



JANUARY 2001

# BRADFORD COUNTY

## FARMERS' RESOURCE GUIDE



### BRADFORD COUNTY CONSERVATION DISTRICT

RR 5 BOX 5030-C  
TOWANDA PA 18848  
(570) 265-5539 EXT 6

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# INTRODUCTION

Each and every farming operation we see as we travel across Bradford County is a reflection of the objectives and management skills of the individuals that are proud to call themselves *farmers*. Farming in today's world encompasses the elements of agronomy, soils science, animal husbandry, fiscal management, personnel management, environmental science, and a host of other disciplines and influences. The farmer must balance his or her values along with the needs of the operation, the family's needs, community's needs and the environment's needs.

There are a host of resources and resource people willing and able to lend their assistance and knowledge to assist the farmer in making some of those critical management decisions. One of the most valuable of these resources are the farmers themselves. The community of farmers that make up the agricultural operations of Bradford County share the common resource base, the climate and the market conditions. Each of them approaches the challenges of farming in their own way to make or break the success of their individual operation.

This guide is a compilation of *farmer resources* that are available to share their experiences in developing and managing *best management practices (bmps)* for addressing environmental issues related to farming operations in Bradford County. It is recognized by the many agencies and individuals that provide technical assistance to farmers that the practices they discuss, plan and eventually implement must fit in with the management time and needs that the farmer has. While those resource agency people can best explain the practice function and design, there is no better source of management information than those that have been working with the practices themselves. The individuals listed here have offered to discuss those operational and management issues with other farmers seeking such information. This publication is meant as a supplement to the planning efforts of those resource people and their efforts.

This guide is meant to be a local supplement to such publications as the *PA Technical Guide* and *A Conservation Catalog* as well as other available publications and guides.

## ACKNOWLEDGEMENTS

The Bradford County Conservation District wishes to gratefully acknowledge the contributions of those farmers featured within this book. They have generously agreed to share their experiences with others to not only help the future of farming in Bradford County, but also maintain and improve the quality of the environment that is shared by all who live, work, and visit.

We also wish to thank Dick Allyn for the work on taking the photographs shown here and all the others that have provided assistance and review of this work.

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Publication layout and design by Danille Turissini, M-BRS Research and Consulting Services, Towanda, PA.

For information and/or assistance, please contact the Bradford County Conservation District by calling (570) 265-5539 ext. 6.

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Barnyards are critical areas for any livestock producer that is not a total confinement system. Providing a stable area that facilitates animal health, ease in maintenance, and avoids water quality impacts is a goal every farmer has.

## THE PRINCIPLES INVOLVED IN GOOD BARNYARD DESIGN AND CONSTRUCTION INCLUDE:

1. Keeping clean water clean by eliminating it from entering the barnyard
2. Sizing and adjusting the barnyard for the type and frequency of use
3. Providing a durable, yet livestock friendly, surface for livestock, vehicles and maintenance
4. Directing runoff from the barnyard area to storage or treatment
5. Providing for a maintenance plan

## COMPONENTS OF BARNYARD SYSTEMS USUALLY INCLUDE THE FOLLOWING:

1. A diversion to direct uphill water from entering the barnyard area
2. Roof runoff collection and diversion from the barnyard area
3. Sizing and reinforcement of the barnyard
4. Collection of runoff from the actual barnyard to a storage or treatment area

## THE FOLLOWING FARMS ARE FEATURED IN THIS SECTION:

### DAN ABELL

- Screen Residue after Rain

### JOHN ALLFORD

- Screen Box

### JAMES HEPP

- Barnyard Runoff Control
- Roof Gutters
- Barnyard System

### JON and JEFF JENKINS

- Drip Trench/Rock under Roof Eaves

### BOB JENNINGS

- Pipe and Grass Filter

### MILT SHERMAN

- Gravel Exercise Lot with Cattle Lane

### KEN WALTER

- Gravel Barnyard

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DAN  
**ABELL**

SCREEN  
RESIDUE  
AFTER RAIN

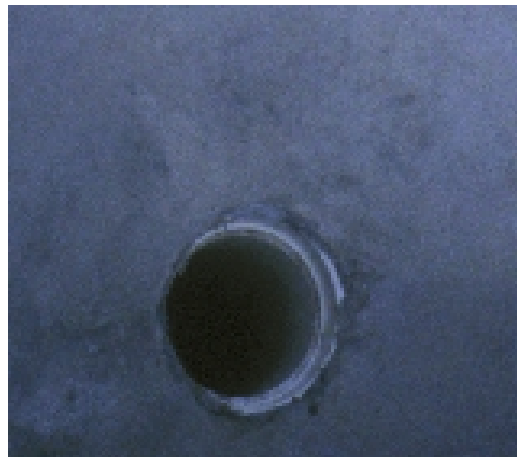
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JOHN  
**ALLFORD**

