

# Publications

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October 1998

## Field staff perspective provides great ideas

### Subject index back by popular demand

Wow! Ask field faculty and staff what Extension Publications can do to improve its service, and they have good ideas. One idea, that we've responded to here, is the new subject index for this catalog.

In August 1997, all Missouri Outreach and Extension field faculty and staff were asked for their input on how we could better meet their, and their clients', publications needs. One reoccurring suggestion was to bring back the subject index for the catalog. Several respondents told us they were still using a 1993 catalog because it had a subject matter index.

Credit for the indexing goes to Carolyn Heilman of the MU Extension and Agricultural Information staff. She'd indexed the earlier catalogs and had kept

her files. However, with the dynamics of our constantly changing publication offerings, the updating of the index was still a huge job.

Of the 226 respondents to the question, "What one change would most improve Extension Publications service to you and your clientele?" 117 wrote, "keep more publications up-to-date and in print."

That was music to our ears, we fully intend to keep improving quality and availability of research-based information in printed form. As for Carolyn, there was a twinkle in her eye when she learned that her indexing work of the early 90s was appreciated and hadn't been surpassed by electronic searches on CDs or Web pages.

## Engineers offer quality plans and publications

Agricultural engineering plans and publications published by the Midwest Plan Service and the Northeast Regional Agricultural Engineering Service are now available through Extension Publications. The services provide both plans and publications written and reviewed by university extension and research agricultural engineers from these regions. Topics include farm buildings, greenhouses, homes, yard structures, waste management systems,

wildlife habitats and more.

All MWPS and NRAES resources listed in this catalog are reviewed and recommended for use in Missouri by MU agricultural engineering specialists. Specialists help identify the issues, concepts and technologies that are covered by these resources.

For a listing of these plans see pages 16 and 18. Also, abstracts of both publications and plans can be found on the XPLOR Web site.

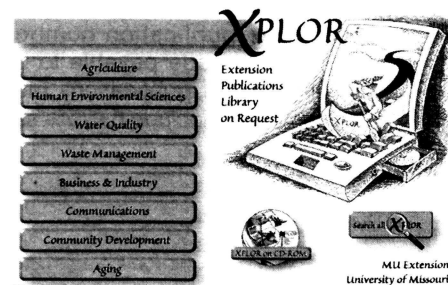
## What is that brown spider hiding under your bed?

What are those pests, and what should you do about them? Published in 1997 as a reference for commercial pesticide applicators, *General Structural Pest Control* is a densely



Brown recluse spider

illustrated 168-page manual that contains a wealth of practical information on household pests, including spiders, ants, cockroaches, wasps and ticks as well as mice, pigeons and other vertebrates. See M95 on page 14.



<http://muextension.missouri.edu/xplor/>

## XPLOR serves thousands

The XPLOR Web site and CD provide access to University information for those with computers. More than 1,000 publications per day are requested from the Web site, and 440 of the May 1998 CDs were sold in the first three months after its release.

XPLOR on both the Web and CD offer full-text searching. Nearly 1,100 full-text publications and 350 abstracts are on XPLOR. Abstracts provide greater detail about publications than is possible in this catalog, and on the Web they are linked to an on-line ordering form. The XPLOR Web site changes daily as new publications are published and existing ones revised. See CD1 on page 5 for XPLOR CD hardware requirements.

## Build a better bird house

*Shelves, Houses and Feeders for Birds and Mammals* is a 48-page publication with simple diagrams and instructions on how to build a variety of creature-friendly structures, including the official bat house from Bat Conservation International. It includes information on attracting birds and small mammals and tells how to use recyclable materials. It's one of the many North Central Regional publications listed on pages 17 and 18. It's NCR338.

# Using This Catalog

Publications in this catalog are available at University Extension centers throughout Missouri, or directly from:

**MU Extension Publications**  
**2800 Maguire Blvd.**  
**Columbia, MO 65211**  
**Toll free ordering: 1-800-292-0969**

Use the order form on page 3, or send a letter clearly stating the publication number and title. Enclose your check made payable to University of Missouri for the cost of publications plus handling. Missouri residents must include 6.975% sales tax.

Total Publication/s Charge	Handling Fee
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**Number Title (price)****BUSINESS & INDUSTRY**

- AED See in *Midwest Plan Services*, page 16
- BI1 Introduction to Protection of Ideas (XPLOr only) •
- BI2 Introduction to Trade Secrets (.25) •
- BI3 Introduction to Copyrights (XPLOr only) •
- BI4 Introduction to Trademarks and Other Marks (.25) •
- BI5 Introduction to Commercializing Ideas (.25) •
- BI7 Safety Management for Small-Business Owners (.25) •
- BI8 Efficiency Audit Guidelines (XPLOr only) •
- BI9 Introduction to Patents (.25) •
- BI10 Working With Your Banker (XPLOr only) •
- BI11 Business Plan (XPLOr only) •
- BI12 Managing Your Time (XPLOr only) •
- BI13 Break-even Analysis for Management Decision-Making (.25) •
- BI14 Finding Satisfying Employment (.50) •
- BI15 Marketing Plan (XPLOr only) •
- BI16 Setting an Organization's Direction and Performing the Entrepreneurial Function (XPLOr only) •
- BI17 Make or Buy Analysis (.25) •
- BI18 Systematic Plant Layout (1.00) •
- CAN See in *Midwest Plans Services*, page 16

**COMPLETE GUIDE BOOKS**

- CB1 Agriculture Guide Book (Includes all Agricultural Guides, G302 through G9940) (75.00)
- CB2 Grounds for Gardening Guide Book (Includes all Horticultural Guides, G6001 through G6985, plus related pest guides) (20.00)
- CB9 Balancing Work and Family, Complete (Includes MP668 through MP673) (3.00)
- CB10 MU Beef Cow/Calf Series (Includes M147 through M154) (12.50)
- CB11 Challenges and Choices folder and guides (Includes GH6651 through GH6657) (4.75)
- CB12 Balancing Act (nutrition curriculum for teenagers) (75.00)

**CD-ROMs**

- CD1 XPLOr, Extension Publications Library on Request (49.00)

The XPLOr CD-ROM contains the full text of all publications marked with a "•." In addition to these full-text publications, XPLOr provides abstracts of most other MU Extension publications, which provide more detail than is possible in this catalog.

XPLOr uses Adobe Acrobat® Reader + Search to display and navigate through the collection of publications and abstracts, which are stored in Portable Document Format (PDF) files. This software is included on the CD-ROM. See *feature page 1*.

**Minimum hardware requirements for XPLOr****IBM-compatible**

- Machine with 80386 or better processor
- 2X or faster CD-ROM drive
- Microsoft Windows 3.1 or later with 8 MB of RAM and 5 MB free space on hard drive; or
- Microsoft Windows 95 or NT with 8 MB of RAM (16 MB RAM for Windows NT) and 10 MB free space on hard drive

**Macintosh**

- Machine with 68020 or better processor, or Power Macintosh
- 2X or faster CD-ROM drive
- System 7.0 or greater with 3.5 MB of RAM (5 MB for Power Macintosh) available to Acrobat Reader (8 MB recommended)
- At least 2.5 MB free space on hard drive

**Number Title (price)****COMMUNICATIONS**

- CM108 Speeding Adoption of New Technology in Rural America (.75) •
- CM109 Developing Effective Communications (.75) •
- CM150 Listening: Our Most Used Communications Skill (.25) •
- CM201 Clear Writing (.25) •
- CM304 Publicizing the Event (XPLOr only) •
- CM350 Writing Features (.50) •
- CM360 Writing Columns (XPLOr only) •
- CM440 Designing Your Newsletter (.75) •
- CM450 How to Do a Newsletter That Gets Read (.75) •
- CM460 Newsletter Score Sheet (.25) •
- CM925 Creating a Videotape for Instruction (.75) •
- CM1225 Videoconference — Site Facilitator's Guide (.75) •
- CM1305 Checklist for Planning a Successful Meeting (.25) •
- CM1306 How to Have a Successful Educational Meeting on a Public Issue (.25) •

**COMMUNITY DECISION MAKING**

- DM403 Developing Effective Study Committees (XPLOr only) •
- DM404 The Study Committee and the Community (XPLOr only) •
- DM460 A Plan for Small Group Discussion (.25) •
- DM461 Defusing Public Decision (.25) •
- DM462 The Elements of Economic Development (.25) •
- DM463 Decision-Making Techniques for Community Groups (.50) •
- DM464 Town Meetings That Work (2.00)
- DM490 Working With Resource People (.25) •
- DM491 Considering Professional Consultation (.50) •
- DM1041 Animal Control and Animal Shelters Policies and Selected Costs (.50)
- DM1301 What Are Our Community's Housing Needs? (XPLOr only) •
- DM1505 Rural Neighborhoods for Crime Prevention (.25) •
- DM1902 Planning a Rural Fire Protection Service (.50) •
- DM1905 Planning a Central Sewer System for Rural Areas (.50)
- DM1935 Litter Control in a Tourist Area: Methods and Costs (.50)
- DM1936 Solid Waste Disposal With Modular Incinerators (.50)
- DM1937 Solid Waste Collection of Mixed Waste and Recyclables (.50)
- DM1938 Solid Waste Handling With Transfer Stations (.25)
- DM1939 Solid Waste Disposal With Sanitary Landfills (.50)
- DM1955 Rural Water Districts Costs and Funding (.50) •
- DM2210 Remodeling and Restoring 19th Century Store Fronts: Cast Iron and Pressed Metal (.50)
- DM3005 Understanding Your Community's Economic Base (.50) •
- DM3006 Economic Base Multipliers and Community Growth (.50) •
- DM3035 Potential for Retail Trades in Rural Communities (.50) •
- DM3101 Missouri County Sales Tax Act (.50) •
- DM3102 Downtown Revitalization (XPLOr only) •
- DM5361 Preparing an Election Petition in Missouri (.50) •
- DM7005 The Planning Process and People (XPLOr only) •
- DM7101 What is Local Government Planning? (XPLOr only) •
- DM7110 Regional Planning in Missouri: The Legal Authorization (.25) •
- DM7612 Basic Procedures in Administration of Zoning Regulations: Making Applications (.50) •
- DM7613 Basic Procedures in Administration of Zoning Regulations: Appeals (.50) •
- DM7614 Basic Procedures in Administration of Zoning Regulations: Roles of Enforcement Officer and Board of Adjustment (.50) •

