

**2010  
FALL**

# **PUBLICATIONS CATALOG**

## **MidWest Plan Service**

### **Newest Editions Available from MWPS**

#### **Private Water Systems Handbook, Fifth Edition**

**MWPS-14, \$32.00**, 144 pp, 8 1/2 x 11, illus., softcover, 2009

For anyone living in a rural area this handbook is a must. This book was written to help those people who depend on a private water system to develop and maintain a safe, adequate, and dependable water system to meet their needs, considering both domestic and farm water use. ISBN 0-9373-105-6

#### **Taking Care of yOur Ground Water: A Homeowner's Guide to Well and Septic Systems**

**MWPS, \$10.00**, DVD

Maintenance and protection of private water supply and septic systems is the responsibility of the homeowner. The material in this DVD uses interviews with professionals and animated graphics to clearly explain the components and operation of private water supply and septic systems. It graphically shows how private wells, and septic systems are interconnected. In addition it has extra video segments on treatment options and systems.

#### **Crop Rotation on Organic Farms: A Planning Manual**

**NRAES-177, \$24.00**, 154 pp, 8 1/2 x 11, illus., softcover, 2009

The manual features sample crop rotations, tips from expert farmers, tables, sidebars, worksheets and references. It also provides an in depth review of crop rotation and its many applications such as improving soil quality and health, and managing pests, diseases, and weeds. The manual will be a valuable resource for organic farmers, educators, students and consultants. ISBN 978-1-933395-21-0

#### **Farm Machinery & Labor Sharing Manual: Tools to Help You Evaluate Sharing Machinery and Labor as an Option in Your Farming Operation**

**NCFMEC-21, \$25.00**, 88pp. 8 1/2 x 11, color photographs, examples, spiral bound, 2009

The North Central Farm Management Extension Committee has put together a manual to help farmers lower their machinery and labor costs through cooperation. The *Farm Machinery & Labor Sharing Manual* discusses both operational and organizational issues. It includes sample sharing agreements and worksheets for allocating costs fairly. ISBN 0-89373-106-4

#### **Installation of Wastewater Treatment Systems**

**CIDWT-Installer, \$68.00**, 464 pp, 8 1/2 x 11, illus., spiral bound, 2009

This installer manual provides detailed explanations of the best standard practices for installation and startup of common treatment components. Includes learning objectives, checklists, watertightness testing, a math overview, and installer glossary. This manual was developed by the Consortium of Institutes for Decentralized Wastewater Treatment (CIDWT), with partial funding by the U.S. Environmental Protection Agency (EPA) and the Water Environmental Research Foundation (WERF).

#### **Managing Alternative Pollinators: A Handbook for Beekeepers, Growers, and Conservationists**

**NRAES-186, \$23.50**, 162 pp, 8 1/2 x 11, color photos, nest construction details, and more, softcover, 2010

**For Beekeepers:** Detailed information on each alternative pollinator's biology and susceptibility to disease, pests, and chemicals, as well as step-by-step instructions on how to rear and manage alternative pollinators.

**For Growers:** Guidance for understanding the business of pollination, matching pollinators to crops, and deciding how best to pollinate for successful agricultural production and pollinator protection.

**For Conservationists:** Easy-to-understand accounts of the honey bee's plight, the business of pollination, and what can be done to protect pollinators and our food systems. ISBN 978-1-933395-20-3



Headquartered at Iowa State University, MidWest Plan Service is an educational publishing consortium of 12 U.S. Universities and the USDA. Since 1932, MWPS has provided science-based, peer-reviewed, low-cost and free information and building plans to agricultural professionals, agribusiness persons, and homeowners worldwide.

## BUSINESS MANAGEMENT FOR FARMERS SERIES

### Developing a Longer Range Strategic Farm Business Plan: Part I

**NCR-610A, \$12.00**

74 pp., 8 1/2 x 11, illus., softcover, 1999

Covered are: Planning methods. Situation evaluation. Goal setting. Developing a business plan and a transition plan. Managing a financially stressed farm business.

### Managing the Overall Business: Part II

**NCR-610B, \$17.00**

110 pp., 8 1/2 x 11, illus., softcover, 1999

This manual, with worksheets, covers: Interpersonal skills. Contracts, property law, and other legal concerns. Financial planning. Financing of non-real estate business aspects. Tax planning and management. Insurance as a risk management tool. Farm business arrangements. Retirement and estate plan review.

### Managing Production and Marketing Systems: Part III

**NCR-610C, \$11.00**

64 pp., 8 1/2 x 11, illus., softcover, 2000

Described here are: Cost and production relationships. Budgeting tools and procedures. Crop enterprise budgets. Short-term and long-term decision making. Developing, implementing, and monitoring production and marketing plans. Contract development and evaluation. Worksheets conclude sections.

### Acquiring and Managing Resources for the Farm Business: Part IV

**NCR-610D, \$16.00**

100 pp., 8 1/2 x 11, illus., softcover, 2001

All aspects of renting farmland and facilities, analyzing and financing real estate purchases, managing machinery, planning and staffing personnel positions, and managing a workforce are covered here. Worksheets complete the book.

### Getting Established in Farming: Part V

**NCR-610E, \$16.00**

88 pp., 8 1/2 x 11, illus., softcover, 2002

*Getting Established in Farming* focuses on choosing farming as a career and deciding to farm alone or with others. Both crop-oriented and livestock-oriented operations are considered.

