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MINNESOTA EXTENSION SERVICE

UNIVERSITY OF MINNESOTA


CURRICULUM GUIDE TO 4-H PROJECTS

1995-96

UNIVERSITY OF MINNESOTA
DOCUMENTS

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DEVELOPMENT
COLLEGE OF EDUCATION

For ordering print, audio/visual,
and other resources in all project areas.

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INTRODUCTION

HOW TO USE THE CURRICULUM GUIDE

DEAR 4-H ORGANIZATIONAL/CLUB OR PROJECT LEADER:

ORGANIZATIONAL/CLUB LEADERS: PLEASE GIVE PROJECT LEADERS A COPY OF THIS INTRODUCTION AS WELL AS A COPY OF THE APPROPRIATE PROJECT SECTION. IT WILL HELP THEM UNDERSTAND HOW TO ORDER MATERIALS FOR THEIR PROJECT.

You have been chosen for the important task of leading a 4-H club or a special project. In your work, you will not only give 4-H'ers some specific information, but you also will help them develop skills they will use throughout their lives, such as...

- * general skills and knowledge
- * leadership skills
- * communication skills
- * opportunities for community service
- * decision-making skills
- * responsibility and cooperation
- * social and recreational skills
- * family orientation

If you can coordinate a well-planned program that includes a variety of teaching techniques, your 4-H experience will be memorable for you and your 4-H members.

Both the Minnesota Extension Service and your county extension office are available to help you. You can receive resources such as...

- * leader workshops
- * project materials
- * extension publications
- * 4-H project meeting guides
- * slide-tape sets
- * films
- * videotapes

This curriculum includes audio-visual resources as well as publications. Visual aids should be ordered through your county extension office. You can order materials by using the space in the margin next to each listing. Some pieces include a charge. Please order only the materials that you and your group will use.

Each extension office has its own methods and procedures for handling literature and visual aids. The organizational leader should decide whether he/she will order all materials or permit project leaders to order their own materials. You may wish to organize a club or family lending library rather than supply copies to everyone. A junior leader or assistant adult leader could be assigned that responsibility.

Upon enrollment, your club's organizational leader should receive member manuals and appropriate leader guides. Supplemental publications, project meeting guides, and audio-visuals should be ordered as needed. Adult extension subject matter materials also may be ordered from your county extension office.

UNDERSTANDING THE CODES

The code before each item tells you where the item originated and describes its format. If the first two letters are "4H," the item was produced by the Center for 4-H Youth Development. Other sources frequently cited include Human Ecology (HE), Natural Resources (NR) and Agriculture (AG).

Format is indicated by the second set of letters.

PRINT CODES INCLUDE:

- * **FS** – fact sheet - 1 sheet, 2 sides
- * **FO** – folder - 4-16 pages
- * **BU** – bulletin - 17+ pages
- * **MI** – miscellaneous publication - odd sized, or a form to fill out
- * **ED** – publication educational package
- * **PC** – publication collection
- * **MR** – Minnesota Reports from the Agricultural Experiment Station
- * **SB** – station bulletin from the Agricultural Experiment Station
- * **RR** – Research Regional bulletin from the Agricultural Experiment Station

AUDIO/VISUAL CODES INCLUDE:

- * **AT** – audio cassette
- * **FM** – 16mm film
- * **OT** – overhead transparencies
- * **SS** – slide set
- * **VH** – 1/2" videocassette (VHS)
- * **EP** – educational package - more than one medium, such as a combination of video and print piece

The last four digits in the item number are a reference number assigned only to that item. Examples:

- 4H-BU-1234 - Bulletin produced by 4-H
- AG-SS-6789 - Slide set produced by Agriculture

PRICE CODE:

The letter in parentheses after the item number and title indicates the price of the item. See your County Extension Office for current prices associated with each letter code.

Note: price codes are not identified with audio visual materials. These codes refer to publications only.

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GENERAL 4-H MATERIAL

Extension Educator Support

Camping

Organizational Leader Support

Educational Methods

General 4-H Records

Human and Family Development

Promotion and Enrollment Materials

Recognition Items

Volunteer Empowerment

The materials listed in this section will help you with general leadership and organizational matters. You should also look through the materials available for project leaders in the various subject areas so you can make suggestions as appropriate.

EXTENSION EDUCATOR SUPPORT

UNIVERSITY OF MINNESOTA SPECIALIST SUPPORT:

Sheryl Nefstead, 4-H Youth Development Educator

EXTENSION EDUCATOR LITERATURE:

Volunteer Leadership Systems

___ 4H-BU-2170 Designing and Developing 4-H Volunteer Leadership Systems (F)

Member Educational & Recognition Opportunities

The following publication is available from the Center for 4-H Youth Development:

4-H Scholarship Handbook

Volunteer Leader Training

___ 4H-MI-6047 Minnesota 4-H: Building Effective Leadership (S)

Available from extension educators specializing in volunteerism:

T³ -Train the Trainer. A curriculum focusing on educational methods for volunteers.

AUDIO/VISUAL MATERIALS:

___ 4H-VH-5948 Volunteer Risk Management Videoconference, April 9, 1992

CAMPING

UNIVERSITY OF MINNESOTA SPECIALIST SUPPORT:

Stephan Carlson, 4-H Youth Development Educator

PUBLICATIONS:

4-H Camp Counselor Handbook. Limited quantities available from the Center for 4-H Youth Development.

___ 4H-MI-3387 Minnesota 4-H Songbook (small print version) (S)
___ 4H-MI-3388 Minnesota 4-H Songbook (large print version, spiral bound) (S)

(These items were distributed free to county extension offices. Only a few retail copies remain in the Distribution Center.)

Request the following items from the 4-H Natural Resources Educator, the Center for 4-H Youth Development:

Natural Resources Education: An Outdoor Education Resource for the Minnesota 4-H Camping Program
Man of the Year . . . Planet Earth: 1989 4-H Camping Workshop Pre-Training

Global Awareness Camping Handbook. 1988. Available from the Center for 4-H Youth Development. Contact David Pace.

Camp and Program Leader Catalog. American Camping Association, Bradford Woods, 5000 State Road 67 North, Martinsville, IL 46151-7902, (800) 428-CAMP. Free catalog includes descriptions of resource books for camping, along with ordering information.

AUDIO/VISUAL MATERIALS:

The following series provides leaders with numerous methods of making natural resource education fun and exciting for youth:

- _____ 4H-VH-3941 Teaching Natural Resources, Volume I
- _____ 4H-VH-3924 Teaching Natural Resources, Volume II
- _____ 4H-VH-3943 Teaching Natural Resources, Volume III
- _____ 4H-SS-3838 Acid Rain: What It Is . . . What It Isn't

ORGANIZATIONAL LEADER SUPPORT

UNIVERSITY OF MINNESOTA
SPECIALIST SUPPORT:

Sheryl Nefstead, 4-H Youth Development Educator

LEADER LITERATURE:

4-H Club Leadership Team

- _____ 4H-MI-2349 4-H Today/4-H Project Selection Guide (S)
- _____ 4H-BU-2170 Designing and Developing Volunteer Leadership Systems (F)
- _____ 4H-MI-3409 Curriculum Guide to 4-H Projects (F)

4-H Club Officers

- _____ 4H-BU-2766 The Meeting Will Come to Order (C)
- _____ 4H-BU-0064 Training Handbook for 4-H Club Officers (F)
- _____ 4H-MI-0065 On Our Way to Better Meetings (C)
- _____ 4H-BU-0066 A Handbook for Effective Meetings (D)

AUDIO/VISUAL MATERIALS:

- _____ 4H-VH-5519 Committees Concerned About Kids—Parts 1 & 2
- _____ 4H-SS-2450 Conducting Effective 4-H Meetings
- _____ 4H-SS-2414 Routes to Better 4-H Meetings
- _____ 4H-VH-3478 Strengthening Local 4-H Groups (includes teaching guide)
- _____ 4H-VH-3525 Recognition for Excellence: Planning a 4-H Project (includes teaching guide)
- _____ 4H-VH-3749 Single-Parent and Blended Families: How the Schools Can Help
- _____ 4H-VH-3734 Making Points

EDUCATIONAL METHODS

UNIVERSITY OF MINNESOTA
SPECIALIST SUPPORT:

A. Public Presentation

Public Speaking and Demonstrations. Carol Shields, 4-H Youth Development Educator

B. Graphics

Exhibits and Posters. Carol Shields, 4-H Youth Development Educator

C. Judging

Animal Science. Brad Rugg, 4-H Youth Development Educator

MEMBER LITERATURE:

A. Public Presentations

Demonstrations

- _____ 4H-FO-0057 Getting Started in 4-H Demo-Talks (C) (Nebraska) (for ages 9-12)
- _____ 4H-MI-0058 4-H Demonstration Check Sheet (A)
- _____ 4H-MI-0059 4-H Demonstration Planning Sheet (A)
- _____ 4H-FO-0061 4-H Communication Program Leader's Guide (D)
- _____ 4H-FO-0060 4-H Communication Program Member's Manual (for ages 13-19) (C)

Public Speaking

- _____ 4H-BU-0061 4-H Communication Program (Leader's Guide) (D)

B. Group Process

Group Meetings

- _____ 4H-BU-0064 Training Handbook for 4-H Club Officers (F)
- _____ 4H-BU-0065 On Our Way to Better Meetings (C)
- _____ 4H-BU-0066 A Handbook for Effective Meetings (D)
- _____ 4H-BU-2766 The Meeting Will Come to Order (C)

C. Graphics

Exhibits and Posters

- _____ 4H-BU-0182 4-H Seen at the Fair (Leader's Guide) (F)

D. Judging

- _____ 4H-MI-0067 Judging Cards (yellow) (A)
- _____ 4H-MI-0068 Judging Cards (green) (A)
- _____ 4H-MI-0069 Judging Cards (grey) (A)
- _____ 4H-MI-0070 Judging Cards (pink) (A)
- _____ 4H-MI-0071 Judging Cards (blue) (A)
- _____ 4H-MI-0927 Judging Cards (orange) (A)
- _____ 4H-MI-0072 Judging Cards (white) (A)
- _____ 4H-FO-0073 4-H Judging . . . a Learning Experience (B)
- _____ 4H-MI-0074 Minnesota 4-H Judging Placing Card (A)
- _____ 4H-MI-0075 Minnesota 4-H Oral Reasons Note Card (A)

AUDIO/VISUAL MATERIALS:

- ___ 4H-SS-2450 Conducting Effective 4-H Meetings
- ___ 4H-SS-2414 Routes to Better 4-H Meetings
- ___ 4H-VH-5515 A Guide to Livestock Judging and Evaluation: Section on Oral Reasons
- ___ 4H-VH-5516 A Guide to Oral Reasons and Note-taking in Livestock Judging Contests
- ___ 4H-VH-3833 Introduction to Meat Judging
- ___ 4H-VH-3834 Judging Steers
- ___ 4H-VH-3547 4-H Conference Judging: How to Be a Judge
- ___ 4H-VH-3546 4-H Conference Judging: Roles of the Judge
- ___ 4H-VH-5535 Building Group Skills: Agendas/Environments
- ___ 4H-VH-5536 Building Group Skills: Delegating
- ___ 4H-VH-5537 Building Group Skills: Forming a Group
- ___ 4H-VH-5538 Building Group Skills: Using Networks
- ___ 4H-VH-3637 Staying Tough: The Winning Attitude

GENERAL 4-H RECORDS

UNIVERSITY OF MINNESOTA SPECIALIST SUPPORT:

Sheryl Nefstead, 4-H Youth Development Educator

LEADER LITERATURE:

- ___ 4H-FO-0041 4-H Participation Record (B)
- ___ 4H-MI-0042 4-H Member Achievement Report (E)
- ___ 4H-MI-0043 My 4-H Project Record (A)
- ___ 4H-BU-0032 4-H Secretary's Record Book (F)
- ___ 4H-MI-0033 Treasurer's Record Book (C)

AUDIO/VISUAL MATERIALS:

- ___ 4H-VH-2733 4-H Club Projects

HUMAN AND FAMILY DEVELOPMENT

(See also Personal Growth & Development, pp. 33-38)

UNIVERSITY OF MINNESOTA SPECIALIST SUPPORT:

*Joyce Walker and Laurie Jensen,
4-H Youth Development Educators*

MEMBER/LEADER LITERATURE:

- ___ 4H-FS-3083 Adolescent Stress and Depression (A)
- ___ 4H-FS-3081 Supporting Young People Following a Suicide (A)
- ___ 4H-MI-3268 Fragile Time, Discussion Guide (C)
- ___ 4H-FS-3269 Help During a Fragile Time (A)
- ___ 4H-FS-3228 Alcohol Decisions (A)
- ___ 4H-FS-3130 Taking Care of Yourself—Understanding Stress (A)
- ___ 4H-FS-3131 Taking Care of Yourself—Managing Stress (A)
- ___ 4H-EP-6113 Circle of Support: A Community-based Prevention and Intervention Model for Adolescent Mental Health. The 6 manuals and 3 videos address self-destructive behavior in adolescents through education of parents, peers, school personnel, and community professionals (S)
 - a. Building a Circle of Support—Program overview
 - b. Adults Who Care—Training for parents and teachers
 - c. Tackling Tough Stuff—Curriculum for young people 12-19
 - d. Reaching In, Reaching Out—Counseling support groups
 - e. Teens Helping Teens—Peer helper training
 - f. Teen Teachers—Cross-age teaching on friendshipThe videos "Faces of Depression" and "Puzzle Pieces" are designed for adult audiences. "Helping Troubled Teens" contains three teaching segments to use with student materials. The instructional slide set accompanies Adults Who Care.

Common Ground is a series of 4-H projects designed for children and youth with disabilities. The following units are now available in the MES Distribution Center:

- ___ 4H-MI-3446 4-H Common Ground Program, Health and Grooming, Leader's Guide (S)
- ___ 4H-MI-3447 4-H Common Ground Program, Safety, Leader's Guide (S)
- ___ 4H-MI-3448 4-H Common Ground Program, Personal Management, Living as if People Mattered, Leader's Guide (S)
- ___ 4H-MI-3449 4-H Common Ground Program, Clothing Care and Repair, Leader's Guide (S)
- ___ 4H-MI-3450 4-H Common Ground Program, Woodworking, Leader's Guide (S)
- ___ 4H-MI-3451 4-H Common Ground Program, Home Care and Repair, Leader's Guide (S)
- ___ 4H-MI-3454 4-H Common Ground Program, Horticulture, Leader's Guide (S)

AUDIO/VISUAL MATERIALS:

- ___ HE-VH-2772 Family Matters
- ___ HE-VH-2780 A Family's Fall
- ___ HE-VH-2609 Managing Family Stress in Hard Times (Helping Others Deal With Change)

PROMOTION AND ENROLLMENT MATERIALS

PROJECT NUMBER/PHASE:

The 4-H Publicity and Promotion area is not a formal project. A member might wish to study a specific area as a self-determined project or as an emphasis for the Junior Leadership Project. There are support materials available that can be used for a variety of audiences.

Publicity—General

- ___ 4H-MI-3716 4-H for People Like Me! (C)
- ___ 4H-MI-5748 More Than You Ever Imagined (pocket folder) (D)
- ___ AD-BU-2538 Communication Guides (E)
- ___ AD-MI-6052 Writing for a Changing World (A)

Photography (See PHOTOGRAPHY in the Expressive and Communication Arts section.)

- ___ AD-FS-1486 Close-Up Photography (A)
- ___ AD-FS-2175 Selecting a Camera (A)

Events & Activities

- ___ 4H-MI-0040 4-H Health Information Card (A)

ENROLLMENT LITERATURE:

- ___ 4H-MI-0029 4-H Leader Enrollment (Junior Leader and Adult) (A)
- ___ 4H-MI-0028 4-H Member Enrollment (A)
- ___ 4H-MI-2767 4-H Member Re-enrollment Computer Form (A)
- ___ 4H-MI-2768 4-H Leader Re-enrollment Computer Form (A)
- ___ 4H-MI-0030 4-H Group Enrollment (A)

AUDIO/VISUAL MATERIALS:

- ___ 4H-VH-2733 4-H Club Projects
- ___ AD-FM-4952 Helping People Help Themselves

RECOGNITION ITEMS

UNIVERSITY OF MINNESOTA SPECIALIST SUPPORT:

Sheryl Nefstead, 4-H Youth Development Educator

MEMBER LITERATURE:

- ___ 4H-MI-0018 Minnesota 4-H Key Award Application Blank (B)
- ___ 4H-MI-0019 Minnesota 4-H Key Award Brochure (A)
- ___ 4H-MI-0005 Minnesota 4-H Key Award (certificate) (A)
- ___ 4H-MI-0001 4-H Certificate of Appreciation (A)
- ___ 4H-MI-0003 4-H Certificate of Participation (A)
- ___ 4H-MI-0006 4-H Graduation Certificate (A)
- ___ 4H-MI-0004 Certificate of Junior Leadership (A)
- ___ 4H-MI-2710 4-H Certificate of Participation (4-H Foods and Nutrition Project) (A)

LEADER LITERATURE:

- ___ 4H-MI-0008 4-H Silver Clover Award (S)
- ___ 4H-MI-0009 4-H Gold Clover Award (S)
- ___ 4H-MI-0010 4-H Pearl Clover Award (S)
- ___ 4H-MI-0011 4-H Diamond Clover Award (S)
- ___ 4H-MI-0012 4-H Emerald Clover Award (S)
- ___ 4H-MI-0013 4-H Ruby Clover Award (S)
- ___ 4H-MI-0014 4-H Sapphire Clover Award (S)
- ___ 4H-MI-0007 Certificate of 4-H Adult Leadership (A)
- ___ 4H-MI-0002 Certificate of 4-H Recognition (A)

CLUB LITERATURE:

- ___ 4H-MI-0015 4-H Club Charter (A)
- ___ 4H-MI-0016 Silver Anniversary 4-H Club Charter (A)
- ___ 4H-MI-0017 Golden Anniversary 4-H Club Charter (A)

VOLUNTEER EMPOWERMENT

Sheryl Nefstead, 4-H Youth Development Educator

(See p. 1 for Extension Materials)

These selected bibliographies were compiled by the Mississippi Cooperative Extension Service through a grant from National 4-H Council and W.K. Kellogg. It supports the pRK project and the Volunteer for the Future project.

REFERENCES FOR EXTENSION EDUCATORS:

The Best of VAL: A Collection from the First Five Years of Voluntary Action Leadership (1975-1979). Hanlon, B. (Ed.). (1980). Arlington, VA: Volunteer Readership.

Beyond Banquets, Plaques and Pins: Creative Ways to Recognize Volunteers & Staff. Vineyard, S. (1981). Downers Grove, IL: Heritage Arts.

Effective Leadership in Voluntary Organizations: How to Make the Greatest Use of Citizen Service and Influence. O'Connell, B. (1976). New York: Walker & Company.

The Effective Management of Volunteer Programs. Wilson, M. (1975). Boulder, CO: Johnson Publishing Co.

Helping People Volunteer. Rauner, J. (1980). San Diego, CA: Marlborough Publications.

Keys to Making a Volunteer Program Work: A Guide for Organizations that Use Volunteers. Brown, K.M. (1982). Richmond, CA: Arden Publications.

Key Volunteers Strengthen the 4-H Program. Snider, A.B. (1984, November). Paper presented at NAE4-HA Conference Seminar, Chicago, IL.

Managing Volunteers for Results. Public Management Institute. (1979). San Francisco: Author.

Motivating Volunteers: How the Rewards of Unpaid Work Can Meet People's Needs. Moore, L.F. (Ed.) (1985). Vancouver, B.C.: Vancouver Volunteer Centre.

Step by Step: Management of the Volunteer Program in Agencies. MacBride, M. (1979). Bergen County, NJ: Volunteer Bureau of Bergen County.

Survival Skills for Managers. Wilson, M. (1981). Boulder, CO: Johnson Publishing Co.