SCREEN BOX AND  
OUTLET TO FILTER AREA  
(MAGNIFIED BELOW)

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## BARNYARDS

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**JAMES  
HEPP**

**BARNYARD  
SYSTEM  
AND  
RUNOFF  
CONTROL**

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**ROOF GUTTERS (MAGNIFIED BELOW)**







JON AND JEFF  
**JENKINS**

DRIP TRENCH/ROCK  
UNDER ROOF EAVES

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BOB  
**JENNINGS**



MILT

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**SHERMAN**

GRAVEL EXERCISE LOT WITH CATTLE LANE



KEN

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**WALTER**

GRAVEL BARNYARD





# CONTOUR STRIPS

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Contour farming involves tilling, planting, and harvesting operations around the hill or slope as near to the contour as practical. Tillage crops are interspersed with grass or forage crops. The purpose of this practice is to slow down the water running across the field and to intercept any top soil leaving the row crop areas. This practice reduces runoff, increases soil moisture and decreases soil erosion.

## **THE PRICIPLES INVOLVED IN CONTOUR STRIP FARMING INCLUDE:**

1. Farming as near to the contour of the hill or slope as possible
2. Inter-spacing row crop strips with hay or forage crop strips to minimize runoff

## **COMPONENTS OF CONTOUR STRIP CROPPING INCLUDE:**

1. Design and layout of widths and slopes of strips
2. Crop rotations that alternate to maintain the integrity of the contour strips



**CONTOUR STRIPS**

[\(RETURN TO TABLE\)](#)

RON  
**KLINE**

# DIVERSIONS

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Diversions are commonly used by many County farmers to help break up the long slopes where crops are raised or to keep water away from high use areas such as farmsteads or animal concentration areas. They reduce the rate of runoff and minimize soil erosion. They are cross slope structures that are permanently vegetated and outlet into a stable area.

## THE PRINCIPLES INVOLVED IN THE DESIGN AND CONSTRUCTION OF DIVERSIONS INCLUDE:

1. Sizing and designing a diversion for the amount of water draining into it
2. Constructing and stabilizing the channel to minimize any erosion that may result from the water flow
3. Assuring a stable outlet for the end of the diversion
4. Maintaining the diversion to maximize proper vegetative cover

## COMPONENTS OF DIVERSIONS INCLUDE:

1. Proper sizing and design
2. Selection of vegetative cover and its establishment
3. Assuring a stable outlet
4. A maintenance plan

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**JON AND JEFF  
JENKINS**

**DIVERSION**

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# GRASSED WATERWAYS

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Grassed waterways collect the water from the farm fields and barn areas and convey it to a stable outlet in a way that prevents channel erosion. Such waterways are designed to carry the flows that the areas draining into them create. They help improve water quality, reduce erosion and provide a stable outlet for diversions, terraces and other water collection sources.

## THE PRINCIPLES INVOLVED IN THE DESIGN AND CONSTRUCTION OF GRASSED WATERWAYS INCLUDE:

1. Sizing and designing a waterway for the amount of water draining into it
2. Constructing and stabilizing the channel to minimize any erosion that may result from the water flows
3. Assuring or establishing a stable outlet
4. Maintaining the waterway to maximize proper vegetative cover

## COMPONENTS OF GRASSED WATERWAYS USUALLY INCLUDE THE FOLLOWING:

1. Proper sizing and design
2. Selection of vegetative cover and its establishment
3. Stable outlet
4. A maintenance plan



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JOHN  
**GEORGE**

**GRASSED  
WATERWAY**

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A well managed grazing system maximizes forage potential, efficiently utilizes fields where soils may not be suitable for row crops, minimizes soil and nutrient pollution, encourages animal health and can provide good economic return.

