in presenting the data and findings to over 40 producers at a series of 5 workshops.

An evaluation of these workshops is included in this report.

*A Microsoft Power Point* Presentation was developed and a teaching package was included.

No Directories were developed.

The project coordinator feels that once potential producers become aware of the results of this project, a significant increase in "backgrounding" activity will result.

Since the average "tax rate" of pasture land in Northwestern Wisconsin is in the realm of \$20 to \$25 per acre, an individual could produce enough weight gain on stockers to pay the real estate taxes since this project demonstrated that it was possible to "net" \$54.00 on each acre.

The average "net" return per animal was \$72.00. Assuming that there is an estimated 20,000 acres of underutilized land in Northwestern Wisconsin that would support 13,000 stocker calves, you might assume that an additional \$2.1 million could be added to the local economies by pasturing lightweight stockers on native pastures for 120-130 days during the summer growing period.

The awareness that was created by this project has already resulted in numerous requests for information from the public. The information that was learned from this project will assist many landowners in the future.

Additional research that would enhance the project would be to compare the use of a cattle growth implant. The question would be to determine if a growth implant would increase the average daily gain cattle experience on native pastures.

Additional research needs to be done on determining the yield of pasture using a measuring devise such as the sward stick or other devise.

Additional research should be done to document the actual economic impact a strategic de-worming program can have on a project of this kind. A photo tells the story best: See page 17 of this report.

**A.D.D.  
PASTURE RENOVATION  
AND  
FERTILIZATION  
PROJECT**

BY:

**RUSSELL KIECKER  
UW AREA AG AGENT**

Hundreds of acres of pasture land in Northern Wisconsin is under producing because of improper fertility and management.

Producers lack the skills to calculate the stocking rate of pastures or to determine pasture yield.

Producers are not acquainted with the practice of interseeding with no-till equipment to improve the forage content of their pastures.

1. Demonstrate the value of applying nitrogen to native pastures to increase yield and improve quality of pastures.
2. Demonstrate to producers the methods available to them to determine the yield of pastures using sward sticks and pasture condition inventory.
3. Demonstrate to producers how to calibrate no-till seeders and how to use a no-till seed drill in the management of pastures.

1. Early March, work with Bob Rand, Supt. Of the Spooner Ag Research Station, to design a demonstration that would use a native pasture as a research plot.
2. Request an extension of time to complete the project.
3. Conduct a field demonstration for the public at the end of May.

1. The design of the pasture plot was very professional. Refer to pasture layout and design handout at the end of this report.
2. Due to very little warm weather, the response to the nitrogen application was not noticeable.
3. Very little of the seed that was interseeded germinated and grew.
4. A method to measure yield was used and demonstrated to the public.
5. A method to determine stocking rates was demonstrated to the public.
6. A demonstration of no-till seeder calibration was done.

1. For years, University of Wisconsin research has proven that nitrogen applied to pasture can improve yields. This demonstration has shown that nitrogen response is limited by cool weather and lack of adequate moisture.
2. By using pasture condition score sheets and other yield determination techniques, it is possible to determine the stocking rates of pastures.
3. In order for inter-seeding to improve pasture, it is necessary to control the growth of crab and quack grass.



View of the pasture demonstration area.

# Determining Stocking Rate

The size of this demo plot is 4.8 acres. If you divide it equally 4 ways, each Paddock would be 1.2 acres.

.474 TDM/paddock  
X 75% (assuming 25% grazing loss)  
.3355 TDM / Paddock

Rotate every 4 days = .0888 TDM/day (available)

450 pound stocker animal requires 3% of BW Dry Matter Intake every day.

450 lbs X 3% = 13.5 pounds of DM/day

13.5/2000 pounds = .00675 TDM/day

Therefore:

.0888/.00675 = 13 animals per paddock (Max)

## Pasture Condition Scoresheet

CATEGORY	Paddock Description			
	<i>Example #1</i>			
<b>Plant Desirability:</b> The species present are mostly: 0 1 2 3 4 Undesirable Intermediate Desirable	3			
<b>Plant Diversity:</b> The diversity of plant species is: 0 1 2 3 4 Narrow <2 Medium 3-4 Broad >5	3.6 4			
<b>Plant Density:</b> The percent ground cover for desirable and intermediate species is: 0 1 2 3 4 <55 65 75 85 >95	3			
<b>Plant Vigor:</b> Desirable and intermediate species are: 0 1 2 3 4 Weak Medium Strong	2			
<b>Legumes in Stand:</b> The percentage of the total biomass which is legume is: 0 1 2 3 4 <10 10-19 20-29 30-39 >40	1.5			
<b>Severity of Use:</b> The degree and frequency of use is: 0 2 4 2 0 Light Moderate Heavy	2			
<b>Uniformity of Use:</b> The uniformity of grazing is: 0 1 2 3 4 Spotty Intermediate Uniform	3			
<b>Soil Erosion:</b> Sheet, rill, gully and stream bank erosion is: 0 1 2 3 4 Severe Moderate Slight	4			
<b>Woody Canopy:</b> The paddock percentage covered by a woody canopy is: 0 1 2 3 4 >40 31-40 21-30 11-20 <11	0			
<b>Plant Residues:</b> Dead and decaying plant material is: 0 2 4 2 0 Deficient Appropriate Excessive	1			
<b>PASTURE CONDITION SCORE:</b>	23.5			