### Planning the Late-career, Retirement-mode Years: Part VI

**NCR-610F, \$14.00**

84 pp., 8 1/2 x 11, illus., softcover, 2003

Everything to be considered when planning for retirement from farming is discussed in this work. Worksheets, illustrations, and step-by-step instructions are featured.

## GENERAL

### Farm Machinery & Labor Sharing Manual:

Tools to Help You Evaluate Sharing Machinery and Labor as an Option in Your Farming Operation  
**NCFMEC-21, \$25.00**

See also Newest Publications Available from MWPS.

### Income Tax Management for Farmers

**NCR-2, \$8.00**

34 pp., 8 1/2 x 11, softcover, 2002

Tax management is fundamental to good farm management. This publication describes some of the major tax planning decisions farm managers face. It also includes a list of tax items often overlooked and a number of ideas for saving tax dollars. *Please note this is a guide to managing taxes, not to preparing your return.*

### Long-term Installment Land Contracts

**NCR-56, \$5.00**

16 pp., 8 1/2 x 11, softcover, 1997

The definition of long-term land contracts plus advantages and disadvantages for both buyer and seller constitute this bulletin.

### Managing Risk in Agriculture

**NCR-406, \$5.00**

24 pp., 8 1/2 x 11, softcover, 1998

How to make farming decisions in today's quickly changing economic climate is the subject of this booklet. Considered are goal setting, attitude, sources of risk, methods of information gathering, risk selection and assessment, and actions to mitigate risk.

### Managing Risks and Profits: Grains: Coping with Volatile World Markets

**MWPS-MRPG, \$27.00**

184 pp., 8 1/2 x 11, illus., softcover, 1999

Financial and legal considerations, steps of financial analysis, insurance, futures and options, and marketing strategy are explained in this guide to the grain market.

### Planning and Managing Your Farm Business Center

**NCFMEC-233, \$5.00**

16 pp., 8 1/2 x 11, softcover, 2003

How to create an inclusive, efficient business center for a commercial farm business is explained and shown in this guide.

### Planning the Financial/Organizational Structure of Farm and Agribusiness Firms:

What Are the Options?

**NCR-568, \$5.00**

19 pp., 8 1/2 x 11, softcover, 1998

This publication provides an overview of organizational and financing options available to farm and agribusiness firms, and explains circumstances under which the options are most useful.

### Purchasing and Leasing Farm Equipment

**NCR-615, \$5.00**

12 pp., 8 1/2 x 11, softcover, 2001

This guide describes purchase, rental, and lease agreements available for farm equipment. It covers types of plans and agreements, contract specifics,

financial and tax considerations, advantages of purchasing and leasing, and presents an example of ways to compare finance plans.

### The Farm Corporation

**NCR-11, \$8.00**

32 pp., 8 1/2 x 11, softcover, 2002

Types of farm corporations—sole proprietorship, C corporation, general/limited liability partnership, limited partnership, limited liability company, and S corporation—plus the advantages and disadvantages of each are explained here.

### Used Farm Equipment: Assessing Quality, Safety, and Economics

**NRAES-25, \$7.00**

36 pp., 8 1/2 x 11, illus., softcover, 1987

## RENTAL AGREEMENTS

### Crop-share or Crop-share/Cash Rental Arrangements for Your Farm

**NCR-105, \$4.00**

16 pp., 8 1/2 x 11, softcover, 2007

Addressed are: Advantages and disadvantages of crop-share arrangements. Establishing an arrangement. Developing a fair arrangement. The whole-farm approach. Establishing rents for other cropland, pasture, and buildings. Writing an agreement.

### Fixed and Flexible Cash Rental Arrangements for Your Farm

**NCR-75, \$5.00**

20 pp., 8 1/2 x 11, softcover, 2008

The purpose of this publication is to help tenants and landlords develop fair cash-rent arrangements and assist them in making sound decisions based on a fair evaluation of resources. A sample lease form is included.

### Irrigation Crop-share and Cash Rental Arrangements for Your Farm

**NCR-148, \$5.00**

20 pp., 8 1/2 x 11, softcover, 1997

### Pasture Rental Arrangements for Your Farm

**NCR-149, \$5.00**

20 pp., 8 1/2 x 11, softcover, 1997

### Rental Agreements for Farm Buildings and Livestock Facilities

**NCR-214, \$4.00**

2000, 12 pp., 8 1/2 x 11, softcover

## FREE LEASE FORMS

Download the following publications in pdf format. Go to [www.mwps.org](http://www.mwps.org) and click "Free Plans and Materials" (on the left of the homepage) under "Resources" click "Free Lease Forms".

- **Cash Farm Lease (with Flexible Provisions):** NCR-76
- **Crop-share or Crop-share/Cash Farm Lease:** NCR-77
- **Irrigation Crop-share or Crop-share/Cash Farm Lease:** NCR-106
- **Pasture Lease:** NCR-109
- **Farm Building or Livestock Facility Lease:** NCR-215
- **Farm Machinery Lease Form:** NCFMEC-23

## Construction

### HOOP BARN SERIES

Written by agricultural experts from Midwest land-grant universities, each of the six booklets in this series discuss hoop barns as a low-cost, efficient solution for raising animals. Illustrations, photographs, and tables clarify descriptions, offer examples, and provide quick reference to facts.