**EXTENSION CIRCULARS**

- EC705 Our Valuable Papers (1.00)
- EC708 Our Household Inventory (.25)
- EC914 Simple Home Plumbing Repairs (1.00)

**Number Title (price)**

- EC921 Alfalfa Analyst (1.50)  
 EC928 The March of Seasons Through Missouri (1.50)  
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 EC935 Getting Started in Farming (1.00)  
 EC936 Getting Started in Farming: Mostly on Your Own (1.00)  
 EC937 Getting Started in Farming: Part-Time or Small Farms (1.00)  
 EC938 Getting Started in Farming Via the Home Farm (1.00)  
 EC939 Getting Started in Farming: So You Have Inherited a Farm (1.00)  
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 EC942 Consumer Co-ops: Steps in Organizing a New Pre-Order Food Cooperative (.25) •  
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 EC945 Consumer Co-ops: Orienting New Members (.25) •  
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 EC947 Soil Productivity Indices and Soil Properties for Farm-Field Sites in Missouri (3.50)  
 EC948 Adult Day Care: Will It Work for Your Community? (1.00)  
 EC949 Pantry Mixes (2.00)  
 EC950 The Effects of Erosion Upon Soil Productivity in Missouri Farm-Fields (3.50)  
 EC951 Getting Into Dairying (free)  
 EC954 Consumer Co-ops: Incorporating Consumer Cooperatives in Missouri (.25) •  
 EC955 Soil Productivity Indices and Soil Properties of Some Major Soil Series of the Missouri Ozarks (3.50)  
 EC958 Water Conservation Checklist for the Home (.50)  
 EC959 Selected Fruit and Vegetable Planning Budgets (2.00)  
 EC960 Grain Storage Management: A Guide for Keeping Your Grain in Top Condition (1.50)  
 EC961 Why Development Projects Don't Work as Planned (2.50)

**ENGINEERING GUIDES**

- EG602 The Treatment of Industrial Wastes by Anaerobic Lagoons (.50)  
 EG900 Developing a Parking Area (.50)  
 EG5502 Capturing Solar Heat by Retrofitting Existing Homes (.75)  
 EG5521 Water and Vapor Control in Earth Contact Homes (.50)  
 EP See *Lincoln University Publications, page 24*

**EXTENSION VIDEOS**

- EV4 How to Do a Newsletter That Gets Read (125.00)  
 EV5 Family Challenges (30.00)  
 EV6 Integrated Pest Management: A Basic Concept for Better Gardening (15.00)  
 EV7 Your Newsletter: Make It a Winner (125.00)  
 EV8 Ranly on Writing (125.00)  
 EV9 Refrigerator Journalism: Making Your Writing More Useful (125.00)  
 EV10 Community-Based Programs: Effective Approaches for Youth and Families-at-Risk (35.00)  
 EV11 Weed Seedling Identification (9.50)

**FOLDERS**

- F131 What Is Community Development? (.50)  
 F227 Don't Bag It: How to Recycle Your Grass Clippings, Leaves and Branches (.25)

**Number Title (price)****FARM MANAGEMENT**

- FM6701 Missouri Farm Tax Record: Part 1 (4.00)  
 FM6702 Missouri Farm Tax Record: Part 2 (1.00)

**AGRICULTURAL GUIDES****Agricultural Economics****Farm Management**

- G302 1997 Custom Rates for Farm Services in Missouri (.75) •  
 G350 Conservation Tillage: Costs and Returns (out of print) •  
 G355 No-Tillage and Conservation Tillage: Economic Considerations (.75) •  
 G404 Farm Land Values (.25) •  
 G425 General Principles of Contract Law (out of print) •  
 G426 Farm Lease Agreement (.25) •  
 G427 1997 Cash Rental Rates in Missouri (.25) •  
 G428 Customary Farm Rental Agreements (out of print) •  
 G429 Leasing Farm Equipment (.50)  
 G430 Buy or Lease Dairy Cows (.50)  
 G451 Liability of Farm Employers (.50) •  
 G453 Farmers Liability for Their Animals (.50) •  
 G500 Your Rights Under Condemnation in Missouri (.50) •  
 G504 Marital Trusts: An Estate Planning Tool (.50) •  
 G505 Farmland Valuation for Estate Tax Purposes (out of print) •  
 G508 Delayed Payment of Federal Estate Taxes (.50) •  
 G511 Legal Aspects of Farm Partnerships (.75) •  
 G512 Farm Partnerships: Part III An Example (.50)  
 G520 Verbal Farm Rental Agreements Under Missouri Law (.50) •  
 G530 Rental Agreements for Irrigated Land (.75) •  
 G700 Managing Farm Labor (.25) •  
 G702 Managing Dairy Labor (XPLOR only) •  
 G740 Maintaining Woodland Tax Records (.75) •  
 G781 So You Want to Farm: What Does It Take? What Can You Make? (.25)

**Agricultural Laws and Policies**

- G810 Missouri Fencing and Boundary Laws (out of print) •  
 G820 Does the Family Farm Really Matter? (XPLOR only) •  
 G851 Stockmen's Liability Under the Missouri Nuisance Law (.50) •  
 G856 Worker Protection Standard for Agricultural Pesticides — Key Features (.25) •  
 G857 Worker Protection: Employer's Guide to Worker Protection Standard Compliance (.50) •  
 G858 Agricultural Owners, Family Labor and the Worker Protection Standard (out of print) •  
 G890 Missouri Litter Laws (.25) •  
 G901 Basics of Missouri Agricultural Cooperatives (.50) •  
 G902 Member Control of Cooperatives: What It Means and How It Is Exercised (.50) •  
 G903 How Agricultural Cooperatives Are Taxed (.75) •  
 G904 Securing Equity Capital for Farmer Cooperatives (.25)

**Agricultural Engineering****Farm Structures**

- G1004 Buying a Packaged Farm Building (.50) •  
 G1005 Selecting and Working With a Farm Building Contractor (.25) •  
 G1020 Lightning Protection for Missouri Farms and Homes (out of print) •  
 G1107 Ventilation for Warm Confinement Livestock Buildings (.50) •

**Livestock Equipment**

- G1155 Confined Feeding Facilities — Site Selection and Management (.75) •  
 G1157 Lagoon Pumping and Irrigating Equipment (.75) •

**Number Title (price)**

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 G1190 Constructing Electric Fences for Cattle (.25) •  
 G1191 Selecting Wire Fencing Materials (.25) •  
 G1192 Constructing Wire Fences (.50) •  
 G1195 Walk-Through Trap to Control Horn Flies on Cattle (.50) •

**Farm Machinery and Equipment**

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 G1235 Tractor Tire and Ballast Management (.50) •  
 G1236 Farming With One Tractor (.50) •  
 G1250 Large Round Balers (.75)  
 G1270 Calibrating Field Sprayers (.50) •  
 G1272 Sprayer Calibration: Spray Mix Calculations (.25)  
 G1273 Calibrating Granular Pesticide Applicators (.25) •  
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 G1408 Electric Heat Cables for Farm and Home Use (.50) •  
 G1409 Is Your Wiring System Safe and Energy Efficient? (out of print) •

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- G1500 Choosing Terrace Systems (.25) •  
 G1501 Operating and Maintaining Underground Outlet Terrace Systems (.25) •  
 G1503 Operating and Maintaining Grassed Outlet Terrace Systems (.25) •  
 G1504 Maintaining Grassed Waterways (.25) •  
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 G1506 Design Criteria for Diversions (.50)  
 G1507 Design Criteria for Cross-Slope Channels (.25)  
 G1509 Types of Stabilization Structures (.50) •  
 G1510 Design Criteria for Canopy and Hood Inlet Spillways (.25) •  
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 G1518 Estimating Peak Rates of Runoff From Small Watersheds (.50) •  
 G1520 Discharge Capacity Tables for Canopy, Hood, Morning Glory and Drop Inlet Spillways (.25)  
 G1521 Volume of Earth in Embankments (.50)  
 G1528 Design Criteria for Debris Basins (.25) •  
 G1530 Operation of a Bottom Withdrawal (Lake Cleaning) Spillway (.50) •  
 G1531 Design Criteria for Bottom-Withdrawal (Lake-Cleaning) Spillway (1.00) •  
 G1548 Maintaining Small Dams (.50) •  
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 G1562 Estimating Soil Erosion for Conservation Planning (.75)  
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 G1630 Soil Compaction: The Silent Thief (.50) •  
 G1641 Land Grading for Irrigation: Design and Construction (.25) •  
 G1650 Conservation Tillage and Residue Management to Reduce Soil Erosion (.75) •  
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**Number Title (price)**