The Volunteer Skillsbank: An Innovative Way to Connect Individual Talents to Community Needs. Saccomandi, P. & Host, B.R. (Ed.). (1981). Arlington, VA: Volunteer, the National Center for Citizen Involvement.

Volunteer Training and Development. Stenzel, A.K. & Feeney, H.M. (1976). New York: The Seabury Press.

Volunteers as Middle Managers. Schwertz, C. (1978, November-December). Journal of Extension, 16, 23-29.

Volunteers Today: Finding, Training and Working with Them. Naylor, H.H. (1973). New York: Dryden Associate.

MIDDLE MANAGEMENT TRAINING MATERIALS:

Family Community Leadership Notebook. Western Rural Development Center (ND). Oregon State University, Corvallis.

Managing 4-H: A Handbook for Illinois Extension Advisors. Knapp, S. and Munso,

M.K. (1982, August). Cooperative Extension Service, University of Illinois, Urbana-Champaign.

Managing Volunteers Programs. Family Community Leadership. (1985). Western Rural Development Center, Oregon State University, Corvallis. Minnesota contact for materials: Carol Shields, 4-H Youth Development, Minnesota Extension Service, University of Minnesota, or Donna Rae Scheffert.

A Middle Management Approach to 4-H Staffing. Sterling, J.C. (1984). Massachusetts 4-H Center, 7 Ashland, MA.

Training Volunteer Leaders: A Handbook to Train Volunteers and Other Leaders. National Council of Y.M.C.A.s (1974). New York: Author.

Volunteer Middle Management in 4-H. Cook, M.J. & Otte, H.R. (1982). Cooperative Extension Service, Pennsylvania State University, University Park.

BOARDS AND COMMITTEES LITERATURE:

The Advisory Council Chairperson and the Advisory Council: A Guide. Swanson, A.P. (1982). Providence, RI: Community Services Consultants, Ltd.

Advisory Councils: A Theoretical and Practical Guide for Program Planners. Cole, J.M. & Col, M.F. (1983). Englewood Cliffs, NJ: Prentice-Hall.

The Art of Board Membership. Sorenson, R. (1950). New York: Association Press.

The Board Members Book. O'Connell, B. (1985). New York: The Foundation Center.

Building the Board: A Manual on Recruiting and Molding Effective Board Members for Your Organization. Trecker, H.B. (1954). New York: National Publicity Council for Health and Welfare Services.

The Determinative Team: A Handbook for Board Members of Volunteer Organizations. Swanson, A. (1978). Hicksville, NY: Exposition Press.

The Effective Board. Houle, C.O. (1960). New York: Association Press.

Effective County 4-H Councils: A Guide to the Organization and Function. Jeffers, D.C. (1983). Cooperative Extension Service, University of Kentucky.

The Effective Voluntary Board of Directors. Conrad, W.R., & Glenn, W.E. (1983). Athens, OH: Swallow Press.

Managing Nonprofit Agencies for Results: A Systems Approach to Long-range Planning. Hennessey, P. (1978). San Francisco: Public Management Institute.

The Nonprofit Board Book: Strategies for Organizational Success (revised edition). Anthes, E., Cronin, J., & Jackson, M. (Eds.). (1985). West Memphis and Hampton, AR: Independent Community Consultants.

BOARDS AND COMMITTEES TRAINING MATERIALS:

Board Member Trustee Handbook. (1980). San Francisco: Public Management Institute.

Developing Effective and Efficient Local Committees. Dyer, D.W. & Williams, O.M. (1979). Cooperative Extension Service, Virginia Polytechnic Institute and State University, Blacksburg, VA.

Extension Advisory Council: A Handbook for County Extension Agents. Sharpe, D. (1983, October). Cooperative Extension Service, Montana State University, Bozeman, MT.

Organizational Development: A Guide. (ND). Cooperative Extension Service, University of Missouri, Columbia, MO.

Taking Your Meeting Out of the Doldrums. Schindler-Rainman, E. & Lippitt, R. (1977). La Jolla, CA: University Associates.

PRINTED MATERIALS:

_____ 4H-MI-6047 Minnesota 4-H: Building Effective Leadership (S)

Also refer to leader literature section of 4-H Club Organizational Leaders Support.

AUDIO/VISUAL MATERIALS:

_____ 4H-VH-5948 Volunteer Empowerment

County 4-H Councils—Committees Concerned About Youth. Seven section videotape with accompanying teaching guide. Produced by University of Kentucky. Available for loan from extension educators specialized in volunteerism.

Also refer to audio-visual materials in 4-H Club Organizational Leaders Support.



ANIMAL SCIENCES

Beef

Cat

Dairy

Dog

Goat

Horse

Pets

Poultry

Rabbits

Sheep

Swine

Veterinary Science

The 4-H Animal Science projects include experiences such as selecting, feeding, managing, caring for, evaluating, training, and showing animals. Through participation in these projects in a family or project group setting, 4-H members develop the following important life skills:

- * relating to change
- * learning how to learn
- * getting along with others
- * making decisions
- * developing responsibility, patience, and pride of ownership
- * developing leadership ability, sportsmanship, and speaking ability
- * exploring careers

PROGRAMS AND ACTIVITIES:

Judging Contests—Members may participate in a wide variety of judging contests from the local club to the national level. Team judging is available for general livestock, meats, dairy, rabbit, poultry, and horse.

Project Bowls—Regional and state competition is available for county teams in horse, general livestock, dairy, rabbit, dog, and poultry. Horse, dairy, and poultry also have national project bowls.

Fairs and Shows—Most projects may be exhibited at county and state fairs. Interstate shows such as AK-SAR-BEN also are popular. Regional and state matches are available in the dog project.

Animal Science Extravaganza—Formerly called Animal Science Workshop, the June Extravaganza allows high school 4-H'ers to explore the latest technology, to practice leadership skills, to learn about career opportunities, and to have fun. Programs are offered in all species areas.

State 4-H Horse Leaders Forum—Volunteer leaders from each Minnesota county meet every other year to receive training and share ideas that are in turn shared with project leaders, members, and parents.

State 4-H Small Animal Cluster Training Team Forum—Cluster county teams meet every other year to receive training that they share with project leaders and junior leaders in their clusters.

BEEF

UNIVERSITY OF MINNESOTA SPECIALIST SUPPORT:

*Brad Rugg, 4-H Youth Development
Educator*
*Brent Woodward, Extension Animal
Scientist, Beef Production Systems*

BULLETINS AND RECORDS:

- ___ 4H-BU-6351 Bite into Beef, Beef Level I (S)
- ___ 4H-BU-6352 On the Mooove, Beef Level II (S)
- ___ 4H-BU-6353 Leading the Charge, Beef Level III (S)
- ___ 4H-MI-0078 4-H Animal Science Record for Beginning Members (for ages 9-11) (1/year) (B)
- ___ 4H-MI-1945 4-H Livestock Project Intermediate and Advanced Members Record, Beef, Sheep, and Swine (B)
- ___ 4H-MI-0080 Minnesota 4-H Market and Breeding Livestock Identification and Weight Affidavit (A)

1001 Beef Steer

1002 Breeding Heifer

- ___ 4H-MI-5557 Minnesota 4-H Breeding Beef and Cow/Calf Lease Agreement (A)

1003 Market Heifer

1004 Cow/Calf

- ___ 4H-MI-0089 Minnesota Beef Improvement Program Individual Cow Record (Phase 1004—1/animal/lifetime) (A)
- ___ 4H-MI-5557 Minnesota 4-H Breeding Beef and Cow/Calf Lease Agreement (A)

1005 Feeder Calf

1006 Dairy Steer

LEADER LITERATURE:

- ___ 4H-BU-6350 Exploring Farm Animals (S)
- ___ 4H-BU-6354 Beef Group Activity Guide (S)

SUPPLEMENTARY PUBLICATIONS:

- ___ 4H-MI-0091 Minnesota 4-H Beef Parts Crossword Puzzle (1/career) (A)
- ___ 4H-MI-0090 Minnesota 4-H Beef Chart (1/project group) (C)
- ___ 4H-FO-0087 Fitting and Showing Beef Cattle (NCR 156) (C)
- ___ 4H-BU-2181 Minnesota 4-H Calf Pattern (F)
- ___ 4H-MI-2738 Animals in Pursuit Game (S)
- ___ AG-MI-0688 Dark-Cutting Beef (C)

Minnesota Farmer's Care—An overview of Minnesota's Animal Agriculture Industry. Order 36-page publication directly from Minnesota Farmer for Animal Agriculture, 2469 University Avenue, St. Paul, MN 55114.

Kansas 4-H Beef Curriculum Notebook. Total of 82 project meeting guides from level I-IV. Order directly from Curriculum Notebooks, State 4-H Office, 201 Umberger Hall, KSU, Manhattan, KS 66506-3404 (\$50 each).

Cornell Beef Production Reference Manual Fact Sheets. Available from county office for livestock project bowl:
1060 Vitamin Requirements of Beef Cattle
1091 Livestock Water Quality
1250 Producing Beef from Holstein Steers
5400 Beef Cattle Reproduction
5420 Developing a Management System to Improve Beef Reproductive Efficiency
5500 Selecting a Breed of Beef Cattle
5410 Calving Difficulty in Beef Cattle

AUDIO/VISUAL MATERIALS:

- ___ 4H-VH-3635 Retail Meat Cut Identification
- ___ 4H-VH-5518 Cattle Handling and Transportation.
- ___ 4H-VH-6114 Animal Welfare/Animal Rights

CAT

UNIVERSITY OF MINNESOTA SPECIALIST SUPPORT:

*Brad Rugg, 4-H Youth Development
Educator*

BULLETINS AND RECORDS:

- ___ 4H-BU-6146 Purrr-fect Pals!, Cat Level I (S)
- ___ 4H-BU-6147 Climbing Up, Cat Level II (S)
- ___ 4H-BU-6148 Cat Connections, Cat Level III (S)
- ___ 4H-MI-0078 4-H Animal Science Record for Beginning Members (B)

The DAD'S Guide to Care. Order directly from DAD'S Professional Services, P.O. Box 451, Meadville, PA 16335 (50 cents/copy).

1101 Cat

LEADER LITERATURE:

- ___ 4H-BU-6149 Cat Group Activity Guide (S)
- ___ 4H-BU-6350 Exploring Farm Animals (S)

The DAD'S Guide to Care. Order directly from DAD'S Professional Services, P.O. Box 451, Meadville, PA 16335 (50 cents/copy).

SUPPLEMENTARY PUBLICATIONS:

- ___ 4H-MI-5964 Minnesota 4-H Small Animal Lease Agreement—Cat, Pet, Poultry, Rabbit (A)

DAIRY

UNIVERSITY OF MINNESOTA SPECIALIST SUPPORT:

*Brad Rugg, 4-H Youth Development
Educator*
*Jeffrey Reneau, Extension Animal
Scientist, Dairy Management*

BULLETINS AND RECORDS:

- ___ 4H-BU-6154 Dig into Dairy, Dairy Level I (S)
- ___ 4H-BU-6155 Moooving Ahead, Dairy Level II (S)
- ___ 4H-BU-6156 Leading the Way, Dairy Level III (S)
- ___ 4H-MI-0078 4-H Animal Science Record for Beginning Members (B)
- ___ 4H-MI-2628 4-H Dairy Project Record for Intermediate and Advanced Members (B)
- ___ 4H-MI-2400 Members 4-H Dairy Cattle Ownership Affidavit (A)
- ___ 4H-MI-3460 4-H Dairy Cattle/Dairy Goat Lease Agreement (A)

1150 Adventures in Dairyland

- ___ 4H-BU-0094 Adventures in Dairyland (F)

1151 Calf

1152 Junior Yearling

1153 Senior Yearling

1154 Two Year Old

1155 Advanced

1156 Herd Management

- ___ 4H-FS-0099 4-H Lifetime Dairy Cattle Summary (1/animal/lifetime) (A)

LEADER LITERATURE:

- ___ 4H-BU-6157 Dairy Group Activity Guide (S)
- ___ 4H-BU-6350 Exploring Farm Animals (S)

SUPPLEMENTARY PUBLICATIONS:

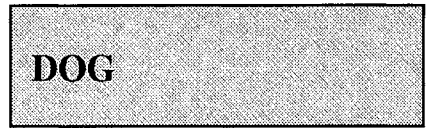
- ___ 4H-MI-0101 Minnesota 4-H Dairy Chart (C)
- ___ 4H-MI-0096 Dairy Member Summary (A)
- ___ 4H-BU-2181 Minnesota 4-H Calf Pattern (F)
- ___ 4H-MI-0102 Minnesota 4-H Dairy Parts Crossword Puzzle (1/member) (A)

- ___ 4H-MI-2738 Animals in Pursuit Game (S)
- ___ AG-BU-0469 Feeding the Dairy Herd (F)
- ___ AG-BU-2196 Raising Dairy Replacements (S)

Uniform Scorecard for Judging Junior Dairy Fitting & Showmanship Contest. Order directly from Pure Bred Dairy Cattle Assn., c/o Brad Ellsworth, P.O. Box 160, Cabool, MO 65689.

AUDIO/VISUAL MATERIALS:

- ___ 4H-VH-3633 The Dairy Industry
- ___ AG-VH-3163 Dairy Calf Management: Feeding and Nutrition
- ___ AG-VH-3705 Boosting Herd Genetics
- ___ AG-VH-3457 Dairy Cattle Evaluation Techniques
- ___ AG-VH-3643 Heat Detection in Dairy Cows
- ___ AG-VH-3710 Managing Reproduction
- ___ AG-VH-3709 Managing Mastitis Profitably
- ___ 4H-VH-6114 Animal Welfare/Animal Rights



UNIVERSITY OF MINNESOTA SPECIALIST SUPPORT:

Brad Rugg, 4-H Youth Development Educator
Michael Pullen, Extension Meat Hygienist

BULLETINS AND RECORDS:

1201 Dog

- ___ 4H-BU-6150 Wiggles 'n' Wags, Dog Level I (S)
- ___ 4H-BU-6151 Bounding Ahead, Dog Level II (S)
- ___ 4H-BU-6152 Pointing the Way, Dog Level III (S)
- ___ 4H-MI-0104 My 4-H Dog Project Record (1/year) (B)
- ___ 4H-MI-0114 4-H Dog Project Show and Activity Sheet (A)

- ___ 4H-PC-0111 Minnesota 4-H Dog Show Guide (E)
- ___ 4H-FO-0110 Dog, Minnesota 4-H Dog Member Advancement Program (1/career) (C)
- ___ 4H-MI-5578 Minnesota 4-H Dog Project Health Certificate (A)

LEADER LITERATURE:

- ___ 4H-BU-6153 Dog Group Activity Guide (S)
- ___ 4H-PC-0111 Minnesota 4-H Dog Show Guide (E)
- ___ 4H-BU-6350 Exploring Farm Animals (S)

SUPPLEMENTARY PUBLICATIONS:

General

DAD'S Guide to Dog Care. Junior Dog project bowl resource—82 pages. Order directly from DAD's Professional Services, P.O. Box 451, Meadville, PA 16335 (50 cents/copy).

- ___ 4H-MI-0121 Minnesota 4-H Dog Chart (1 per club) (C)
- ___ 4H-MI-0122 Minnesota 4-H Dog Parts Crossword Puzzle (1/member) (A)
- ___ 4H-MI-2738 Animals in Pursuit Game (S)

Training

- ___ 4H-BU-0105 Training Your Dog for Family Living (1st year) (S)
- ___ 4H-BU-0106 Grooming and Handling Dogs (2nd year) (S)
- ___ 4H-BU-0107 The Care of Dogs and Puppies (2nd year) (S)
- ___ 4H-BU-0108 Dog Obedience Training Lessons for Beginners, Graduate Beginners, Brace and Team (1st year) (S)
- ___ 4H-BU-0109 Dog Obedience Training Lessons for Novice, Graduate Novice, Open and Utility (3rd year) (S)

AUDIO/VISUAL MATERIALS:

- ___ 4H-VH-6114 Animal Welfare/Animal Rights

GOAT

UNIVERSITY OF MINNESOTA SPECIALIST SUPPORT:

*Brad Rugg, 4-H Youth Development
Educator*

BULLETINS AND RECORDS:

- ___ 4H-BU-6162 Getting Your Goat, Goat Level I (S)
- ___ 4H-BU-6163 Stepping Out, Goat Level II (S)
- ___ 4H-BU-6164 Showing the Way, Goat Level II (S)
- ___ 4H-MI-0078 4-H Animal Science Record for Beginning Members (9-11 years old—1/year) (B)
- ___ 4H-MI-2616 4-H Dairy Goat Project Record for Intermediate and Advanced Members (12-18 years old—1/year) (B)
- ___ 4H-MI-2694 4-H Lifetime Dairy Goat Summary (A)
- ___ 4H-MI-2695 Minnesota 4-H Dairy Goat Ownership Affidavit (A)

1251 Goat

LEADER LITERATURE:

- ___ 4H-BU-6165 Goat Group Activity Guide (S)
- ___ 4H-BU-6350 Exploring Farm Animals (S)

SUPPLEMENTARY PUBLICATIONS:

- ___ 4H-MI-3460 Minnesota 4-H Dairy Cattle/Dairy Goat Lease Agreement (A)
- ___ 4H-MI-0125 Minnesota 4-H Dairy Goat Chart (1/leader) (C)
- ___ 4H-BU-0126 Minnesota 4-H Dairy Goat Pattern (1/leader) (F)
- ___ 4H-MI-0124 Minnesota 4-H Dairy Goat Parts Crossword Puzzle (1/member) (A)
- ___ 4H-MI-2738 Animals in Pursuit Game (S)
- ___ AS-125 Playing Animal Pyramid The Extension Goat Handbook by Haeniein Ace. Order directly from USDA, Washington, D.C. (\$30.00) or American Dairy Goat Association Guidebook. Order from

American Dairy Goat Association,
Box 805, Spindale, NC 28160; 704-
286-3801 (\$2.00).

