

Attachment A

**Four Way Farms
(Mark & Gary Breuer)**

TRM Project Results

This project included the relocation of two separate animal feedlots that had direct discharges and unlimited livestock access to the stream. Both animal herds were relocated into one new free stall building along with the construction of a manure storage facility for these animals. The feedlots that the animals were moved from now contain a permanent deed restriction for livestock and the pasture area along the stream is also permanently protected to serve as riparian buffers.

A conservation plan was developed on all the land the farmer owns and operates controlling soil loss to tolerable levels. In addition, the landowner attended a Washington County sponsored Farmer Education and Certification Nutrient Management Workshop. At this workshop, Mark Breuer learned how to apply manure in an environmentally sound manner and balance manure applications with crop demand. Mr. Breuer also learned how to take credits for the nutrients either fixed by alfalfa/soybean legumes or applied in manure.

As a result of attending the workshop, Mr. Breuer became his own certified nutrient management planner with the ability to write and follow a nutrient management plan written for his farming operation only. In 2003, the landowners took an active role in the implementation of his plan and as a result, they have accomplished the following:

1. Due to high soil fertility levels, sludge will no longer be applied to their farmland.
2. Animal manure from the dairy operation is being applied to more acres in a year, decreasing the potential for environmental loading due to high soil fertility levels.
3. Manure is fully credited for nutrients.
4. Manure is applied with a focus on crop phosphorus needs, with supplemental nitrogen being applied to those fields not able to receive manure at the crop's nitrogen need.
5. Starter application has been decreased by 50%, from 200 lbs/acre to 100 lbs/acre.
6. Legume nitrogen is fully credited toward corn's nitrogen needs.
7. Nitrogen is being applied to corn during the appropriate time of the year, with no fall or winter application of commercial nitrogen.

Each year brings new challenges to the implementation of Four Way Farm's nutrient management plan, but each year these challenges are fully addressed with one eye on environment health and one eye on crop health. Manure is being applied in an environmentally sound manner and now that sludge is no longer being applied, soil fertility levels will cease to increase beyond what is needed for maximum quality and quantity of forages and grains.

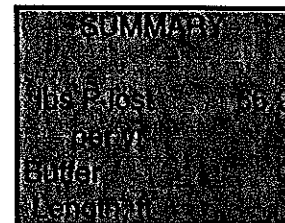
BARNY

Farmer: **Four Way Farms**
Feedlot Relocation #1
Pre - Conditions

Planner/Designer: **Paul Sebo**

Date: 3/8/04

	Input	Output
Closest City of similar climate:	1	1 Madison 2 Appleton 3 Wausau 4 Eau Claire
Paved lot area:	3,165	sq ft
Earth lot area:	7,335	sq ft
Animal Lot size:	10,500	sq ft
Is there a DESIGNED settling basin	2	Yes= 1; No= 2



ANIMALS	Animals on lot:	80	number
	Type of animal:	1	(Dairy = 1; Beef=2)
	Ave. Animal Weight:	800	lbs (Typical Full size: Dairy- 1400; Beef- 1000)
	Lot Use:	1	1= heavy; 2= Medium; 3= Light)
	Animals on lot:	0	number
	Type of animal:		
	Ave. Animal Weight:		lbs
	Lot Use:		

TRIBUTARY AREAS

Tributary area:		sq ft
Runoff Curve Number:		
Tributary area:	0	sq ft
Runoff Curve Number:		
Roof Trib. area:	3,400	sq ft

P (lbs) at D.S. Lot edge:
 66.2 lbs P per year

BUFFERS

First Buffer	Length:	0	ft
	Slope:		
	"c" :		
Second Buffer	Length:	0	ft
	Slope:		
	"c" :		

"c" Value Table

Permanent Meadow	0.59
Woods, Heavy Litter	0.59
Woods, Lt Ltr	0.29
Good Pasture	0.22
Fair Pasture	0.15
Small Grain	0.29
Legume	0.29
Contoured Row Crop	0.29