design

**COME  
JOIN  
US!**



## **AGRICULTURE OPEN HOUSE**

**May 30th, 9:30 AM to 3:00 PM**

You are invited to join the "Conservation Partners" in Washburn County on Friday, May 30th for a special day honoring Agriculture in our county. The Open House will begin at 9:30 AM at the Spooner Ag Research Station located east of Spooner on State Highway 70.

Outdoor demonstrations, indoor exhibits, workshops and displays are planned. Learn what each agency (county, state, and federal) has to offer landowners in our county.

Scheduled Topics

- 10:00 - Timberstand Improvement Session
- 11:00 - Pasture Renovation & Calibration Demonstration
- 12:30 - Soils/Wetland Presentation
- 1:30 - Computer/Internet Demonstration

PLUS Continuous Exhibits on:

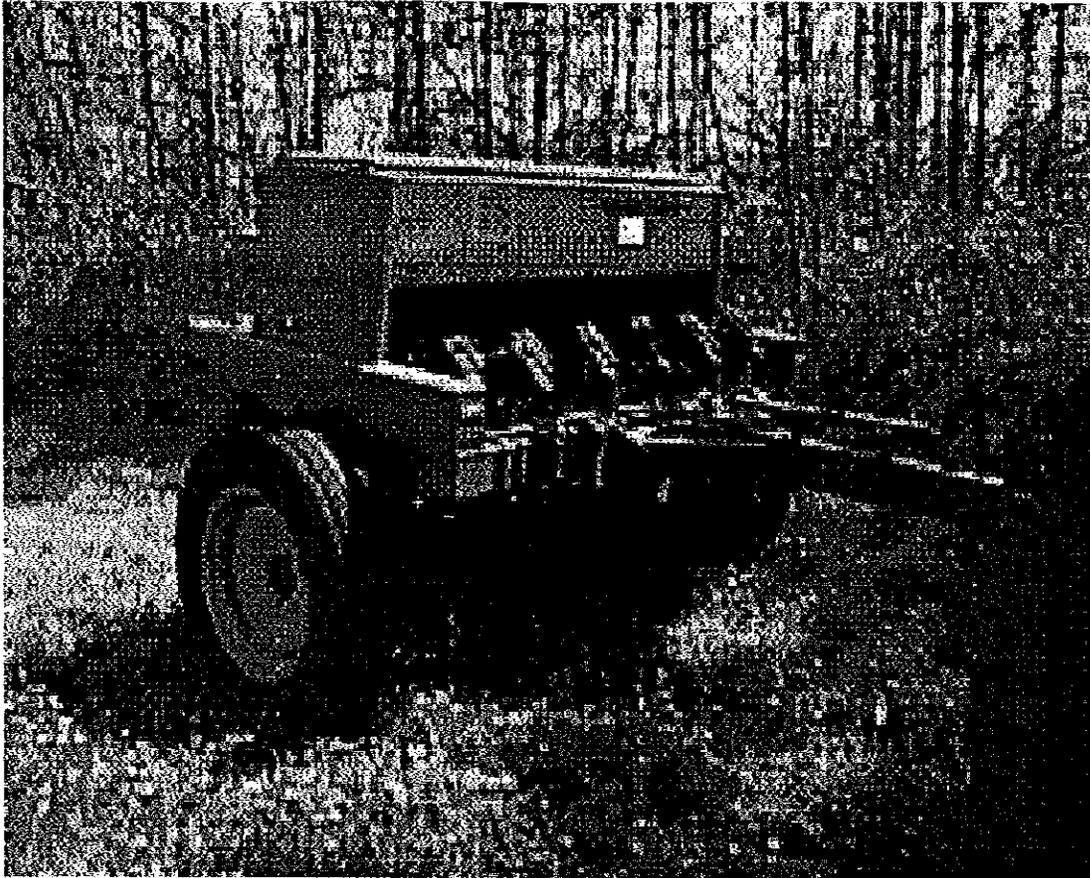
- Demonstrations by Master Gardeners of Washburn County
  - Wildlife Damage Program
  - Soil Survey Information
  - Family Nutrition Helps
  - Forage Quality
  - Recycling Ideas
  - Farm Safety
- and many more interesting displays

Mark Friday, May 30th, on your calendar as a reminder to attend. No admittance fee. Free refreshments and door prizes! You need not be present to win a prize.

