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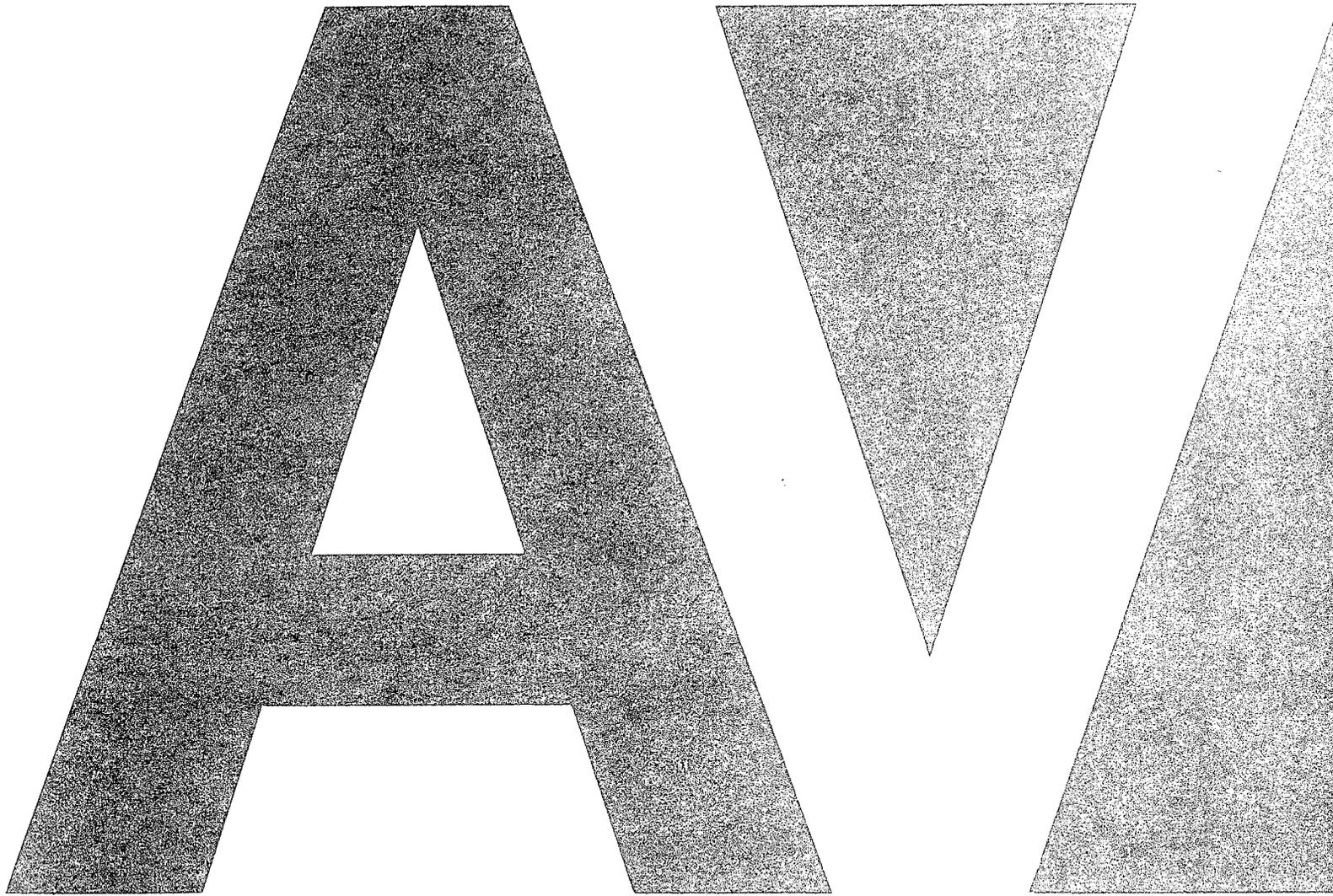
1977
Extension Service, University of Minnesota

UNIVERSITY OF MINNESOTA
DOCUMENTS
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ST. PAUL CAMPUS LIBRARY

Audiovisual Teaching Materials

Visual Aids, Agricultural Extension Service
442 Coffey Hall, 1420 Eckles Avenue
University of Minnesota, St. Paul, Minnesota 55108
Telephone: (612) 373-1252

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Current information available from University of Minnesota Extension: <http://www.extension.umn.edu>.



CATALOG OF AUDIOVISUAL TEACHING MATERIALS

Available from the Agricultural Extension Service

Order from: Visual Aids
Agricultural Extension Service
442 Coffey Hall
1420 Eckles Ave.
University of Minnesota
St. Paul, MN 55108

The Agricultural Extension Service Teaching Materials Library of the University of Minnesota is maintained primarily to serve agricultural extension workers, teachers, and other professionals in agriculture, forestry and home economics.

1977

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COMMENT CARDS

We are on a computerized system for recording the usage of our library materials. The comment cards (see card sample below) are the basis for our information on the use, physical quality, and educational value of all materials. Any item indicated as being of questionable educational value or in poor physical condition will be reviewed by the appropriate subject matter specialist and removed or revised as the specialist directs.

To maintain the quality of the library, it is important that you fill out the comment card. It is attached to the address card which accompanies all audiovisual material.

COOPERATIVE EXTENSION WORK IN AGRICULTURE AND HOME ECONOMICS U.S. DEPARTMENT OF AGRICULTURE AND UNIVERSITY OF MINNESOTA COOPERATING			
Film _____	Slide Set _____	Date Returned _____	
Number _____	Title _____		
Name _____			
<u>Position</u>			
County Staff _____	State Staff _____	Vo. Ag. _____	Other _____
No. of Showings _____	Total Attendance _____		
Type of Audience: Adult _____	Jr. _____	Both _____	
Educational Value: Good _____	Fair _____	Poor _____	
Physical Condition: Good _____	Poor _____		
Comments _____			

SERVICE CHARGES

There is no charge for visuals to staff members of the Institute of Agriculture, Forestry and Home Economics. This includes all Agricultural Extension personnel. The Agricultural Extension Service finances the library and its operation.