#### Hoop Barns for Grow-Finish Swine

**AED-41, \$6.00**

24 pp., 8 1/2 x 11, illus., self-cover, 2004

#### Hoop Barns for Gestating Swine

**AED-44, \$5.00**

20 pp., 8 1/2 x 11, illus., self-cover, 2004

#### Alternative systems for Farrowing in Cold Weather

**AED-47, \$5.00**

12 pp., 8 1/2 x 11, illus., self-cover, 2004

#### Hoop Barns for Beef Cattle

**AED-50, \$5.00**

16 pp., 8 1/2 x 11, illus., self-cover, 2004

#### Hoop Barns for Dairy Cattle

**AED-51, \$5.00**

16 pp., 8 1/2 x 11, illus., self-cover, 2004

#### Hoop Barns for Horses, Sheep, Rattles, and Multiple Utilization

**AED-52, \$5.00**

8 pp., 8 1/2 x 11, illus., self-cover, 2004

#### Designing Facilities for Pesticide and Fertilizer Containment, Revised Edition

**MWPS-37, \$19.00**

124 pp., 8 1/2 x 11, illus., tape bound, 1995

Regulations, site selection, design, storage, secondary containment, mixing and loading facilities and equipment, worker safety, concrete, facilities remodeling, emergency planning, and waste disposal are covered here.

#### Designs for Glued Trusses, Revised Fourth Ed.

**MWPS-9, \$14.00**

84 pp., 8 1/2 x 11, illus., softcover/3-hole punch, 1989

Criteria for selection, construction, and erection of glued trusses are found here. Designs for plywood-gusset wood trusses are featured. *Plans are to be used only as conceptual information.*

#### Farm and Home Concrete Handbook

**MWPS-35, \$5.00**

44 pp., 8 1/2 x 11, illus., softcover/3-hole punch, 1989

#### Farm Shop Plans Book, Revised Ed.

**MWPS-26, \$5.00**

32 pp., 8 1/2 x 11, illus., softcover, 1994

*Farm Shop Plans Book* includes floor plans, cross sections, and construction details for four shop sizes—24' x 32', 32' x 40', 40' x 48', 48' x 56'. Also covered are preplanning, layout, materials, equipment, utilities, construction details, furnishings, accident prevention, and the environment.

#### Structures and Environment Handbook

Eleventh Edition

**MWPS-1, \$65.00**

535 pp., 8 1/2 x 11, illus., tape bound, 1987

A true classic ... every aspect of constructing physically and environmentally sound agricultural buildings is clearly explained and shown here. This handbook is a great foundation for knowledge and is widely used in the classroom.

ISBN 0-89373-057-2

#### Using All-Weather Geotextile Lanes and Pads

**AED-45, \$5.00**

12 pp., 8 1/2 x 11, illus., self-cover, 1999

Durable, stable all-weather surfaces built with geotextile fabric are considered here for farm lanes, yards, shed floors, storage pads, and similar places.

#### Wiring Handbook for Rural Facilities,

Second Edition

**MWPS-28, \$20.00**

96pp., illus., softcover, 2006

Completely revised and updated to reflect 2005 ASABE Standards and the 2005 NEC (National Electric Code), it shows and explains materials and methods for assessing and installing electrical wiring in agricultural buildings and equipment.

Also covered: electrical design and component basics; branch circuits; service entrance; standby power; alarm systems; and lightning protection. Building examples are provided. Wiring from power supply to building service entrance is not addressed. Widely used in the classroom  
ISBN 0-89373-104-8

#### High-Tensile Wire Fencing

**NRAES-11, \$4.00**

24 pp., 8 1/2 x 11, illus., self-cover, 1987

*High Tensile Wire Fencing* explains the advantages of such fencing, which can withstand more than 1,000 lbs. of livestock pressure and low-temperature contraction without losing elasticity.

#### Lumber from Local Woodlots

**NRAES-27, \$8.00**

42 pp., 8 1/2 x 11, illus., softcover, 1988

Wood species and properties, sources of professional assistance and training, proper woodlot management, contracting with loggers and sawyers, good harvesting practices, sawing methods, and lumber drying and storage are discussed in this guide.

#### On-Farm Agrichemical Handling Facilities

**NRAES-78, \$7.00**

22 pp., 8 1/2 x 11, illus., softcover, 1995

Planning and building a pesticide storage facility are explained in this booklet.

#### Post-Frame Building Handbook: Materials,

Design Considerations, Construction Procedures

**NRAES-1, \$14.00**

84 pp., 8 1/2 x 11, illus., softcover, 1997

From livestock shelters to feed storages to warehouses, post-frame utility buildings, formerly called "pole barns," are versatile and economical structures. In a clear, easy-to-follow style, this book presents design considerations and construction methods for post-frame buildings. It will be a useful resource for a variety of construction projects.

## Farm Safety

#### Extinguishing Fires in Silos and Hay Mows

**NRAES-18, \$7.00,**

40 pp., 8 1/2 x 11, illus., softcover, 2000

*For firefighters.* This manual explains fire causes and extinguishing procedures.

#### Farm Rescue: Responding to Incidents and Emergencies in Agricultural Settings

**NRAES-10, \$12.00**

84 pp., 8 1/2 x 11, illus., softcover, 1999

*For emergency and rescue personnel.* This manual teaches rescue procedures for injuries from animals, equipment, structures, chemicals, fires, and spills.