## **THE PRINCIPLES INVOLVED IN THE DESIGN, CONSTRUCTION, AND MAINTENANCE OF A GRAZING SYSTEM INCLUDE:**

1. Design and tailor paddock size for the animal types and herd size so that rotations maximize forage health and efficiency and considers water quality
2. Utilizes forage species that meet animal and farm management needs
3. Provides a dependable source of drinking water

## **COMPONENTS OF A GRAZING SYSTEM INCLUDE:**

1. Fencing layout
2. Vegetation selection
3. Watering system
4. Access lane or alleys
5. Maintenance

## **THE FOLLOWING FARMS ARE FEATURED IN THIS SECTION:**

### **RAYMOND HOPPAUGH**

- Grazing System – Paddock Layout

### **DALE NEUFELD**

- Solar Panels for Water Pump

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RAYMOND

GRAZING SYSTEM — PADDOCK LAYOUT

**HOPPAUGH**



[\(RETURN TO TABLE\)](#)

DALE  
**NEUFELD**

**SOLAR PANELS  
FOR WATER  
PUMP**

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# MANURE STORAGE

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For those farmers that have need to store manure during winter months in order to reduce nutrient discharge into the surrounding water, manure storage is a significant management and financial commitment. Storage structures can be as simple as a stacking area and go on to complexity involving earthen storage, concrete, or steel structures. Storage allows for a more efficient utilization of the manure nutrients for the operator, helps protect water quality, improves animal health and can improve aesthetics of a farming operation. Manure structures should be installed as a component of a comprehensive farm-specific nutrient management plan.

## THE PRINCIPLES INVOLVED IN MANURE STORAGE DESIGN, CONSTRUCTION AND MANAGEMENT INCLUDE:

1. Matching the site and environmental conditions to the appropriate structure
2. Designing and constructing a storage facility that meets good engineering and environmental standards and matches the farmers management needs
3. Sizing for needed storage duration
4. Eliminating any possible surface or ground water intrusion
5. Providing adequate safety protection
6. Developing a proper maintenance plan

## COMPONENTS OF A MANURE STORAGE SYSTEM USUALLY INCLUDES:

1. Site evaluation and selection of structure type
2. Proper sizing and design based on a nutrient/manure management plan
3. Collection and transfer of manure from the livestock areas
4. Surface and groundwater collection and diversion
5. Storage structure
6. Unloading structures
7. Safety facilities and emergency contingency plans

## THE FOLLOWING FARMS ARE FEATURED IN THIS SECTION:

### JAY GOOD

- Slatted Floor Manure Handling

### BEN and DEAN JACKSON

- Manure Agitation Pump

### BOB JENNINGS

- Earthen Manure Storage Pond

### RON KLINE

- Concrete Manure Storage Tank

### JIM MADIGAN

- Barnyard to Concrete and Steel Storage Tanks
- Twin Agitation Pumps

### BOB RATHBUN

- Steel Manure Storage Tank

### DOUG and VICKIE WILBUR

- Concrete Manure Storage Tank

### BOB WOLPERT

- Manure Stacking Pad

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# MANURE STORAGE

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JAY  
**GOOD**

SLATTED FLOOR  
MANURE HANDLING

BEN AND DEAN  
**JACKSON**

MANURE AGITATION PUMP



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# MANURE STORAGE

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BOB

## EARTHEN MANURE STORAGE POND

**JENNINGS**



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RON  
**KLINE**

CONCRETE  
DAIRY  
MANURE  
STORAGE  
TANK



# MANURE STORAGE

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JIM  
**MADIGAN**

BARNYARD TO CONCRETE,  
STEEL STORAGE TANKS,  
AND TWIN AGITATION PUMPS

BOB  
**RATHBUN**  
STEEL VEAL MANURE  
STORAGE TANK



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# MANURE STORAGE

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## CONCRETE VEAL MANURE STORAGE TANK

DOUG AND VICKIE  
**WILBER**



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## MANURE STACKING PAD

BOB  
**WOLPERT**



# MILK HOUSE WASTE

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Providing a clean environment in and around the milk house is critical. This usually entails a good drainage system in the milk house which drains to some type of collection system for later utilization or disposal. Milk house waste can be legally utilized on cropping areas, either as part of the nutrient management plan disposal strategy or as part of a grass filter system.