For all others who use the library, there is a service charge indicated by a letter code in the description of each title. These charges help cover the cost of mailing, inspecting, repairing, receiving, and replacing materials in the library.

CODE	PRICE
A	\$2.50
B	\$3.00
B-1	\$3.75
C	\$4.50
D	\$6.00
E	\$7.50
F	\$10.00
G	\$12.50
H	\$15.00

For materials not returned within 10 days of the showing date, a second booking fee will be charged.

USING VISUALS FOR OPEN CIRCUIT OR CABLE TELEVISION

Films and video tapes which have been cleared for television use are marked in the catalog with a "TV" notation.

OTHER LOCAL SOURCES OF VISUAL MATERIALS

Audio-Visual Library Service
3300 University Avenue
University of Minnesota
Minneapolis, MN 55414
(612) 373-3810

Allis Chalmers Manufacturing Company
Box 1259
Minneapolis, MN 55440
(612) 944-1500

Boyd Film Company
Liberty State Bank Building
St. Paul, MN 55104
(612) 644-7317

Crop Quality Council
P.O. Box 15047
307 - 4th Avenue South
Minneapolis, MN 55415
(612) 333-5237

Elliott Film Company
2635 Nicollet Avenue
Minneapolis, MN 55408
(612) 827-1793

Cenex
Box G
St. Paul 55165
(612) 451-5133

Ideal Pictures
3410 Winnetka Avenue North
New Hope, MN 55427
(612) 546-7165

Minneapolis Public Library
300 Nicollet Mall
Minneapolis, MN 55401
(612) 372-6558
(for metropolitan use only)

Minnesota Department of Public Safety
Transportation Building
Room 314
St. Paul, MN 55155
(612) 296-6119

Minnesota Lung Association
614 Portland Avenue
St. Paul, MN 55102
(614) 227-8014
(for counties other than Hennepin)

American Lung Association of Hennepin
County
1829 Portland Avenue
Minneapolis, MN 55404
(612) 871-7332
(for Hennepin county only)

Modern Talking Picture Service
9129 Lyndale Avenue South
Minneapolis, MN 55420
(612) 884-5383

Educational films
(rental library)

Entertaining and
educational films,
mostly on agriculture

Sponsored films on hunting,
fishing, skiing, conservation,
bicycle safety, and poisons

Three films on wheat crop
improvement

Entertainment, comedy, cartoons,
many sponsored films

Agricultural films such as on
co-ops

Entertainment, comedy, cartoons,
educational, religious films

Entertaining, educational,
children's, and travel films,
also documentaries

Films on traffic safety

Health education, respiratory
disease, anti-smoking, and air
pollution

Educational and sponsored films
on sports, science, and social
science

9200 Film Center
9200 Wayzata Boulevard
P.O. Box 1113
Minneapolis, MN 55440
(612) 540-3169

St. Paul Public Library
90 West 4th Street
St. Paul, MN 55102
(612) 224-3383
(for metropolitan use only)

Educational and sponsored films

Entertainment, educational films

Slide Sets

742 Agriculture and the Changing Environment

Describes problems involved in solving pollution; shows some research and the effects of good stewardship of natural resources. For adolescent or adult audience.

78 slides, color and b/w, USDA. 1970. (B)

941 Building our American Communities, 1973 Regional Winners

Quality of life — that's what BOAC is all about. Describes projects of 1973 FFA National BOAC award winners. Ideal for chapters looking for community improvement project ideas.

81 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 12:00), National FFA Foundation (courtesy, Lily Endowment, Inc.). 1973. (B)

58 County Fair Displays

Gives ideas on exhibiting clothing, arts and crafts, and horticulture projects. For 4-H leaders and fair department superintendents.

18 slides, color, Wayne H. Hanson, assistant leader, agriculture/related program industries, University of Minnesota. 1977. (B)

864 County Fair Management

Shows how communities can become involved in local county fairs, using 1972 Minnesota County Fairs as examples. Includes fairground entrance fences, parking facilities, rest areas, special displays, historical features, children's barnyards, buildings' labels, special exhibits, and the involvement of senior citizens, commercial exhibitors and organizations.

65 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 13:00), Wayne H. Hanson, assistant program leader, agriculture/related industries, University of Minnesota. 1973. (B)

77 Exploring Minnesota's Communities

Features 17 Minnesota communities from every part of the state. Designed to stimulate viewers to notice the highlights present in every community. Especially useful for travelers in Minnesota.

44 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 11:00), Uel Blank, extension resource economist, University of Minnesota. 1976. (B)

65 Ideas for County Fairs — 1973

Presents new ideas and programs for county fairs in Minnesota, with slides taken at fairs in east central, southwest, and southeast Minnesota.

58 slides, color, Wayne H. Hanson, assistant program leader, agriculture/related industries, University of Minnesota. 1973. (B)

66 Ideas for County Fairs — 1975

Presents ideas and programs for county fairs, with slides taken at fairs in northwest and west central Minnesota.

69 slides, color, Wayne H. Hanson, assistant program leader, agriculture/related industries, University of Minnesota. 1975. (B)

876 Land Planning — Practice and Promise

Of particular interest to people living in metropolitan areas, around lakes, and in 1st and 2nd class cities. Planning commissions, zoning administrators, county agents, and home economists could use to promote planned unit development for residential land use.