#### Fire Control in Livestock Buildings:

Construction Methods, Fire Detection, Sprinkler Systems

**NRAES-39, \$5.00**

20 pp., 8 1/2 x 11, illus., softcover, 1995

Information to ensure that livestock buildings are constructed and equipped to minimize fire danger is presented in this illustrated guide.

#### First on the Scene

**NRAES-12, \$7.00**

48 pp., 8 1/2 x 11, illus., softcover, 1989

*For agriculture workers.* Preventing and reacting to accidents involving machinery, chemicals, storage facilities, and electricity are presented.

#### Stray Voltage and Dairy Farms

**NRAES-149, \$45.00**

408 pp., 8 1/2 x 11, illus., spiral binding, 2003

This conference proceedings discusses electricity fundamentals and the impact, sources, measurement, prevention, and mitigation of stray voltage on dairy farms.

## Forestry/Wildlife

#### Enhancing Wildlife Habitats:

A Practical Guide for Forest Landowners

**NRAES-64, \$30.00**

184 pp., 8 1/2 x 11, illus., softcover, 1993

This sourcebook offers specific guidelines for enhancing habitats of woodcock, ruffed grouse, white-tailed deer, wild turkey, and other animals. It covers forest wildlife ecology, habitats, and wetlands.

#### Forest Landowner's Guide to Evaluating and Choosing a Natural Resource-based Enterprise

**NRAES-151, \$20.00**

56 pp., 8 1/2 x 11, illus., spiral binding, 2005

Everyone selling timber or considering selling timber can benefit from this two-color guide.

#### A Guide to Logging Aesthetics: Practical Tips for Loggers, Foresters, and Landowners

**NRAES-60, \$7.00**

28 pp., 8 1/2 x 11, illus., softcover, 1993

How to harvest timber with minimal disruptive effects is addressed in this guide.

## Shelves, Houses, and Feeders for Birds and Mammals

**NCR-338, \$6.00**

46 pp., 8 1/2 x 11, illus., softcover, 1989

These 35 building plans can be used to conserve 15 species of yard birds, hawks, owls, wood ducks, squirrels, and bats.

## The Woods in Your Backyard: Learning to Create and Enhance Natural Areas Around Your Home

**NRAES-184, \$18.00**

138 pp., 8 1/2 x 11 4-color, spiral bound, 2006

This book will be an essential tool to help you shape and rebuild your backyard environment. Written specifically for people living on one to ten acres of land, this combination book/workbook explains how adopting various land-management techniques can result in a healthier outdoor environment.

## Fruits & Vegetables

### Facilities for Roadside Markets

**NRAES-52, \$8.00**

40 pp., 8 1/2 x 11, illus., softcover, 1992

### Managing Alternative Pollinators

**NRAES-186, \$23.50**

162 pp., 8 1/2 x 11, 4-color illus., softcover, 2010

See also Newest Editions Available from MWPS.

### Organic Vegetable Production

**NRAES-165, \$28.00**

162 pp., 8 1/2 x 11, illus., tape bound, 2004

This proceedings is for educators, researchers, and organic producers.

### Produce Handling for Direct Marketing

**NRAES-51, \$8.00**

26 pp., 8 1/2 x 11, illus., softcover, 1992

### Production of Vegetables, Strawberries, and Cut Flowers Using Plasticulture

**NRAES-133, \$24.00**

156 pp., 8 1/2 x 11, illus., softcover, 2004

Using this book, growers, educators, and gardeners learn to use plastic as a work-reducing, product-enhancing tool.

### Refrigeration and Controlled Atmosphere Storage for Horticultural Crops

**NRAES-22, \$8.00**

44 pages, 8 1/2 x 11, softcover, 1990

### Sustainable Vegetable Production from Start-up to Market

**NRAES-104, \$38.00**

280 pp., 8 1/2 x 11, illus., softcover, 1999

### Wine Grape Production Guide for Eastern North America

**NRAES-145, \$75.00**

336 pp., 8 1/2 x 11, color illus., variety descriptions, spiral binding, 2008

This guide is a comprehensive resource for novice and experienced growers, crop advisors, service

providers, educators, and students. Topics include site selection and preparation, trellising and pruning, disease and pest identification, nutrient management, irrigation, pesticide application, harvesting, vineyard cost and returns, and grape sales. Also includes key to insect and mite pests of grapes.

*"Overall, I would highly recommend this book for any commercial grape grower in the Upper Midwest."*

- Mike White, Viticulture Field Specialist, ISU Extension

## Grain/Forage/Silage

### Dry Grain Aeration Systems Design

**Handbook, Revised Edition**

**MWPS-29, \$25.00**

88 pp., 8 1/2 x 11, illus., softcover, 1999

Aeration system design is detailed here, with guidelines for evaluating selecting, sizing, and locating systems. ISBN 0-89373-093-9

### Grain Drying, Handling and Storage

**Handbook, Second Edition**

**MWPS-13, \$15.00**

88 pp., 8 1/2 x 11, illus., softcover, 1988

Instruction on constructing, maintaining, and operating optimum storage systems comprises this handbook. Included are formulas plus data on capacity, yields, distance, and machinery. Widely used in classroom. ISBN 0-89373-071-8

### Low-Temperature and Solar Grain

**Drying Handbook**

**MWPS-22, \$5.00**

86 pp., 8 1/2 x 11, illus., softcover/3-hole punch, 1980

### Managing and Designing Bunker and Trench Silos, Second Edition

**AED-43, \$5.00**

20 pp., 8 1/2 x 11, illus., self-cover, 2004

Fundamentals for selecting and managing "horizontal silos" are found here.