AUDIO/VISUAL MATERIALS:

- ___ AG-VH-2872 Dairy Goat (Introduction to Dairy Goat Production)
- ___ AG-VH-2873 Dairy Goat (Facilities)
- ___ AG-VH-2874 Dairy Goat (Breeding/Prekidding Management/Kidding Management)
- ___ AG-VH-2875 Dairy Goat (Care of Kids: Birth to Weaning)
- ___ AG-VH-2876 Dairy Goat (Maintaining Herd Health/Milking Management)
- ___ AG-VH-2877 Dairy Goat (Marketing/Obtaining Financing)
- ___ 4H-VH-6114 Animal Welfare/Animal Rights

HORSE

UNIVERSITY OF MINNESOTA SPECIALIST SUPPORT:

*Brad Rugg, 4-H Youth Development
Educator*

BULLETINS AND RECORDS:

1301 Horseless

1302 Horse

- ___ 4H-BU-6355 Horsing Around, Horse Level I (S)
- ___ 4H-BU-6356 Galloping Ahead!, Horse Level II (S)
- ___ 4H-BU-6357 Blazing the Way, Horse Level III (S)
- ___ 4H-MI-5549 Minnesota 4-H Horse Project Record for Beginners (B)
- ___ 4H-MI-1941 4-H Horse Project Intermediate and Advanced Members' Record, Horse (C)
- ___ 4H-MI-0132 Minnesota 4-H Horse Identification Form (A)
- ___ 4H-MI-2620 Minnesota 4-H Horse Program Rule Book (1st year) (D)
- ___ 4H-BU-2619 4-H Horsemanship Manual (1st year) (F)
- ___ 4H-BU-0129 Horse Science (4-H Horse Program—3rd year) (S)
- ___ 4H-MI-5550 4-H Horse Health Chart (1/horse) (A)
- ___ 4H-MI-3839 Minnesota 4-H Horse Member Achievement Program (record) (D)

1303 Horse Training Program

- ___ 4H-MI-3840 Minnesota 4-H Horse Training Program (record) (D)

LEADER LITERATURE:

- ___ 4H-BU-6358 Horse Group Activity Guide (S)
- ___ 4H-MI-2620 Minnesota 4-H Horse Program Rule Book (D)
- ___ 4H-BU-6350 Exploring Farm Animals (S)

SUPPLEMENTARY PUBLICATIONS:

- ___ AG-BU-0482 Selecting Your Horse (E) (first year)
- ___ AG-BU-0484 Horse Care and Management (F) (first year)
- ___ AG-FO-0480 Horse Nutrition and Feeding (C) (second year)
- ___ 4H-MI-0134 4-H Performance Horse Judging (C)
- ___ 4H-MI-0133 Preparing a 4-H Horse Judging Team (C)
- ___ 4H-MI-0136 Minnesota 4-H Horse Parts Crossword Puzzle(1/member) (A)
- ___ 4H-MI-0135 Minnesota 4-H Horse Chart (1/club) (C)
- ___ 4H-BU-2627 Minnesota 4-H Horse Pattern (F)
- ___ 4H-MI-2738 Animals in Pursuit Game (S)

The following lessons and worksheets are available directly from the National 4-H Council, National 4-H Supply Service, 7100 Connecticut Ave., Chevy Chase, MD 20815, (301) 961-2394. For ordering information, see The 4-H Catalog, available in the county extension office (first number is lesson, second is worksheet):

- CO-200 Horses and Horsemanship
- CO-401, 501 Genetics of Coat Color of Horses
- CO-402, 502 What a Judge Looks for in Equitation
- CO-403, 503 Controlling Internal Parasites of Horses
- CO-404, 504 Health Hints for Your Horse
- CO-405, 505 Intermediate Trail Riding
- CO-406, 506 Pre-Bit Hackamore Training
- CO-407, 507 Safety: Catching, Leading, Grooming
- CO-408, 508 Safety: Saddling, Bridling, Riding Western
- CO-409, 509 Practical Horse Psychology
- CO-410, 510 Foot Care and Cold Horse-shoeing

- CO-411, 511 Horse Training by Driving
- CO-412, 512 Buying a Horse
- CO-413, 513 Saddle Selections—
Selecting and Using a Saddle
- CO-414, 514 English Saddles: Structure
and Construction
- CO-415, 515 Western Saddles: Structure
and Construction
- CO-416, 516 Long Line Training
- CO-417, 517 Techniques of Line Driving
- CO-418, 518 Braiding the Hunter's Mane
and Tail
- CO-419, 519 Horse Safety for the Hunt
Seat Riders
- CO-420, 520 Western Pleasure Trail
Riding
- CO-421, 521 Competitive Trail Riding
- CO-422, 522 Haltering and Tying Horses
- CO-423, 523 Miscellaneous Tack and
Equipment
- CO-424, 524 Choosing, Assembling, and
Using Bridles
- CO-425, 525 Women on Horseback
- CO-426, 526 Preparing for Horse Pack-
ing
- CO-427, 527 Horse Packing
- CO-428, 528 Martingales, Tie Downs
and Draw Reins
- CO-429, 529 Care of the Horse's Feet
- CO-430, 530 Hot Horseshoeing
- CO-431, 531 Genes for White Patterns
- CO-432, 532 Genes for Colors Except
White
- CA-433, 533 Mounted Drill Teams Part
IA—Forming and Organizing
- CB-433, 533 Mounted Drill Teams Part
IB—Beginning Formations
- CA-434, 534 Mounted Drill Teams Part
IIA—Intermediate Formations
- CO-435, 535 Tips for Pony Pleasure
Drivers
- CO-436, 536 Equine Eyes
- CO-437, 537 Horse Trails—Vision to
Reality
- CO-438, 538 Wild Horse and Burro
Roundup

Minnesota 4-H Horse Program Library Catalog (Jan. 1995) is available at County Extension Offices. It lists books, videos, and other horse materials that may be borrowed for three weeks each at low cost from the Minnesota Horse Program Library. The catalog may be purchased for \$1 from Lynn Watland, Route 1, Box 336, Browerville, MN 56438.

AUDIO/VISUAL MATERIALS:

- ___ 4H-VH-3629 Basic Horse Care
- ___ 4H-VH-3637 Staying Tough: The
Winning Attitude
- ___ 4H-VH-3632 Basic Horsemanship
Vol. I: From the Ground Up
- ___ 4H-VH-6114 Animal Welfare/
Animal Rights

PETS

UNIVERSITY OF MINNESOTA SPECIALIST SUPPORT:

*Brad Rugg, 4-H Youth Development
Educator*
*Michael Pullen, Extension Meat
Hygienist*

BULLETINS AND RECORDS:

1401 Pets

- ___ 4H-BU-6359 Pet Pals, Pet Level I
(S)
- ___ 4H-BU-6360 Scurrying Ahead, Pet
Level II (S)
- ___ 4H-BU-6361 Scaling the Heights,
Pet Level III (S)
- ___ 4H-MI-0078 4-H Animal Science
Record for Beginning Members (for
ages 9-11) (1/year) (B)
- ___ 4H-MI-1943 4-H Pet Project Rec-
ord for Intermediate and Advanced
Members (for ages 12-18) (1/year)
(B)
- ___ 4H-MI-5964 4-H Small Animal
Lease Agreement. (A)

LEADER LITERATURE:

- ___ 4H-BU-6362 Pet Group Activity
Guide (S)
- ___ 4H-BU-6350 Exploring Farm Ani-
mals (S)

SUPPLEMENTARY PUBLICATIONS:

- ___ 4H-MI-2738 Animals in Pursuit
Game (S)

AUDIO/VISUAL MATERIALS:

- ___ 4H-VH-6114 Animal Welfare/
Animal Rights

POULTRY

UNIVERSITY OF MINNESOTA SPECIALIST SUPPORT:

*Brag Rugg, 4-H Youth Development
Educator*
*Melvin Hamre, Extension Animal
Scientist, Poultry*

BULLETINS AND RECORDS:

- ___ 4H-BU-6363 Scratching the Surface,
Poultry Level I (S)
- ___ 4H-BU-6364 Testing Your Wings,
Poultry Level II (S)
- ___ 4H-BU-6365 Flocking Together,
Poultry Level III (S)
- ___ 4H-MI-0078 4-H Animal Science
Project Record for Beginning Mem-
bers (for ages 9-11) (1/year) (B)
- ___ 4H-MI-1946 4-H Poultry Project,
Intermediate and Advanced Mem-
bers Record (for ages 12-18)
(1/career) (B)
- ___ 4H-MI-5964 4-H-Small Animal
Lease Agreement (A)

1501 Chickens

- ___ AG-FS-1188 The Small Flock for
Poultry Meat (1st year) (A)
- ___ AG-FO-0701 Home Processing of
Poultry (2nd year) (C)
- ___ AG-FS-1191 Rearing Chicks and
Pullets for the Small Laying Flock
(1st year) (A)
- ___ AG-FS-1192 The Small Laying
Flock (1st year) (A)
- ___ 4H-MI-0138 4-H Poultry Flock
Record Card (A)
- ___ AG-FS-1182 Evaluating Egg Pro-
duction Hens (A)
- ___ 4H-BU-3937 Poultry Judging (S)

1502 Turkeys

- ___ AG-FO-0701 Home Processing of
Poultry (C)
- ___ 4H-MI-5605 Small Turkey Flock
Management (C)

1503 Ducks

- ___ AG-FS-1189 Raising Ducks (A)
- ___ AG-FO-0701 Home Processing of
Poultry (C)

1504 Geese

- ___ AG-FS-1190 Raising Geese (A)
- ___ AG-FO-0701 Home Processing of
Poultry (C)

1505 Show and Hobby

- ___ AG-FS-1191 Rearing Chicks and
Pullets for the Small Laying Flock
(1st year) (A)
- ___ AG-FS-1192 The Small Laying
Flock (1st year) (A)
- ___ 4H-BU-0139 Pigeons (1st year) (D)
- ___ 4H-BU-0140 Bantams (1st year) (D)
- ___ AG-FO-0631 Hatching and Brood-
ing Small Numbers of Chicks (2nd
year) (B)

LEADER LITERATURE:

- ___ 4H-BU-3937 Poultry Judging (S)
- ___ 4H-BU-6350 Exploring Farm Animals (S)
- ___ 4H-BU-6366 Poultry Group Activity Guide (S)

SUPPLEMENTARY PUBLICATIONS:

- ___ 4H-BU-2350 Minnesota 4-H Chicken Pattern (F)
- ___ 4H-MI-0142 Minnesota 4-H Chicken Chart (C)
- ___ 4H-MI-0143 Minnesota 4-H Chicken Chart Worksheet (A)
- ___ 4H-MI-2738 Animals in Pursuit Game (S)
- ___ AG-FS-3694 Erysipelas in Water Fowl (A)
- ___ AG-FS-3604 Gamebirds (A)
- ___ AG-FS-3605 Farm Flock Poultry (A)
- ___ National 4-H Avian Bowl Manual. Order directly from:
Clemson University, Bulletin Room, Room 62, Poole Agricultural Bldg., Clemson, SC 29634 (\$5.00).

AUDIO/VISUAL MATERIALS:

- ___ AG-VH-3411 Turkey Production: Brooding and Growing Management Techniques
- ___ 4H-VH-6114 Animal Welfare/Animal Rights

RABBITS

UNIVERSITY OF MINNESOTA SPECIALIST SUPPORT:

Brad Rugg, 4-H Youth Development Educator
Charles Christians, Extension Animal Scientist

BULLETINS AND RECORDS:

- ___ 4H-BU-6069 Hop To It, Rabbits Level I (S)
- ___ 4H-BU-6070 A Jump Ahead!, Rabbits Level II (S)
- ___ 4H-BU-6071 Leaps and Bounds, Rabbits Level III (S)

1601 Rabbits

- ___ 4H-MI-0078 4-H Animal Science Record for Beginning Members (for ages 9-11) (1/year) (B)
- ___ 4H-MI-1947 4-H Rabbit Project Record for Intermediate and Advanced Members (for ages 12-18) (11/year) (B)
- ___ 4H-MI-5964 4-H-Small Animal Lease Agreement (A)

LEADER LITERATURE:

- ___ 4H-BU-6072 Rabbit Group Activity Guide (S)
- ___ 4H-BU-6350 Exploring Farm Animals (S)

SUPPLEMENTARY PUBLICATIONS:

- ___ 4H-MI-0145 Minnesota 4-H Rabbit Chart (C)
- ___ 4H-MI-0146 Minnesota 4-H Rabbit Parts Crossword Puzzle (A)
- ___ 4H-BU-1970 Minnesota 4-H Rabbit Pattern (F)
- ___ 4H-MI-2738 Animals in Pursuit Game (S)

Kansas 4-H Rabbit Curriculum Notebook. Contains project meeting guides from levels I-IV. Order directly from Curriculum Notebooks, State 4-H Office, 201 Umberger Hall, KSU, Manhattan, KS 66506-3404 (\$50 each).

AUDIO/VISUAL MATERIALS:

- ___ 4H-SS-2588 4-H Rabbit Showmanship
- ___ 4H-SS-3752 Judging Rabbits
- ___ 4H-VH-6114 Animal Welfare/Animal Rights
- ___ 4H-VH-5635 4-H Rabbit Showmanship and Judging Rabbits

SHEEP

UNIVERSITY OF MINNESOTA SPECIALIST SUPPORT:

Brad Rugg, 4-H Youth Development Educator
Charles Christians, Extension Animal Scientist

BULLETINS AND RECORDS:

- ___ 4H-BU-6367 Lambs, Rams and You, Sheep Level I (S)
- ___ 4H-BU-6368 Shear Delight, Sheep Level II (S)
- ___ 4H-BU-6369 Leading the Flock, Sheep Level III (S)
- ___ 4H-BU-5959 Youth and 4-H Sheep Project (F)
- ___ 4H-MI-0078 4-H Animal Science Record for Beginning Members (for ages 9-11) (1/year) (B)
- ___ 4H-MI-1945 4-H Livestock Project Record for Intermediate and Advanced Beef, Sheep, and Swine Members (for ages 12-18) (1/year) (B)
- ___ 4H-MI-0080 Minnesota 4-H Market and Breeding Livestock Identification and Weight Affidavit (A)

1421 Breeding Ewe

1422 Market Lamb

LEADER LITERATURE:

- ___ 4H-BU-6350 Exploring Farm Animals (S)
- ___ 4H-BU-6370 Sheep Group Activity Guide (S)

SUPPLEMENTARY PUBLICATIONS:

- ___ 4H-FO-0149 Fitting and Showing Sheep (NCR 157—1/career) (B)
- ___ 4H-MI-0151 Minnesota 4-H Sheep Chart (C)
- ___ 4H-BU-0152 Minnesota 4-H Lamb Pattern (E)
- ___ 4H-MI-0153 Minnesota 4-H Sheep Parts Crossword Puzzle (A)
- ___ 4H-MI-2738 Animals in Pursuit Game (S)
- ___ AG-FO-0610 Young Lamb Nutrition and Management (B)
- ___ AG-FO-0611 Avoiding Lambing Season Problems (B)
- ___ AG-FO-1877 Sheep Diseases (B)
- ___ AG-FO-0730 Starting or Expanding Your Sheep Flock (B)
- ___ AG-FO-0855 Sheep Flock Calendar of Management Decisions (C)
- ___ AG-FO-3237 Sheep Pastures for the Midwest (C)
- ___ AG-FO-3430 Potential for a Dairy Sheep Industry in the Midwest (B)
- ___ AG-FO-0646 Strategies for Feeding the Ewe Flock (C)
- ___ AG-FO-0609 Choosing a Profitable Breed of Sheep (B)

Sheep Industry Development Handbook. Obtain from county extension office or write to Sheep Industry Development Program, Department P788, Clayton Street, Denver, CO 80206. Used for Livestock Project Bowl reference. (Reproduction section, 1-14, Nutrition Section, 1-15.)

Minnesota Farmer's Care—An overview of Minnesota's Animal Agriculture Industry. Order 36-page publication directly from Minnesota Farmer for Animal Agriculture, 2469 University Avenue, St. Paul, MN 55114.

AUDIO/VISUAL MATERIALS:

- ___ 4H-VH-6114 Animal Welfare/Animal Rights
- ___ 4H-VH-3636 Sheep Showmanship



**UNIVERSITY OF MINNESOTA
SPECIALIST SUPPORT:**

*Brad Rugg, 4-H Youth Development
Educator*
*Jerry Hawton, Extension Animal
Scientist, Swine Nutrition*

BULLETINS AND RECORDS:

- ___ 4H-BU-6158 Squeal Appeal, Swine Level I (S)
- ___ 4H-BU-6159 Hamming it Up, Swine Level II (S)
- ___ 4H-BU-6160 Going Whole Hog, Swine Level III (S)
- ___ 4H-MI-0078 4-H Animal Science Record for Beginning Members (for ages 9-11) (1/year) (B)
- ___ 4H-MI-1945 4-H Livestock Project Record for Intermediate and Advanced Beef, Sheep and Swine Members (for ages 12-18) (1/year) (B)

1431 Barrow (for all phases)

1432 Gilt

1433 Litter

LEADER LITERATURE:

- ___ 4H-BU-6161 Swine Group Activity Guide (S)
- ___ 4H-BU-6350 Exploring Farm Animals (S)

**SUPPLEMENTARY
PUBLICATIONS:**

- ___ 4H-MI-2738 Animals in Pursuit Game (S)
- ___ 4H-FO-0158 Fitting and Showing Swine (C)
- ___ 4H-MI-0159 4-H Swine Chart (C)
- ___ 4H-MI-0160 Minnesota 4-H Swine Parts Crossword Puzzle (A)
- ___ 4H-FO-0161 Minnesota 4-H Pig Pattern (E)

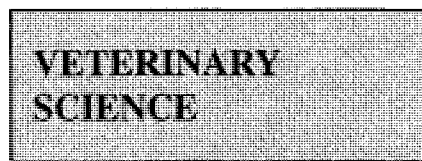
The following *Pork Industries Handbook* (PIH) reference is available in the county extension office. Used for Livestock Project Bowl reference:

- PIH-45 Economics of Reproductive Performance and Breeding Herd Management
- PIH-46 Care of the Sow During Farrowing and Lactation
- PIH-64 Artificial Insemination in Swine
- PIH-74 Management of Developing Gilts and Boars for Efficient Reproduction
- PIH-96 Troubleshooting Swine Reproduction

Minnesota Farmer's Care—An overview of Minnesota's Animal Agriculture Industry. Order 36-page publication directly from Minnesota Farmer for Animal Agriculture, 2469 University Avenue, St. Paul, MN 55114.

AUDIO/VISUAL MATERIALS:

- ___ 4H-VH-3639 Swine Reproduction, Breeding and Farrowing I
- ___ 4H-VH-3640 Swine Reproduction, Breeding and Farrowing II
- ___ 4H-VH-5517 Swine Handling and Transportation
- ___ 4H-VH-6114 Animal Welfare/Animal Rights



**UNIVERSITY OF MINNESOTA
SPECIALIST SUPPORT**

*Brad Rugg, 4-H Youth Development
Educator*
*Michael Pullen, Extension Meat
Hygienist*

BULLETINS AND RECORDS:

1901 The Normal Animal

- ___ 4H-BU-0162 The Normal Animal (Unit I Member's Manual) (E)
- ___ 4H-MI-0043 My 4-H Project Record (A)

1902 Animal Diseases

- ___ 4H-BU-0164 Animal Disease (Unit II Member's Manual) (E)
- ___ 4H-MI-0043 My 4-H Project Record (A)

1903 Animal Health

- ___ 4H-BU-0166 Animal Health and Its Relationship to Our World, a Self-Study Course (Unit III for Members and Leaders) (D)
- ___ 4H-MI-0043 My 4-H Project Record (A)

LEADER LITERATURE:

1901 The Normal Animal

- ___ 4H-BU-3786 4-H Veterinary Science Units I, II, and III (Leader's Guide) (E)

1902 Animal Disease

- ___ 4H-BU-3786 4-H Veterinary Science Units I, II, and III (Leader's Guide) (E)

1903 Animal Health

- ___ 4H-BU-3786 4-H Veterinary Science Units I, II, and III (Leader's Guide) (E)
- ___ 4H-BU-0166 Animal Health and Its Relationship to Our World, a Self-Study Course (Unit III for Members and Leaders) (D)
- ___ 4H-MI-0043 My 4-H Project Record (A)



EXPRESSIVE AND COMMUNICATION ARTS

Creative Arts

Through participation in projects including Expressive Arts Camps, the 4-H Arts-In, public speaking and communication arts contests, and creative arts projects, 4-H members gain important life skills, including:

Performing Arts

Visual Communications

- * Photography

- * Video

- * Developing poise and self confidence in communicating ideas to the public.

- * Learning principles of good communication through creative expression.

- * Gaining better understanding of a defined subject through research and interpretation.

- * Working with groups and gaining leadership skills.

Project Activities encourage your club members to explore expressive arts opportunities beyond the club level.

Share the Fun is a county-wide performance opportunity offered to 4-H clubs each spring. One club is chosen to represent each county at the State Fair.

The State 4-H Arts-In, grades 10-12, includes activities in performing, costuming, technical, instrumental music, graphic arts, and visual communication. It is held in the first weeks of August. Participants also are involved in responsibilities at the State Fair following the event. At County Arts-Ins, participants develop a performance for their county fair and may apply to perform at the State Fair.

Communication arts contests are held at cluster and state levels. Your cluster contact has registration and program information on these activities, which include public speaking, creative writing, interpretive reading, and photo stories.

Visual Communications encompasses photography and video. These subjects allow participants to learn the technical and creative aspects of photography and video through self-study, group interaction, and hands-on experience.

In addition, 4-H creative arts projects help participants learn about art materials and explore new ways to express themselves. Activities include a variety of media: drawing, painting, modeling, carving, designing, printing, lettering, construction, puppet-making, and learning about others' art works.