80 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 27:00), U.S. Savings and Loan League. 1972. (B)

71 Means for Living

Designed to help viewers better understand Minnesota's economy. Discusses agribusiness, manufacturing, forestry, mining, and Minnesota specialties such as snowmobile and hockey stick manufacture.

50 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 12:30), Uel Blank, extension resource economist, University of Minnesota. 1976. (B)

78 Minnesota's Natural Wonders

Minnesota offers a wide variety of experiences to the sightseer. Gives an interesting background on Minnesota landforms. Useful for all age groups in helping to understand and appreciate the state's natural features.

38 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 11:00), Uel Blank, extension resource economist, University of Minnesota. 1976. (B)

Slides continued

755 Residential Development Patterns

Traces concepts of cluster development, density zoning and planned unit development for subdividing land for residential purposes. Stresses application in metropolitan areas and includes recreational-residential combinations, similar to those employed in recreational home development in Minnesota. Recommended for planning commissions, landowners, and developers.

115 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 11:00), National Assn. of Home Builders. 1970. (B)

Films

3021 Air is for Breathing

Identifies major pollutants in large cities and shows the technological arsenal being assembled to make war on pollution. Looks at research that is broadening our technical capability and discusses the complexity of this man-created problem, and the cooperative effort which will be needed to overcome it. For high school classes, adults, service clubs, and others concerned with air pollution problems.

29 min., color, Shell Oil Co., TV. 1972. (E)

3018 America the Beautiful

A short and strikingly effective film that arouses an awareness of the growing threat of pollution. To the tune of "America The Beautiful," the audience witnesses shockingly ugly scenes created by various pollutants. Excellent to set the mood for discussion on pollution. For any audience interested in pollution.

3 min., color, General Electric Education Films, TV. 1972. (C)

3027 An Approach to School Site Development

With proper planning, school sites can be developed and utilized to help increase interest, awareness, understanding, and respect for the environment. Emphasizes considering unique natural features as one of the criteria in the selection of a school site. In site development, blending beauty and utility, developing an outdoor laboratory of plant and animal life, and involving children are discussed. Using Ann Arbor High School in Michigan as an example, the film shows the advantages of a well-designed site to the total instructional progress of the school system (K-12). Recommended for teachers, school and city planners, and conservation organizations.

19 min., color, International Film Bureau, TV. 1971. (D)

3066 Building a Community Center — USA

Shows how a happier, more united community was developed through effective rural leadership. Explains how a community center organized a number of activity projects, including furniture refinishing, woodworking, metal working, copper enameling, tray stenciling, rug braiding, and camping. Any farm organization interested in community improvement would find this film helpful.

27 min., color, Rural Research Institute, not TV. 1962. (E)

3224 The Garbage Explosion

Illustrates where garbage comes from and why it is a problem in our society. Shows how garbage can be disposed of in landfills and later developed into park, airport, and apartment sites. Also illustrates the use of incinerators, compactors, and shredders. Looks at disposal research and technology, and reclaiming and recycling solid wastes. For adolescent or adult audience.

16 min., color, Encyclopædia Britannica, not TV. 1970. (D)

3289 Inland Lake Demonstration Project

Shows a review of lake restoration and protection projects carried out as experiments in Wisconsin. Lake bottom dredging, shoreline improvement, phosphorus precipitation, and recreation development planning are shown. Good planning is emphasized. For adult audience.

28 min., color, Byron Motion Pictures, TV. 1971. (E)

3323 The Land Changes

A newspaperman tells how wornout, nearly worthless land can become an asset to local communities. Shows land acquired for national forest purposes in the Shawnee, the Hoosier, and the Wayne National Forests in the Ohio Valley. Such land improved with reforestation, protection, and proper management helped man and his community to prosper.

13½ min., color, USDA, TV. 1957. (D)

3328 Later....Perhaps

Produced to advocate and to stimulate inclusion of environmental education materials in all schools. Explores compounding pollution evils and places the blame on us all. Recommended for general audiences, schools, and teacher conferences.

26 min., color, New Jersey State Council For Environmental Education, TV. 1971. (E)

Agricultural and Applied Economics—Community Resource Development

Films continued

3346 Lots for Sale

For use in rural-urban fringe areas where farm land is being taken over for new developments. Makes a good case for careful planning before communities are laid out.

18 min., color, University of Wisconsin, TV. 1958. (D)

3362 Metropolitan Planning

Parts of three television programs of metro planning in the Twin Cities. Shows the uncoordinated development of cities. Useful for people involved in suburban development planning in the early stages.

36 min., blw, kinescope, University of Minnesota, TV. 1967. (E)

3380 MUD

Shows gullying erosion and destructive lake siltation caused by the inept or careless developer, road builder, or local government agency who scalps the land without taking adequate precautions. Presents simple erosion control procedures and devices used by the well-informed developer to save money for himself and the community and conserve natural resources.

20 min., color, Stuart Finley Films, not TV. 1968. (E)

3390 A Nation of Spoilers

Covers the "litter" problem and also deals with vandalism, vulgarism, and disfiguring of monuments and scenic places. Shows the effect of litter on wildlife and wild flowers. Useful at any time of year for almost any meeting.

11 min., color, Alfred Higgins Productions, not TV. ND. (C)

3407 The Noisy Landscape

Illustrates the need for better sign design, showing examples from new towns and shopping centers. Does not stress reduction or elimination of signs. A 1969 Minnesota Supreme Court decision has cleared the way for heavy reliance on aesthetic consideration as a basis for zoning controls. Useful for village, township, and county planning commissions, especially in resort areas.

13½ min., color, American Institute of Architects, TV. 1970. (D)

3411 Nutrient Pollution of Our Lakes

A lecture on why lakes become polluted and suggested methods by which the process can be slowed. Given by Dr. Lloyd Smith, Jr., Department of Entomology, Fisheries and Wildlife, University of Minnesota.