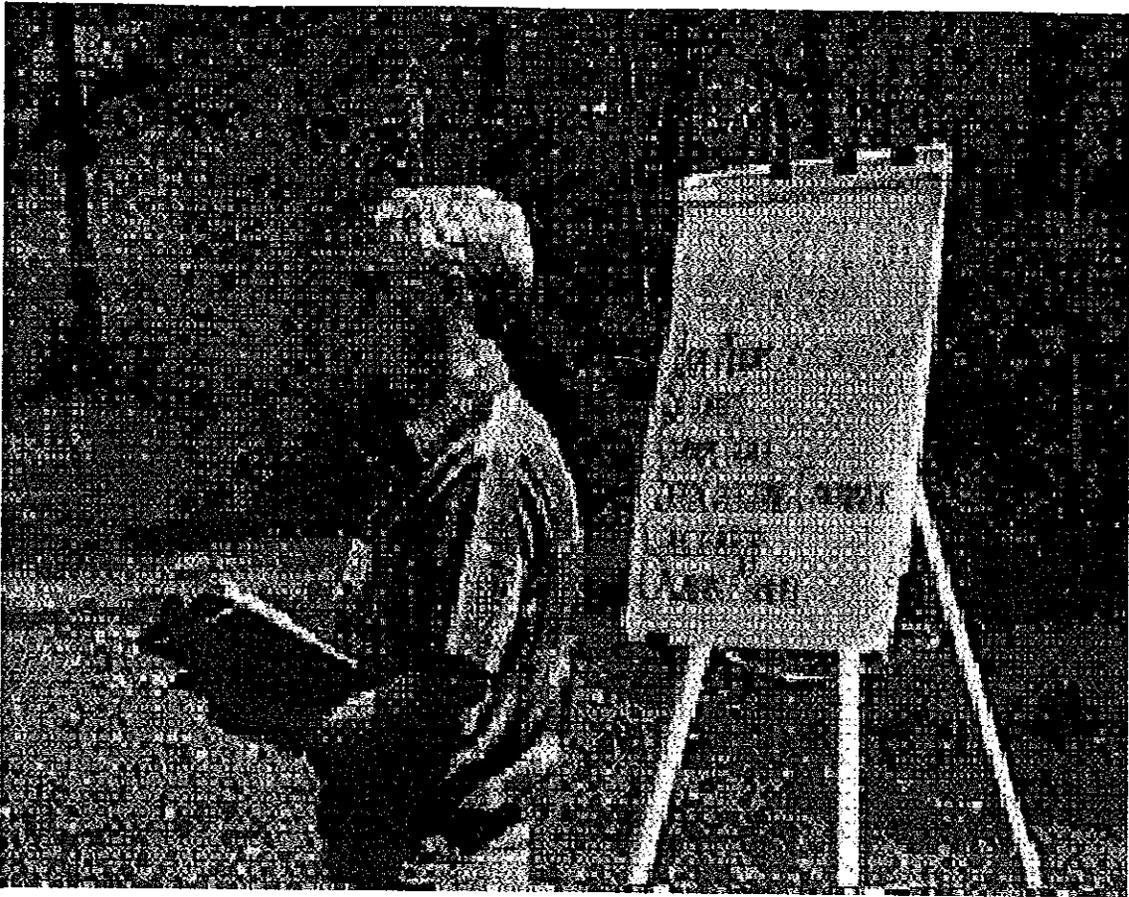
**SEE YOU THERE!**



Demonstrating the no-till inter-seeder and how to calibrate it for use in pasture renovation.



The no-till seeder used in the pasture reseeding demonstration.



Bob Rand, Supt. of the Spooner UW Ag Research Station discussing the details of calibrating a seeder and the management involved in renovating a pasture.



View of the participants who attended the pasture renovation demonstration.

A project of this scope and diversity demanded a great deal of cooperation and support from many individuals. As a final note, I, Russell Kiecker, would like to thank the following individuals who assisted with the project:

John Markus	County Agent
Mark Kopecky	County Agent
Phil Holman	County Agent
Andy Hager	County Agent
Mike Siemans	UW Livestock Specialist
Bud Sholts	Director ADD
Gwen Garvey	ADD Project Assistant
Mike Bandli	ADD Project Assistant
John and Nora Miller	Cooperators
Dick and Shirley Quinton	Cooperators
Chris and Posi Beaudin	Cooperators
Bob Rand	UW Spooner Ag Research Station
Bumett County Treasurer's Office	
Steve Hemshrot	N. District UWEX Director
Lorrain Toman	UWEX Secretary

\*\*\*\*\* End \*\*\*\*\*