P (lbs) after the buffers: 6.6 lbs P per year

Total Buffer Length: feet

BARNY

Farmer: **Four Way Farms**
Feedlot Relocation #1
Post - Conditions

Planner/Designer: **Paul Sebo**

Date: 11/18/05

	Input	Output	1 Madison 2 Appleton 3 Wausau 4 Eau Claire
Closest City of similar climate:	1		
Paved lot area:	3,165	sq ft	
Earth lot area:	7,335	sq ft	
Animal Lot size:	10,500	sq ft	
Is there a DESIGNED settling basin	2	Yes= 1; No= 2	

SUMMARY
 lbs P/lot: **0.0**
 lbs P/yr: **0.0**
 lbs P/acre: **0.0**

ANIMALS	Animals on lot:	0	number
	Type of animal:	1	(Dairy = 1; Beef=2)
	Ave. Animal Weight:	0	lbs (Typical Full size: Dairy- 1400; Beef- 1000)
	Lot Use:	3	1= heavy; 2= Medium; 3= Light)
	Animals on lot:	0	number
	Type of animal:		
	Ave. Animal Weight:		lbs
	Lot Use:		

TRIBUTARY AREAS

Tributary area:		sq ft
Runoff Curve Number:		
Tributary area:	0	sq ft
Runoff Curve Number:		
Roof Trib. area:	3,400	sq ft

P (lbs) at D.S. Lot edge:
0.0 lbs P per year

BUFFERS

First Buffer	Length:	0	ft
	Slope:		
	"c" :		
Second Buffer	Length:	0	ft
	Slope:		
	"c" :		

"c" Value Table	
Permanent Meadow	0.59
Woods, Heavy Litter	0.59
Woods, Lt Ltr	0.29
Good Pasture	0.22
Fair Pasture	0.15
Small Grain	0.29
Legume	0.29
Contoured Row Crop	0.29

P (lbs) after the buffers: **0.0** lbs P per year

Total Buffer Length: **0** feet

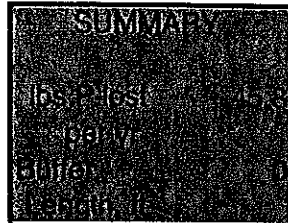
BARNY

Farmer: **Four Way Farms**
Feedlot Relocation #2
Pre-Conditions

Planner/Designer: **Paul Sebo**

Date: 3/8/04

	Input	Output
Closest City of similar climate:	1	1 Madison 2 Appleton 3 Wausau 4 Eau Claire
Paved lot area:	6,000	sq ft
Earth lot area:		sq ft
Animal Lot size:		sq ft
Is there a DESIGNED settling basin	2	Yes= 1; No= 2



ANIMALS	
Animals on lot:	80 number
Type of animal:	1 (Dairy = 1; Beef=2)
Ave. Animal Weight:	800 lbs (Typical Full size: Dairy- 1400; Beef- 1000)
Lot Use:	2 1= heavy; 2= Medium; 3= Light)
Animals on lot:	0 number
Type of animal:	
Ave. Animal Weight:	lbs
Lot Use:	

TRIBUTARY AREAS

Tributary area:		sq ft
Runoff Curve Number:		
Tributary area:	0	sq ft
Runoff Curve Number:		
Roof Trib. area:	2,100	sq ft

P (lbs) at D.S. Lot edge:
45.8 lbs P per year

BUFFERS

First Buffer	Length:	0 ft
	Slope:	
	"c" :	
Second Buffer	Length:	0 ft
	Slope:	
	"c" :	

"c" Value Table	
Permanent Meadow	0.59
Woods, Heavy Litter	0.59
Woods, Lt Ltr	0.29
Good Pasture	0.22
Fair Pasture	0.15
Small Grain	0.29
Legume	0.29
Contoured Row Crop	0.29