28 min., color, University of Minnesota, TV. 1970. (E)

3704 Of People, Land and Planning

Several major issues of land use and planning in Wisconsin are presented: land use planning and economic development, recreational pressure, urban land use conflicts, urban sprawl, the loss of farm land, the role of wetlands, and planning around transportation facilities. For adolescent or adult audience.

26 min., color, USDA, TV. 1975. (E)

3444 People ECO Action

Presents the issues, pressures, and problems facing citizens as they attempt to do more than just talk about pollution control. Documents and analyzes actual cases involving decision-making problems in environmental quality maintenance and helps the audience relate its own situation to that of people in other situations. For adolescent or adult audience.

29 min., color, University of Minnesota, not TV. 1969. (E)

3462 Poverty in Rural America

"Hidden Americans" live in the mountain hollows, at the end of the rutted dirt roads, and in bypassed communities. These people tell their own story of their problems, their privations, and their hopes. For adolescent or adult audience.

28½ min., blw, USDA, TV. 1965. (E)

3486 Regional Development

Discussion on the subject of regionalization, the role of the University, and the community concept by Malcolm Moos and Harold LeVander led by John Hoyt.

30 min., blw, kinescope, University of Minnesota, TV. 1968. (E)

3487 Regional Education Centers

Discussion of the State College System and its role as it relates to the University and to state development planning by G. Theodore Mitau and John Hoyt.

30 min., blw, kinescope, University of Minnesota, TV. 1968. (E)

3488 Regional Systems

Discussion of regionalization as it has developed in Minnesota by James Goetz and John Hoyt. (Taped prior to the passage of the Regional Development Act of 1969.)

30 min., blw, kinescope, University of Minnesota, TV. 1968. (E)

Agricultural and Applied Economics —Community Resource Development

Films continued

**3237 Shoreland Development —
A New Approach**

Suggests a cluster offshore design concept which preserves water quality and the beauty of shoreland areas and provides the developer a good profit margin. Intended for developers, planners, governmental officials, and citizen groups.

17 min., color, Byron Motion Pictures, Inc., TV. 1973. (D)

3538 Smalltown U.S.A.

Shows the difficulties, problems, and promise of three small towns. The first faces change, the second death, and the third survival. A good film to precede discussion of economic growth, population changes, job opportunities, and related topics. Suitable for any audience above 10-year-olds.

30 min., b/w, Encyclopedia Britannica Films, Inc., not TV. ND. (E)

3637 What's Happening to our Lakshores?

Shows graphically the dangers of letting lake property evolve without intelligent planning. Discusses factors in planning to discourage tourism around local lakes and covers neighborhood and area responsibilities in developing new lakeshore property. Suggests sources of help for planning lake developments. For adolescent or adult audience.

23 min., color, USDA, TV. 1965. (E)

3638 What's Happening to our Landscape?

Encourages land use planning and regulation. Stimulates interest in community action to control highway billboards and land use that would affect the public interest. For adolescent or adult audience.

20 min., color, University of Wisconsin, TV. 1969. (E)

3635 What Kind of Tomorrow

Shows many cultural, economic, and geographic advantages of the Twin Cities metropolitan area. Points out these will not continue or expand without systematic planning. Points out planning must take into account community facilities such as schools, parks, and shopping centers. Suggests community groups with which viewers might work. For adolescent or adult audience.

15 min., color, Agricultural Extension Service, University of Minnesota, TV. 1967. (D)

3665 Wisconsin Faces the Solid Waste Problem

Discusses various alternatives for solid waste management, with major emphasis placed on sanitary landfills. Gives examples of successful landfill operations in winter as well as summer, and shows how small communities can cooperate to solve their mutual problems. Intended for municipal governments in small communities, county officials, planners, and others interested in solid waste management.

23 min., color, USDA, TV. 1972. (E)

AGRICULTURAL AND APPLIED ECONOMICS—FARM MANAGEMENT,
MARKETING AND PUBLIC POLICY

Slide Sets

747 Financial Protection Program

Illustrates USDA's program of helping producers protect themselves financially when they market livestock. Farmers often sell livestock direct and only spend a few days per year in the marketing process. They need more knowledge about current problems in marketing and payment conditions. Recommended for agriculture classes and agricultural extension personnel.

54 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 15:00), USDA. 1970. (B)

22 Inflation and Recession — the Horns of a Dilemma

Defines and discusses the problem of inflation: 1) a review of factors causing the large inflation rates of 1973-75, 2) a discussion of causes of inflation, 3) a discussion of actions that can be taken to combat each of the causative factors, and 4) an explanation of how the government controls the supply of money. Slides are mostly cartoon drawings and word outlines.

79 slides, color, cassette tape, (automatic, inaudible 1000 Hz pulses, time 25:00), Michigan State University. 1975. (B)

963 Meat in a Hungry World

Is meat an inefficient form of food production? Should the U.S. stop producing meat in an attempt to raise more grain to feed a hungry world? This slide set attempts to answer these questions and explain the steps in modern meat production. For adolescent or adult audience.

52 slides, color, American Meat Institute. 1974. (B)

80 The Story of Bruised Meat

Shows bruised sections of carcasses caused by improper handling of livestock.

48 slides, color, National Livestock Loss Prevention Board. 1975. (B)

935 The World Food Situation

Uses a series of charts and graphs to explain why world food production has fallen behind supply. Can be used as is or some slides could be incorporated into a larger presentation. For adult audience.

22 slides, color, USDA. 1974. (B)

Films

3022 An A for the B & C Way

Describes the operation of the Bank for Co-ops. Interesting and entertaining, the film is promotional of co-op banking.