- G1652 Ridge-Till Tips (.50) •  
 G1658 Tractor Power for Irrigation Pumping Units (.25)  
 G1681 Measuring Irrigation Water in a Ditch, Stream or Reservoir (.50) •  
 G1695 Electrical Safety for Center Pivot Irrigation Systems (.25) •

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- G1700 Concrete Basement Construction (.50) •  
 G1702 Agreement Between Home Owner and Builder (.50) •  
 G1706 Cool Your Home With a Window or Attic Fan (.25) •  
 G1710 Dehumidifiers (.25) •  
 G1721 Insulation for Your Home (.50) •  
 G1730 Wood Stoves and Their Installation (out of print) •  
 G1731 Wood Stove Maintenance and Operation (.50) •  
 G1732 Chimneys for Wood Stoves (.50) •  
 G1733 Catalytic Combustors for Wood Burning Stoves and Furnaces (.25) •  
 G1734 Wood Burning Inserts for Fireplaces (.50) •  
 G1735 Cleaning Stovepipes and Chimneys (.25) •  
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 G1799 Solar-Heated New Technology House (.50) •  
 G1800 Sources for Farm and Home Water Supply (.25) •  
 G1801 How to Size a Farm and Home Water System (.25) •  
 G1805 A System for Pond Water Purification (.50) •  
 G1830 Tip Tank for Flushing Dairy Free-stall Alleys (.25) •

**Other: Water Systems, Safety, Energy**

- G1880 Gases and Odors From Swine Wastes (.25) •  
 G1881 Generating Methane Gas From Manure (.50) •  
 G1895 Collecting and Preserving Waste and Wastewater Samples for Analysis (.25) •  
 G1905 Is Your Family Prepared for an Earthquake? (.50) •  
 G1907 Residential Fire Detection (out of print) •  
 G1908 Fires in Agricultural Chemicals (out of print) •  
 G1910 Improving Fire Resistance of Farm Buildings (out of print) •  
 G1912 Fish and Agricultural Chemicals: Safeguarding Your Pond (out of print) •  
 G1915 First Aid for Pesticide Poisoning (.75) •  
 G1916 Pesticide Application Safety (.50) •  
 G1917 Personal Protective Equipment for Working With Pesticides (out of print) •  
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 G1932 Portable Ladder Safety (.25) •  
 G1933 Chipper-Shredders (.25) •  
 G1934 How to Prevent Electrical Accidents (.25) •  
 G1935 How to Protect Yourself From Respiratory Hazards (.50) •  
 G1936 All-Terrain Vehicles (.50) •  
 G1950 Responding to Farm Accidents (.50) •  
 G1955 Large Round Bales: Management (.25)  
 G1957 Large Round Bales: Safety (out of print) •  
 G1958 Felling, Bucking and Limbing Trees (.50) •  
 G1959 Basic Chain Saw Safety and Use (.75) •  
 G1960 Safe Tractor Operation (.50) •  
 G1961 Agriculture and the Occupational Safety and Health Act (.50) •  
 G1962 Noise: The Invisible Hazard (.50) •  
 G1965 Agricultural Hand Signals (.25) •  
 G1966 Skin Cancer: Don't Let the Sun Spot You (.25) •  
 G1967 Safety: Producing and Using Ethanol (.50) •  
 G1968 Radon: An Indoor Health Hazard? (.50) •  
 G1969 Safe Storage and Handling of Grain (.50) •  
 G1971 Active Solar Collectors for Farm Buildings (.50) •  
 G1972 Saving Energy With Passive Systems (.50) •  
 G1973 Model Solar System No. 1: The Leslie Prier Farm (.25) •



**Number Title (price)**

- G1974 Model Solar System No. 2: The Leo Himmelberg Farm (.50) •  
 G1975 Sizing Solar Systems for Agriculture (.75)  
 G1981 Wind Energy in Missouri (.50) •  
 G1990 Biodiesel Fuels (.25) •  
 G1999 Unvented Portable Kerosene Heaters — Safety Considerations (.50) •  
 G2001 Real-Time Ultrasound: Possible Uses in Genetic Prediction (.50) •  
 G2005 Value of Beef Performance Records (.75) •

**Animal Sciences****Beef Breeding**

- G2006 Increase Your Calf Crop by Good Management, Pregnancy Testing, and Breeding Soundness Examination of Bulls (out of print) •  
 G2007 Assisting the Beef Cow at Calving Time (.50) •  
 G2015 Reproductive Anatomy and Physiology of the Cow (.50) •  
 G2016 Reproductive Anatomy and Physiology of the Bull (.50) •  
 G2017 Pelvic Measurements and Calving Difficulty (.50) •  
 G2030 Beef Production Glossary: BIF Fact Sheet (XPLOR only) •  
 G2032 Understanding and Using Sire Summaries: BIF Fact Sheet (.50) •  
 G2033 Using Performance Records in Commercial Beef Herds (.50)  
 G2034 Using Performance Data in Judging Classes: BIF Fact Sheet (out of print) •  
 G2035 Calving Difficulty in Beef Cattle: BIF Fact Sheet (.75) •  
 G2036 Culling the Commercial Cow Herd: BIF Fact Sheet (.50) •  
 G2037 The System Concept of Beef Production: BIF Fact Sheet (.50) •  
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 MP722 Reaching Your Goals (.25) •

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- MP723 Renting to Own (.25) •  
 MP724 Smart Car Buying (.25) •  
 MP725 Your Time and Your Life (.25) •  
 MP726 Warranties (.25) •

**MIDWEST PLAN SERVICES****Publications**

- AED17 Three-Inch, 150 Gallon Siphon-Flush Tank (2.00)  
 AED20 Managing Dry Grain in Storage (2.00)  
 AED30 Preservative Treated Wood for Farm and Home (2.00)  
 AED40 Greenhouse Barns for Dairy Housing (4.00)  
 AED41 Hoop Structures for Swine Housing (4.00)  
 AED42 Sprinkling Oil to Remove Dust, Odor and Gasses in Swine Buildings (3.00)  
 AED43 Managing and Designing Bunker and Trench Silos (4.00)  
 CAN723 Corrals for Handling Beef Cattle (10.00) *See abstract page 47*  
 MWPS3 Sheep Housing and Equipment Handbook (10.00)  
 MWPS6 Beef Housing and Equipment Handbook (7.00) *See abstract page 23*  
 MWPS7 Dairy Freestall Housing and Equipment (22.00)  
 MWPS8 Swine Housing and Equipment Handbook (8.00)  
 MWPS9 Designs for Glued Trusses (7.00)  
 MWPS13 Grain Drying, Handling, and Storage (7.00)  
 MWPS14 Private Water Systems (7.00)  
 MWPS15 Horse Housing and Equipment Handbook (7.00)  
 MWPS16 House Planning Handbook (7.00) *See abstract page 47*  
 MWPS18 Livestock Waste Facilities (8.00)  
 MWPS21 Home and Yard Improvements (9.00) *See abstract page 47*  
 MWPS22 Low Temperature and Solar Grain Drying (6.00)  
 MWPS23 Solar Livestock Housing (7.00)  
 MWPS24 Onsite Domestic Sewage Disposal (6.00)  
 MWPS25 Research Results in Manure Digestion, Runoff, Refeeding, Odors (5.00)  
 MWPS26 Farm Shop Plans (10.00)  
 MWPS28 Farm Buildings Wiring (10.00)  
 MWPS29 Dry Grain Aeration Systems Design Handbook (20.00)  
 MWPS32 Mechanical Ventilating Systems (6.00)  
 MWPS33 Natural Ventilating Systems (5.00)  
 MWPS34 Heating, Cooling, and Tempering (6.00)  
 MWPS35 Farm and Home Concrete (6.00) *See abstract page 47*  
 MWPS36 Concrete Manure Storages (20.00)  
 MWPS37 Designing Facilities for Pesticide and Fertilizer Containment (15.00)  
 MWPS40 Swine Farrowing (7.00)  
 MWPS41 Swine Nursery Facilities Handbook (15.00)  
 MWPS45 Conservation Tillage Systems (15.00)  
 MX *See Miscellaneous Publications from other programs, page 17*  
 OKE938 Modern Corral Design (5.00) *See abstract page 47*  
 TR9 Circular Concrete Manure Tanks (10.00)

**Building Plans**

- OKE *See in Midwest Plan Services, Publications, above*  
 P72008 Braced Rafters (3.00)  
 P72050 42' Wide Pole Utility Building (3.00)  
 P72440 48' Confined Beef Barn (4.00)  
 P72442 Confined Beef, 34' Shed Roof (4.00)  
 P72601 Swine Gestation Building, 33' x 92' (4.00)  
 P72602 Swine Breeding Building, 33' x 60' (4.00)  
 P72603 Swine Growing-Finishing Building (5.00)  
 P72604 Raised-Deck Swine Nurseries (4.00)  
 P72684 12-Litter Sow-Pig Nursery (3.00)