### Managing Dry Grain in Storage, Second Edition

**AED-20, \$8.00**

24 pp., 8 1/2 x 11, illus., self-cover, 2004

The bulletin focuses on cylindrical storage structures (round metal or concrete bins) but offers principles of grain storage management that apply to all types of storage, contained or open, in structures or on the ground. It emphasizes maintenance of grain at initial storage moisture and does not address intentional drying or rewetting of grain. Also covered is causes of grain storage problems problem prevention, identification, and solution; additional grain management tips; storage facility safety practices; and sources of additional information.

### Forage Moisture Determination

**NRAES-59, \$6.00**

28 pp., 8 1/2 x 11, illus., softcover, 1993

### Silage: Field to Feedbunk

**NRAES-99, \$30.00**

464 pp., 8 1/2 x 11, illus., self-cover, 1997

## Silage for Dairy Farms: Growing, Harvesting, Storing, and Feeding

**NRAES-181, \$42.00**

450 pp., 8 1/2 x 11, paperback, 2006

Managing silage for reduced environmental impact and improved profitability is the subject of these 2006 conference proceedings.

## Greenhouses

### Energy Conservation for Commercial Greenhouses

**NRAES-3, \$17.00**

92 pp., 8 1/2 x 11, illus., softcover, 2001

This two-color book explains greenhouse energy conservation materials and procedures, and helps managers make decisions best suited to their operations.

### Enhancing Profitability in Greenhouse Firms

**NRAES-164, \$18.00**

56 pp., 8 1/2 x 11, illus., 2005

This book teaches greenhouse managers, their business advisors, and educators how to gain a competitive edge by analyzing industry trends. Worksheets, financial equations, and sample analyses are featured.

### Establishing and Operating a Garden

**Center: Requirements and Costs**

**NRAES-161, \$15.00**

66 pp., 8 1/2 x 11, illus., 2002

Thinking of opening a garden center? The basic information to know and consider is found here.

### Greenhouse Engineering

**NRAES-33, \$30.00**

216 pp., 8 1/2 x 11, illus., softcover, 1994

### Greenhouses for Homeowners and Gardeners

**NRAES-137, \$30.00**

214 pp., 8 1/2 x 11, illus., softcover, 2000

Every aspect of designing, constructing, and maintaining a home greenhouse is depicted and described here.

### Greenhouse Systems: Automation, Culture, and Environment

**NRAES-72, \$30.00**

312 pp., 8 1/2 x 11, illus., softcover, 1994

## Home/Acreages

### Farmstead Planning Handbook:

Guidelines for Planning and Expanding Agricultural Facilities and Operations

**MWPS-2, \$20.00**

CD-ROM (PC or Macintosh), illus., 2005

This book on CD explains how to locate, plan, build, and expand a working farm—small or large.

**The House Handbook: Guidelines for Building or Remodeling Your Home**  
**MPWS-16, \$32.00**  
200 pp., 8 1/2 x 11, illus., softcover, 2006

This clearly written text discusses everything necessary to build or remodel a house that is affordable, attractive, convenient, efficient, healthy, and adaptable to changing needs throughout life. Widely used in classroom. ISBN 0-89373-101-3

**Living on Acreages: What You Need to Know**  
**MWPS-50, \$20.00**  
108 pp., 8 1/2 x 11, illus., softcover, 2006

If you're thinking of moving to an acreage or inhabit one now, *Living on Acreages* will be a valuable instruction manual and reference to everything from building and landscaping in the country to maintaining rural property. ISBN 0-89373-103-X

**Farming Alternatives: A Guide to Evaluation the Feasibility of New Farm-Based Enterprises,**  
**NRAES-32, 8.00**  
88 pp., 8 1/2 x 11, softcover, 1988

**Heating with Wood and Coal,**  
Revised Edition  
**NRAES-23, \$12.00**  
70 pp., 8 1/2 x 11, illus., tables, self-cover, 2004

The pros and cons of wood and coal as heat sources in fireplaces, stoves, furnaces, and boilers are considered in this book.

**Money Talk: A Financial Guide for Women**  
**NRAES-160, \$23.00**  
200 pp., 8 1/2 x 11, illus., softcover, revised 2009

*Money Talk* explains concepts and strategies relevant to assessing, planning, accumulating, saving, and spending. This book also serves as an excellent self-study manual as well as a textbook for individual counseling or group workshops and classes.

**The Pond Guidebook**  
**NRAES-178, \$20.00**  
76 pp., 8 1/2 x 11, illus., softcover, 2007

Includes insights and management tips for pond owners and those considering constructing a pond. Based on research and experience, the book addresses water chemistry, construction, safety, weed management, fish selection, nuisance wildlife, beach construction, leaking, and more. Oriented to the Great Lakes, Mid-Atlantic, and Northeastern United States.