22 min., color, Farm Credit Banks of St. Paul, not TV. n.d. (E)

3017 Alice in Numberland

Intended to show why statistical reporting in agricultural production and consumption is essential in our economy. Explains the important part reporting plays for various people involved in producing, processing, transporting, storing, and marketing food. For a general audience.

16 min., color, USDA, TV. 1962. (D)

3043 Beef Rings the Bell

Shows production, marketing, and processing of beef. A few meat cuts are also shown. Planned for use as an entertainment feature or as a meeting opener.

25 min., color, Union Pacific Railroad, TV. n.d. (E)

3090 A Compass for Agriculture

Explains how USDA and state agricultural departments collect data for crop and livestock reports. Shows how extreme care is taken to make sure everyone gets all market reports at exactly the same time. Useful as an introduction to a discussion of market reports and outlook material.

22 min., color, USDA, TV. 1959. (E)

3133 An Easier Way

Features a farmer-owned cooperative which distributes formula feeds through bulk feed stations to farmers. Contrasts older ways of handling feed with newer methods which reduce costs and labor.

4 min., color, USDA, TV. 1964. (C)

3136 Economics of Cattle Feeding: Controlling Feed Costs — I

Shows how to improve management skills and discusses feed-cost factors. Deals with the low-cost ration ingredient question — what combination of shelled corn, corn silage, ear corn, and hay or haylage is most economical? Also talks about feed additives. For cattle feeders, county extension agents, and vocational agriculture teachers.

27½ min., b/w, kinescope, University of Minnesota, TV. 1971. (E)

Agricultural and Applied Economics—Farm Management, Marketing and Public Policy

Films continued

3137 Economics of Cattle Feeding: Controlling Nonfeed Costs — II

Deals with nonfeed costs which rise relative to feed costs. Shows how ration influences storage costs, labor, housing, and interest costs. Percent use of capacity affects overhead costs and type of feeding system affects cost differently. Storage structures must be selected to fit size and type of operation. Housing system options vary from no housing dirt lots to completely confined, slatted-floor housing. For beef feeders, county extension agents, and vocational agriculture teachers.

27½ min., b/w, kinescope, University of Minnesota, TV. 1971. (E)

3138 Economics of Cattle Feeding: Selecting Feeder Cattle — III

Covers three questions: 1) should you buy plain or fancy feeders? 2) should you buy steers or heifers? 3) should you buy calves or yearlings? Develops a decision-aid model to answer these questions. For cattle feeders, county extension agents, and vocational agriculture teachers.

27½ min., b/w, kinescope, University of Minnesota, TV. 1971. (E)

3145 The Eleventh Round: After 50 Years

Depicts the problem of cost-price squeeze: food costs and farm prices; rural to urban migration; economic and social problems of commercial farm families and families on small farms and in small towns.

27 min., color, Great Plains Council, University of Nebraska, TV. 1969. (E)

3146 The Eleventh Round: Bargaining Power

Shows marketing orders and agreements as methods of improving net farm income. Discusses effective bargaining, farmers' management decisions, and consumer prices.

27 min., color, Great Plains Council, University of Nebraska, TV. 1969. (E)

3147 The Eleventh Round: Imports and Exports

Discussion of prevailing protectionist mood in world trade. Points out who gains and who gets hurt by more trade among nations, and the major choices in trade policy.

27 min., color, Great Plains Council, University of Nebraska, TV. 1969. (E)

3148 The Eleventh Round: Shape of the 70's

Discusses capital and management needs for commercial farms, the role of small towns in rural areas, improvement in the quality of life in mid-America, and the responsibility of the private citizen in public policy formation.

27 min., color, Great Plains Council, University of Nebraska, TV. 1969. (E)

3149 The Eleventh Round: Which Way Now

Discussion of the main choices in federal farm programs, effects on farm incomes, food prices, foreign markets, taxpayer's costs, and rural communities.

27 min., color, Great Plains Council, University of Nebraska, TV. 1969. (E)

3171 The Fact Finders

Describes the crop reporting service of the USDA, from the farmer through the State-Federal Crop Reporting Service back to farms and agribusiness. For marketing people, trade associations, vo-ag classes, and other educational groups.

31 min., color, USDA, TV. 1967. (E)

3177 Farmer for the World

Today's export growth is a historic development in American agriculture. Filmed abroad and told by people using our farm products for better living around the world, in Germany, Japan, Spain, and India.

28½ min., color, USDA, TV. 1968. (E)

3232 Grain Exchange — Instrument of Freedom

The grain exchange is a means of organized and efficient marketing in a freely competitive surrounding. The market was born to bring together farmers of the northern plains and their customers around the world. Describes the history and the mechanical complexities of the marketplace.

22 min., color, Farm Film Foundation, TV. 1967. (E)

3220 How People do Business in our Democracy

Discusses the four methods of organizing to do business in a democracy. It explains how each method — individual, partnership, corporation, cooperative — is established and how it works. Examples of each are illustrated. Shows how the methods depend on each other to meet the human needs of people in a democracy.

30 min., color, Minnesota Assn. of Cooperatives, TV. 1976. (E)

Agricultural and Applied Economics—Farm Management, Marketing and Public Policy

Films continued

3339 Livestock Pooling

Gives reasons for pooling livestock on the auction market.

4½ min., color, USDA, TV. 1972. (C)

3348 The Magic Formula

Describes the concept of parity, how it developed, and its shortcomings.

30 min., blw, Michigan State University, TV. 1956. (E)

3398 New Hired Hand

Describes the computer farm program used in Indiana, but useful in Minnesota. Shows computer use in farm management, importance of crop timeliness, matching machines to acres, the use of linear programming, and data needs for planning. For adolescent or adult audience.