CREATIVE ARTS

UNIVERSITY OF MINNESOTA SPECIALIST SUPPORT:

*Carol Shields, 4-H Youth Development
Educator*

BULLETINS AND RECORDS:

7801 Creative Arts

- ___ 4H-MI-0183 Arts and Crafts Project Record (B)

LEADER LITERATURE:

- ___ 4H-MI-2988 4-H Arts Leader's Guide—Arts Alive (F)
- ___ 4H-BU-0182 4-H Seen at the Fair, Leader's Guide (F)

SUPPLEMENTARY PUBLICATIONS:

Request the following item from Carol Shields:

Discovery Through Art at 4-H Camp

AUDIO/VISUAL MATERIALS:

- ___ HE-FM-4748 The Adventures of an Asterisk
- ___ HE-FM-4886 A Fable

PERFORMING ARTS

UNIVERSITY OF MINNESOTA SPECIALIST SUPPORT:

*Carol Shields, 4-H Youth Development
Educator*

BULLETINS AND RECORDS:

- ___ 4H-MI-2013 Share the Fun (4-H Expressive Arts Leader's Guide Series) (C)
- ___ 4H-MI-2954 4-H Clowning Record (A)
- ___ 4H-MI-2955 Minnesota 4-H Clown Diploma (A)

LEADER LITERATURE:

- ___ 4H-BU-2013 Share the Fun (4-H Expressive Arts Leader's Guide Series) (C)
- ___ 4H-BU-0182 4-H Seen at the Fair (F)

SUPPLEMENTARY PUBLICATIONS:

- ___ 4H-MI-3387 Minnesota 4-H Songbook (small print version) (S)
- ___ 4H-MI-3388 Minnesota 4-H Songbook (large print version, spiral bound) (S)

(These items were distributed free to county extension offices. Only a few retail copies remain in the Distribution Center.)

AUDIO/VISUAL MATERIALS:

- ___ 4H-SS-4416 Lucky, the 4-H Clown

OTHER RESOURCES:

The Art of Clowning, Leader's Guide 4-H-1117. \$1.30 each. Member's Guide 4-H 116. \$1.30 each. Order from Michigan State University Bulletin Office, P.O. Box 231, East Lansing, MI 48824.

State 4-H Arts-In slide set and videotape. Order from Carol Shields in the Center for 4-H Youth Development.

VISUAL COMMUNICATIONS

UNIVERSITY OF MINNESOTA SPECIALIST SUPPORT:

*David Pace, 4-H Youth Development
Educator*
*Dean Bartsch, State Coordinator 4-H
Visual Communications (Adult
Volunteer Leader)*

PHOTOGRAPHY

BULLETINS:

7701 Adventures With Your Camera

- ___ 4H-BU-0170 Adventures With Your Camera, Unit 1, Member's Manual (S)

7702 Exploring Photography

- ___ 4H-MI-0172 Exploring Photography, Unit 2, Member's Manual (S)

7703 Adventures With Adjustable Cameras

- ___ 4H-MI-0174 Adventures With Adjustable Cameras, Member's Manual (S)

7704 Darkroom Techniques

- ___ 4H-MI-0175 Darkroom Techniques, Member's Manual (S)

7705 How to Produce a Slide Show

- ___ 4H-MI-1971 How to Produce a Slide Show, Member's Manual (S)

7706 Advanced Photography Skills

- ___ 4H-MI-2960 Investigating Portraiture, Advanced Skill Guide (S)
- ___ 4H-MI-2961 Fitting a Darkroom Into Your Life, Advanced Skill Guide (S)
- ___ 4H-MI-2962 Making the Most of Your Photo Skills in Your Future Career...and Other Advanced Career Explorations, Advanced Skill Guide (S)
- ___ 4H-MI-2963 Solving the Mystery of Publicity Photos, Advanced Skill Guide (S)
- ___ 4H-MI-2964 Experimenting With Your Enlarger, Advanced Skill Guide (S)
- ___ 4H-FO-6061 Color Printing Techniques, Advanced Skill Guide (S)

RECORD:

- ___ 4H-FO-6138 Photography/Still Video Member's Record (all levels)

LEADER LITERATURE:

- ___ 4H-MI-0176 4-H Photography, Unit 1, Leader's Guide (E)

SUPPLEMENTARY PUBLICATIONS:

- ___ AD-FS-2175 Selecting a Camera (A)
- ___ AD-FS-1486 Close-up Photography (A)

AUDIO/VISUAL MATERIALS:

- _____ 4H-VH-2262 Photography I: 4-H Youth Projects
- _____ 4H-VH-2263 Photography II: 4-H Youth Projects
- _____ 4H-VH-6576 Picture This... Photography Composition
- _____ AD-SS-4050 Better Pictures by Existing Light (for members enrolled in 7703, 7704, 7705, or 7706)
- _____ AD-SS-4104 Composition for Visual Impact (for members enrolled in any project level)
- _____ AD-SS-4209 Film: How It Works (for members enrolled in 7701 or 7702)
- _____ AD-SS-4037 Basic Picture-Taking Techniques (for members enrolled in 7701 or 7702)
- _____ AD-SS-4499 Photo Reports Make It Happen (for members enrolled in 7701-7705)
- _____ AD-SS-4528 Processing Black-and-White Film (for members enrolled in 7704)
- _____ AD-SS-4049 Beginning Black-and-White Printing (for members enrolled in 7704)

RECORDS:

- _____ 4H-MI-6060 Making Videos, Member's Record, Units 1, 2, and 3 (A). This record will be used for each unit of the video project.

VIDEO

BULLETINS:

7601 Beginning Video

- _____ 4H-FO-6057 Making Videos, Getting Started, 4-H Video Member's Manual, Unit 1 (D)

7602 Intermediate Video

- _____ 4H-BU-6058 Making Videos, Telling a Story, 4-H Video Member's Manual, Unit 2 (F)

7603 Advanced Video

- _____ 4H-FO-6059 Making Videos, Expanding Your Horizons, 4-H Video Member's Manual, Unit 3 (C)

7604 Video Production Team

This is for members working regularly throughout the project year with a multi-camera production team (cable, school, etc.) Encourage them to request and use the materials listed above. Also, encourage them to learn more about the equipment they are using.



HOME ECONOMICS

Child and Family Development

Clothing and Textiles

Consumer Education

Food and Nutrition

Home Environment

Needle Arts

4-H Home Economics Projects offer a wide diversity of activities to help participants develop life skills such as:

- * Learning to enhance their lives and the quality of living for their families.
- * Developing creative ways to express their individual interests.
- * Increasing knowledge of good nutrition, health practices, and child development.
- * Learning economic concepts and management techniques.

Project activities can cover subjects such as child development, clothing and textiles, consumer education, food and nutrition, food preservation, needle arts, and home environment.

CHILD AND FAMILY DEVELOPMENT

UNIVERSITY OF MINNESOTA SPECIALIST SUPPORT:

Ronald Pitzer, Extension Family Sociologist

BULLETINS AND RECORDS:

9100 Playing With Children I

- ___ 4H-BU-0194 Playing With Children I, a 4-H Child Care Project, Member's Manual (E)
- ___ 4H-MI-2369 Playing With Children I, Member's Record (B)

9101 Working With Children II

- ___ 4H-BU-0195 Working With Children II, a 4-H Child Care Project, Member's Manual (F)
- ___ 4H-MI-2370 Working With Children II, Member's Record (B)

9103 Living With Children III

- ___ 4H-BU-0196 Living With Children, III, a 4-H Child Care Project, Member's Manual (F)
- ___ 4H-MI-2371 Living With Children III, Member's Record (B)

9102 Teens Learning About Children IV

- ___ 4H-FS-3556 Teens Learning About Children IV, Member's Guide (A)
- ___ 4H-MI-2966 Teens Learning About Children IV, Member's Record (B)

Discipline:

- ___ HE-FS-1054 Handling Misbehavior (A)
- ___ HE-FS-1060 Consistency in Child Discipline (A)

Parents:

- ___ HE-FS-1058 Children and Their Parents (A)
- ___ HE-FS-1050 Do You Expect Too Much? (A)

Play:

- ___ HE-FS-1048 The Importance of Play (A)
- ___ HE-FS-1055 Television and Children (A)

Heroes:

- ___ HE-FS-1061 Children and Their Heroes (A)
- ___ HE-FS-1062 Children and the Santa Myth (A)

Eating:

- ___ HE-FS-1052 Mealtime—Happy or Hectic? (A)

Development:

- ___ HE-FS-1056 A Young Child and a Growing Self (A)

Other People:

- ___ HE-FS-1057 A Young Child and Other Children (A)

LEADER LITERATURE:

9100, 9101, 9102, 9103

- ___ 4H-BU-0197 Playing, Working, and Living With Children, a 4-H Child Care Project, Leader's Guide (E)

AUDIO/VISUAL MATERIALS:

- ___ 4H-VH-2258 Child Development: 4-H Youth Projects
- ___ HE-SS-4482 Parenting: Fathers, Mothers and Others
- ___ 4H-VH-5520 Help Me! - I'm Growing Up

OTHER LEADER RESOURCES:

Family Studies Curriculum Package (available from Ron Pitzer, 612-625-8169).

CLOTHING AND TEXTILES

BULLETINS AND RECORDS:

9211 Beginning Clothing I

- ___ 4H-BU-0198 Beginning Clothing, Unit 1, Member's Manual (S)
- ___ 4H-MI-0199 Beginning Clothing, Unit 1, Member's Record (B)

9212 Beginning Clothing II

- ___ 4H-BU-0200 Beginning Clothing, Unit 2, Member's Manual (F)
- ___ 4H-MI-0201 Beginning Clothing, Unit 2, Member's Record (B)

9213 Beginning Clothing III

- ___ 4H-BU-0202 Beginning Clothing, Unit 3, Member's Manual (F)
- ___ 4H-MI-0203 Beginning Clothing, Unit 3, Member's Record (B)

9214 Intermediate Clothing

- ___ 4H-BU-0204 Intermediate Clothing, Units 21, 22, 23, Member's Manual (S)
- ___ 4H-MI-0205 Intermediate Clothing, Units 21, 22, 23, Member's Record (B)

9215 Advanced Clothing

- ___ 4H-BU-0206 Advanced Clothing, Exploration in Clothing and Textiles, Member's Manual (E)
- ___ 4H-MI-0207 Advanced Clothing, Exploration in Textiles and Clothing, Member's Record (B)
- ___ 4H-BU-0208 Advanced Clothing, Tailoring for Teens, Member's Manual (E)
- ___ 4H-MI-0209 Advanced Clothing—Tailoring for Teens, Member's Record (B)

LEADER LITERATURE:

9211, 9212, 9213

- ___ 4H-BU-0210 Beginning Clothing, Units 1, 2, 3, Leader's Guide (F)

9214

- ___ 4H-BU-0211 Intermediate Clothing, Units 1, 2, 3, Leader's Guide (S)

9215

Use member material, previous leader's guides, and selected other resources.

The materials below are available by request from the Department of Design, Housing, and Apparel, Minnesota Extension Service, 364 McNeal Hall, St. Paul, MN 55108, 612-624-7726.

PUBLICATIONS

Selecting Active Sportswear: Dressing For Comfort, Mobility, and Health.
Alterations For Good Fit In Men's and Women's Apparel.

VIDEOS

Beginning Sewing Combination (2 part series includes Begin To Sew and Motivating Kids to Sew)
Successful Sewing Basics
Fabric Know-How
Wearable Art
Sewing Machine Art
Nancy's Notions Video Log (unique notions and sewing tools)
Judging Clothing Workmanship
Color in Clothing
Careers In Clothing
Stretching Your Clothing Dollars
Clothing Fibers
Clothing Dollars and Sense
The Spotlight Is On You (1992)—Ideas for Planning a County Fashion Revue
Quality Standards In Clothing Construction (1992)—A Judge's Guide

AUDIO/VISUAL MATERIALS:

- ___ HE-VH-5797 No Body's Perfect
- ___ 4H-VH-5962 National Fashion Revue

CONSUMER EDUCATION

UNIVERSITY OF MINNESOTA SPECIALIST SUPPORT

Jean Bauer, Extension Specialist, Family Resource Management

BULLETINS AND RECORDS:

5051 Super Shopper

- ___ 4H-FO-0191 Super Shopper, Member's Manual (C)
- ___ 4H-MI-0190 Super Shopper, 4-H Member's Planning and Report Form (B)

5052 Teaching Super Shopper

- ___ 4H-FO-0192 Teaching Super Shopper, Leader's Guide (D)
- ___ 4H-MI-0043 My 4-H Project Record (A)
- ___ 4H-FO-0190 Super Shopper, 4-H Member's Planning and Report Form (B)
- ___ 4H-FO-0191 Super Shopper (C)

LEADER LITERATURE:

- ___ 4H-BU-0192 Teaching Super Shopper Leader's Guide (D)

AUDIO/VISUAL MATERIALS:

- ___ 4H-VH-2267 Shopping: 4-H Youth Projects

SUPPLEMENTARY PUBLICATIONS:

- ___ HE-FO-6117 Children and Money: Allowances and Alternatives (C)
- ___ HE-FO-6116 Children and Money: Teaching Children Money Habits for Life (C)

FOOD AND NUTRITION

UNIVERSITY OF MINNESOTA SPECIALIST SUPPORT:

Linda Bradley, Youth EFNEP Coordinator
Marla Reicks, Extension Nutritionist
William Schafer, Extension Food Technologist

BULLETINS AND RECORDS:

9311 Food for Fun and Fitness—Beginner

- _____ 4H-BU-0216 Food for Fun and Fitness, Fit It All Together I, Member's Manual (S)
- _____ 4H-MI-0215 Food for Fun and Fitness, Fit It All Together I, Beginner Record (B)

9310 Food and Fitness Choices for You—Intermediate

- _____ 4H-BU-2354 Food and Fitness Choices for You, Fit It All Together II, Member's Guide (S)
- _____ 4H-MI-2355 Food and Fitness Choices for You, Fit It All Together II, Intermediate Food and Nutrition Record (B)

9317 The World of Food and Fitness—Advanced

- _____ 4H-BU-3784 The World of Food and Fitness, Fit It All Together III, Member's Guide (S)
- _____ 4H-MI-3483 The World of Food and Fitness, Fit It All Together III, Record (S)

9312 Food Preservation

- _____ HE-FO-0555 Freezing Fruits and Vegetables (C)
- _____ 4H-MI-2967 4-H Food Preservation Record for Beginning, Intermediate, and Advanced Members (B)
- _____ HE-FO-0686 Making Jelly (B)
- _____ HE-FO-0516 Safe Home Canning of Fruits, Vegetables and Meats (F)
- _____ HE-FO-3470 Tomato Products (B)
- _____ HE-FO-3471 Pickled Products (C)
- _____ HE-FS-1088 Making Jams, Marmalades, Preserves, and Conserves (A)
- _____ HE-FS-1089 Using Minnesota's Wild Fruits (A)
- _____ HE-FO-1097 Home Canning Tomatoes (B)
- _____ HE-FS-1087 Preserving Fish (A)
- _____ HE-FO-0820 Drying Foods at Home (C)
- _____ HE-FS-1090 Making Fresh Pack Pickles (C)
- _____ HE-FO-1091 Making Fermented Pickles and Sauerkraut (C)

Available in county extension offices:

1. Complete Guide to Home Canning, by USDA.
2. Food Safety Consultant Notebooks.

9313 Breads

- _____ 4H-MI-3482 Breads Record (B)

1. FLEISCHMANN'S YEAST

Specialty Brands, Inc., P.O. Box 7004, Public Relations Department, San Francisco, CA 94120-7004, 1-800-777-4959. Call Ann Cinderey for current literature information.

Fund Raiser:

Exploring Our World. Fund raising program centered on building family strengths. Includes calendar, recipes, family activities (no fee).

2. MINNESOTA WHEAT RESEARCH AND PROMOTION COUNCIL

Kris Versdahl, 2600 Wheat Drive, Red Lake Falls, MN 56750, (800) 242-6118 or (218) 253-4311.

Free publications and films for loan on wheat nutrition, products, and use. Call for information.

9314 Dairy Foods

- _____ 4H-FO-3785 Join the Fitness Team, a 4-H Dairy Foods Project Manual (S)
- _____ 4H-MI-3484 Join the Fitness Team, Dairy Foods Record (B).

Dairy, Food and Nutrition Council of Minnesota, 2015 N. Rice St., Suite 200, St. Paul, MN 55113, has teaching aids on nutrition. Write for a catalog and special listing of materials for extension.

9315 Meats

Meats projects may be taken with either foods or animal science projects. An abundance of University and industry publications may be adapted to the learning situation.

- _____ 4H-MI-0043 My 4-H Project Record (A)
- _____ AG-FO-0494 Consumer Questions About Meat (C)
- _____ AG-MI-0598 Cost Estimate of Beef by the Side (A)
- _____ AG-FO-0676 Determining USDA Beef Carcass Grades (B)
- _____ AG-FS-0970 Buying Meat by Cost Per Serving (A)
- _____ AG-FS-0973 Consumer Tips for Buying and Serving Ham (A)
- _____ 4H-FO-5788 Retail Cut Evaluation, Member's Guide, National Meat Science Series (S)
- _____ 4H-FO-5789 Meat Identification, Member's Guide, National Meat

Science Series (S)

- _____ 4H-FO-5790 Meat Cookery and Evaluation, Member's Guide, National Meat Science Service (S)

9316 Microwave Cooking

- _____ 4H-BU-3782 The Microwave Connection (Member's Manual) (S)
- _____ 4H-MI-3807 The Microwave Connection (record) (B)

LEADER LITERATURE:

9311 Food for Fun and Fitness—Beginner

- _____ 4H-BU-0227 Food for Fun and Fitness, Fit It All Together I Leader's Guide (S)

9310 Food and Fitness Choices for You—Intermediate

- _____ 4H-BU-2356 Food and Fitness Choices for You, Fit It All Together II, Leader's Guide (S)

9317 The World of Food and Fitness—Advanced

- _____ 4H-FO-3783 The World of Food and Fitness, Fit It All Together III Leader's Guide (S)

9316 Microwave

- _____ 4H-BU-3781 The Microwave Connection, Leader's Guide (D)

SUPPLEMENTARY PUBLICATIONS:

- _____ 4H-MI-5611 Keep Calcium Up and Cholesterol Down (B)
- _____ 4H-MI-5610 Dairy Calcium for Women of All Ages (B)
- _____ 4H-MI-2710 4-H Certificate of Participation (4-H Foods and Nutrition Projects)

AUDIO/VISUAL MATERIALS:

- _____ 4H-VH-2257 Foods: 4-H Youth Projects
- _____ 4H-VH-2266 Stir Fry Cooking: 4-H Youth Projects
- _____ 4H-VH-3624 Dairy Does a Body Good
- _____ 4H-VH-3635 Retail Meat Cut Identification—Beef
- _____ 4H-VH-3835 Lamb Retail Cuts Identification

- ___ 4H-VH-3836 Pork Retail Cuts Identification
- ___ 4H-VH-3837 Beef Retail Cuts Identification

NEEDLE ARTS

HOME ENVIRONMENT

BULLETINS AND RECORDS:

9411 Exploring Your Home I

- ___ 4H-BU-0235 Home Environment, Unit I, Exploring Your Home (E)
- ___ 4H-MI-0234 Home Environment Unit I, Exploring Your Home, 4-H Member's Planning Guide and Record (B)

9412 Where I Live II

- ___ 4H-BU-0237 Home Environment, Unit II, Where I Live (F)
- ___ 4H-MI-0236 Home Environment, Unit II, Where I Live, 4-H Member's Planning Guide and Record (B)

9413 Home Environment III

- ___ 4H-FS-3530 Home Environment Unit III, Member's Manual (A)
- ___ 4H-MI-3531 Home Environment Unit III, Member's Record (B)

LEADER LITERATURE:

9411

- ___ 4H-BU-0235 Home Environment Unit I, Exploring Your Home (E)

9412

- ___ 4H-BU-0237 Home Environment Unit II, Where I Live (F)

Accessories:

- ___ 4H-FO-0243 How to Finish Fabric and Stitchery for Wall Hangings (C)

AUDIO/VISUAL MATERIALS:

- ___ 4H-VH-2261 Lamps Made at Home: 4-H Youth Projects

BULLETINS AND RECORDS:

9220 Knitting

- ___ 4H-FO-0247 ABC of Knitting Right-Hand Version (D)
- ___ 4H-FO-0248 ABC of Knitting Left-Hand Version (D)
- ___ 4H-MI-0246 Knitting Project (4-H Member Planning and Report Form) (C)

9221 Crocheting

- ___ 4H-FO-0250 ABC of Crocheting Right-Hand Version (D)
- ___ 4H-FO-0251 ABC of Crocheting Left-Hand Version (D)
- ___ 4H-FO-0254 Crocheting Project (4-H Member Planning and Report Form) (C)

9222 Needlework

- ___ 4H-FO-6441 ABC of Needlepoint (D)
- ___ 4H-FO-6442 ABC of Embroidery (D)
- ___ 4H-FO-6443 ABC of Counted Cross Stitch (D)
- ___ 4H-MI-0043 My 4-H Project Record (A)

LEADER LITERATURE:

- ___ 4H-FO-0252 Knitting Leader's Guide (C)
- ___ 4H-FO-0253 Crocheting Leader's Guide (C)

AUDIO/VISUAL MATERIALS:

- ___ 4H-VH-2265 Knitting: 4-H Youth Projects

MECHANICAL SCIENCES

Aerospace

Bicycle

Computer

Electric

Small Engines

Tractor

Through a variety of hands-on activities, 4-H participants learn life skills such as:

- * learning to do things the right way; not taking dangerous short cuts
- * involving everyone: rural, urban, suburban, young, old, disabled, family members
- * exploring career options

Many Mechanical Science projects relate to today's concern for efficiency and new technology. Projects include aerospace, bicycle riding and maintenance, computers, electricity, small engines, and tractor operations.