**Number Title (price)**

P72685	20-Litter Sow-Pig Nursery (4.00)
P72686	20-Litter Nursery (4.00)
P72687	Swine Finishing Unit (3.00)
P72688	Swine Finishing House (4.00)
P72689	MOF Swine Finishing Building (4.00)
P72690	Swine Finishing House, Off-Center Alley (4.00)
P72691	Swine Finishing House, Full-Slotted Floor (3.00)
P72692	Swine Gestation Unit, Open Shed With Lot (3.00)
P72693	Swine Gestation Building, MOF (5.00)
P72694	Swine Gestation Building, 2 Rows of Stalls (4.00)
P72695	Swine Breeding Building, 24' x 60' (4.00)
P72696	Swine Gestation Building, Group Pens (4.00)
P72697	Swine Gestation Building, 4 Rows of Stalls (4.00)
P73110	24' Wide Hay Barn (4.00)
P73111	36' Wide Hay Barn (4.00)
P73112	48' Wide Hay Barn (4.00)
P73113	32' and 48' Wide Hay Barns (4.00)
P73220	48' Pole Grain Storage (3.00)
P73271	Single Pole Corn Crib (3.00)
P73272	Single Frame Corn Crib (3.00)
P73280	Double Pole Corn Crib (3.00)
P73281	Double Corn Crib, 4' Alley (3.00)
P73282	Double Corn Crib, 11' Alley (3.00)
P73283	Double Corn Crib, Overhead Bin (3.00)
P73292	Grain-Feed Handling Center, Equal Shed (5.00)
P73293	Grain-Feed Handling Center 1-way Shed (5.00)
P73294	Grain-Feed Handling Center, (5.00)
P74001	Insulated Pump House (3.00)
P74143	40' x 104' Machine Shed (4.00)
P74146	48' x 96' Machine Shed (4.00)
P74147	60' x 96' Machine Shed (4.00)
P74148	30' x 72' Machine Shed (4.00)
P74149	56' x 88' Machine Shed (4.00)
P74303	Liquid Manure Tanks (3.00)
P74401	Portable Fertilizer Storage (3.00)
P74402	Bulk Fertilizer Storage, 40' x 48' Post Frame (3.00)
P74403	Bulk Fertilizer Storage, 40' x 48' Stud Frame (3.00)

**MISCELLANEOUS PUBLICATIONS****FROM OTHER PROGRAMS**

MWPS	See <i>Midwest Plan Services page 17</i>
MX70	Centennial Report 1870-1970 of the College of Agriculture: Paper Back (3.50)
MX74	Improving Alfalfa Forage Quality: How to Detect and Manage the Potato Leafhopper Problem (.25)
MX75	Alfalfa — The High Quality Hay for Horses (.50)
MX100	Energy From Missouri Farms Emphasis on Ethanol (2.50)
MX101	Impact of Continued Soil Erosion (.25)
MX102	Soil Erosion Control Practices (.25)
MX104	Soil Erosion and Sediment in Missouri (.50)
MX130	Controlling Nuisance: Bats (XPLOr only) •
MX131	Controlling Nuisance: Chipmunks (XPLOr only) •
MX132	Controlling Nuisance: Groundhogs (XPLOr only) •
MX134	Controlling Nuisance: Cottontail Rabbits (.50) •
MX135	Controlling Nuisance: Weasels (XPLOr only) •
MX136	Controlling Nuisance: Muskrats (.25) •
MX137	Controlling Nuisance: Blackbirds in Roosts (.50) •
MX138	Controlling Nuisance: Blackbirds in Crops (.25) •
MX139	Controlling Nuisance: Blackbirds in Livestock Feedlots (.25) •
MX141	Controlling Nuisance: Mammals (.25) •
MX142	Controlling Deer Damage (XPLOr only) •

**Number Title (price)**

MX143	Controlling Nuisance: Skunks (.25) •
MX144	Controlling Nuisance: Meadow Mice (XPLOr only) •
MX145	Controlling Nuisance: Pigeons (XPLOr only) •
MX328	Applying Pesticides Correctly: Missouri Core Manual (12.00)
MX331	Private Applicator Pesticide Training Study Guide (free) •
MX340	Clover Diseases I (1.00)
MX341	Clover Diseases II (1.00)
MX360	The Revitalization of the Public Service (12.95)
MX368	Midwest Tree Fruit Handbook (4.00)
MX381	Technology Transfer: From Researchers to Users (12.50)
MX383	Biotechnology: Generating Knowledge for a Better Tomorrow (free)
MX384	Midwest Vegetable Production Guide for Commercial Growers (6.50)
MX385	Anhydrous Ammonia Safety: Brochure (free)
MX386	Anhydrous Ammonia Safety: What is Anhydrous Ammonia? (free)
MX387	Anhydrous Ammonia Safety: NH3 Details for Dealers (free)
MX388	The Turf Disease Diagnostic Program at MU (free)
MX390	100 Years — Sanborn Field: A Capsule of Scientific Agricultural History in Central Missouri (free)
MX391	Making Plans for Commercial Aquaculture in the North Central Region (1.50) •
MX392	Transportation of Fish in Bags (.50) •
MX393	Use and Application of Salt in Aquaculture (.25) •
MX394	Choosing an Organizational Structure for Your Aquaculture Business (.50) •
MX395	Community-Based Child Care (free)
MX397	50 Ways Farmers Can Protect Their Groundwater (6.00)
MX400	Housing as We Grow Older: Folder (1.50)
MX409	Insect and Disease Management: Picture Sheets (15.40)
MX413	Affordable Housing: Manufactured Homes (1.50)
MX831	Vegetable Gardening in the Midwest (12.00)
MX908	Seminar in Information Science: Libraries, Medical Informatics and Health Care (20.00)
MX911	Missouri Volunteer Resource Mothers: A Community-Based Mentoring Program for Pregnant and Parenting Adolescents (115.00)
MX912	Missouri Volunteer Resource Mothers Research Report (25.00)

**NORTH CENTRAL REGIONAL PUBLICATIONS**

NCR2	Income Tax Management for Farmers (4.00) *
NCR11	The Farm Corporation (1.00)
NCR26	Lawn Weeds and Their Control (4.00)
NCR33	Vine Weeds of the North Central States (1.00)
NCR43	Tax Planning When Buying or Selling a Farm (4.00)*
NCR50	Farm Business Arrangements: Which One for You? (4.50)
NCR51	Farm Real Estate (4.50)
NCR56	Long Term Land Installment Contracts (4.00)*
NCR63	Common Tree Fruit Pests (30.00)
NCR75	Fixed and Flexible Cash Rental Arrangements for Your Farm (4.00)*
NCR76	Cash Farm Lease With Flexible Provisions form (.50)
NCR77	Crop-Share or Crop-Share/Cash Farm Lease form (.50)
NCR99	Care of House Plants (3.00)
NCR100	Edible Wild Mushrooms (2.00)
NCR105	Crop-Share or Crop-Share-Cash Rental Arrangements for Your Farm (4.00)*
NCR106	Irrigation Crop-Share or Crop-Share-Cash Farm Lease form (.50)
NCR107	Livestock-Share Rental Arrangements for Your Farm (1.00)
NCR108	Livestock Share Farm Lease (.75)

\*See abstracts page 23



**Number Title (price)**

NCR109 Pasture Lease form(.50)  
 NCR115 Market Turkey Management: Brooding (1.00)  
 NCR117 Planning Food Service Facilities (1.50)  
 NCR118 Living With Your Teenager: Understanding Physical Changes (.50)  
 NCR120 Living With Your Teenager: Understanding Emotional Changes (.50)  
 NCR128 Family Daycare Exchange (5.00)  
 NCR134 Wood Finishing: Discoloration of House Paint — Causes and Cures (.75)  
 NCR135 Wood Finishing: Selection and Application of Exterior Finishes for Wood (1.00)  
 NCR136 Wood Finishing: Finishing and Maintaining Wood Floors (1.00)  
 NCR139 Floral Design (1.00)  
 NCR148 Irrigation Crop-Share and Cash Rental Arrangements for Your Farm (1.00)  
 NCR149 Pasture Rental Arrangement for Your Farm (4.00) *See abstract page 23*  
 NCR156 Fitting and Showing Beef Cattle (1.00)  
 NCR157 Fitting and Showing Sheep (1.00)  
 NCR158 Herbicide Symptoms in Dry Edible Beans (1.00)  
 NCR159 Edible Bean Disease and Disorder Identification (1.00)  
 NCR160 Diseases of Sunflowers (.50)  
 NCR174 Facts About Fabric Flammability (1.00)  
 NCR185 Comprehensive Guide to Tolerance and Susceptibility of Weeds and Crops to Herbicides (1.00)  
 NCR190 Soil Wetting Agents: Their Use in Crop Production (.50)  
 NCR198 Recognition and Management of Dry Bean Production Problems (3.50)  
 NCR203 Public Policy Education: Key Concepts and Methods (2.00)  
 NCR208 Sewing for Profit (1.50)  
 NCR211 Flower Arranging (2.50)  
 NCR213 Food, Medicine and You (1.50)  
 NCR220 Yellow Nutsedge Control in Field Crops (.50)  
 NCR229 It's About Time (1.00)  
 NCR233 Planning and Managing Your Farm Business Center (1.00)  
 NCR238 Managing Drought-Stressed Corn and Soybeans (1.00)  
 NCR239 Food, Allergy and You (1.50)  
 NCR240 Recommendations for a Sheep Management Program (2.50)  
 NCR243 Decorating with Fabric: Making Shades (1.50)  
 NCR251 Effective Herbicide Use in Christmas Tree Plantations (2.00)  
 NCR254 Your Cat and You (3.50)  
 NCR255 Decorating With Fabric: Making Curtains and Draperies (1.50)  
 NCR259 Selling Food Products: A Business From Your Home (1.00)  
 NCR261 Wilt Disorders of Curcubits (1.50)  
 NCR263 Wellness in Retirement (.50)  
 NCR275 Mastitis Control Program for Strep. Ag.-Infected Dairy Cows (.50)  
 NCR276 Mastitis Control Program for Staph- Infected Dairy Cows (.50)  
 NCR277 Mastitis: A Closer Look (.50)  
 NCR279 Evaluating Nursing Home Insurance (1.00)  
 NCR281 Weeds of the North Central States (9.00)  
 NCR292 Ages and Stages of Child and Youth Development (.50)  
 NCR294 Upholstered Furniture Care: Cleaning and Stain Removal (1.00)  
 NCR303 Plant Growth Regulators: Their Use in Crop Production (.75)  
 NCR312 Moisture Problems in the Home (1.00)  
 NCR313 Remodeling — Where to Begin (.50)  
 NCR320 Home Inspection Guide (1.50)  
 NCR326 Management of Urea Fertilizers (1.00)  
 NCR327 European Corn Borer: Ecology and Management (5.00)  
 NCR329 Farm Personnel Management (1.75)  
 NCR338 Shelves, Houses and Feeders for Birds and Mammals (3.00)  
*See feature page 1*