17 min., color, Allis Chalmers Corp., TV. 1973. (D)

3451 A Place Under the Sun

Explains land title insurance. Presents many little known facts about title to land, land transfer, and rights of previous ownerships. Discusses problems in acquiring good land titles. Tends to promote title insurance. Recommended for senior high school, vo-ag classes, and young adults.

21 min., color, American Land Title Assn., TV. 1960. (E)

3452 Plant for the Future

Tells how a group of growers formed a home industry designed to grade and pack fresh apples for today's demanding markets. With assistance from the Rural Areas Development Program, these Pennsylvania farmers formed a packing cooperative that benefited the locality as well as themselves.

11 min., color, USDA, TV. 1963. (C)

3504 Run for the Money

Describes soybean harvest losses, the major causes, and combine adjustments and operating procedures to reduce losses. Outlines a method of estimating losses and determining the cause of the major loss. Could be used by county extension agents, agriculture teachers, machinery dealers, and others at a local level.

20 min., color, Ohio State University, TV. 1968. (E)

3521 Science of Profitable Dairying

Deals with the principles of milk production with special emphasis on nutrition. Process of milk secretion illustrated by animation. Laboratory, classroom, and milking parlor scenes used effectively.

25 min., color, Ralston-Purina Co., TV. 1960's. (E)

3565 There Oughta be a Law

How does our legislature operate? What kind of impact can local citizens with a problem have on the legislature? How does a senator or representative gain support for a bill requested by one of his constituents? These questions are answered by the Minnesota State Legislature. Actual proceedings filmed in committee rooms, legislators' offices, and the house and senate chambers. Minnesota citizens of all ages should see this film.

28 min., color, Minnesota State Legislature, TV. 1970. (E)

3568 This is Livestock Pooling

Shows livestock selling through auction market pooling. Advantages of marketing livestock by this method are explained. Helpful in a high school agriculture class or an adult group discussing marketing methods.

5 min., color, USDA, TV. 1965. (C)

3641 Wheat Marketing

Discusses classes of wheat, location of production of each class, and marketing alternatives facing farmers — sale at harvest, store for later sale, forward contracting, hedging, and collective bargaining. Suitable for consumers and farm groups.

20 min., color, Farm Film Foundation, TV. 1974. (E)

AGRICULTURAL ENGINEERING

Slide Sets

766 Adventures with your Snowmobile

Discusses the operation and maintenance of the snowmobile. Covers such items as clothing, pre-start check of the machine, riding positions, hand signals, trail signs, hazards, transporting the machine, and maintenance. For any group learning or improving snowmobile operation.

79 slides, color, John A. True, extension agricultural engineer, and Wayne E. Carlson, extension specialist, 4-H Youth Development, University of Minnesota. 1971. (B)

906 Hand Signals for Agriculture

Hand signals which prevent accidents and save time are useful when noise and distance makes voice communication difficult or impossible. The signals illustrated have been tested in several states and are similar to those used in other occupations. Most are one-armed for additional ease of use.

12 slides, color, USDA. 1973. (B)

253 How Electric Motors Start and Run

Part I deals with how permanent magnets and electromagnets work and function together to make a simple motor. Part II shows how split phase, capacitor, and universal motors start and run. Explains the operation of a repulsion-induction motor. No script; captions on slides.

84 slides, color, Southern Association of Agricultural Engineering and Vocational Agriculture. 1950's. (B)

172 How to Build A Fence

Tackles all major problems involved in fencing and points up the advantages of good fences, especially with farming practices of crop rotation, contour farming, rotational grazing, and livestock disease control. Also covers problem fences, temporary fences, and gates.

43 slides, blw, Successful Farming Magazine. 1954. (B)

785 Play It Safe

Discusses knowledge and good judgment of safe tractor operation and illustrates care and maintenance of the tractor and safety factors. Stresses accident prevention. Useful for 4-H clubs and vo-ag classes.

79 slides, color, Ford Motor Co. 1971. (B)

668 Tractor Tragedy

Points out annual losses of human life and limb through tractor accidents and suggests methods of prevention. Applicable to Minnesota conditions. For adolescent or adult audience.

26 slides, color, Ohio State University. 1968. (B)

208 Using Power Tools Safely

Shows how to use power tools — grinders, drill press, circular saw, and band saw. Copied from printed safety literature. No script; captions on slides.

49 slides, color, University of Minnesota. 1956. (B)

207 Using Shop Tools Safely

Shows how to use shop tools — ladders, chisels, screwdrivers, and wrenches. Copied from safety literature. No script; captions on slides.

49 slides, color, University of Minnesota. 1956. (B)

728 Washout

Demonstrates how sediment that washes away from construction projects becomes a water pollutant.

50 slides, color, USDA. 1969. (B)

Films

3001 ABC of Hand Tools

A Walt Disney production showing use and care of common hand tools. Includes tips on sharpening and reconditioning damaged or dull tools. Part I (20 min.) gives general rules for handling a large variety of tools. Part II (18 min.) deals primarily with files, saws, chisels, planes, drills, and punches.

38 min., (two reels), color, General Motors Corp., not TV. 1950's. (E)

3000 ABC of the Automobile Engine

Animated drawings with a cut-a-way model show the operation of an automobile engine and how it runs the car. Discusses the four stroke cycle, fuel, exhaust, pollution control, and controlled combustion systems. For adolescent or adult audience.

15 min., color, General Motors Corp., TV. 1972. (D)

3009 Agricultural Engineering — The Profession with a Future

Presents the career of agricultural engineering to high school students and describes the basic pre-college courses needed. Includes pineapple and cotton plantations as well as corn and grain harvesting activities in the Upper Midwest.

14 min., color, USDA, TV. ND. (D)

Agricultural Engineering

Films continued

3011 Agricultural Waste Management

Presents problems in animal waste management. Shows new techniques on how dairymen, poultrymen, hog producers, and duck farmers handle farm wastes. Useful introduction to stimulate discussion. Recommended for vo-ag classes and adult farmers.