AEROSPACE

UNIVERSITY OF MINNESOTA SPECIALIST SUPPORT:

*Thomas Zurcher, 4-H Youth Development
Educator*
*Stanley Meinen, Volunteer Resources
Contact*

BULLETINS AND RECORDS:

- ___ 4H-FO-0261 Self-Determined Aerospace, Member's Planning Guide, 4-H Aerospace Program (B)

4051 Model Rocketry

- ___ 4H-FO-0255 Model Rocketry, Member's Manual, 4-H Aerospace Program (C)
- ___ 4H-MI-2968 4-H Aerospace Record (all phases) (A)

4052 Model Airplanes

- ___ 4H-FO-0256 Model Airplanes, Member's Manual, 4-H Aerospace Program (C)
- ___ 4H-MI-2968 4-H Aerospace Record (all phases) (A)

4053 Flying

- ___ 4H-BU-0257 Flying, Member's Manual, 4-H Aerospace Program (D)

- ___ 4H-MI-2968 4-H Aerospace Record (all phases) (A)

LEADER LITERATURE:

4051 Model Rocketry

- ___ 4H-BU-0259 Model Rocketry, Leader's Guide, Beginner Level, 4-H Aerospace Program (F)

4052 Model Airplanes

- ___ 4H-FS-0260 Model Airplanes, Leader's Guide, 4-H Aerospace Program (A)

4053 Flying, All Phases

- ___ 4H-FS-0258 Flying, Leader's Guide, 4-H Aerospace Program (A)
- ___ 4H-FO-0262 Aerospace Leader's Information Guide, 4-H Aerospace Program (B)

SUPPLEMENTARY PUBLICATIONS:

Leader's Kit #1454. Contains Alpha model rocket, catalog, list of education publications, leader's guides on how to teach rocketry, and discount order forms. Estes Industries, Penrose, CO 81420. No Charge.

AUDIO/VISUAL MATERIALS:

- ___ 4H-VH-2268 Rockets: 4-H Youth Projects

BICYCLE

UNIVERSITY OF MINNESOTA SPECIALIST SUPPORT:

*Cynthia McArthur, Extension Educator,
4-H Youth Development*

BULLETINS AND RECORDS:

4211 Bicycle

- ___ 4H-MI-2629 4-H Bicycle Project Record (A)
- ___ 4H-FO-2630 Bicycle, Minnesota 4-H Bicycle Member Advancement Program for Members 9-18 Years of Age (C)
- ___ 4H-MI-5913 Bicycle Guide and Commuter Map, University of Minnesota (S)

SUPPLEMENTARY PUBLICATIONS:

Request the following directly from Minnesota Community Bicycle Safety Project, 4-H Youth Development, 340 Coffey Hall, 1420 Eckles Ave., St. Paul, Minnesota 55108, (612) 625-9719:

- Bike Safety Coloring Sheet* (K-3)
- Minnesota Bicycle Drivers Guide.* \$1. (Intermediate)
- Pedal Power Manual* (Intermediate) \$2
- Bicycle Activity Lessons.* \$2. (Beginner and Intermediate)

- Bike Driving Course (Bike Rodeo Manual)* (Intermediate) \$2
5 Minute Short Safety Course (Beginner, Intermediate)
Street Smarts—Traffic Tips for Bicycle Drivers (Beginner, Intermediate)
You're in the Driver's Seat (Intermediate)
Pedal Programs Community Planning Manual (leader)
Be a Bike Expert (Beginner)

AUDIO/VISUAL MATERIAL:

- ___ 4H-SS-2377 Pedal Power (high school)
 ___ 4H-VH-3954 Be Safe on Your Bike (middle school)

COMPUTER

**UNIVERSITY OF MINNESOTA
 SPECIALIST SUPPORT:**

Thomas Zurcher, 4-H Youth Development Educator

BULLETINS AND RECORDS:

4311 Learning About Computers I

- ___ 4H-BU-2969 4-H Computer Project I: Learning About Computers (S)
 ___ 4H-MI-2972 Computer Project Record for Beginner and Intermediate Members (B)

4312 Learning About Programming II

- ___ 4H-BU-2970 4-H Computer Project II: Learning About Programming (S)
 ___ 4H-MI-2972 Computer Project Record for Beginner and Intermediate Members (B)

4313 Using Computers in 4-H Projects III

- ___ 4H-BU-2971 4-H Computer Project III: Using Computers in 4-H Projects (S)
 ___ 4H-MI-2973 4-H Computer Project Record for Advanced Members (B)

LEADER LITERATURE:

- ___ 4H-FO-2974 Leader's Guide for 4-H Computer Projects I, II, and III (S)

ELECTRIC

**UNIVERSITY OF MINNESOTA
 SPECIALIST SUPPORT:**

Thomas Zurcher, 4-H Youth Development Educator

BULLETINS AND RECORDS:

4101 Exploring the World of Electricity—I

- ___ 4H-BU-0278 Exploring the World of Electricity (Unit I Member's Manual) (S)
 ___ 4H-MI-0277 Electric Record (all phases) (A)

4102 Electricity's Silent Partner—Magnetism—II

- ___ 4H-BU-0279 Electricity's Silent Partner—Magnetism, Unit 2, Member's Manual (S)
 ___ 4H-MI-0277 Electric Record (all phases) (A)

4103 Working With Electricity—III

- ___ 4H-BU-0280 Working With Electricity, Unit 3, Member's Manual (S)
 ___ 4H-MI-0277 Electric Record (all phases) (A)

4104 Electricity for Family Living—IV

- ___ 4H-BU-0281 Electricity for Family Living, Unit 4, Member's Manual (S)
 ___ 4H-MI-0277 Electric Record (all phases) (A)

4105 Introduction to Basic Electronics—VI

- ___ 4H-BU-0288 Introduction to the World of Electronics (Unit VI Member's Manual) (S)
 ___ 4H-MI-0277 Electric Record (all phases) (A)

LEADER LITERATURE:

- 4101**
 ___ 4H-BU-0283 Exploring the World of Electricity, Unit I, Leader's Guide (S)
- 4102**
 ___ 4H-BU-0284 Electricity's Silent Partner—Magnetism, Unit 2, Leader's Guide (S)
- 4103**
 ___ 4H-FO-0285 Working With Electricity, Unit 3, Leader's Guide (S)
- 4104**
 ___ 4H-FO-0286 Electricity for Family Living, Unit 4, Leader's Guide (S)

SUPPLEMENTARY PUBLICATIONS:

Edison Electric Institute, 750 3rd Ave., New York, NY 10017. Write and request electric project materials for youth group workshop activities.

Thomas Alva Edison Foundation, 2000 2nd Ave., Detroit, MI 48826. Pamphlets are available on request for 25 cents each on the following topics:
 Edison Experiment
 Edison Invention and Related Projects
 Edison Experiments You Can Do From the Diary of Michael Faraday
 How to Build Five Useful Devices
 Electrical and Chemical Experiments from Edison

SMALL ENGINES

**UNIVERSITY OF MINNESOTA
 SPECIALIST SUPPORT:**

Thomas Zurcher, 4-H Youth Development Educator

BULLETINS AND RECORDS:

4221 Small Engines—I

- ___ 4H-BU-0298 Small Engines (Unit I Member's Manual) (1/career) (S)
 ___ 4H-MI-0297 Small Engines Record (all phases) (1/year) (A)

4222 Small Engines—II

- _____ 4H-FO-0299 4-H Small Engines (Unit II Member's Manual) (1/career) (S)
- _____ 4H-MI-0297 Small Engines Record (all phases) (1/year) (A)

4223 Lawn and Garden Equipment

- _____ 4H-BU-0300 Lawn and Garden Power Equipment (Member's Manual) (1/career) (S)
- _____ 4H-MI-0297 Small Engines Record (all phases) (1/year) (A)

LEADER LITERATURE:

4221

- _____ 4H-BU-0301 Small Engines (Unit I Leader's Guide) (1/career) (S)
- _____ 4H-FO-0302 Small Engines (Unit II Leader's Guide) (1/career) (S)

4223

- _____ 4H-FO-0303 Lawn and Garden Power Equipment (Leader's Guide) (C)

SUPPLEMENTARY PUBLICATIONS:

How to Organize a Small Engine Contest in Your County. Provided to volunteers on request from county extension educators.



(See also Safety, p. 34)

UNIVERSITY OF MINNESOTA SPECIALIST SUPPORT:

Thomas Zurcher, 4-H Youth Development Educator

BULLETINS AND RECORDS:

4241 Tractor and Farm Machinery Care and Safety—Certification Program (for ages 14-15)

- _____ 4H-BU-0307 Safe Operation of Agricultural Equipment (Student's Manual) (1/career) (S)
- _____ 4H-MI-0043 My 4-H Project Record (1/career) (A)

LEADER LITERATURE:

- _____ 4H-BU-0308 Safe Operation of Agricultural Equipment (Instructor's Manual) (1/year) (F)

SUPPLEMENTARY PUBLICATIONS:

- _____ 4H-MI-3440 4-H and FFA Safe Tractor Driving Contest (E)
- _____ AG-FO-0816 Noise—The Invisible Agricultural Hazard (C)

AUDIO/VISUAL MATERIALS:

- _____ AG-SS-4296 Hand Signals for Agriculture
- _____ AG-SS-4466 Noise—The Invisible Agricultural Hazard (OSHA Farm Safety Program)
- _____ AG-SS-4567 Safe Operation of Agricultural Equipment
- _____ AG-SS-4570 Safe Use of Farm Machinery—Movement on Public Roads (OSHA Farm Safety Program)
- _____ AG-SS-4571 Safe Use of Farm Machinery—Repair and Maintenance (OSHA Farm Safety Program)
- _____ AG-SS-4572 Safe Use of Farm Tractors—Overturns and Extra Riders (OSHA Farm Safety Program)
- _____ AG-VH-5857 Farm Tractor/Machinery Safety
- _____ AG-VH-5858 Farm Safety for Kids
- _____ AG-VH-5859 Seconds Save Lives
- _____ AG-VH-5860 Weather's Effect on Health
- _____ AG-VH-5861 Safe Country



NATURAL RESOURCES

Exploring the Environment

Entomology

Fishing Sports

Forest Resources

Geology

Shooting Sports/Wildlife Management

Water Quality

Wildlife/Biology

Wood Science/Shop

Natural Resources projects help young people learn the following life skills:

- * learning about the environment and how to be responsible for it
- * making decisions about natural resources to derive the greatest long range benefit for everyone
- * learning to appreciate woodlands as a unique ecology, as well as a source of raw materials and enjoyment
- * demonstrating sound fish and wildlife conservation and enhancement

Can you identify Minnesota's waterfowl? How about Minnesota's trees? Natural Resources project activities can include shooting, fishing, studying water quality, learning wildlife management and much, much more. Over 5,000 potential activities await members in the Natural Resources project areas. From wetland rehabilitation to geology to stewardship of our forests, there is an activity for everyone's interest.

EXPLORING THE ENVIRONMENT

UNIVERSITY OF MINNESOTA SPECIALIST SUPPORT:

Stephan Carlson, 4-H Youth Development Educator

BULLETINS AND RECORDS:

3101 Exploring the Environment

- ___ 4H-BU-0310 Exploring the Environment (Conservation Member's Manual) (E)
- ___ 4H-MI-0309 Exploring the Environment (record) (1/yr) (B)
- ___ 4H-BU-6064 Working on Waste Leader's Guide (S)

SUPPLEMENTARY PUBLICATIONS:

- ___ 4H-FO-0312 Guide to Birdhouse Building (member's manual) (C)

Other Publication Resources:

The following additional materials are available from Laura Noy, MEEB/REEC, Box 5, 500 Lafayette Rd., St. Paul, MN 55155. No charge but you must attend a one-day workshop to receive Guides:

- Project Wild, Leader's Guide*
- Project Learning Tree, Leader's Guide*
- Project Aquatics, Leader's Guide*

AUDIO/VISUAL MATERIALS:

- ___ 4H-VH-3941 Teaching Natural Resources, Volume I
- ___ 4H-VH-3943 Teaching Natural Resources, Volume III
- ___ NR-FM-5219 To Touch the Sky
- ___ NR-FM-5226 Trees—How We Identify Them
- ___ NR-FM-4944 Habitat—A Special Place
- ___ NR-FM-4864 Ecology of the Forest
- ___ NR-FM-4865 Ecology of the Prairie

NOTE: Refer to entomology, forestry, geology, wildlife, and plant and soil science sections for additional publications, slide sets, films, and videos.

ENTOMOLOGY

UNIVERSITY OF MINNESOTA SPECIALIST SUPPORT:

Stephan Carlson, 4-H Youth Development Educator
David Noetzel, Extension Entomologist
Bulletins and Records:

3220 Entomology

- ___ 4H-BU-0316 Your 4-H Entomology Project (D)
- ___ 4H-MI-0315 Entomology Record (B)

SUPPLEMENTARY PUBLICATIONS:

The following items are available at Books Underground, University of Minnesota Bookstore, St. Paul Campus, or at other selected bookstores:

- Insects—A Golden Guide.*
- Identifying Insects—Peterson Series.*

AUDIO/VISUAL MATERIALS:

- ___ 4H-VH-3844 Collecting Bugs for 4-H Entomology Collections (Part I). Pointers on Pinning and Mounting Insects (Part II).

Also refer to Forest Resources.

FISHING SPORTS

UNIVERSITY OF MINNESOTA SPECIALIST SUPPORT:

Stephan Carlson, 4-H Youth Development Educator

BULLETINS AND RECORDS:

3601 Beginning Angler

- ___ 4H-BU-6200 Fishing . . . Get in the Habitat! (S)
- ___ 4H-MI-2621 4-H Fishing Project Record for Beginner Members 9-11 Years of Age (A)
- ___ 4H-FO-2623 Fishing Sports Advancement Program (1/career) (C)

3602 Intermediate Angler

- ___ 4H-MI-2622 4-H Fishing Project Record for Intermediate and Advanced Members (B)
- ___ 4H-FO-2623 Fishing Sports Advancement Program (1/career) (C)

3603 Advanced Angler

- ___ 4H-MI-2622 4-H Fishing Project Record for Intermediate and Advanced Members (B)
- ___ 4H-FO-2623 Fishing Sports Advancement Program (1/career) (C)
- ___ 4H-MI-3560 Minnesota 4-H Fishing Sports (brochure) (B)

LEADER LITERATURE:

3601

- ___ 4H-BU-2975 4-H Fishing Sports Leader's Guide—Beginner Angler (F)

3602

- ___ 4H-BU-3314 4-H Fishing Sports Leader's Guide—Intermediate Angler (F)

AUDIO/VISUAL MATERIALS:

- ___ 4H-SS-2416 4-H Fishing Project
- ___ NR-FM-5242 The Way of a Trout
- ___ 4H-VH-3461 Hooked on Fishing, Not on Drugs/Fishing...Pass It On

Numerous aquatic publications are available without fee from the Minnesota Department of Natural Resources. Order forms and catalogs are available from DNR Information Center, (800) 652-9747.

FOREST RESOURCES

UNIVERSITY OF MINNESOTA SPECIALIST SUPPORT:

Stephan Carlson, 4-H Youth Development Educator
Melvin Baughman, Extension Specialist, Forest Resources
Carl Vogt, Extension Specialist, Forest Resources

BULLETINS AND RECORDS:

3301 Forest Resources—Beginner

- ___ 4H-BU-6201 Treetop, Forest Resources Beginner Guide (S)
- ___ 4H-BU-3647 Forest Resources Project, Beginner Level, Activity Book (F)
- ___ 4H-MI-0318 Forestry Record (A)

3302 Forest Resources—Intermediate

- ___ 4H-BU-3408 Trees + Me = Forestry, Forest Resources Intermediate Member's Guide (S)
- ___ 4H-MI-3535 Minnesota 4-H Forest Resources Project
- ___ 4H-MI-0318 Forestry Record (A)

3303 Forest Resources—Advanced

- ___ 4H-BU-3490 Forests Forever, Forest Resources Advanced Member's Manual (S)

- ___ NR-BU-0486 Minnesota's Forest Trees (F)
- ___ 4H-MI-0318 Forestry Record (A)

LEADER LITERATURE:

3301—Forest Resources—Beginner

- ___ 4H-BU-3648 Forest Resources Project, Beginning Level, Leader's Guide (F)

SUPPLEMENTARY PUBLICATIONS:

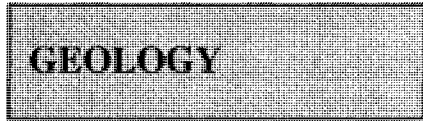
- ___ NR-FO-0824 Field Windbreaks (B)
- ___ NR-FO-0481 Planting Trees in Minnesota (D)
- ___ NR-BU-2022 Growing Christmas Trees in Minnesota (E)
- ___ NR-BU-1390 Minnesota Forest Products Directory (S)
- ___ NR-FS-1070 Useful Information About Wood for the Homeowner (A)
- ___ NR-BU-0531 Heating the Home With Wood (E)
- ___ NR-FS-1067 Homemade Maple Syrup (A)
- ___ AG-FS-1009 Plant Galls (A)
- ___ AG-FS-1019 Scale Insects of Trees and Shrubs (A)
- ___ AG-FS-1417 The Bronze Birch Borer (A)
- ___ AG-FO-0704 Insecticide Suggestions to Control Tree and Shrub Insects (C)
- ___ AG-FS-0998 Boxelder Bugs (A)
- ___ AG-FO-0865 Insect Pests of Evergreens (D)
- ___ AG-FS-1420 Native Elm Bark Beetle Control (A)
- ___ AG-FO-0876 Spring and Fall Cankerworms (B)
- ___ AG-FO-1164 Verticillium Wilt of Trees and Shrubs (B)
- ___ AG-MI-0766 Leaf and Needle Diseases of Trees (S)
- ___ AG-FS-1167 Damping-Off of Seedlings (A)
- ___ NR-FS-6433 Protecting Trees From Animal Damage (A)

Project Learning Tree (PLT) Guide free from: Laura Noy, MEEB/REEC, Box 5, 500 Lafayette Rd., St. Paul, MN 55155. Must attend one-day training to receive materials.