**Number Title (price)**

NCR344 Uneven Emergence in Corn (1.00)  
 NCR346 Feeding the Dairy Herd (4.00)  
 NCR364 Standing Wood Utility Poles (2.50)  
 NCR366 Feeding Dairy Cows for Efficient Reproductive Performance (.75)  
 NCR367 Strategies for Feeding the Ewe Flock (1.00)  
 NCR368 Sheep Pastures for the Midwest (1.00)  
 NCR379 Sheep Diseases (.50)  
 NCR393 Fine Particle Pollution: Residential Air Quality (1.00)  
 NCR395 Liability Insurance and the Family Daycare Provider (1.25)  
 NCR397 Choosing a Profitable Breed of Sheep (.50)  
 NCR400 Ground Covers for the Midwest (12.50)  
 NCR403 Seed Lot Sampling (.25)  
 NCR406 Managing Risk in Agriculture (.50)  
 NCR429 Renovating Old, Abandoned Apple Trees (.50)  
 NCR434 Liability Insurance and the Child Care Center (1.00)  
 NCR445 Marketing Crafts and Other Products to Tourists (1.00)  
 NCR451 Starling Management in Agriculture (1.00)  
 NCR461 Ornamental Grasses for the Midwest (4.00)  
 NCR462 Caring for Your Carpet: The New Generation of Carpets for Your Home (.75) •  
 NCR463 A Buyer's Guide to Carpets (1.50) •  
 NCR475 Writing for a Changing World: Reaching Low Literacy Audiences With Print Material (.50) •  
 NCR481 Biological Control of Insects and Mites: An Introduction to Beneficial Natural Enemies and Their Use in Pest Management (11.00)  
 NCR486 Chemical Disease Controls for the Greenhouse Industry (3.00)  
 NCR491 Control of Diseases on Commercial Outdoor Flowers (10.00)  
 NCR497 Kitchen Planning: New and Remodeled (3.50)  
 NCR498 Freshwater Fish Preservation (1.75)  
 NCR528 Diagnosing Shoot Boring Insects of Pines (1.50)  
 NCR546 Independent Contractor vs. Employee: Exploring the Categories (2.50) •  
 NCR547 Alfalfa Management Guide (5.00)  
 NCR550 DNA Fingerprinting in Human Health and Society (.75)  
 NCR552 Pharmaceutical Production from Transgenic Animals (1.00) •  
 NCR553 Insect-Resistant Crops Through Genetic Engineering (1.50) •  
 NCR554 DNA Fingerprinting in Agricultural Genetics Programs (.75) •  
 NCR556 Growing Perennials (1.50)  
 NCR557 Regulation of Genetically Engineered Organisms and Products (2.00) •  
 NCR565 The New Look for Nutrition: Connecting the Pieces (.30)  
 NCR568 Alternative Financial/Organizational Structures of Farm and Agribusiness Firms (1.50)  
 NCR572 Energy Requirements and the Net Energy System (1.50)  
 NCR602 Bt Corn & European Corn Borer: Long-Term Success Through Resistance Management (3.50)  
 NCR3961 Household Waste Management (.50)  
 NCR3962 Household Waste Management: Yours, Mine and Ours (1.50)

**NORTHEAST REGIONAL AGRICULTURAL ENGINEERING SERVICE PUBLICATIONS**

NRAES1 Post Frame Building Handbook, Materials, Design Considerations and Construction Procedures (12.00)  
 NRAES3 Energy Conservation/Commercial Greenhouses (6.00)  
 NRAES4 Trickle Irrigation (6.00)  
 NRAES5 Silage and Hay Preservation (8.00)  
 NRAES7 Home Storage of Fruits and Vegetables (6.00)  
 NRAES9 Home Heating in an Emergency (4.00)  
 NRAES10 Farm Accident Rescue (5.00)

**Number Title (price)**

- NRAES11 High-Tensile Wire Fencing (4.00)  
 NRAES12 First on the Scene (7.00)  
 NRAES18 Extinguishing Silo Fires (4.00)  
 NRAES22 Refrigeration and Controlled Storage (8.00)  
 NRAES25 Used Farm Equipment (6.00)  
 NRAES26 Milking Systems and Milking Management (30.00)  
 NRAES27 Lumber From Local Woodlots (8.00)  
 NRAES31 Dairy Manure Management (30.00)  
 NRAES32 Farming Alternatives (8.00)  
 NRAES33 Greenhouse Engineering (30.00) *See abstract page 47*  
 NRAES34 Pesticides and Groundwater (5.00)  
 NRAES37 Planning Dairy Stall Barns (6.00)  
 NRAES39 Fire Control in Livestock Buildings (5.00)  
 NRAES43 Composting to Reduce the Waste Stream (8.00)  
 NRAES47 Private Drinking Water Supplies (8.00)  
 NRAES48 Home Water Treatment (15.00)  
 NRAES50 Home Buyers Guide (8.00)  
 NRAES51 Produce Handling for Direct Marketing (7.00)  
 NRAES52 Facilities for Roadside Marketing (7.00)  
 NRAES54 On-Farm Composting (20.00)  
 NRAES57 Fertilizer and Manure Application Equipment (6.00)  
 NRAES59 Forage Moisture Determination (6.00)  
 NRAES60 Logging Aesthetics: Practical Tips for Loggers, Foresters and Landowners (7.00)  
 NRAES63 Dairy Reference Manual (40.00)  
 NRAES64 Enhancing Wildlife Habitats (25.00) *See abstract page 47*  
 NRAES72 Greenhouse Systems: Automation, Culture and Environment (30.00)  
 NRAES74 Calves, Heifers and Dairy Profitability (30.00)  
 NRAES76 Guideline for Planning Dairy Freestall Barns (8.00)  
 NRAES78 On-Farm Agrichemical Handling Facilities (6.00)  
 NRAES79 Liquid Manure Application Systems: Design, Management and Environmental Assessment (30.00)  
 NRAES84 Animal Behavior and the Design of Livestock and Poultry Systems (30.00)  
 NRAES85 Penn State Freestall and Heifer Housing (11.00)  
 NRAES89 Liquid Manure Application Systems Design Manual (20.00)  
*OKE See in Midwest Plan Services, Publications, page 16*  
*P See in Midwest Plan Services, Plans, page 16*

**PICTURE SHEETS**

- PS1 Principal Stored Grain Insects (.75)  
 PS4 Corn Insects — Above Ground (.75)  
 PS5 Corn Insects — Below Ground (.75)  
 PS6 Common Soybean Insects (.75)  
 PS7 Common Small Grain Insects (.75)  
 PS8 Common Forage Legume Insects (.75)  
 PS9 Vegetable Insects I (.75)  
 PS11 Stinging and Biting Pests (out of print)  
 PS12 Cotton Insects and Mites (.75)  
 PS13 Beneficial Insects in Field Crops (.75)  
 PS14 Sunflower Insect Pests I (.75)  
 PS15 Sunflower Insect Pests II (.75)  
 PS16 Caterpillars on Field Crops I (.75)  
 PS17 Caterpillars on Field Crops II (.75)  
 PS20 Tobacco Insects: An Aid to Identification and Control (.75)  
 PS23 Pecan Insects and Diseases: An Aid to Identification and Control (.75)  
 PS25 Beneficial Insects (.75)  
 PS26 Grain Sorghum Insects I (.75)  
 PS27 Grain Sorghum Insects II (.75)  
 PS28 Stored Grain Insects (.75)

**Number Title (price)**

- PS29 Grain Molds and Vertebrates Storage Pests (.75)  
 PS101 Corn Diseases I (.75)  
 PS102 Corn Diseases II (.75)  
 PS103 Soybean Diseases I (.75)  
 PS104 Soybean Diseases II (.75)  
 PS105 Wheat Diseases I (.75)  
 PS106 Wheat Diseases II (.75)  
 PS107 Alfalfa Diseases I (.75)  
 PS108 Alfalfa Diseases II (.75)  
 PS109 Cotton Diseases: An Aid to Identification and Control (.75)  
 PS111 Corn Diseases III (.75)  
 PS112 Corn Diseases IV (.75)  
 PS114 Sorghum Diseases I (.75)  
 PS115 Sorghum Diseases II (.75)  
 PS150 Corn Herbicide Injury 1 (.75)