P (lbs) after the buffers: **7.5** lbs P per year

Total Buffer Length: **0** feet

BARNY

Farmer: **Four Way Farms**
Feedlot Relocation #2
Post - Conditions

Planner/Designer: **Paul Sebo**

Date: 11/18/05

Closest City of similar climate: **1**

Paved lot area: **6,000** sq ft

Earth lot area: **13,000** sq ft

Animal Lot size: **13,000** sq ft

Is there a DESIGNED settling basin **2** Yes= 1; No= 2

- 1 Madison
- 2 Appleton
- 3 Wausau
- 4 Eau Claire

SUMMARY	
lbs P/lot	0.0
Per year	0.0
Buffer	0.0
Detention	0.0

ANIMALS

Animals on lot: **0** number

Type of animal: **1** (Dairy = 1; Beef=2)

Ave. Animal Weight: **0** lbs (Typical Full size: Dairy- 1400; Beef- 1000)

Lot Use: **3** 1= heavy; 2= Medium; 3= Light)

Animals on lot: **0** number

Type of animal: **1**

Ave. Animal Weight: **0** lbs

Lot Use: **3**

TRIBUTARY AREAS

Tributary area: **0** sq ft

Runoff Curve Number: **0**

Tributary area: **0** sq ft

Runoff Curve Number: **0**

Roof Trib. area: **2,100** sq ft

P (lbs) at D.S. Lot edge: **0.0** lbs P per year

BUFFERS

First Buffer Length: **0** ft

Slope: **0**

"c" : **0**

Second Buffer Length: **0** ft

Slope: **0**

"c" : **0**

"c" Value Table	
Permanent Meadow	0.59
Woods, Heavy Litter	0.59
Woods, Lt Ltr	0.29
Good Pasture	0.22
Fair Pasture	0.15
Small Grain	0.29
Legume	0.29
Contoured Row Crop	0.29

P (lbs) after the buffers: **0.0** lbs P per year

Total Buffer Length: **0** feet



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 Agriculture Resource Management Division
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CREP ENVIRONMENTAL BENEFIT REPORT SUMMARY

Landowner: <u>FOUR WAY FARMS</u>		(Attach additional sheets as necessary)		County: <u>WASHINGTON</u>	
1A. LOCATION DESCRIPTION	1.NRCS LOCATION ID # <u>RELOCATION #1 6.9 AC</u> Tract# _____ Field#s _____ DNR Basin <u>UPPER ROCK</u> Stream: Name <u>KOHLVILLE R.</u> Length <u>1500</u> (Shoreline, if not stream) Waterbody Name _____ (If not a stream) 303d water <u>X</u> YES _____ NO	1.NRCS LOCATION ID # <u>RELOCATION #2 1.4 AC</u> Tract# _____ Field#s _____ DNR Basin <u>UPPER ROCK</u> Stream: Name <u>UNNAMED TRIB</u> Length <u>650</u> (Shoreline, if not stream) Waterbody Name _____ (If not a stream) 303d water _____ YES <u>X</u> NO	1.NRCS LOCATION ID # _____ Tract# _____ Field#s _____ DNR Basin _____ Stream: Name _____ Length _____ (Shoreline, if not stream) Waterbody Name _____ (If not a stream) 303d water _____ YES _____ NO		
1B. PRACTICE INFORMATION	<input type="checkbox"/> Wetland Restoration <input checked="" type="checkbox"/> Grassland, Filter Strips, Riparian Buffer	<input type="checkbox"/> Wetland Restoration <input checked="" type="checkbox"/> Grassland, Filter Strips, Riparian Buffer	<input type="checkbox"/> Wetland Restoration <input type="checkbox"/> Grassland, Filter Strips, Riparian Buffer		
1C. ENVIRONMENTAL BENEFIT	Pounds of P Reduced: <u>19.9</u> Pounds of N Reduced: <u>8.3</u> Tons of sediment Reduced: <u>7.5</u>	Pounds of P Reduced: <u>7.9</u> Pounds of N Reduced: <u>3.3</u> Tons of sediment Reduced: <u>3.0</u>	Pounds of P Reduced: _____ Pounds of N Reduced: _____ Tons of sediment Reduced: _____		