## Livestock

### BEEF

AVAILABLE IN PRINT OR CD

**Beef Cattle Handbook**  
**MWPS-CD-1P, \$83.00,** Print Version  
632 pp., 8 1/2 x 11, illus., loose-leaf/3-hole punch, 1999

*Beef Cattle Handbook* contains articles and bulletins on reproduction; agribusiness, business, and production management; nutrition; quality

assurance; carcass and end products; health; entomology; facilities and equipment; environmental stewardship; pasture, range, and forage management; and breeding and genetics.

**MWPS-CD-1, \$25.00,** CD-ROM Version  
*Beef Cattle Handbook* CD version contains the same information as the print version. This searchable CD is in PDF format and runs on both PC and Mac® computers.

**Beef Housing and Equipment Handbook,**  
Fourth Edition  
**MWPS-6, \$20.00**  
136 pp., 8 1/2 x 11, illus., softcover, 1987

Essentials for efficient beef operations are discussed here. Detailed tables, figures, and plans aid understanding and serve as design sources.

**Corrals for Handling Beef Cattle**  
**CAN-723, \$21.00**  
92 pp., 8 1/2 x 11, illus., softcover, 1993

An Alberta (Canada) Agriculture publication, reviewed by industry experts. Cattle behavior and handling techniques are discussed, along with corral design, geometry, and components. More than 60 plans and tables show how to build corrals, gates, pens, fences, scales, alleys, chutes, and more.

**Modern Corral Design**  
**OKE-938, \$10.00**  
60 pp., 8 1/2 x 11, illus., softcover, 1995

Published by the Oklahoma Cooperative Extension Service, this well-illustrated book explains and shows—step by step—how to plan and build three safe, efficient cattle corrals adaptable to individual livestock operations. Options such as scales, headgates, loading chutes, a hospital area, a palpation cage, and a calf table are included.

### DAIRY

**Dairy Freestall: Housing and Equipment,**  
Seventh Edition  
**MWPS-7, \$20.00**  
136 pp., 8 1/2 x 11, illus., softcover, 2000

This book explains all aspects of designing, constructing, and maintaining freestall dairy facilities. Detailed building plans and tables of technical information abound. Bulleted summaries in subsequent chapters make reading and reference easy. Widely used in classroom.  
ISBN 0-89373-095-5

AVAILABLE IN PRINT OR CD

**Raising Dairy Replacements**  
**RDR-Book, \$30.00,** Print Version  
106 pp., 8 1/2 x 11, softcover, 2003

*Raising Dairy Replacements* print version is filled with tables, color photographs, charts, graphs, and detailed drawings. Markers in book guide the user to the companion CD.

"This book is the single, most valuable resource...in the dairy field. ...." —Sheryl Nehls-Plagemann, dairy herd management instructor, Lakeshore Technical College, Cleveland, WI.  
Widely used in classroom. ISBN 0-89373-097-1

**RDR-CD, \$15.00,** CD-ROM Version  
*Raising Dairy Replacements* CD contains a searchable pdf version of the book plus additional graphics, tables, and software that aid in calculating costs, growth rate within a pen, and management variables.

**Building Freestall Barns and Milking Centers: Methods and Materials**  
**NRAES-148, \$45.00**  
488 pp., 8 1/2 x 11, illus., softcover, 2003

Thirty-four papers provide practical information on planning, building, and using facilities.

**Dairy Calves and Heifers: Integrating Biology and Management**  
**NRAES-175, \$45.00**  
398 pp., 8 1/2 x 11, illus., softcover, 2005

Thirty-two papers provide practical information on managing nutrition and health to reduce sickness and age at first calving. Cost analysis of replacement programs and housing considerations are included.

**Dairy Housing and Equipment Systems: Managing and Planning for Profitability**  
**NRAES-129, \$40.00**  
456 pp., 8 1/2 x 11, illus., softcover, 2000

Proceedings include: Cow comfort; making financial and management decisions; new facilities planning; system management; environmental control; freestall design and management; and more.

**Dairy Reference Manual, Third Edition**  
**NRAES-63, \$20.00**  
294 pp., 8 1/2 x 11, illus., spiral binding, 1995

This manual is a definitive, quick reference regarding all aspects of dairying.

**Guideline for Dairy Odor Management,**  
**NRAES-146**  
34 pages, 8 1/2 x 11, 3-hole punch, softcover, 2001

Discusses odor perception, characteristics, and sources; odor management during manure handling and land application; and neighbor relations. Intended for dairy producers, their neighbors, educators, farm advisors, regulators, and public officials.

**Milking Systems and Parlors: Planning and Managing for Quality Milk and Profitability**  
**NRAES-131, \$30.00**  
356 pp., 8 1/2 x 11, illus., softcover, 2001

Twenty-six papers from a 2001 conference consider profitability and quality, efficiency, milking systems, testing and troubleshooting, improving performance, management, and best parlor features.

**Penn State Dairy Housing Plans: Freestall, Heifer, Dry Cow, Maternity, Second Edition**  
**NRAES-85, \$15.00**  
108 pp., 8 1/2 x 11, illus., softcover, 1997

This book offers twenty-nine plans that provide information that can help plan a more successful freestall barn, heifer barn, or dry cow and maternity housing facility.