**RESEARCH BULLETINS**

- RB1054 Sanborn Field: Historical Perspective (free)  
 RB1063 Effective Soil Water Potential For A Steady, Radial-Axial Flow System (free)  
 RB1064 Farm Credit System Banks and Combined Associations (free)  
 RB1065 Southwest Missouri's Changing Farm Supply Picture (free)  
 RB1066 Vulnerability of Missouri Groundwater to Nitrate and Pesticide Contamination (free)  
 RB1067 Light as a Factor in Corn Production (free)  
 RB1068 Nitrogen as a Factor in Corn Production (free)  
 RB1069 Compressive Strength of Dry Soil Crumbs (free)  
 RB1070 Financial Performance of Missouri Local Farm Supply Cooperatives 1983 - 1990 (free)  
 RB1072 Precipitation Features of Climate for Selected Locations in Missouri (free)

**STATION BULLETINS**

- SB1 Announcement to Farmers: The So-Called 'Hatch Bill' (free)  
 SB419 The Land Grant College Movement (1.50)  
 SB738 Poisonous Spiders (1.00)  
 SB767 Trees of Missouri (8.00)  
 SB769 Missouri College of Agriculture Through A Half Century (To 1961, Miller) (1.00)  
 SB883 Centennial Report 1870-1970 of the College of Agriculture (5.00) •  
 SB1001 Recommended Chemical Soil Test Procedures for the North Central Region (6.00) •

**SPECIAL REPORTS**

- SR285 Food for the 21st Century (free)  
 SR303 Impact: the Technology Years (5.00)  
 SR325 Report of the Inter-Regional Maize Inbred Evaluation (5.00)  
 SR327 Medium Size and Larger U.S. Hog Producers (free)  
 SR329 The Evolution of Homeothermy: From Dinosaurs to Man (free)  
 SR331 Macroeconomic Policy and Agricultural Development: Concepts and Case Studies of Egypt, Morocco and Jordan (free)  
 SR335 Rural Missouri 1995: Challenges and Issues (free)  
 SR341 Young Farmer Attitudes Toward Cooperatives (free)  
 SR353 Wild Wheat: An Introduction (free)  
 SR354 History of the Department of Poultry Science - Part II (free)  
 SR361 History of the Department of Rural Sociology (free)  
 SR362 History of the Department of Plant Pathology (free)  
 SR363 History of the Department of Horticulture (free)  
 SR365 Changing Structure of Regional Cooperatives (free)  
 SR366 History of the Department of Veterinary Medicine (free)  
 SR367 History of the School of Forestry, Fisheries and Wildlife (free)

**Number Title (price)**

SR374	The Role of Glucocorticoids in Stress: Old Paradoxes in New Bottles (free)
SR379	A Commitment to Agricultural Research for a Competitive Edge in Missouri Agriculture (free)
SR380	A History of Entomology (free)
SR382	History of the Department of Dairy Science (free)
SR385	A History of Field Crops in the University of Missouri 1870-1967 (free)
SR386	History of the Department of Extension Education (free)
SR388	Observing 100 Years of the Hatch Act in Missouri (free)
SR399	Agricultural Policies of Guatemala: Implications for Women in Agriculture (free)
SR400	Agricultural Policies of Yemen: Implications for Women in Agriculture (free)
SR402	Quality of Missouri's Rural Well Water: Northern Region (free)
SR413	A History of the Department of Soils and Soil Science at the University of Missouri (free)
SR415	Proceedings of the Sanborn Field Centennial (free)
SR427	Missouri Agriculture: A Growing Industry (free)
SR429	Winter Wheat: 1991 Missouri Crop Performance (free)
SR436	Spring Oats: 1991 Missouri Crop Performance (free)
SR440	Survey of Rural Wells in McDonald, Co. Mo. (free)
SR441	Winter Wheat: 1992 Missouri Crop Performance (free)
SR447	Spring Oats: 1992 Missouri Crop Performance (free)
SR464	An Analysis of the Retention, Condition and Land Use Implications of Tree Plantings Established Under the Soil Bank, Forestry Incentives Program and the Agricultural Conservation Program (free)
SR468	Corn: 1994 Missouri Crop Performance (free)
SR469	Entomology at the University of Missouri (free)
SR471	Corn Soil Insects Research 1994 (free)
SR477	Design and Construction, On-Site Systems: Small Wastewater Flows (free)
SR478	Winter Wheat: 1995 Missouri Crop Performance (free)
SR479	Corn Soil Insects Research 1995 (free)
SR480	Soybean: 1995 Missouri Crop Performance (free)
SR481	Corn: 1995 Missouri Crop Performance (free)
SR482	Grain Sorghum: 1995 Missouri Crop Performance (free)
SR486	Social and Economic Organization of Rural Missouri (free)
SR487	The State of Rural Missouri (free)
SR488	Status and Potential of Missouri Agriculture (free)
SR489	Selected Characteristics of Missouri Horticultural Industry (free)
SR490	Status of Selected Natural Resources in Missouri (free)
SR491	Missouri's Food Processing Industry (free)
SR492	Ten Year Agricultural Outlook (free)
SR493	Comparative Funding of Missouri Agricultural Experiment Station (free)
SR499	Corn Soil Insects Research 1996 (free)
SR504	New Farmer Network Groups and the University (free)
SR505	Pesticide Use and Water Quality: An Assessment of Claims (free)
SR508	Corn Soil Insects Research 1997 (free)
SR509	Grain Sorghum: 1997 Missouri Crop Performance (free)
TR	See in <i>Midwest Plan Services, Publications, page 16</i>

**Number Title (price)**

UED55	Condiments: Quantity Recipe Series (2.00)
UED56	Main Entrees: Quantity Recipe Series (2.50)
UED57	Vegetables: Quantity Recipe Series (3.50)
UED58	Desserts: Quantity Recipe Series (2.50)
UED60	Parents: You Have Teaching Power (1.00)
UED61	Missouri County Government — a Primer (1.00)
UED62	Encyclopedia of Missouri Courthouses: Includes UED6000-UED6113 (10.00)
UED68	The Most Asked Questions About Gifted Children (2.50)
UED72	The History of Missouri Capitols (10.00)
UED73	A History of Missouri's Counties, County Seats and Courthouse Squares (15.00)
UED77	Twenty-Towns (6.00)
UED79	Copyright Infringement by School Personnel (.25)
UED81	Jack Stock and Mules in Missouri (7.50)
UED84	Swat the Rooster: Genesis of the Agricultural Extension Program in Johnson County, Missouri (5.00)
UED85	The County Agent (5.00)
UED86	Missouri Policy Choices (2.85)
UED99	The Missouri Mule: His Origin and Times, Volumes 1 and 2 (35.00) <i>See abstract page 46 before ordering</i>
UED100	Community-Based Programs: Effective Approaches for Youth and Families-at-Risk (10.00)
UED5300	Quantity Recipe Series Complete Set (12.50)
UED6000	Adair County Courthouse (.25) •
UED6001	Andrew County Courthouse (.25) •
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UED6035	Franklin County Courthouse (.25) •
UED6036	Gasconade County Courthouse (.25) •
UED6037	Gentry County Courthouse (.25) •

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UED46	Handbook for Planning Commissioners in Missouri (10.00)
UED47	Children's Reading: What Parents Can Do to Help (1.00)
UED51	A Guide for Parents of Gifted Children (1.00)
UED52	"Oh! Justice..." the History of Boone County, Missouri Courthouses (4.50)
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 UED6045 Howell County Courthouse (.25) •  
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 UED6066 Mississippi County Courthouse (.25) •  
 UED6067 Moniteau County Courthouse (.25) •  
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 UED6087 Randolph County Courthouse (.25) •  
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 UED6089 Reynolds County Courthouse (.25) •  
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 UED6092 St. Clair County Courthouse (.25) •  
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 UED6094 Ste. Genevieve County Courthouse (.25) •  
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WM1 Missouri Recycling Directory (4.00)  
 WM2 Cleaning up the Waste Stream — Recycling Plastics (.25) •  
 WM3 Hot Wheels: Scrap Tire Recycling (.25) •  
 WM4 The First Step Toward Waste Reduction: Industrial Waste Audits (.25) •  
 WM5000 SWAP Your Waste (.75)  
 WM5001 What Your Home Haz: A Household Hazardous Waste Game (.75)  
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 WM5003 Tools for the Environmental Teacher (XPLOR only) •  
 WM6000 Safe Use, Storage and Disposal of Pesticides (.25) •  
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 WM6002 Selecting Household Safety Equipment (out of print) •  
 WM6003 Household Hazardous Products (.25) •  
 WM6004 Managing Household Hazardous Waste (out of print)  
 WM6005 Store Hazardous Products Safely (.50) •  
 WM6006 Identifying Product Hazards: Material Safety Data Sheets (.50) •  
 WM6007 Setting Up a Used Antifreeze Collection Site (.50) •  
 WM6009 Setting Up a Used Latex Paint Collection Site (.75) •  
 WM6010 Setting Up a Used Oil Collection Site (.50) •  
 WM6011 Storm Drains and Water Quality (.25) •