For more order information on the following, contact Minnesota's Bookstore, 117 University Ave., St. Paul, MN 55155: Landscaping for Wildlife, by Carrol Henderson.

AUDIO/VISUAL MATERIALS:

- ___ NR-SS-4704 Wood for Home Heating
- ___ NR-SS-4705 Wood Heating Safety
- ___ NR-FM-4825 The Coniferous Forest Biome
- ___ NR-FM-5219 To Touch the Sky
- ___ NR-FM-5226 Trees—How We Identify Them
- ___ NR-FM-4864 Ecology of the Forest
- ___ NR-FM-1916 Forests in the Balance—A Fight Against Time
- ___ NR-FM-4944 Habitat—A Special Place
- ___ NR-FM-5030 Maple Syrup
- ___ NR-FM-5074 Once the Fire Is Out...What Next



UNIVERSITY OF MINNESOTA SPECIALIST SUPPORT:

Stephan Carlson, 4-H Youth Development Educator
Bruce Bloomgren, Geologist, Minnesota Geological Survey

BULLETINS AND RECORDS:

3401 Rocks and Minerals

- ___ 4H-FO-0324 Geology, (1/career) (D)
- ___ 4H-MI-0323 Geology, Record (1/year) (B)

3403 Our World of Water

- ___ 4H-BU-0328 Our World of Water (1/career) (D)
- ___ 4H-MI-0327 Our World of Water, Record (1/year) (B)

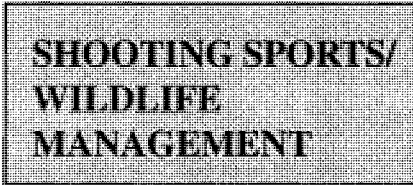
SUPPLEMENTARY PUBLICATIONS:

Rocks and Minerals—A Golden Guide. Available at Books Underground, University of Minnesota Bookstore, St. Paul Campus, and other bookstores.

Publications from the Minnesota Geological Survey, University of Minnesota,

2642 University Ave., St. Paul, MN 55114,
(612) 627-4784:

Minnesota Underfoot
The Rock Book
Minerals
Minnesota Geology
A Guide to Field Identification—Minerals of the World
Guide to Mineral Collecting in Minnesota
Guide to Fossil Collecting in Minnesota
3 Mineral/3 Fossil Sample Kit. \$1.



UNIVERSITY OF MINNESOTA SPECIALIST SUPPORT:

Stephan Carlson, 4-H Youth Development Educator
James Kitts, Extension Specialist, Wildlife/Fisheries

BULLETINS AND RECORDS:

3701 Shooting Sports—Beginner

- ___ 4H-FO-2411 Shooting Sports/Wildlife Member Advancement Program (1/career) (for ages 8-18) (C)
- ___ 4H-MI-2358 4-H Shooting Sports/Wildlife Record for Beginning Members (for ages 9-11) (1/year) (B)
- ___ 4H-BU-5762 Call of the Wild, Wildlife Biology Member's Manual, Book I (S)

3702 Shooting Sports—Intermediate

- ___ 4H-MI-2410 4-H Shooting Sports/Wildlife Record for Intermediate and Advanced Members (for ages 12-18) (1/year) (B)
- ___ 4H-BU-6340 Wildlife Diversity: The Links of Life, Wildlife Biology Member's Manual, Book 2 (S)

3703 Shooting Sports—Advanced

- ___ 4H-MI-2410 4-H Shooting Sports/Wildlife Record for Intermediate and Advanced Members (for ages 12-18) (1/year) (B)

NOTE: Because there are laws governing firearms, this project must be led by trained leaders.

LEADER LITERATURE:

- ___ 4H-BU-2976 4-H Shooting Sports/Wildlife Leader's Guide (S)
- ___ 4H-MI-3282 Minnesota 4-H Shooting Sports/Wildlife Project (brochure) (B)
- ___ 4H-BU-6436 Taking Aim at Youth Development (S)

SUPPLEMENTARY PUBLICATIONS:

Three Peterson Series titles, \$4.95 per copy, are available at bookstores or from some public libraries:

Field Guide to Eastern Birds
Field Guide to Wild Flowers
Field Guide to Animal Tracks

Basic Hunters Guide. National Rifle Association, Education Division, 1600 Rhode Island Ave. N.W., Washington, DC 20036

4-H Shooting Sports—A Teaching Guide for Volunteer 4-H Leaders. A 205-page teaching guide/handbook for volunteer 4-H leaders consisting of 18 units is available in all counties. Copies of the following sections can be requested from specialists or county extension educators:

4-H What's It All About?
4-H Shooting Sports—Introduction and Preamble
How to Start a 4-H Shooting Sports Program
Knowledge of Firearms and Ammunition
Shotgun Equipment and Handling
Fundamentals of Shotgun Shooting
Steps to Teaching the Beginning Trap Shooter
Steps to Teaching the Beginning Skeet Shooter
Four-Position Rifle Shooting
Shooting a Rifle—Firing the Shot
Basic Air Pistol Marksmanship
An Introduction to Archery
An Introduction to Muzzleloading Firearms
An Introduction to Hunting
Glossary of Terms

- ___ 4H-BU-0314 Wildlife Reference for Minnesota Youth (F)
- ___ 4H-BU-0313 Wildlife Habitat Improvement Guide for Minnesota Youth (F)

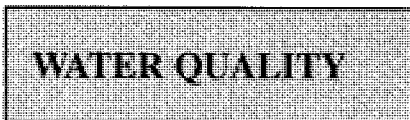
Request the following Project Meeting Guides from the county office or from the state specialist:

- NS-1 Planning Your 4-H Project Year
- NS-2 Planning a Successful 4-H Project Year
- NS-3 Evaluating Your 4-H Project Meeting
- NS-4 Conducting a 4-H Club Judging Contest
- NS-5 Scoring a Judging Class
- NS-6 Preparing and Presenting Oral Reasons
- NS-7 Conducting a 4-H Skillathon
- NS-8 Conducting a 4-H Project Bowl
- NS-9 Playing 4-H Project Baseball
- NS-10 Playing 4-H Project Bingo
- NS-11 Having Fun Demonstrating
- NS-12 Exploring 4-H Shooting Sports/Wildlife Project Records
- NS-13 Exhibiting a 4-H Project at a Club Achievement Day
- NS-14 Making a Mousetrap Pistol
- NS-15 Practicing the Ten Commandments of Firearm Safety
- NS-16 Developing Hunter Ethics Project Meeting
- NS-17 Discovering the Basic Needs of Wildlife
- NS-18 Identifying Song Birds
- NS-19 Identifying Minnesota Waterfowl
- NS-20 Improving the Winter Habitat of Ringneck Pheasants
- NS-21 Improving the Winter Habitat of Deer
- NS-22 Determining Dominant Eye
- NS-23 Fitting the Shotgun or Rifle to You
- NS-24 Practicing Aiming Techniques and Trigger Control
- NS-25 Identifying Types, Parts, and Functions of Ammunition
- NS-26 Identifying Parts and Functions of Ammunition
- NS-27 Identifying Types, Parts and Functions of Bows
- NS-28 Identifying Parts and Functions of Arrows
- NS-29 Making a Target Box
- NS-30 Entering an Essay Contest and Winning Big Prizes
- NS-31 Making a Powder Horn
- NS-32 Making a Possible Bag

AUDIO/VISUAL MATERIALS:

- ___ 4H-VH-3534 Muzzle Loading Safety
- ___ 4H-SS-2420 4-H Shooting Sports/Wildlife (promotional set)
- ___ AG-SS-4669 Washout (soil, water)
- ___ NR-FM-4779 Before You Hunt (wildlife)
- ___ NR-FM-4837 Cry of the Marsh (wildlife)

- ___ NR-FM-4944 Habitat—A Special Place
- ___ 4H-VH-6084 Basic Rifle Shooting
- ___ 4H-VH-5961 Basic Rifle Shooting
- ___ 4H-VH-3757 The Importance of Wildlife Habitat
- ___ 4H-VH-3924 Teaching Natural Resources, Vol. II



Stephan Carlson, 4-H Youth Development Educator

PRINTED MATERIALS:

- ___ 4H-FO-5977 Wild Wetlands (B)
- ___ 4H-FO-5978 Things That Go "Yuk" In the House (B)
- ___ 4H-FO-5979 How Well Is Your Well? (B)
- ___ 4H-FO-5980 Water Stewardship (B)

The following resources are available from the Center for 4-H Youth Development and District Extension offices:

The Clean Water Resource Packet for Youth and Youth Educators. An activity, curriculum, and background book compiled by MES in November 1990.

Critical Issue: Water, You Can Make a Difference. A school enrichment package for teachers, grades K-3. Developed in Nassau County, New York, April 1988.

Critical Issue: Water, You Can Make a Difference. A school enrichment package for teachers, grades 4-6. Developed in Nassau County, New York, April 1988.

Waste Water Treatment. Teachers Resource Guide, grades 7-9. Developed by Water Pollution Control Federation (package includes video).

Surface Water. Teachers Guide, grades 7-9. Developed as part of series by Water Pollution Control Federation (package includes video).

Water Quality Activities for Youth. A packet of individual learning activities designed for camp programs or school enrichment.

AUDIO/VISUAL MATERIALS:

- ___ 4H-SS-3646 Water—We Can't Live Without It. Produced by National Wildlife Federation.
- ___ 4H-SS-3838 Acid Rain: What It Is, What It Isn't

The following items are available in the district office:

- H20TV Wastewater Treatment. Produced by Water Pollution Control Federation. Teachers guide and member manual. Grades 7-9.
- H20TV Surface Water. Produced by Water Pollution Control Federation. Teachers guide and member manual. Grades 7-9.
- H20TV Ground Water. Produced by Water Pollution Control Federation. Teachers Guide and member manual. Grades 7-9.



UNIVERSITY OF MINNESOTA SPECIALIST SUPPORT:

Stephan Carlson, 4-H Youth Development Educator
James Kitts, Extension Specialist, Wildlife/Fisheries

BULLETINS AND RECORDS:

3500 Wildlife

- ___ 4H-BU-5762 Call of the Wild, Wildlife Biology Member's Manual, Book I (S)
- ___ 4H-MI-3486 Wildlife Record (S)
- ___ 4H-FO-3487 Wildlife Member's Manual (S)
- ___ 4H-BU-6340 Wildlife Diversity: The Links of Life, Wildlife Biology Member's Manual, Book II (S)

LEADER LITERATURE:

- ___ 4H-FO-3488 Wildlife Leader's Guide (S)

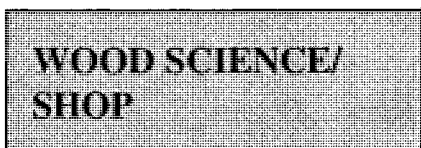
SUPPLEMENTARY PUBLICATIONS:

- ___ 4H-BU-0313 Wildlife Habitat Improvement Guide for Minnesota Youth (F)
- ___ 4H-BU-0314 Wildlife Reference for Minnesota Youth (F)
- ___ 4H-FO-0312 Guide to Birdhouse Building (Member Guide) (C)

A complete national wildlife series of educational bulletins is available from the National 4-H Council, 7100 Connecticut Ave., Chevy Chase, MD 20815. List is on page 47 of the *National 4-H Catalogue*.

AUDIO/VISUAL MATERIALS:

- _____ NR-FM-4825 The Coniferous Forest Biome (ecology, forestry)
- _____ NR-FM-4837 Cry of the Marsh
- _____ NR-FM-4864 Ecology of the Forest (exploring, ecology)
- _____ NR-FM-4865 Ecology of the Prairie (exploring, ecology)



UNIVERSITY OF MINNESOTA SPECIALIST SUPPORT:

Stephan Carlson, 4-H Youth Development Educator
Harlan Petersen, Extension Specialist, Forest Products

BULLETINS AND RECORDS:

4411 Working With Wood and Tools

- _____ 4H-BU-0291 Working With Wood and Tools (Unit I Member Manual) (1/career) (S)
- _____ 4H-MI-0290 Shop Record (1/year) (B)

4412 The Wonderful World of Wood

- _____ 4H-BU-0292 The Wonderful World of Wood (Unit II Member Manual) (1/career) (S)
- _____ 4H-MI-0290 Shop Record (1/year) (B)

4413 Building Bigger Things

- _____ 4H-BU-0293 Building Bigger Things (Unit III Member Manual) (1/career) (S)
- _____ 4H-MI-0290 Shop Record (1/year) (B)

LEADER LITERATURE:

4411-4413 SHOP

- _____ 4H-BU-0296 4-H Wood Science, Leader's Guide (1/career) (S)
- _____ 4H-MI-3450 4-H Common Ground Program, Woodworking, Leader's Guide (S)

SUPPLEMENTARY PUBLICATIONS:

- _____ 4H-FO-0312 Guide to Birdhouse Building (Member Guide) (C)

To obtain ordering information and costs on the following items, contact Harlan Petersen, Extension Specialist, Forest Products, 202 Kaufert Lab, University of Minnesota, St. Paul, MN 55108:

Woodworker's Reference Guide & Sourcebook—John Feirer

Make It Yourself, Simple Wooden Toys—Fred Haslam

Understanding Wood, A Craftsman Guide to Wood Technology—R. Bruce-Hoadley (Taunton Press)

Woodworking With Kids—Richard Starr (Taunton Press)

Tage Frid Teaches Woodworking Book I: Joinery: Tools & Techniques (Taunton Press)

Tage Frid Teaches Woodworking Book II: Shaping, Veneering, Finishing (Taunton Press)

To obtain copies of the following, contact Minnesota's Bookstore, 117 University Ave., St. Paul, MN 55155:

Woodworking for Wildlife, Carrol L. Henderson.

AUDIO/VISUAL MATERIALS:

- _____ HE-SS-4189 Exterior Finishes for Wood

For videotape information write to:

Woodworkers Supply of New Mexico,
5604 Alameda, NE, Albuquerque, NM
87113

WTG Video, Box 1329, Mendocino, CA
95460



PERSONAL GROWTH AND DEVELOPMENT

Citizenship

Through participation in a wide variety of Personal Growth and Development activities, 4-H'ers will explore what it means to be an active citizen, while practicing life skills through community involvement in the following ways:

Cloverbuds...A Discovery 4-H Program

- * creating community by working with others in leadership roles
- * motivating greater personal and public achievements of self and others
- * developing into well-rounded, productive individuals who will understand how they can contribute to their communities, their society, their economy, their nation, and the world
- * creating a personal and public vision for life in the 21st century

Global Connections

Health

Life Planning and Career Development

Personal Management

Safety

Youth Leadership

CITIZENSHIP WASHINGTON FOCUS

An opportunity for teens to increase appreciation of their heritage, meet other 4-H'ers from around the country and world, better understand U.S. government and current issues, and practice leadership and citizenship skills.

4-H GLOBAL CONNECTION

Provides a wide variety of opportunities for 4-H'ers to discover global interdependence through the "And My World" curriculum, to learn about other cultures by hosting exchange students from other countries, to look at the diversity of fellow citizens in their local communities, to review global issues for youth worldwide.

INTERSTATE/INTRASTATE 4-H TEEN EXCHANGES

An opportunity for 4-H members to visit the homes of members in other geographical areas within the USA and, in turn, be visited in their homes by 4-H members from the area visited.

COMMUNITY LEADERSHIP/COMMUNITY PRIDE

The Community Pride Program provides youth the opportunity to be actively involved in having a positive effect in their community.

CITIZENSHIP

UNIVERSITY OF MINNESOTA SPECIALIST SUPPORT:

*David Pace, 4-H Youth Development
Educator*

BULLETINS AND RECORDS:

6301 Me, My Family and Friends

- 4H-BU-0045 Me, My Family and My Friends (Unit I, Exploring Citizenship), (records are part of the manual) (S)

6302 My Neighborhood

- 4H-BU-0046 My Neighborhood (Unit II, Exploring Citizenship) (S). Records are part of each unit or you may use 4H-FS-0043, My 4-H Project Record, for Units 6302, 6303, 6304, 6305 (A)

6303 My Clubs and Groups

- 4H-BU-0047 My Clubs and Groups (Unit III, Exploring Citizenship) (S)

6304 My Community

- 4H-BU-0048 My Community (Unit IV, Exploring Citizenship) (S)

6305 My Heritage

- 4H-BU-0049 My Heritage (Unit V, Exploring Citizenship) (S)

6306 My Government

- 4H-BU-0050 My Government (Unit VI, Exploring Citizenship) (S)

6307 My World

- 4H-BU-0051 My World (Unit VII, Exploring Citizenship) (S) (records are part of member's manual or 4H-MI-0043, My 4-H Project Record, may be used) (A)

Note: Do not confuse this with the 4-H international curriculum "And My World."

Watch Distribution Center Updates for ordering information.

LEADER LITERATURE:

- 4H-FO-0052 Leader's Guide (All Units, Exploring Citizenship) (S)

CLOVERBUDS... A DISCOVERY 4-H PROGRAM

UNIVERSITY OF MINNESOTA SPECIALIST SUPPORT:

Bulletins and Records:

6200 Cloverbuds

- 4H-MI-5562 Cloverbuds, a 4-H Discovery Program, Program Record (B)
- 4H-MI-5560 Cloverbuds, a 4-H Discovery Program for Six to Eight Year Olds (S)
- 4H-MI-5561 Cloverbuds, a 4-H Discovery Program, Activity Sheets for Six to Eight Year Olds (F)
- 4H-MI-5563 Cloverbuds, a 4-H Discovery Program, Participation Summary (A)

GLOBAL CONNECTIONS

UNIVERSITY OF MINNESOTA SPECIALIST SUPPORT:

*David Pace, 4-H Youth Development
Educator*

PRINTED MATERIALS:

6310 And My World I

- 4H-BU-3944 "... And My World . . ." The World Around Me, Unit I (S)
- Designed to provide basic information about both the physical properties of the world and the people who live here.

6311 And My World II

- 4H-BU-3945 "...And MyWorld..." People and Customs of the World Unit II (S)

Designed to provide basic information about family relationships and cultures around the world.

Contact the Center for 4-H Youth Development for: Member's Records and Member's Workbooks (draft) to accompany these units.

- 4H-FO-0044 A Guide for 4-H Teens—Interstate, Intrastate, International, County Exchange Programs (C)
- 4H-FO-0056 4-H International Programs Planning Guide for Junior and Adult Leaders (B)

SUPPLEMENTARY PUBLICATIONS:

- 4H-MI-3476 Certificate of Global Understanding (A)
- 4H-MI-0054 4-H and Similar Youth Educational Programs (world map) (S)

The following publications are available from the Center for 4-H Youth Development:

4-H International Program Exchange. Promotional materials are available if additional copies are needed.

Are You Ready to Go International With 4-H? Minnesota 4-H International Cross-Cultural Exchange Programs Update. An annual update of global connections travel and hosting opportunities for 4-H'ers and their families.

Global Awareness Camp Counselor Handbook. Contains ideas and activities for turning camps into a Global Village.

The following materials are available from the Center for 4-H Youth Development:

- *CARE: The Last Rain Forest* (Video).
- *Memories of a Summer* (Japan) Videotape by UTREK.
- *A New World Awaits You* (Japan) Videotape by UTREK.
- *Geography—A Voyage of Discovery* Video—National Geographic Society
- *No Longer Strangers.* Videotape reviewing what it is like to be a host family or an exchangee who travels for a Home Stay Experience.
- *An Introduction to Japan and the 4-H Labo Exchange* Slide/Tape.
- *Costa Rica Today.* Videotape.
- *LEX Home Stay Slide Show* (Japan).
- *Bring Home the World.* Videotape to assist with host family recruitment, by LABO-LEX-UTREK (Japan).
- "Norway" IFYE Representative videotape—*Life in Norway.*

- *Destination: Marshall Islands*—20 minute video with lesson guide. Story about life on the newly independent island.
- *Destination: Nepal*—10 minute video with lesson guide. School children discuss the people and the culture.