**Penn State Housing Plans for Milking and Special-Needs Cows**  
**NRAES-200, \$23.00**

100 pages, spiral binding, 8 1/2 x 11, softcover, 2006

This book emphasizes greater cow comfort. Included are idea plans for freestall dairy cow shelters; for housing special-needs cows; and for showing building component details.

**HORSE**

**Horse Facilities Handbook**

**MWPS-60, \$43.00**

240 pp., 8 1/2 x 11, illus., softcover, 2005

Filled with the latest facts about building facilities for all phases of equine breeding, care, and control. An easy-to-use format, with a comprehensive bibliography and index. Both color and black-and-black photographs. Widely used in classroom. ISBN 0-89373-098-X

**SHEEP**

**Sheep Housing and Equipment Handbook, Fourth Edition**

**MWPS-3, \$12.00**

95pp., illus., 3-hole punch, softcover, 1994

This informative handbook covers planning considerations; barn types, placement, and layout; manure management; feed storage and handling; treatment and handling facilities; equipment for raising orphan lambs; and needed utilities and construction materials. ISBN 0-89373-090-4

**SWINE**

**Swine Farrowing Handbook: Housing and Equipment**

**MWPS-40, \$10.00**

52 pp., 8 1/2 x 11, illus., softcover/3-hole punch, 1992

Planning, design factors, animal environment, manure management, utilities, construction, and remodeling are major topics of this work. Concepts from nine MWPS farrowing building plans plus space use guidelines, layout alternatives, and construction techniques are featured. ISBN 0-89373-084-X

**Swine Nursery Facilities Handbook**

**MWPS-41, \$13.00**

72 pp., 8 1/2 x 11, illus., softcover/3-hole punch, 1997

Housing and management options, building layout and equipment, manure handling systems, environmental control systems, utilities, and safety all are covered here. ISBN 0-89373-094-7

**Swine Breeding and Gestation Facilities Handbook**

**MWPS-43, \$17.00**

72 pp., 8 1/2 x 11, illus., softcover/3-hole punch, 2001

Producers and builders can learn everything needed to plan, construct, and manage a swine breeding and gestation facility. ISBN 0-89373-078-5

**Swine Wean-to-Finish Buildings**

**AED-46, \$6.00**

24 pp., 8 1/2 x 11, illus., self-cover, 2000

This publication explores wean-to-finish buildings for managing nursery, grower, and finishing phases of pork production.

**Manure Management**

**MANURE MANAGEMENT SERIES**

**Manure Characteristics: Section 1**

Second Edition

**MWPS-18-S1, \$9.00**

24 pp., 8 1/2 x 11, illus., self-cover, 2004

This bulletin explains how to handle manure in liquid, slurry, semisolid, and solid states; and how to sample, test, and identify content relevant to disposal or land application. Includes instructions for making a manure sampler, examples of problem solving, and a worksheet for calculating excreted nutrients based on feed rations.

**Manure Storages: Section 2**

**MWPS-18-S2, \$27.00**

188 pp., 8 1/2 x 11, illus., softcover, 2001

This book offers principles of good stewardship and good management plus sound design and construction practices. ISBN 0-89373-080-7

**Outdoor Air Quality: Section 3**

**MWPS-18-S3, \$16.00**

96 pp., 8 1/2 x 11, illus., softcover, 2002

This book clearly explains causes and management of manure odor. ISBN 0-89373-096-3

**CNMP Core Curriculum**

**CNMP-CD-ROM, \$25.00**

Two CD-ROM Set 2007

The set contains: the curriculum, lesson plans, scripted- editable presentations, a workbook containing in-class exercises, an example CNMP, and a list of resource materials.

**Rectangular Concrete Manure Storages**

**MWPS-36, \$45.00**

88pp., 8 1/2 x 11, illus., 2005

Designs are based on the conservative simple beam design approach.

**Composting for Municipalities: Planning and Design Considerations**

**NRAES-94, \$20.00**

136 pages, 8 1/2 x 11, illus., softcover, 1988

**Dairy Manure Management: Treatment,**

**Handling, and Community Relations**

**NRAES-176, \$42.00**

340 pp., 8 1/2 x 11, softcover, 2005

Proceedings from a 2005 conference provide an overview of manure management challenges as well as strategies currently used.

**Dairy Manure Systems: Equipment and Technology**

**NRAES-143, \$30.00**

432 pp., 8 1/2 x 11, illus., softcover, 2001

Proceedings from a 2001 conference promoting a systems approach to planning manure systems.

**Earthen Manure Storage**

**Design Considerations**

**NRAES-109, \$18.00**

100 pp., 8 1/2 x 11, illus., softcover, 1999

**Fertilizer and Manure Application Equipment**

**NRAES-57, \$6.00**

24 pp., 8 1/2 x 11, illus., softcover, 1994

**Field Guide to On-Farm Composting**

**NRAES- 114, \$14.00**

118 pp., 4 1/2 x 11, illus., spiral bound, 1999

This handy field guide is for agricultural producers and others who have an interest in composting.

**Guideline for Milking Center Wastewater**

**NRAES-115, \$8.00**

34 pp., 8 1/2 x 11, illus., softcover/3-hole punch, 1998

**Liquid Manure Application Systems Design Manual**

**NRAES-89, \$30.00**

168 pp., 8 1/2 x 11, illus., softcover, 1998

This manual guides users through establishing an economically efficient and environmentally safe liquid manure land application system.