**WATER QUALITY INITIATIVE**

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 WQ2 Missouri Department of Agriculture (free) •  
 WQ4 Missouri Department of Health (free) •  
 WQ5 Missouri Department of Natural Resources (free) •  
 WQ11 University Extension: Cooperative Extension Service and Water Quality Education (free) •  
 WQ12 Cooperative Extension Service Water Quality Specialists (free) •  
 WQ21 Agricultural Sources of Contaminants in Groundwater (free) •  
 WQ22 Federal Laws Protecting Groundwater (free) •  
 WQ23 Groundwater Quality (free) •  
 WQ24 Aquifers and Soil Filter Effect (free) •  
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 WQ101 Understanding Your Water Test Report (1.50) •  
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 WQ103 Nitrate in Drinking Water (out of print) •  
 WQ104 Understanding Home Water Treatment Systems (.75) •  
 WQ200 Animal Waste Regulations for Livestock Producers in Missouri (free) •  
 WQ201 Reduce Environmental Problems With Proper Land Application of Animal Wastes (free) •  
 WQ202 Land Application Considerations for Animal Wastes (free) •

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- WQ205 Composting Poultry Carcasses in Missouri (free)
- WQ206 Dead Poultry Composter Project: Bill Ball Composter (free) •
- WQ207 Dead Poultry Composter Project: Tom Swaffer Composter (free) •
- WQ208 Dead Poultry Composter Project: Bill Wallace Composter (free) •
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- WQ212 Storing Poultry Litter (free) •
- WQ213 Calibrating Manure Spreaders (free) •
- WQ214 Measuring Manure Spreader Uniformity (free) •
- WQ215 Laboratory Analysis of Manure (free) •
- WQ216 Dead Animal Disposal Laws in Missouri (free) •
- WQ217 Obtaining a DNR Letter of Approval for a Livestock Waste Management System (out of print) •
- WQ218 Record Keeping for Manure Land Application (free) •
- WQ219 Separation Distances for Livestock Waste Management Systems (free) •
- WQ220 Spreading Poultry Litter Without Lab Analysis or Soil Tests (free) •
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- WQ252 Nitrogen Cycle (free) •
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- WQ254 Nitrification (free) •
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- WQ323 Mechanical Solid/Liquid Separation for Dairy Waste (free) •
- WQ324 Solids Removal From Livestock Manure Lagoons (free) •
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- WQ402 A Homeowner's Guide: Residential Waste Stabilization Lagoons (free) •
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- WQ420 Biosolids Index of Publication Titles, Nomenclature and Conversion Factors (free) •
- WQ421 State and EPA Regulations for Domestic Wastewater Sludge and Biosolids (free) •
- WQ422 Land Application of Septage (free) •
- WQ423 Monitoring Requirements for Biosolids Land Application (free) •
- WQ424 Biosolids Standards for Pathogens and Vectors (free) •
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- WQ449 Biosolids Glossary of Terms (free) •
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- WQ551 Calibrating Home Garden Equipment (free) •
- WQ650 Farm•A•Syst: An Action Program for Safe Drinking Water (7.50)
- WQ651 Assessing the Risk of Groundwater Contamination From Drinking-Water Well Condition (2.00) •
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- WQ660 Introduction to Farm•A•Syst Series: An Action Program for Safe Drinking Water (free) •



## North Central Region Farm Management Publications Revised

These publications were all revised and reviewed in 1997 by specialists in agricultural economics and farm management from land-grant universities of the north-central United States

### Income Tax Management for Farmers

Changes in farm tax laws in recent years have made wise tax decisions even more important. This 38-page publication will help you keep tax records throughout the year and make good buying and selling decisions considering tax law.

Several agricultural enterprises such as land development and livestock purchases and their tax treatment are discussed. Other topics include reforestation, managing income for maximum social security benefits, and investment credit. A final section contains tax tips and an income tax projection worksheet to estimate the amount of taxes owed.

Order: NCR2, *Income Tax Management for Farmers* (\$4.00)

### Tax Planning When Buying or Selling a Farm

This publication outlines the many aspects of farm transfer that can affect your tax bill, now and in the future. Topics include how to increase net earnings, how to avoid unnecessary taxes, how to delay the recognition of income and postpone tax payment, how taxes affect your financial future, when to buy and sell a farm, and what the tax consequences are when buying and selling a farm.

Order: NCR43, *Tax Planning When Buying or Selling a Farm* (\$4.00)

### Long-term Installment Land Contracts

This publication covers the advantages and disadvantages for the buyer and the seller. Topics include the basic considerations in preparing the installment land contract, transferring property by installment contract, method and time of payment, operation and use of property, costs, and income. Default and possible remedies are also discussed.

Order: NCR56, *Long-term Installment Land Contracts* (\$4.00)

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

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. It addresses whether a fixed cash-rent lease arrangement should be used and explains how to develop a fair fixed cash rental rate. It provides information on setting rent for other cropland, pasture and buildings. Also, it outlines the advantages and disadvantages of flexible cash-leasing arrangements and discusses the importance of developing a written lease agreement. A sample lease form also is included. (NCR76, *Cash Farm Lease Form* is available separately for \$.50.)

Order: NCR75, *Fixed and Flexible Cash Rental Arrangements for Your Farm* (\$4.00)

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

Cropland rental arrangements vary greatly across localities and farming areas. This publication helps tenants and landlords develop fair crop-share arrangements and assists them in making sound decisions based on a fair evaluation of resources. It addresses the relative advantages and disadvantages of crop-share leases and explains how to deal with buildings, pasture and other cropland in arranging a crop-share lease. The publication includes a sample lease form. (NCR77, *Crop-share or Crop-share/Cash Farm Lease Form*, is available separately for \$.50.)

Order: NCR105, *Crop-share or Crop-share/Cash Rental Arrangements for Your Farm* (\$4.00)

### Pasture Rental Arrangement for Your Farm

This publication helps both tenants and landlords make sound decisions and develop fair pasture rental arrangements. Part I provides background information on animal units and stocking rates. Parts II and III discuss establishing lease rates on a per-head or per-acre basis, and Part IV addresses leasing tame-grass pasture. Part V discusses other factors influencing lease rates. Part VI discusses the importance of developing a written agreement. A sample lease form is included. (NCR109, *Pasture Lease Form*, is available separately for \$.50)

Order: NCR149, *Pasture Rental Arrangements for Your Farm* (\$4.00)

**See more abstracts on pages 25 and 47**

### Beef Housing and Equipment Handbook

Current agricultural engineering recommendations for beef housing and equipment are summarized in this 136-page handbook. Essential components for an efficient operation such as building design, operation size and equipment are discussed. Figures, tables and discussions to help improve, expand and modernize an operation are included.

Topics cover: cow-calf, cattle handling and cattle feeding facilities; feed storage, processing and handling; water and waterers; manure management; farmstead planning; building construction and materials; ventilation and insulation; fences; gates; and utilities.

Order: MWPS6, *Beef Housing and Equipment Handbook* (\$7.00)

## Ordering From Lincoln University

Listed below are the publications produced at Lincoln University. Order from your County Extension Office or from:

**Cooperative Extension at Lincoln University  
Agriculture and Extension Information Center  
PO Box 29  
Jefferson City, MO 65101  
or phone (573) 681-5554.**

Parenthetical information following a publication's title includes: wholesale and retail prices. Single copies of publications are free.

### AGRICULTURE

- EP281 Care of Ewes and Lambs at Lambing Time (.40/.50)
- EP312 Cooking Lamb (.15/.25)
- EP274 Daily Care of the Hutch Confined Rabbit (.40/.50)
- EP275 Feeding Kids for Optimum Gain and Does for Optimum Milk Production (.40/.50)
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- EP247 Footrot Control in Sheep (.15/.25)
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- EP265 Getting Started in a Sheep Operation (.40/.50)
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- EP326 Learning to Spin (.40/.50)
- EP271 Mastitis in the Ewe (.40/.50)
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- EP321 Pregnancy Toxemia (Ketosis) in Does and Ewes (.40/.50)
- EP258 Purchasing, Washing, and Carding Wool for Spinning and Weaving (.15/.25)
- EP316 Raising Rabbits for Beginners (2.00/3.00)
- EP330 Rolag Fiber: Preparation for Spinning (.40/.50)
- EP329 Sheep Health (1.00/1.50)
- EP272 Soremouth in Sheep and Goats (.15/.25)
- EP255 Summer Ram Management (.40/.50)
- EP266 Sweet Potato Production in Missouri (.40/.50)
- EP267 Sweet Potato Slip Production (.15/.25)
- EP314 Treatment and Control of Coccidia in Sheep (.15/.25)
- EP280 Wool Care and Grading (.15/.25)

### CHILD AND FAMILY DEVELOPMENT

- EP264 Children and Stress: Caregivers and Teachers Helping Children Cope (.15/.25)
- EP263 Children and Stress: Parents Helping Children Cope (.15/.25)
- EP235 Choosing Child Care (.40/.50)
- EP252 For Fathers Only (.40/.50)
- EP248 Getting Involved: Home School Communication (.15/.25)
- EP273 Managing Teenage Stress (.40/.50)
- EP262 Mastering Family Stress (.50/.80)
- Parent Express Brochure (.10/.20)
- EP250 a-o Parent Express (.60/.90 each issue)
- EP285 The Rural Crisis Comes to School (.40/.50)
- EP249 We All Live in this Mess Together (.50/.80)

### COMMUNICATIONS

- EP246 Communicating: Imaginative Graphics & Design (.40/.50)
- EP244 Communicating with Creative Photographs (.40/.50) EP322 Communicate with Art (.40/.50)