## THE PRINCIPLES INVOLVED IN MILK HOUSE WASTE MANAGEMENT DESIGN, CONSTRUCTION AND MANAGEMENT INCLUDE:

1. Matching the site conditions and the management styles of the farmer with a collection and storage system as well as a disposal/utilization plan
2. Designing and constructing a collection, transfer and storage system
3. Developing a proper maintenance plan

## COMPONENTS OF A MILK HOUSE WASTE SYSTEM INCLUDE:

1. Site evaluation and selection of approach
2. Proper sizing and design
3. Construction

## THE FOLLOWING FARMS ARE FEATURED IN THIS SECTION:

### BOB TAYLOR

- Milk House Storage Tanks
- Milk House Pipe to Spreader

### BOB JENNINGS

- Milk House Waste Distribution Pipe and Grass Filter

### BRIAN HARRIS

- Irrigation of Milkhouse Waste and Manure Storage Runoff



MILK HOUSE STORAGE TANKS

BOB

TAYLOR

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# MILK HOUSE WASTE

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BOB  
**TAYLOR**

[\(RETURN TO TABLE\)](#)

MILK HOUSE PIPE TO SPREADER



BOB  
**JENNINGS**

MILK HOUSE WASTE DISTRIBUTION  
PIPE AND GRASS FILTER



BRIAN  
**HARRIS**

IRRIGATION  
OF MILKHOUSE  
WASTE AND  
MANURE  
STORAGE  
RUNOFF

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# PESTICIDE HANDLING SYSTEMS

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Pesticide handling systems are designed to allow farmers to safely fill and mix agri-chemicals for field application. The system is designed to handle any type of emergency spill or overflow while preparing materials, as well as to recycle rinse water from the handling tanks, thus protecting water quality from contaminated runoff.

## THE PRINCIPLES INVOLVED IN THE DESIGN AND CONSTRUCTION OF A PESTICIDE HANDLING SYSTEM INCLUDE:

1. Sizing and designing a system that takes maximum equipment capacity into consideration
2. Sizing and designing a system that directs all spillage and overflow to a self-contained storage that can easily be pumped
3. Design allows clean rainwater to bypass the system
4. The system considers the safe storage of agri-chemicals

## COMPONENTS OF A PESTICIDE HANDLING SYSTEM INCLUDE:

1. Proper sizing and design
2. Proper storage for spills, runoff and for agri-chemicals stored on-site
3. Perimeter controls to divert surface runoff from entering the mixing site
4. Emergency wash facilities
5. Safety controls for access and proper signage

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ROY AND TIM  
**BEARDSLEE**

**PESTICIDE  
HANDLING SYSTEM**



# STREAM BANK PROTECTION

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Streams and their banks are critical areas as an interface between the farm and the environment. The proper management of these areas can help protect and enhance water quality, wildlife habitat and the farm's fields. Streams and their immediate borders, called riparian areas, can do much to filter runoff and stabilize banks. In areas where the stream banks are eroding, structural, vegetative or management approaches are used to correct the unstable conditions.

## THE PRINCIPLES INVOLVED IN THE DESIGN AND CONSTRUCTION OF STREAM STABILITY INCLUDE:

1. Managing riparian areas to avoid disturbance by livestock or tillage
2. Restoring eroding stream banks through vegetative, structural or both approaches
3. Establishing controlled access to streams
4. Maintenance of stream riparian areas

## COMPONENTS OF STREAM BANK PROTECTION MAY INCLUDE:

1. Assessment of restoration needs
2. Selection of restoration practices to include but not limited to:
  - Livestock exclusionary fencing
  - Structural bank protection sizing, design and installation
  - Vegetative bank protection design and installation
  - Stabilized stream crossings sizing, design and installation
  - Alternative livestock watering design and installation

## THE FOLLOWING FARMS ARE FEATURED IN THIS SECTION:

### BENTLEY CREEK

- Rock Structures in Stream Channel

### CONRAD CARLSEN

- Stream Bank Fencing

### MARK CARTER

- Gravel Stream Crossing

### BEN and DEAN JACKSON

- Stream Crossing

### RT. 6 BRIDGE OVER SUGAR CREEK

(West of Towanda on Route 6)