**On-Farm Composting Handbook**

**NRAES-54, \$25.00**

186 pp., 8 1/2 x 11, illus., softcover, 1992

**Poultry Waste Management Handbook**

**NRAES-132, \$16.00**

72 pp., 8 1/2 x 11, illus., softcover, 1999

Manure production and characteristics, environmental regulations and hazards, alternative uses for manure, and much more are thoroughly discussed here.

**Soil/Air/Water**

**Private Water Systems Handbook, Fifth Edition**  
**MWPS-14, \$32.00**

144 pp, 8 1/2 x 11, illus., tables, softcover, 2009

See also Newest Editions Available from MWPS.

**AVAILABLE IN PRINT OR CD**

**Conservation Tillage Systems and Management: Crop Residue Management with No-Till, Ridge-Till, and Mulch-Till,**

**Second Edition**

**MWPS-45-Book, \$39.00, Print Version**

270 pp., 8 1/2 x 11, illus., softcover, 2000

Easy to read and handy for reference, this book explains the major benefits of conservation tillage. Appendixes describe tillage implements and offer rainfall and temperature data maps.

**MWPS-45-CD, \$15.00, CD-ROM Version**

Great alone or to supplement the book...

The work of more than 100 experts, the CD-ROM of contains the entire 270-page book plus four additional publications, 14 PowerPoint® presentations, video clips, charts, and maps.

**Installation of Wastewater Treatment Systems**

**CIDWT-Installer \$68.00**

464 pp, 8 1/2 x 11, illus., spiral bound, 2009

See also Newest Editions Available from MWPS.

### Residential Onsite Wastewater Treatment

**Systems:** An Operation and Maintenance Service Provider Program, Second Edition

**CIDWT, \$55.00**

280 pp., 8 1/2 x 11, illus., spiral bound, 2008

This operation and maintenance manual features an up-to-date introduction to residential wastewater issues, complete descriptions of the operation and maintenance (O&M) service provider role and function, step-by-step instructions for implementing an O&M service program. The clearly written text is supplemented by checklists, worksheets, illustrations, data tables, and learning objectives.

### Mitigating Air Emissions from Animal Feeding Operations

**MWPS-AIR, \$20.00,**

306 pages, Book on CD, 2008

These proceedings were designed to be a resource to industry consultants and producers on what mitigation methods are available, as well as the applicability and cost associated with each mitigation option. PDF format.

### Taking Care of yOur Ground Water:

A homeowner's guide to well and septic systems

**MWPS-WQ, \$10.00**

DVD, 2009

See also Newest Editions Available from MWPS.

### Crop Rotation on Organic Farms: A Planning Manual

**NRAES-177, \$24.00**

154 pp, 8 1/2 x 11, illus., softcover, 2009

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### Pesticides and Groundwater: A Guide for the Pesticide User, Revised Edition

**NRAES-34, \$5.00**

26 pp., 8 1/2 x 11, illus., softcover, 1995

### Private Drinking Water Supplies: Quality, Testing, and Options for Problem Waters

**NRAES-47, \$8.00**

64 pp., 8 1/2 x 11, illus., softcover, 1991

### Sprinkler Irrigation Systems

**MWPS-30, \$39.00**

272 pp., 8 1/2 x 11, illus., softcover, 1999

This guide tells how to plan, design, and efficiently manage sprinkler irrigation systems.

### Waterborne Pathogens in Agricultural Watersheds

**NRAES-147, \$15.00**

68 pp., 8 1/2 x 11, illus., softcover, 2001

Disease-causing organisms from animal agriculture that contaminate water are explained in this book.

## Ventilation

### Agricultural Ventilation Fans:

Performance and Efficiencies

**IL-09, \$10.00**

32 pp., 8 1/2 x 11, softcover, 2009

Published every other year by the University of Illinois, *Agricultural Ventilation Fans* provides unbiased data on more than 800 commercially available single speed and variable speed ventilation fans. Included are selection criteria, an equipment manufacturer list and airflow and efficiency at common operat-

ing pressures are listed for each fan. Test results are grouped by fan size (manure pit, 8" to 54").

### Agricultural Ventilation Fans:

Performance and Efficiencies - Supplement

**IL-08-SUPP, \$4.00**

48 pp., 8 1/2 x 11, self-cover, 2008

Includes Poultry Light Trap Performance Tests! (This supplements the IL-09 book.) The supplement is published every other year by the University of Illinois.

### Heating, Cooling, and Tempering Air for Livestock Housing

**MWPS-34, \$9.00**

48 pp., 8 1/2 x 11, illus., softcover/3-hole punch, 1990

Tempering, heat exchangers, and insulation are some of the major topics covered in this manual. ISBN 0-89373-076-9

### Mechanical Ventilating Systems for Livestock Housing

**MWPS-32, \$12.00**

72 pp., 8 1/2 x 11, illus., tape binding, 1990

Planning, constructing, and managing mechanical ventilating systems are described here, accompanied by illustrations, examples, and troubleshooting information. ISBN 0-89373-075-0

### Natural Ventilating Systems for Livestock Housing

**MWPS-33, \$7.00**

32 pp., 8 1/2 x 11, illus., softcover/3-hole punch, 1989

Instructions for achieving maximum natural ventilation, temperature, and moisture balance are provided here, with examples and a troubleshooting guide. ISBN 0-89373-074-2

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