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- EP310 Tips and Techniques for Better Pictures (.15/.25)
- EP311 To Shoot, or not to Shoot Video (.15/.25)
- EP315 Shoot for Improved Photographs (.15/.25)
- EP 238 Taking Care of Your Videotape Originals (.15/.25)
- EP245 Write to be Understood (.15/.25)

### COMMUNITY DEVELOPMENT

- EP327 Down Payment Subsidy Housing Program (1.00/1.50)
- EP328 How to Develop Multi-Purpose Centers (1.00/1.50)

### ECONOMICS

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- EP240 Driving Tips for Older Drivers (.15/.25)
- EP234 Elderly: Coping with Declining Vision (.15/.25)
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- EP232 Elderly: Coping with Summer Heat (.40/.50)
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### EXTENSION

- Lincoln University Annual Report 1977-94 (3.50/4.00)
- Cooperative Research & Extension - Brochure (.10/.15)

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- EP286 a-g Go and Grow with Gardening (series of seven) (.40/.50 each issue)
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- EP218 Ordering Garden Seeds by Mail: How to Deal with Problems (.15/.25)
- EP217 Ordering Garden Seeds by Mail: How to Order (.15/.25)
- EP213 A Partial Listing of Seed Catalogs (.15/.25)
- OBSERVATION EARTH (teaching manual) (\$10.00)  
*Must be purchased through your local Extension Office*
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- Small Farm Family Poster (.40/.50)

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- E331 How to Take a Soil Sample (.15/.25)

## 4-H

- EP317 State 4-H Public Speaking Program (.40/.50)
- EP319 Ten Tips to Effective 4-H Public Speaking (.40/.50)

## More abstracts ... (order page 3)

*University of Missouri-Columbia publications*

### Bed and Breakfasts: Is This the Right Business for You?

Considering a bed and breakfast? Learn tips from other bed and breakfast owners in Missouri through this 38-page booklet. Written in a question/answer format, with different B&B owners giving their opinions on matters such as: "Is my home suitable?" and "Will my family like it?"

Interesting advice and observations come forward. Several hints about operating a bed and breakfast can be found, such as types of B&Bs that meet special visitor needs. The business aspects of ordinances, permits and marketing are included in the discussions as well.

Beautiful detailed sketches of Missouri bed and breakfasts give a feel for the existing options open to Missouri travelers. Several sources for additional information are also included. All can be used to form plans for beginning a bed and breakfast.

Order: MP667, *Bed and Breakfasts: Is This the Right Business for You?* (\$4.00)

### Your Home Your Way

A Home Study Course in  
Interior Space Planning and Design

Home planning, whether new or remodeling, comes alive in this 168-page manual. It takes the approach that form follows function; that is, a home can be beautiful but still not serve you or your family's needs. So the first chapter begins by asking questions about personal preference, needs and budget to help you identify some guidelines before further planning. Then it discusses overall principles of design, followed by practical advice about furniture arrangement, windows, lighting and other design elements.

For example, a discussion of color and light and their effect on mood and balance leads to information about types of lighting and fixtures. Energy tips throughout the book aid in planning an energy-efficient home.

Furniture styles, selection, history and arrangement are outlined. It suggests wood trims, metals, fabrics and colors that accompany each style. Important items such as draperies, carpets and windows are covered as well. The final chapter details accessories and how to arrange them, and distinguishes between functional and decorative accessories.

Several illustrations of design principles and tables with information such as fabric types and care help the reader to understand and incorporate the information into a personal design plan. Hints for overcoming or lessening problems of design, especially for existing houses, also are included.

Order: MP589, *Your Home Your Way: A Home Study Course in Interior Space Planning and Design* (\$5).

**See more abstracts on pages 23 and 47**

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## The Missouri Mule

### *His Origin and Times, Volumes I and II*

This popular series by Melvin Bradley, Department of Animal Sciences, University of Missouri-Columbia, is out of print as we go to press with this catalog. However, it is scheduled for a slight revision and should be available for ordering by November 1, 1998. Please check for availability before ordering.

The Missouri mule has served as farmer, logger, miner and war veteran: during World War I a mule force 300,000 strong was sent to assist the Allies in Europe. This 786-page, two-volume set provides a comprehensive history of the mule's contributions to humankind — from its mysterious prehistoric origins to its role in modern industry and warfare. The work reflects 10 years of research, correspondence and interviews, and is brimming with more than 400 historic photographs. Chapters on the mule's more public roles in education, rehabilitation, public relations, politics and entertainment are included, as well as an entire chapter exploring the mule's complex and often misunderstood psychology.

Order: UED99, *The Missouri Mule: His Origin and Times, Volumes I and II* (\$35.00 available November 1998)

## More abstracts ...

### Corn Insect Pests: A Diagnostic Guide

*Corn Insect Pests: A Diagnostic Guide* is a densely illustrated, color, 48-page publication that aids in the identification of more than 20 of the most important insect pests in corn in the north-central United States. Identification is based on symptoms of crop injury rather than insect taxonomy.

A diagnostic key divides corn growth states into four periods. The key is used by finding the appropriate growth stage and locating the crop injury symptoms that are observed in the field.

The publication contains more than 100 color photographs of corn pests and the characteristic symptoms of the damage they cause. A profile of each pest describes its appearance and life cycle, characteristic damage, management options, distribution, and the fields most likely to sustain injury. A timeline charts the usually annual appearance of corn pests in Missouri and Illinois.

This diagnostic tool is intended for corn producers and especially for individuals with agronomic backgrounds who troubleshoot insect pest problems in corn: extension agronomists, crop consultants and scouts, and agricultural input dealers and applicators.

Order: M166, *Corn Insect Pests: A Diagnostic Guide* (\$8.00)

### House Planning Handbook

Match your housing needs with your lifestyle and family life cycles. This 81-page book discusses selecting a location and comparing and evaluating floor plans. Detailed dimensions are shown for each area of a house.

Storage needs are analyzed by house area. Includes financing limitations, remodeling, exterior house styles and energy-related construction techniques.

Order: MWPS16, *House Planning Handbook* (\$7.00)

### Home and Yard Improvements Handbook

This 100-page publication explains how to optimize use of available space for storage in all areas of the home. The outdoors, as an extension of the living area, is also covered. Topics for improvements include kitchens, bathrooms, closets, laundry centers, sewing centers, and home offices. Fences, tree wells, decks and patios, patio furniture, recreational facilities, and outdoor cooking are discussed in a section on yard improvements.

Order: MWPS21, *Home and Yard Improvements Handbook* (\$7.00)

### Greenhouse Engineering

Targeted toward commercial greenhouse operators, this 212-page publication covers operation planning, design and construction, materials handling, energy conservation and remodeling. Different needs for different settings are explained. Environment is treated in detail. Includes worksheets, and sources for equipment, supplies and plans.

Order: NRAES33, *Greenhouse Engineering* (\$30.00)

### Farm and Home Concrete Handbook

This 44-page book has comprehensive data on concrete basics: forming, reinforcing, placing, finishing and curing. Discussion and examples detail selecting concrete mixes and ordering ready-mix concrete. Major sections cover preparation, hot and cold weather precautions, slip-resistant surfaces, concrete walls, above- and below-ground horizontal silos, and concrete masonry construction. Appendices include background technical data on cement, other concrete ingredients, and design data for cast-in-place and tilt-up walls.

Order: MWPS35, *Farm and Home Concrete Handbook* (\$6.00)

### Enhancing Wildlife Habitats: A practical guide for forest landowners

This 172-page, comprehensive guide is designed specifically for private, nonindustrial forest owners. It outlines strategies for developing a well-focused plan to encourage and manage wildlife on woodlots. Its recommendations apply to any size forest, from one acre to several thousand.

Order: NRAES64, *Enhancing Wildlife Habitats: A practical guide for forest landowners* (\$25.00)

### Corrals for Handling Beef Cattle

This 91-page Alberta Agriculture publication explains the cattle handling equation. It starts with cattle behavior and handling techniques and then looks at corral design, geometry and components. It includes more than 60 design drawings and corral plans. These designs cover gates, pens, fences, scales, alleys, chutes and other working areas. Each design includes a cost index based on a minimum working corral. This basic corral is pegged at between \$1,200 and \$1,400 for materials. The book was reviewed by industry experts.

Order: CAN723, *Corrals for Handling Beef Cattle* (\$10.00)

### Modern Corral Design

Published by the Oklahoma Cooperative Extension Service, *Modern Corral Design* addresses working cattle efficiently and safely with much less labor. The book features plans for three different working facilities, including an economical one for small cattle operations. It covers site selection, the main components of the working areas, holding and sorting facilities for safe and efficient animal flow, and a step-by-step construction sequence. Details are given for design options such as scales, headgates, loading chutes, a hospital area, a palpation cage, and a calf table. 60 pages.

Order: OKE938, *Modern Corral Design* (\$5.00)

**See more abstracts on pages 23 and 25**

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Andrew	Courthouse, 2nd Floor, P.O. Box 32, Savannah, 64485	(816) 324-3147	Macon	113 N. Rubey, Macon, 63552	(660) 385-2173
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Barry	907 N. Main, P.O. Box 336, Cassville, 65625	(417) 847-3161	Marion	Courthouse, 100 S. Main St. Rm 201, Palmyra, 63461	(573) 769-2177
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Caldwell	76 North Kingston, P.O. Box 158, Kingston, 64650	(816) 586-2761	Morgan	100 E. Newton, 2nd Floor, Versailles, 65804	(573) 378-5358
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