- Rock Rip-rap on Stream Banks

### GERALD TWIGG

- Riparian Forest Buffer

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## STREAM BANK PROTECTION

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### BENTLEY CREEK

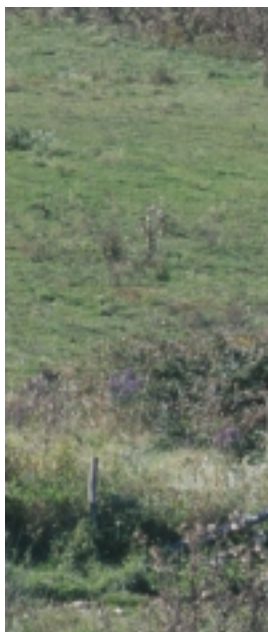
ROCK  
STRUCTURES  
IN STREAM  
CHANNEL



### CONRAD CARLSEN

STREAM BANK  
FENCING

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## STREAM BANK PROTECTION

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**MARK  
CARTER**

**GRAVEL  
STREAM  
CROSSING**

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**BEN and DEAN  
JACKSON**

**STREAM CROSSING**

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## STREAM BANK PROTECTION

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### ROUTE 6 BRIDGE OVER SUGAR CREEK

ROCK RIP-RAP ON STREAM BANKS (West of Towanda)



GERALD  
TWIGG

RIPARIAN  
FOREST  
BUFFER

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# WASTE FIELD APPLICATION

Any farmer in the Bradford County area is familiar with the traditional methods of applying the nutrients related to animal manures, wash water and barnyard runoff. There are a number of methods that involve calculating and matching these nutrients to grass and forage filter areas. These areas are sized to assure that any runoff leaving them is clean enough to enter the surrounding environment.

## THE PRINCIPLES INVOLVED IN DESIGNING AND CONSTRUCTING THESE AREAS INCLUDE:

1. Determining the amount and nutrient content of the waste being handled
2. Sizing and establishing a vegetative or crop area that would efficiently utilize all available nutrients so as to avoid water quality impacts
3. Sizing and designing a distribution system appropriate to the management needs of the farm

## COMPONENTS OF WASTE DISTRIBUTION / FILTRATION SYSTEM INCLUDE:

1. Sizing, design and installation of a temporary storage system that may include solids separation
2. Sizing, designing and construction of a transfer system
3. Sizing, designing of a vegetative area for the receiving of the material
4. Maintenance plan for the system and vegetative area



IRRIGATION OF WASTE WATER

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BRIAN  
HARRIS

# BRADFORD COUNTY FARMER'S RESOURCE GUIDE

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FARMERS' RESOURCE GUIDE

## BRADFORD COUNTY FARMER CONTACTS

**Abell, Dan - BEEF**

RR 1 Box 556  
Warren Center, PA 18851  
(570) 395-3647

- Screen residue after rain
- Concrete barnyard

**Allford, John - DAIRY**

RR1 Box 46  
Milan, PA 18831  
(570) 596-2470

- Screen box
- Concrete barnyard

**Barrett, Jim - DAIRY**

RR 4 Box 179  
Towanda, PA 18848  
(570) 265-8887

- Manure irrigation
- Earthen manure storage

**Beardslee, Roy and Tim - DAIRY**

RD 2 Box 239  
Columbia Cross Roads, PA 16914  
Roy-(570) 297-2835  
Tim-(570) 297-2828

- Pesticide handling system
- Contour Strips

**Bradford Co. Conservation  
District - Bentley Creek**

Bradford County Conservation  
District  
RR 5 Box 5030C  
Towanda, PA 18848  
265-5539 Ext. 6  
• Stream Protection

**Carlsen, Conrad - DAIRY**

RR 1 Box 108  
Rome, PA 18837  
(570) 247-2896

- Stream bank fencing
- Concrete barnyard
- Earthen manure storage

**Carter, Mark - DAIRY**

RR 3 Box 111  
Troy, PA 16947  
(570) 297-4048  
• Stream crossing (gravel)

**Ferguson, Bob - BEEF**

RR 2 Box 84  
Canton, PA 17724  
(570) 673-8212

- Concrete barnyard
- Filter channel

**George, John**

RR 1 Box 200B  
Rome, PA 18837  
(570) 247-2066

- Grassed waterway
- Diversion

**Good, Jay - DAIRY**

RD 2 Box 102  
Canton, PA 17724  
(570) 673-3594

- Slatted floor manure
- Concrete stream crossing

**Harris, Brian - DAIRY**

195 Locust Dr.  
Milan, PA 18831  
(570) 596-3077  
• Irrigation of waste water  
• Manure Storage Run-off

**Hepp, James - DAIRY**

RR 3 Box 42  
Wyalusing, PA 18853  
(570) 746-1651  
• Waste stacking area  
• Barnyard runoff control  
• Concrete barnyard  
• Roof gutters