MINNESOTA 4-H INTERNATIONAL PROGRAMS HANDBOOK

Each extension office has one copy. Additional copies may be ordered from the Center for 4-H Youth Development. Handbook will be updated in 1995.

Promotional materials and forms that can be ordered from the Center for 4-H Youth Development include:

Outbound Programs (OP) —Traveling as a delegate or an adult advisor

- MN-OP-63 Minnesota 4-H'ers . . . How About 5 Weeks in Japan This Summer? (LABO-LEX-UTREK) (Information/Promo sheet)
- MN-OP-63 4-H JAPAN EXCHANGE Participant Application-Youth (LABO-LEX-UTREK)
- MN-OP-53 Eight State 4-H Exchange to Russia
- MN-OP-90 Eight State 4-H Exchange to Victoria, Australia
- MN-OP-73 USA Eight State 4-H/Norske 4-H Exchange—4-H Junior Leader . . . older youth, How About Sharing Your Summer With the 4-H'ers of . . . NORWAY. (Information/Promo sheet)
- MN-OP-73 NORSKE 4-H - USA Eight State 4-H Exchange Application Form
- MN-OP-43 USA Eight State 4-H/Finland Exchange-SUOMEN 4-H LIITTO 4-H Junior Leaders . . . and older youth, How About Sharing Your Summer with the 4-H'ers of . . . Finland (Information/Promo sheet)
- MN-OP-43 SUOMEN 4-H LIITTO Eight State 4-H Finland Exchange Application form
- MN-OP-05 Adult Advisor . . . Application Form . . . Minnesota 4-H/Norske 4-H Exchange, Finland 4-H Exchange and Minnesota 4-H/Russia
- OO-OP-65 Adult Advisor 4-H USA/ Japan Exchange
- MN-OP-02 Guidelines & Suggestions to the County Extension Agents Responsible for Recruiting 4-H Teens for: Japan, Norway, Finland, and Russia
- CD-OP-10 Around the World with IFYE Representative and IFYE Ambassador
- CD-OP-INTL-80 INTERN Program 4-H Japan (4-H Alumni) USA—Ap-

lication Form

- OO-OP-67 Adult Exchange—2 week JAPAN—Travel Home Stay—Application Form
- CD-INTL-OP-80 4-H International Exchange Programs—U.S. Participant Application Form IFYE Representative and IFYE Ambassador

Inbound Programs (IP)—Hosting an International Inbound Exchangee

- MN-IP-00 Host County Inbound 4-H International Programs
- MN-IP-02 International Understanding Begins at Home Host Family Information Form: Australia, Russia, IFYE Representative (Information/Promo sheet.)
- MN-IP-02 Host Family Information sheet
- OO-IP-62 4-H Japan Exchange Host Family Application (LABO-LEX-UTREK)
- OO-IP-64 LABO/Japan High School Exchange
- MN-IP-12 County Guidelines for Hosting IFYE Representatives
- MN-IP-73 Family Application—Eight State Norway/Finland Exchange
- MN-FP-42 County Guidelines for Hosting Finnish/4-H Exchanges
- MN-IP-62 County Guidelines for Hosting Japan/Minnesota 4-H Exchangees
- MN-IP-72 County Guidelines for Hosting Seven-State 4-H/Norske 4-H Exchangees

Additional Materials in Handbook

- Community Development Ideas with an International Focus
- MN-50-383 Host Organizations in Co-operating Countries
- 4-H World Understanding Mini-Grants
- 4-H International Aids
- 4-H International Program
- 4-H Around the World. A Map Showing Countries with Programs Similar to 4-H
- World Pen Pals

HEALTH

UNIVERSITY OF MINNESOTA SPECIALIST SUPPORT:

Laurie Jensen and Joyce Walker,
4-H Youth Development Educators

BULLETINS AND RECORDS:

6441 Health

- ___ 4H-MI-3437 4-H Health/Safety Project Record (Self-Protection) (B)

LEADER LITERATURE:

The Hazelden *Health Choices* curriculum is available to each county. Copies can be ordered by extension educators from the Center for 4-H Youth Development. The units are:

- Self Acceptance
- Chemical Health
- Stress
- Nutritional Health
- Sexual Health
- Safety

- ___ HE-FO-2468 Building Family Strengths (C)
- ___ HE-FS-2786 Supporting Distressed Young People (A)
- ___ HE-FS-2787 Helping Friends in Trouble: Stress, Depression, and Suicide (Teens in Distress) (A)
- ___ 4H-FS-3081 Supporting Young People Following a Suicide (A)
- ___ 4H-FS-3083 Adolescent Stress and Depression (A)
- ___ 4H-FS-3130 Taking Care of Yourself—Understanding Stress (A)
- ___ 4H-FS-3131 Taking Care of Yourself—Managing Stress (A)
- ___ 4H-FS-3228 Self-Protection: Alcohol Decisions (A)
- ___ AD-BU-3260 Teens in Distress Teleconference Manual: Responding to High Risk Youth (S)
- ___ 4H-FS-3269 Helping During a Fragile Time (for use with Fragile Time video) (A)
- ___ 4H-FS-3404 Self Protection: Adolescent Health Survey Results (A)
- ___ 4H-FS-3714 Teen Pregnancy Fact Sheet (A)
- ___ 4H-FS-3268 Fragile Time, A Discussion Guide (C)

Available from the Center for 4-H Youth Development:

Project 4 Teens: Promoting Positive Youth Development Through Cross-Age Teaching

AUDIO/VISUAL MATERIALS:

- ___ 4H-VH-3609 *The Power to Choose*. Helps teens understand and prevent violence in relationships. Video and

teacher's guide available in district extension office.

HE VH-5797 No Body's Perfect

Harms Way. (VHS, 18 min.) Available from American Association of Neurological Surgeons, 22 South Washington Street, Park Ridge, IL 60068. \$35/copy + \$5 shipping.

Around Friends. (13 min.) Video and guide by teens for teaching 4th through 6th grades about alcohol decisions. Included in teaching kits for *Alcohol Decisions*. Extra copies available from Hazelden.

Drug Free & Proud to Be. (VHS, 5 min.) "Rap" video available from Michigan State University, AEE Resource Center, Michigan 4-H Youth Program, Room 10, Agriculture Hall, East Lansing, MI 48824-1111. \$35/copy + \$2 shipping.

Young People in Crisis. (VHS, 30 min.) Documentary. Dr. Pamela Cantor narrates discussion of effective teacher and parent interventions with young people at high risk for suicide. Effective with adult audiences. Three dramatizations of high school students in crisis. Developed in consultation with Harvard Medical School. Discussion guide, video, and participant booklets available for five-day rental from EXAR Communications, 267B McClean Ave., Staten Island, NY 10305 for \$37.50.

AD-VH-3075 *Fragile Time.* Award winning documentary for adult audiences on teen depression and suicide. Produced by Minnesota Extension Service. Order through Distribution Center or purchase or rent from Perennial Education, Inc., 930 Pitner Ave., Evanston, IL 60202, (312) 328-6700.

AD-VH-3178 *Teens in Distress Teleconference: Responding to High Risk Youth*

4H-EP-6113 *Circle of Support* (S)

LIFE PLANNING AND CAREER DEVELOPMENT

(See also *Human and Family Development* p. 3)

Contact: Joyce Walker, 4-H Youth Development Educator

EDUCATIONAL PACKAGES:

4H-EP-3736 *I'll Take Charge*, an education package on life planning and career development. (S)

Includes more than 50 activities to explore life changes, personal priorities, skills, and interests. Uses experiential methods including interviews, field trips, videotapes of people reflecting on their lives, club or classroom activities, and suggestions for providing community services. Parts of the curriculum can be adapted for seminars and longer workshops for youth and adults.

Contains six booklets and two videotapes that deal with dreams and expectations, lifestyles, family and sex roles, work, and education. Must be ordered as a package. Designed for use with youths ages 13-19.

4H-MI-3823 *I'll Take Charge* (S). Promotional brochure.

4H-EP-5721 *Leader Training: I'll Take Charge.* The training package contains a 73-page manual, a 20-minute video and a slide set of 48 slides. These materials in combination with *I'll Take Charge* activities are incorporated into a 5 hour seminar, a 3 hour workshop, and a 1 hour overview for adults and young people interested in working with the life planning curriculum. The video, *A 4-H Enterprise*, focuses on understanding experiential learning. (S)

Job Express. Cornell University Media Services, Distribution Center, 7 Research Park, Ithaca, New York 14850. Distribution number 321REN8, @ \$6.15, or call Extension Bulletins, (607) 255-2080. Developed by Steve Goggin, Cornell University Extension.

Leader's guide with step-by-step activities designed as a short-term job seeking skills program for young people. Contains 12 units with worksheets. Ideal for summer job seekers. Provides information about the American job market, ways to get job leads, and confidence building activities.

Y.E.S. (Youth Entrepreneurial Seminar). Booklets and slide set help young people identify talents and interests and market their skills as a small business.

4H-MI-3434 *Y.E.S. (Youth Entrepreneurial Seminar) Community Assessment, Phase I.B., Leader's Guide* (S)

4H-MI-3435 *Y.E.S. (Youth En-*

trepreneurial Seminar) Personal Assessment, Phase I.A., Leader's Guide (S)

4H-SS-3485 *Y.E.S., Youth Entrepreneurial Seminar* (slide set) \$8 in Minnesota, \$10 elsewhere.

4H-MI-3689 *Y.E.S. (Youth Entrepreneurial Seminar) My Business Plan, Phase II, Member's Workbook* (S)

4H-MI-3690 *Y.E.S. (Youth Entrepreneurial Seminar) My Business Plan, Phase II, Leader's Guide* (S)

AUDIO/VISUAL MATERIALS:

4H-SS-3485 *Y.E.S., Youth Entrepreneurial Seminar* (slide set) \$8 in Minnesota, \$10 elsewhere.

4H-SS-3893 *I'll Take Charge*

4H-VH-3734 *Making Points.* Girls Club of America, 1987. A 10-minute video illustrates with humor the pervasive effects of sex role stereotyping between men and women. Available to Minnesota Extension only. Also available to rent from the University of Minnesota Film and Video, 1313 Fifth St. S.E., Suite 108, Minneapolis, MN 55414, (612) 627-4270. Available to purchase from Direct Cinema Ltd., P.O. Box 315, Franklin Lakes, NJ 07417, (201) 891-8240. \$100, plus \$5 for shipping.

Follow Your Dream. A 6-minute music video emphasizing planning for the future and visualization as a means of making career choices. Lively music; features young people in different future roles. YMCA of the USA/Arizona Department of Education. Copyright 1988. Available on loan from the Center for 4-H Youth Development. Also for sale from Arizona Department of Education, 1535 West Jefferson, Phoenix, AZ 85007. \$30.

Forward to School. A 20-minute video in which four adults discuss major life changes and retraining for future careers. Emphasizes the necessity of education to keep options open. AFL-CIO, developed by Metropolitan State University, Metro Square Building, St. Paul, MN 55101. Free to the public. Copyright 1988. Copy in the Center for 4-H Youth Development.

SUPPLEMENTARY PUBLICATIONS:

Choices and Challenges. Series. Advocacy Press, P.O. Box 236, Santa Barbara, CA 93102, (805) 962-2728. For book rates, add \$1.25 for the first book and \$.50 for each additional book. For shipping UPS, add

\$3.00 per book, or call Advocacy Press for prices on quantity orders.

Developed for Girls Club of America, Inc. to promote options and encourage planning for work and family. Softcover books are suitable for classroom use. Exceptional quality.

Softcover books:

Choices: A Teen Woman's Journal for Self-awareness and Personal Planning. \$14.95.

Challenges: A Young Man's Journal for Self-awareness and Personal Planning. \$14.95.

Changes: A Woman's Journal for Self-awareness and Personal Planning. \$14.95.

More Choices: A Strategic Planning Guide for Mixing Career and Family. \$15.95.

Student workbooks:

Choices and Challenges. \$3.95.

Changes. \$3.95. *More Choices.* \$3.95.



UNIVERSITY OF MINNESOTA
SPECIALIST SUPPORT:

BULLETINS AND RECORDS:

6501 You're in Charge—I

- ___ 4H-MI-0341 You're in Charge: Self-Management, Beginner Unit 1, Funsheets 1-7 (C)
- ___ 4H-MI-0346 You're in Charge: Self-Management, Beginner Unit 1, Record (B)
- ___ 4H-MI-0348 You're in Charge: Self-Management, Beginner Unit 1, Bag of Tricks (D)
- ___ 4H-MI-0349 You're in Charge: Self-Management, Beginner Unit 1, Projects 1-4 (C)
- ___ 4H-MI-0350 Decision Cartoons (Teaching Aids for Self-Management) (F)

6504 Living As If People Mattered—Intermediate

- ___ 4H-BU-0351 Social Management—Living As If People Mattered

(Member's Manual) (order one per member, for ages 13-15) (S)

LEADER LITERATURE:

6501

- ___ 4H-MI-0345 You're in Charge: Self-Management, Beginner Unit 1, Leader's Kit (includes all member material and lesson plans—one per leader) (S)

6504

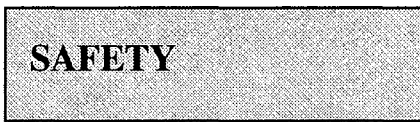
- ___ 4H-MI-0352 Social Management—Living As If People Mattered (Leader's Guide) (S)

PARENT LITERATURE:

- ___ 4H-FO-0347 You're in Charge: Self-Management, Beginner Unit 1, Parent's Guide (B)

AUDIO/VISUAL MATERIALS:

- ___ HE-FM-4886 A Fable



UNIVERSITY OF MINNESOTA
SPECIALIST SUPPORT:

*John Shutzke, Extension Agricultural
Safety & Health Specialist*

BULLETINS AND RECORDS:

6701 Safety—Beginner

- ___ 4H-BU-0357 Home Fire Safety Member's Manual (1/career) (D)
- ___ 4H-MI-0356 Safety and Fire Prevention (Beginner Record) (1/year) (B)
- ___ 4H-MI-0358 Farm Hazard Hunter (1/career) (A)
- ___ 4H-MI-0359 Safety in the Kitchen (1/career) (C)

6702 Safety—Intermediate

6703 Safety—Advanced

Same items as 6701, plus:

- ___ 4H-MI-0360 Safety and Fire Prevention (Junior and Advanced record) (1/year) (B)

SUPPLEMENTARY PUBLICATIONS:

Farm Safety Instructional Training Units. Farm and logging safety lessons. Informational folder for each of the following topics:

- ___ AG-FO-0795 Farm Accidents—Reducing the Odds (B)
- ___ AG-FO-0778 Dangers in the Air When Handling Livestock (C)
- ___ AG-FO-0816 Noise—The Invisible Agricultural Hazard (C)
- ___ AG-FO-0830 Safe Storage and Handling of Grain (B)
- ___ AG-FO-0878 Safe Work Practices on Dairy Farms (B)
- ___ AG-FO-2012 Safe Use of Pesticides on the Farm (C)
- ___ AG-FO-2326 Using Anhydrous Ammonia Safely on the Farm (C)
- ___ AG-FO-2487 Safe Chainsaw Operation (C)
- ___ AG-FO-5791 Farm Safety Day Camps (B)
- ___ AG-FS-5916 The Power of a PTO (A)
- ___ AG-FO-6068 Is Your Child Protected from Injury on the Farm? (B)

OTHER COMMONLY REQUESTED INFORMATION:

Many youth-oriented publications, fact sheets, activity guides, coloring books, and reference materials dealing with youth and farm safety issues can be obtained from: Farm Safety 4 Just Kids, P.O. Box 458, Earlham, IA 50072, (515) 758-2827.

AUDIO/VISUAL MATERIALS:

- ___ AG-SS-2647 The Calibration of Homeowner Chemical Application Equipment
- ___ 4H-SS-2377 Pedal Power
- ___ HE-SS-4374 It's Good Food, Keep It Safe
- ___ AG-SS-4575 Safety Is Your Decision
- ___ AG-SS-4635 Tornado... What to Do
- ___ AG-SS-4697 Winter Survival

Farm Safety Instructional Training Units. Farm and logging safety lessons. Slide/tape presentations for each of the following topics:

- ___ AG-SS-4198 Farm Accidents—Re-

ducing the Odds (OSHA Farm Safety Program)

- ___ AG-SS-4131 Dangers in the Air When Handling Livestock (OSHA Farm Safety Program)
- ___ AG-SS-4466 Noise—the Invisible Agricultural Hazard (OSHA Farm Safety Program)
- ___ AG-SS-4571 Safe Use of Farm Machinery—Repair and Maintenance (OSHA Farm Safety Program)
- ___ AG-SS-4569 Safe Storage and Handling of Grain (OSHA Farm Safety Program)
- ___ AG-SS-4572 Safe Use of Farm Tractors—Overturns and Extra Riders (OSHA Farm Safety Program)
- ___ AG-SS-4570 Safe Use of Farm Machinery—Movement on Public Roads (OSHA Farm Safety Program)
- ___ AG-SS-4573 Safe Work Practices on Dairy Farms (OSHA Farm Safety Program)
- ___ AG-SS-2186 Safe Use of Pesticides on the Farm (OSHA Farm Safety Program)
- ___ AG-SS-2192 Using Anhydrous Ammonia Safely on the Farm (OSHA Farm Safety Program)
- ___ AG-SS-4409 Logging Accidents—Reducing the Odds (OSHA Farm Safety Program)
- ___ AG-SS-4568 Safe Operation of Logging Equipment (OSHA Farm Safety Program)
- ___ AG-SS-2657 Safe Chainsaw Operation (OSHA Farm Safety Program)
- ___ AG-VH-5861 Safe Country
- ___ AG-VH-5860 Weather's Effect on Health
- ___ AG-VH-5859 Seconds Save Lives
- ___ AG-VH-5858 Farm Safety for Kids
- ___ AG-VH-5857 Farm Tractor/Machinery Safety
- ___ AG-VH-5935 Farm Safety Training Program
- ___ AG-VH-5870 Kids Talk Farm Safety Stuff
- ___ AG-VH-6086 Fry Now, Pay Later
- ___ AG-VH-6087 Driveline Safety...And You! (PTO Drivelines)
- ___ AG-VH-6088 On Target, Off Road: Safe Riding Tips for ATV Riders
- ___ AG-VH-6089 Farm and Ranch Equipment Safety

Contact the Minnesota Department of Public Safety Film Library, 1821 University Avenue, Room 180 South, St. Paul, MN 55104-2897, (612) 297-3939 for a listing of safety films available for rent at a low cost.

John Schutske can provide farm safety education leader's training to cluster groups including extension educators and community volunteers for teaching youth ages 8-13 ("day camp format"), and ages 14-16 (hazardous occupation training as required by state/federal law). Please schedule **at least** six months before actual educational event is to be held. Can also train extension educators and volunteers to teach the 24-hour hazardous occupations course, or make referrals to nearby resource people.

YOUTH LEADERSHIP

UNIVERSITY OF MINNESOTA SPECIALIST SUPPORT:

Carol Shields, 4-H Youth Development Educator

Curriculum for teens based on the "Seventh View" leadership theory developed by Dr. R. Terry; each member workbook focuses on one of the "views." Individual, group and large group activities and structured games are designed to be facilitated by youth professionals, volunteers, or teen leaders in schools, clubs, and with other youth groups.