18 min., color, Cornell University, TV. 1970. (D)

3533 Cattle Corrals

Filmed on site during cow/calf handling operations on two western ranches. Illustrates safe, efficient corral designs and facilities. Shows two corral designs adaptable to various herd sizes. Design plans for all facilities are available from WRAES.

18 min., color, Western Regional Agricultural Engineering Services (WRAES), TV. 1976. (D)

3198 Combine Safety

Conveys basic principles of combine safety. Covers contact with moving parts, hydraulic lift elements, straw chopper and rear discharge, fire, overturns, transport accidents, and accidents to others. Useful in vo-ag classrooms and 4-H and FFA groups.

11 min., color, International Harvester, TV. 1976. (C)

3112 Diesel Decisions

Deals with the practical aspects of getting maximum return on a diesel tractor power investment. Decision areas include installation of power boosters with do-it-yourself engine adjustments; modifying engines; LP gas injectors and turbochargers; protection against dirt, water and rust in the air intake system and in the fuel system; fuel storage and handling with emphasis on elimination of contaminants; fuel and engine oil selection with proper selection of fuel and oils for diesel engines; and field and laboratory tests of fuels. Useful for adolescent or adult audience.

19 min., color, American Oil Co., TV. 1971. (D)

3129 Drying Corn

Shows recommended corn drying practices and points out problems that result from improper drying. Explains steps to take when corn becomes overheated.

3 min., blw, Corn Industries Research and USDA, TV. 1960's. (C)

3141 Electric Motors for the Farm

Compares three common types of electric motors for the farm (split phase, capacitor, and repulsion-induction) as to cost, construction, size, starting ability, and starting work.

5½ min., blw, University of Minnesota, TV. 1954. (C)

3209 Farm Tractor Safety

Discusses positive aspects of tractor safety, the major common-sense precautions the operator should observe, and the importance of a careful and well-informed operator in accident prevention. Includes several tractor overturn sequences and emphasizes the value of roll-over protection structures. Covers principles of PTO safety, the hazards of allowing extra riders, fuel handling safety, and safety precautions for transport on public road. Useful in vo-ag classrooms and for 4-H and FFA groups.

10½ min., color, International Harvester, TV. 1976. (C)

3203 ". . . For the Rest of your Life"

This National Society for the Prevention of Blindness safety film conveys the dangers to sight posed by anhydrous ammonia, explains proper techniques for applying this fertilizer, describes first-aid measures in case of an accident, and stresses the need for wearing proper eye and face protection when handling all ammonia fertilizers.

15 min., color, University of Iowa, TV. 1973. (D)

3221 Fundamentals of Shielded Metal-Arc Welding Techniques

Part I (22 min.) concentrates on flat and horizontal welding and stresses the four fundamentals of welding — current setting, angle of the electrode, length of arc, and speed of travel. Demonstrates some of the problems encountered. Includes machine setting, electrode selection, and techniques of various types of welds. Part II (23 min.) deals with vertical and overhead welding and features machine setting, electrode selection, and welding position. For adolescent or adult audience.

45 min. (two reels), color, Air Reduction Sales Co., not TV. 1960. (G)

3261 A Hole in the Pocket

Illustrates how corn harvesting losses such as ear, loose kernel, cylinder, and snapping roll loss occur during combining. Describes methods of measuring these losses in the field and suggests machine adjustments and operating procedures to reduce losses.

15 min., color, Ohio State University, TV. 1960's. (D)

3276 How to Prevent Corn Harvest Losses

Presents methods of preventing costly corn harvest losses. Fits Minnesota conditions and shows adjustments of the machine to correct the causes of losses.

15 min., color, Ohio State University, not TV. 1960's. (D)

Agricultural Engineering

Films continued

3298 Installing a Septic Tank

Designed for use in sanitation programs involving contractors, plumbers, inspectors, administrators, planners and realtors. Shows how percolation test results are used in designing soil absorption systems and details construction procedures.

22 min., color, USDA, TV. 1960's. (E)

3205 Lawn Mower Safety

Covers the major principles of safe operation of walking and riding rotary lawn mowers including blade precautions, thrown objects, use of guards and shields, hazards with children, back-up precautions, operation on slopes, and safe fuel handling. For adolescent or adult audience.

9½ min., color, International Harvester, TV. 1976. (C)

3350 Make it a Safe Harvest

Deals with hazards of the harvest season. Includes transmission of power, cutting and processing, transportation, storage of the crop, and fueling. Emphasizes the responsibility of the farm machine operator in preventing harvest accidents.

18 min., color, Group Health Mutual, Inc., TV. 1960's. (D)

3445 Pesticides: Fundamentals of Proper Application

Demonstrates common problems that occur with farm application of pesticides. Emphasizes selection of equipment, adjustment, calibration maintenance of sprayers, mixing and rule handling procedures.

21 min., color, Geigy Chemical Co., not TV. 1966. (E)

3501 The Rochester Story

Discusses decisions on where and how to construct a farm storage structure. Details the manufacture and erection of a concrete stave silo. For adult farm audience.

16 min., color, Rochester Silo, Inc., not TV. 1974. (D)

3502 Roll Gard

Demonstrates how the use of a roll guard, such as that used by a dirt track racer, protects a tractor operator in case of tip over or roll. Shows actual tractor tips and rolls with mannequin in seat.

10 min., color, Deere and Co., not TV. 1966. (C)

3504 Run for the Money

Describes soybean harvest losses, the major causes of them, and combine adjustments and operating procedures to reduce losses. Outlines a method of estimating losses and determining the cause. Useful for county extension agents, agriculture teachers, and machinery dealers.