**Hoppaugh, Raymond - DAIRY**

RR 2 Box 165  
Columbia Cross Roads, PA 16914  
(570) 596-2532  
• Stream bank fencing  
• Grazing system

**Jackson, Ben and Dean - DAIRY**

RR 2 Box 241  
Columbia Cross Roads, PA 16914  
(570) 297-2838

- Culvert stream crossing
- Manure agitation pump
- Diversions
- Contour strips

**Jenkins, Jon and Jeff - DAIRY**

RD 2 Box 260  
Columbia Cross Roads, PA 16914  
• Drip trench – rock under roof  
eaves.

- Gravel barnyard
- Diversions

**Jennings, Bob - DAIRY**

RR 1 Box 82A  
Canton, PA 17724  
(570) 673-4350  
• Earthen manure storage  
• Milk house waste treatment in  
grass filter  
• Pipe and Grass Filter

**Kline, Ron - DAIRY**

RR 2 Box 341  
Troy, PA 16947  
(570) 297-3236  
• Contour strips  
• Concrete manure storage  
• Earthen manure storage  
• Manure Agitation pump

**Madigan, Dean - HEIFERS**

RD 3 Box 149  
Towanda, PA 18848  
(570) 265-3799  
• Grazing system

**Madigan, Jim - DAIRY**

RR 3 Box 140  
Towanda, PA 18848  
(570) 265-3822  
• Concrete and steel manure  
storage  
• Manure agitation pumps

## BRADFORD COUNTY FARMER'S RESOURCE GUIDE

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**McClelland, Carl - DAIRY**

RR 3 Box 266  
Columbia Cross Roads, PA 16914  
(570) 297-4087

- Slatted floor manure collection
- Earthen manure storage

**Neufeld, Dale - DAIRY**

Hornbrook Park Road  
RR 5

- Towanda, PA 18848
- Stream bank fencing
  - Grazing system
  - Solar powered water pump

**Rathbun, Bob - VEAL**

RR 1 Box 407  
Canton, PA 17724  
(570) 673-8834

- Steel manure storage

**Robinson, Elton - DAIRY**

RR 3 Box 198  
Wyalusing, PA 18853  
(570) 744-2364

- Earthen manure storage facility
- Waste transfer pump

**Russell, Don - DAIRY**

RR 1 Box 123  
Rome, PA 18837  
(570) 247-2900 or 247-7360

- Earthen manure storage
- Manure pump

**Saxton, Steve - DAIRY**

RR 1 Box 41  
Columbia Cross Roads, PA 16914  
(570) 297-5118 or 297-5155

- Grazing system
- Earthen manure storage

**Sherman, Milt - DAIRY**

RR 3 Box 88  
Troy, PA 16947  
(570) 297-2919

- Gravel exercise lot w/ cattle lane
- Earthen manure storage

**Shores, Scott - DAIRY**

RR 5 Box 5240  
Towanda, PA 18848  
(570) 265-9033

- Slatted floor manure collection

**Taylor, Bob - DAIRY**

RR 1 Box 188  
Rome, PA 18837  
(570) 247-7551

- Milk house waste to spreader

**Twigg, Gerald - DAIRY**

RR 1 Box 135  
Sayre, PA 18840  
(570) 247-7959

- Riparian forest buffer

**VanBlarcom, Jim - DAIRY**

RR 2  
Columbia Cross Roads, PA  
(570) 297-3866

- Pesticide handling system
- Slatted floor manure
- Earthen manure storage

**Walter, Ken - DAIRY**

RD 1 Box 7  
Milan, PA 18831  
(570) 888-9742

- Gravel barnyard

**Wilber, Doug & Vickie - VEAL**

RR 1 Box 239  
Roaring Branch, PA 17765  
(570) 673-3884

- Concrete veal manure storage

**Wolpert, Bob - HORSE**

RR 1 Box 76  
Athens, PA 18810  
(570) 888-6959

- Manure stacking pad

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*If you would like to have your name added to the Bradford County Farmer-Contact Guide, please contact the Bradford County Conservation District at (570) 265-5539, ext. 6.*

## LOCAL BRADFORD COUNTY AGENCY CONTACTS

The following is a list of sources for technical, informational, and financial assistance on these and other practices.