YOUTH LEADERSHIP CURRICULUM:

Member Workbooks:

- ___ 4H-BU-5727 Understanding my Traits, Workbook 1, Youth Leadership (S)
- ___ 4H-BU-5728 Reading the Situation, Workbook 2, Youth Leadership (S)
- ___ 4H-BU-5729 Mastering the Organization, Workbook 3, Youth Leadership (S)
- ___ 4H-BU-5730 Appreciating Power, Workbook 4, Youth Leadership (S)
- ___ 4H-BU-5731 Seeing the Vision, Workbook 5, Youth Leadership (S)
- ___ 4H-BU-5732 Acting with Ethics, Workbook 6, Youth Leadership (S)
- ___ 4H-BU-5733 Reflecting on Action, Workbook 7, Youth Leadership (S)

Related Materials:

- ___ 4H-FO-5734 Mentor's Guide, Youth Leadership (S)
- ___ 4H-FS-5735 Youth's Guide, Youth Leadership (S)

- ___ 4H-BU-5736 Organizer's Guide, Youth Leadership (S)
- ___ 4H-MI-5737 Project Record, Youth Leadership(S)
- ___ 4H-PC-5745 Youth Leadership (Curriculum) (S)

Certificate:

- ___ 4H-MI-5796 Youth Leadership (Certificate) (A)

6511 Youth Leadership

Community Leadership/Community Pride

- ___ Community pride guidelines booklet with evaluation form may be ordered from the Center for 4-H Youth Development. (612) 625-3107. \$.50 each.
- ___ "All the difference" video—20 minute. Student production, KHOP-TV (Hopkins School District) on models of youth community service. Available from the Center for 4-H Youth Development; 2 week loan.
- ___ "Youth Service: A Guidebook for Developing and Operating Effective Programs." 1987, Dan Conrad & Diane Hedin. Order from: The Independent Sector, 1828 L Street N.W., Washington, DC 20036; (202) 223-8100. \$12.50.
- ___ "Making the Rules"—A guidebook for young people who intend to make a difference. 1992, Project Public Life, Humphrey Institute of Public Affairs, University of Minnesota \$6.50 (10% discount for 10 or more).
- ___ "Building Ownership: A Coach's Guide to Teaching Politics" Breuer and Nelson. 1992 Project Public Life, Humphrey Institute of Public Affairs, University of Minnesota, 301—19th Avenue, So. Mpls, MN 55455; (612) 625-0142; \$10.00.

AUDIO/VISUAL MATERIALS:

- ___ 4H-VH-5633 Leadership, Acting With Ethics (includes discussion guide)
- ___ 4H-VH-2259 Junior Leadership I: 4-H Youth Projects
- ___ 4H-VH-2260 Junior Leadership II: 4-H Youth Projects
- ___ 4H-SS-2762 Stars of the Future

PLANT SCIENCES

Crop Science

Flower Gardening

Fruit

Indoor Gardening

Lawn and Landscape Design

Plant and Soil Science

Vegetable Gardening

Plant Science projects provide opportunities for 4-H'ers to learn life skills such as the following:

- * developing a sense of responsibility, patience, and understanding in caring for plants
- * understanding the economic importance of the horticulture industry and horticulture's value in everyday living
- * learning to keep and use records

Project Activities can include learning how to identify and care for plants and learning their characteristics and uses. Some of the topics covered are:

- * Seeds and seed starting
- * What's inside seeds
- * Germination tests
- * Exploring the purpose of a leaf
- * Conducting propagation tests
- * How roots grow
- * Dissecting flowers and fruits
- * Soil preparation
- * Garden planning
- * Edible weeds



UNIVERSITY OF MINNESOTA SPECIALIST SUPPORT:

*Ervin A. Oelke, Extension Agronomist,
Crops*

BULLETINS AND RECORDS:

2018 Corn

- ___ 4H-MI-2172 4-H Corn Production Record (A)

2019 Small Grains

- ___ 4H-MI-0403 4-H Small Grain Production Record (1/year) (A)

2100 Potato

- ___ 4H-MI-0404 Potato Record (1/year) (A)

SUPPLEMENTARY MATERIALS:

2018 Corn

Weed Control

- ___ AG-FO-0776 Weed Seedling Identification (C)
- ___ AG-MI-1350 Annual Broadleaf Weed Identification (S)
- ___ AG-MI-1349 Annual Broadleaf Weed Seedling Identification (S)
- ___ AG-MI-1352 Annual Grass and Perennial Weed Identification (S)
- ___ AG-MI-1351 Annual Grass and Perennial Weed Seedling Identification (S)
- ___ AG-MI-3289 Corn Insects-Below Ground (C)
- ___ AG-BU-5854 Alternatives in Insect Management (S)
- ___ HE-FO-5626 Buying and Wearing Protective Clothing for Applying Pesticides (C)
- ___ AG-MI-3986 Clean Water—Pesticide Selection Can Make A Difference (S)
- ___ AG-BU-3157 Cultural and Chemical Weed Control in Field Crops (E)

Insect Control

- ___ AG-MI-0569 Corn Insects—Above Ground (C)

- ___ AG-BU-0500 Insecticide Suggestions to Control Insect Pests of Field Crops (E)

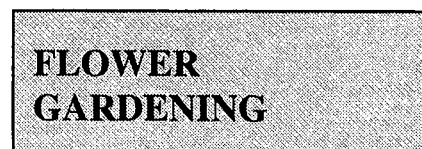
2019 Small Grains

Weed Control

Same items as 2018

Insect Control

- ___ AG-BU-0500 Insecticide Suggestions to Control Insect Pests of Field Crops (E)
- ___ AG-MI-0572 Common Small Grain Insects (C)



BULLETINS AND RECORDS:

2311 Beginner

- ___ 4H-BU-0370 Flower Gardening (1/career) (D)
- ___ 4H-MI-0369 Flower Garden Record (Beginner) (1/year) (A)

- ___ 4H-FO-0371 Preparing Flowers for the Flower Show (1/career) (B)
- ___ 4H-BU-0372 4-H Flower Arranging (1/career) (E)

2312 Intermediate

Same items as 2311, plus:

- ___ 4H-MI-0373 Flower Garden Record (Junior and Advanced) (1/year) (B)

2313 Advanced

Same items as 2311.

SUPPLEMENTARY PUBLICATIONS:

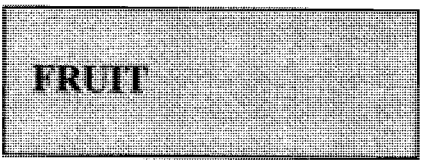
- ___ AD-MR-5641 Cultivar Trials of Bedding Plants (E)
- ___ AG-FS-1105 Culture of Garden Roses (A)
- ___ AG-FS-1113 Culture of Iris (A)
- ___ AG-MI-3821 Fertilizing Garden Plants (C)
- ___ AG-FS-1112 Garden Lilies in MN (A)
- ___ AG-FS-1428 Gardening in the Shade (A)
- ___ AG-FS-1115 Growing Dahlias (A)
- ___ AG-FS-1106 Growing Daylilies (A)
- ___ AG-FS-1120 Growing Petunias (A)
- ___ AG-FS-1117 Storing Tender Bulbs (A)
- ___ AG-FS-1116 Forcing Bulbs for Indoor Beauty in Winter (A)

AUDIO/VISUAL MATERIALS:

- ___ AG-SS-4023 Annual Flowers for Minnesota
- ___ AG-SS-4347 How to Start a Garden
- ___ AG-SS-4488 Perennial Flowers for Minnesota
- ___ AG-SS-4694 Wild Flowers for Minnesota
- ___ AG-SS-4346 How to Plan and Plant Flower Gardens (beginners)
- ___ AG-SS-4274 Gardens to Stay Home In (planting gardens)
- ___ AG-SS-5630 All America Selections in Flowers and Vegetables

Videos of the Minnesota Gardening TV series are available for rental; consult the MES Distribution Center Semi-Annual Catalog of Educational Materials for topic titles.

Watch Distribution Center Updates for new titles.



BULLETINS AND RECORDS:

2300—Fruit

- ___ AG-BU-0470 Fruit for the Home (D)
- ___ 4H-MI-0368 Fruit Record (1/year) (A)

LEADER LITERATURE:

- ___ AG-MI-0675 Home Fruit Spray Guide (1/year) (B)
- ___ 4H-FO-0367 4-H Leader's Horticultural Guide (1/career) (D)

SUPPLEMENTARY PUBLICATIONS:

- ___ AG-FS-1104 Fruits for Minnesota (A)
- ___ AG-FO-1103 Growing Grapes for Home Use (B)
- ___ AG-FS-1109 Dwarf Apple Trees (A)
- ___ AG-FS-1126 Plum, Cherry, and Apricot Varieties for Minnesota (A)
- ___ AG-FO-1111 Apples for Minnesota (B)
- ___ AG-FS-1122 Growing Currants and Gooseberries (A)
- ___ AG-FS-1125 Growing Stone Fruits (A)
- ___ AG-FO-0432 Growing Apples and Pears in Minnesota (B)
- ___ AG-FS-1107 Strawberries (A)
- ___ AG-FS-1108 Raspberries (A)
- ___ AG-FO-0606 Apple-Crabapple-Pear Varieties for Minnesota (B)
- ___ AG-MI-0556 Pruning Fruit Trees (B)
- ___ AG-FS-1152 Raspberry Diseases (A)
- ___ AG-FS-1148 Strawberry Diseases (A)
- ___ AG-FS-1007 The Apple Maggot (A)
- ___ AG-MI-0574 Common Fruit Insects (C)
- ___ AG-FS-1028 Protecting Honey Bees From Insecticides (A)
- ___ AG-FS-3463 Blueberries for the Home Landscape (A)



BULLETINS AND RECORDS:

2321 Beginner

- ___ 4H-BU-0375 Indoor Gardening (1/career) (E)
- ___ 4H-MI-0374 Indoor Gardening Record (Beginner) (1/year) (A)
- ___ 4H-BU-0372 4-H Flower Arranging (1/career) (E)

2322 Intermediate

- ___ 4H-BU-0372 4-H Flower Arranging (1/career) (E)
- ___ 4H-BU-0375 Indoor Gardening (1/career) (E)
- ___ 4H-FO-0367 4-H Leader's Horticultural Guide (1/career) (D)
- ___ 4H-MI-0376 Indoor Gardening (Junior and Advanced) (1/year) (B)
- ___ AG-BU-1356 Care of House Plants (F)

2323 Advanced

- ___ AG-BU-1356 Care of House Plants (F)

LEADER LITERATURE:

Same as in Bulletins and Records

SUPPLEMENTARY PUBLICATIONS:

- ___ AG-FS-1031 House Plant Insect Control (A)
- ___ AG-FS-1127 Cacti and Succulents (A)
- ___ AG-FS-1118 Outdoor-Indoor Geranium Culture (A)
- ___ AG-FS-1130 Caring for Houseplants in Northern Climates (A)
- ___ AG-FS-1116 Forcing Bulbs for Indoor Beauty in Winter (A)

AUDIO/VISUAL MATERIALS:

- ___ AG-SS-4071 Care of Flowering Plants in the Home
- ___ AG-SS-4136 Decorating With Houseplants
- ___ AG-SS-4288 Growing Houseplants
- ___ AG-SS-4419 Making a Forsythe Pot (for rooting cuttings)
- ___ AG-SS-4369 Interior Plants—Care and Design, Parts I-V (261 slides, 5 cassettes)
- ___ AG-SS-4370 Interior Plants—Care and Design, Parts VI-IX (179 Slides, 4 cassettes)

LAWN & LANDSCAPE DESIGN

BULLETINS AND RECORDS:

2211 Beginner

- ___ 4H-BU-0383 Lawn and Landscape Design (1/career) (E)
- ___ 4H-MI-0382 Lawn and Landscape Design (Beginner Record) (1/year) (A)
- ___ 4H-BU-0384 4-H Lawn Care (1/career) (D)

2212 Intermediate

Same items as 2211, plus:

- ___ 4H-MI-0385 Lawn and Landscape Design (Junior and Advanced Record) (1/year) (B)

2213 Advanced

Same items as 2212

LEADER LITERATURE:

- ___ 4H-BU-0383 Lawn and Landscape Design(1/career) (E)
- ___ 4H-BU-0384 4-H Lawn Care (1/career) (D)

SUPPLEMENTARY PUBLICATIONS:

- ___ AG-FO-0628 Pruning Trees and Shrubs (B)
- ___ AG-FS-0998 Boxelder Bugs (A)
- ___ AG-FO-1008 Controlling Lawn and Turf Insects (B)
- ___ AG-FS-1009 Plant Galls (A)
- ___ AG-FS-1019 Scale Insects on Trees and Shrubs (A)
- ___ AG-FS-0915 Pesticide Application Record (S)
- ___ NR-BU-0468 Farmstead Shelterbelts—Protection Against Wind and Snow (E)
- ___ AG-MI-0488 The Home Lawn (D)
- ___ AG-FS-1114 Ground Covers for Rough Sites (A)
- ___ AG-FS-1158 Fungicides for the Home Garden (A)
- ___ AG-FO-1164 Verticillium Wilt of Trees and Shrubs (B)
- ___ AG-FO-0604 Fitting Trees and Shrubs Into the Landscape (B)
- ___ AG-FO-1411 Protecting Trees and Shrubs Against Winter Damage (B)
- ___ AG-FS-0466 Native Trees that Can be Used for Landscaping (A)
- ___ AG-FO-0704 Insecticide Suggestions to Control Tree and Shrub Insects (C)

- ___ AG-FS-1123 Thatch Control in Lawns and Turf (A)
- ___ NR-FS-1066 Protecting Trees From Animal Damage (A)
- ___ AD-SB-3017 Caring for the Countryside (F)
- ___ AG-FO-1430 Choosing Landscape Evergreens (B)
- ___ AG-MI-3821 Fertilizing Garden and Landscape Plants and Lawns (C)
- ___ AG-FO-5891 Responsible Use of Lawn Care Pesticides (B)
- ___ AG-FO-2421 Tree Fertilization (B)
- ___ AG-MI-3898 Tree Owner's Manual (S)
- ___ AG-FO-5890 Lawn Care Practices to Reduce the Need for Fertilizers and Pesticides (B)
- ___ AG-FO-3238 Prairie Communities (D)

AUDIO/VISUAL MATERIALS:

- ___ AG-SS-4634 The Tools and Techniques of Pruning
- ___ AG-SS-4274 Gardens to Stay Home In
- ___ AG-SS-4115 Cool Turfgrasses
- ___ AG-SS-4154 Dutch Elm Disease in Minnesota
- ___ AG-SS-4391 Landscaping Minnesota Homes
- ___ AG-SS-4536 Pruning Trees and Shrubs
- ___ AG-SS-4588 Shade Trees for Southern Minnesota
- ___ AG-SS-4593 Shrubs for Use in Landscape Plantings
- ___ AG-SS-4646 Trees and Shrubs for Northwestern Minnesota
- ___ AG-SS-4647 Trees for Use in Landscape Plantings
- ___ AG-SS-4633 The Tools and Techniques of Fertilizing Urban Trees and Shrubs
- ___ AG-SS-4694 Wild Flowers for Minnesota

Videos of the Minnesota Gardening TV series are available for rental; consult the Extension Distribution catalog for topic titles.

Watch Distribution Center Updates for new titles as added.

PLANT AND SOIL SCIENCE

UNIVERSITY OF MINNESOTA SPECIALIST SUPPORT:

Vernon Cardwell, Professor, Agronomy and Plant Genetics
John Goodding, Professor Emeritus, Agronomy and Plant Genetics

BULLETINS AND RECORDS:

2701 Exploring the World of Plants & Soils—I

- ___ 4H-MI-0386 Plant and Soil Science Record, all phases (1/year) (A)

2702 Plant Reproduction—II

- ___ 4H-MI-0386 Plant and Soil Science Record, all phases (1/year) (A)

2703 Plant Growth and Food Production—III

- ___ 4H-MI-0386 Plant and Soil Science Record (all phases) (1/year) (A)

LEADER LITERATURE:

- ___ 4H-FO-0367 4-H Leader's Horticultural Guide (D)

SUPPLEMENTARY PUBLICATIONS:

Weed Control

- ___ AG-FO-0776 Weed Seedling Identification (C)
- ___ AG-MI-1350 Annual Broadleaf Weed Identification (S)
- ___ AG-MI-1349 Annual Broadleaf Weed Seedling Identification (S)
- ___ AG-MI-1352 Annual Grass and Perennial Weed Identification (S)
- ___ AG-MI-1351 Annual Grass and Perennial Weed Seedling Identification (S)

Insect Control

- ___ AG-MI-0569 Corn Insects—Above Ground (C)
- ___ AG-BU-0500 Insecticide Suggestions to Control Insect Pests of Field Crops in 1988 (E)
- ___ AG-MI-0572 Common Small Grain Insects (C)

Soils and Their Management

- ___ AG-FO-0794 Sulfur for Minnesota Soils (D)
- ___ AD-MR-5615 Varietal Trials of Farm Crops (revised annually) (E)

VEGETABLE GARDENING

BULLETINS AND RECORDS:

2331 Beginner

- ___ 4H-BU-0378 Vegetable Gardening (1/career) (D)
- ___ 4H-MI-0377 Vegetable Garden Record (Beginner) (1/year) (A)
- ___ 4H-FO-0379 Preparing Vegetables for Exhibit (1/career) (C)

2332 Intermediate, 2333 Advanced

Same items as 2331, plus:

- ___ 4H-MI-0380 Vegetable Garden Record (Junior and Advanced) (B)

LEADER LITERATURE:

- ___ 4H-FO-0367 4-H Leader's Horticultural Guide (D)
- ___ 4H-BU-0381 4-H Vegetable Gardening Through the Seasons (leader's guide) (1/career) (F)

SUPPLEMENTARY PUBLICATIONS:

- ___ AG-FS-0433 Starting Garden Seed Indoors (A)
- ___ AG-FS-0431 Growing Vine Crops (A)
- ___ AG-FS-0434 Growing Salad Vegetable Crops (A)
- ___ AG-FS-0435 Growing Carrots and Other Root Vegetables (A)
- ___ AG-FS-0436 Growing Cole Crops (A)
- ___ AG-FS-0437 Growing Rhubarb (A)
- ___ AG-FS-1028 Protecting Honey Bees from Insecticides (A)
- ___ AG-FS-1427 Controlling Diseases in the Home Vegetable Garden (A)
- ___ AG-FS-1421 Planning the Vegetable Garden (A)
- ___ AG-FS-1422 Planting the Vegetable Garden (A)
- ___ AG-FS-1423 Summer Care of the Vegetable Garden (A)
- ___ AG-FS-1424 Harvesting and Storing Garden Vegetables (A)
- ___ AG-FS-1158 Fungicides for the Home Garden (A)
- ___ AG-FS-1167 Damping-off of Seedlings (A)
- ___ AG-FS-1169 Diseases of Cole Crops (A)

- ___ AG-FS-1172 Diseases of Cucurbits (A)
- ___ AG-FS-1155 Parasitic Diseases of Tomato (A)
- ___ AG-FS-1156 Nonparasitic Disorders of Tomatoes (A)
- ___ AG-FS-1168 Tomato-Tobacco Mosaic Virus Disease (A)
- ___ AG-FO-1425 Suggested Vegetable Varieties for Home Gardeners in Minnesota (B)
- ___ NR-FS-5950 Home Garden Pesticides (Waste Education) (B)
- ___ AG-FS-3899 Backyard Composting (A)
- ___ AG-FO-2412 Disease-Resistant Vegetable Varieties (C)

AUDIO/VISUAL MATERIALS:

- ___ Preparing and Evaluating 4-H Horticulture Exhibits*
- ___ Preparing 4-H Vegetable Exhibits*
- ___ AG-SS-4040 Basic Vegetable Gardening
- ___ AG-SS-4306 Herbs in MN Gardens

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Self Determined

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6800

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____ 4H-MI-0364 Creating an Exciting Self-Determined Project



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