### Bradford Co. Conservation District - Stoll Natural Resources Center

RR 5 Box 5030C  
Towanda, PA 18848  
(570) 265-5539 Ext. 6

### Farm Service Agency - Stoll Natural Resources Center

RR 5 Box 5030A  
Towanda, PA 18848  
(570) 265-6969 Ext. 2

### Natural Resources Conservation Service - Stoll Natural Resources Center

RR 5 Box 5030E  
Towanda, PA 18848  
(570) 265-6969 Ext. 3

### Northern Tier Regional Planning & Development Commission

507 Main St.  
Towanda, PA 18848  
(570) 265-9103

### Pennsylvania Dept. of Ag

2301 N. Cameron St.  
Harrisburg, PA 17110-9408  
(717) 787-4737  
pda.state.pa.us

### Penn State Extension

PO Box 69  
Towanda, PA 18848  
(570) 265-2896

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*To locate the Bradford County farm of interest to you, please refer to the map located on the back cover of this publication.*



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# BRADFORD COUNTY FARMER PRACTICES

28 PAGE - JANUARY 2000						FARMERS' RESOURCE GUIDE					
Farmer / Contact Name	Barnyards	Contour Strips	Diversions	Grassed Waterways	Grazing Management						
Dan Abell	<b>X</b> (p.3)										
John Allford	<b>X</b> (p.3)										
Jim Barrett											
Roy & Tim Beardslee		<b>X</b>									
BCCD - Bentley Creek											
BCCD - Sugar Creek Bridge											
Conrad Carlson	<b>X</b>										
Mark Carter											
Bob Ferguson	<b>X</b>										
John George			<b>X</b>	<b>X</b> (p.9)							
Jay Good											
Brian Harris											
James Hepp	<b>X</b> (p.4)										
Raymond Hopbaugh					<b>X</b> (p.11)						
Ben & Dean Jackson		<b>X</b>	<b>X</b>								
Jon & Jeff Jenkins	<b>X</b> (p.5)		<b>X</b> (p.8)								
Bob Jennings	<b>X</b> (p.5)										
Ron Kline		<b>X</b> (p.7)									
Dean Madigan					<b>X</b>						
Jim Madigan											
Carl McClelland											
Dale Neufeld					<b>X</b> (p.12)						
Bob Rathburn											
Elton Robinson											
Don Russell											
Steve Saxton					<b>X</b>						
Milt Sherman	<b>X</b> (p.6)										
Scott Shores											
Bob Taylor											
Gerald Twigg											
Jim VanBlarcom											
Ken Walter	<b>X</b> (p.6)										
Doug & Vicki Wilber											
Bob Wolpert											

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**BRADFORD COUNTY FARMER PRACTICES**

FARMERS' RESOURCE GUIDE				JANUARY 2001 - PAGE 29	
Manure Storage		Milk House Waste	Pesticide Handling Systems	Stream Bank Protection	Waste Field Application
Abell					
Allford					
Barrett	X				X
Beardslee			X (p.20)		
Bentley Creek				X (p.22)	
Sugar Creek				X (p.24)	
Carlson	X			X (p.22)	
Carter				X (p.23)	
Ferguson					X
George					
Good	X (p.14)			X	
Harris	X (p.19)	X (p.19)			X (p.25)
Hepp	X				
Hoppaugh				X	
Jackson				X (p.23)	
Jenkins	X				
Jennings	X (p.15)	X (p.19)			
Kline	X (p.15)				
D. Madigan					
J. Madigan	X (p.16)				
McClelland	X				
Neufeld				X	
Rathburn	X (p.16)				
Robinson	X	X			
Russell	X				X
Saxton	X				
Sherman	X				
Shores	X				
Taylor		X (p.18)			
Twigg				X (p.24)	
VanBlarcom	X		X		
Walter					
Wilber	X (p.14)				
Wolpert	X (p.17)				

## BRADFORD COUNTY FARMER LOCATOR MAP