20 min., color, Ohio State University, TV. 1968. (E)

3483 The REA Story

Tells how electric power has transformed life in rural America. Lets you visit a co-op consumer who recalls the drudgery before the advent of rural electricity, a midwestern electrified milk plant, and a mail carrier who has seen electric power draw new people and new industries to his rural route.

27 min., color, USDA, TV. 1960's. (E)

3508 The Safe Operation of Farm Tractors

Reviews daily maintenance checks and proper operating procedures for tractor safety. Fits well with the 14 to 15-year-old certification program and 4-H tractor project.

16½ min., color, Cornell University, TV. 1975. (D)

3515 Safety with a Corn Picker

Shows how a Winona County, Minnesota, farmer who lost both hands in a corn picker continues to farm with artificial hands. Points out dangers of a corn picker and offers safety tips.

8 min., blw, University of Minnesota, TV. 1954. (C)

3523 A Second Chance

An accident victim reflects on farm hazards and the importance of practicing farm safety. Safety tips include shields and machine operating procedures, general "housekeeping," and safety around the barn. For adolescent or adult audience.

14 min., color, Ontario Department of Agriculture, TV. 1971. (D)

Agricultural Engineering

Films continued

3529 Seeds of Safety

Dramatizes a near-tragic corn combine accident. Presents other areas of safety including working in grain bins and flowing grain; machines with open power shafts and other moving parts; working under machinery without jack-stands; falls while climbing buildings, poles, machinery, etc.; agricultural chemical handling and use; and use of power tools. Features tractor accidents including John Deere tractor tipping demonstrations and the safety of the roll-bar. Shows dangers of operating machinery on the highway. For adolescent or adult audience.

18 min., color, Robert H. Young Productions, TV. 1971. (D)

3459 Septic System, Hillside Installation

Explains the proper procedures in evaluating a site, designing and laying out the sewage system prior to construction, and constructing a complete onsite home sewage treatment system. The installation and use of drop boxes for proper effluent distribution is thoroughly explained. For sanitarians, zoning administrators, building inspectors, contractors, engineers, and homeowners.

13 min., color, E. J. Clark films, not TV. 1975. (D)

3594 Tractor Tragedies

Shows safe and unsafe methods of hitching machinery to tractors. Stresses protection from the power take-off. Causes and prevention of tractor tipping are shown in the actual tipping of a tractor.

12 min., blw, Kansas State Farm Bureau, TV. 1957. (D)

3079 Wagon and Forage Harvest Safety

Contains two parts. Part I, Wagon Safety, deals with the safe use of farm wagons including forage blowers, feed mixers, and manure spreaders. Reviews the problem of falls and runovers from wagons and precautions necessary to avoid them. Depicts the hazards of riding in or on loaded wagons with special emphasis on children. Treats accident prevention with power unloading wagons. Stresses the added potential for accidents when two or more are working around equipment. Also covers the safety aspects of PTO, power drive lines, and safety shields. Part II, Forage Harvest Safety, illustrates the safe use of forage harvesters, blowers, power unloading wagons, and mower-conditioners. Operating scenes in the field and at the farmstead depict both hazards and safety procedures in dealing with discharge spouts, PTO drive lines, conditioner rolls, cutter heads, fan rotors, and auger and chain conveyers. For adolescent or adult audience.

21 min., color, International Harvester Co., TV. 1976. (E)

3631 Weed Sprayer Calibration

Illustrates the importance of proper sprayer calibration by showing the results of over and under application. Demonstrates methods of accurate sprayer calibration and proper selection and care of nozzles.

12½ min., color, South Dakota State University and American Oil Co., TV. 1969. (D)

Overhead Transparencies

0-2 Operating Farm Tractors and Machinery

Contains accident data (chart and graphs) and illustrations for discussing tractor safety. Many of these transparencies are titled with a question. You may want to cover the bottom of the transparency and allow the class to discuss the question, then expose the entire transparency. Designed for youth programs in tractor safety and prevention of machinery accidents.

30 color transparencies, Farmers Union Organizations. 1971. (B)

0-18 Farm Machinery Operation

Covers the operator's manual, machine care, and safe operation of machines with specific mention of combine, loader, grinder-mixers, and elevators. Includes instructor's notes and activity suggestions. For youth safety training programs, short talks to youth groups, or adult farmer groups.

32 color transparencies, National Farmers Union Organization (CENEX). 1973. (B)

AGRONOMY AND PLANT GENETICS

Slide Sets

613 Alfalfa for top Profits

Points out the importance of a complete management program in alfalfa from seedbed preparation through time of harvest. Emphasizes the importance of fertilizer in the growing and maintenance of alfalfa. Minnesota information included in set.

40 slides, color, American Potash Institute and University of Minnesota. 1967. (B)

18 Calibrating Pesticide Equipment (Pesticide Applicator Training, Show #7)

Demonstrates methods of determining rates of application and effects of nozzles, pressure, and speed.

47 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 6:00), Colorado State University. 1975. (B)

543 Chemical Weed Control Results in Corn and Soybeans

Gives results of county weed control demonstrations in corn and soybeans conducted by Minnesota extension agents. Includes tables that give the relative crop tolerance and control of weed species for each herbicide. Extension Folder 212, *Cultural and Chemical Weed Control*, is recommended for use with this slide set. Order copies from your local county extension office or from: Bulletin Room, Coffey Hall, 1420 Eckles Ave., University of Minnesota, St. Paul, Minn. 55108.

25 slides, color, Gerald R. Miller, extension agronomist, and Paul E. Groneberg, assistant specialist, pesticide training, University of Minnesota. 1976. (B)

193 Common Minnesota Field Weeds

Shows many of the common field weeds of Minnesota and tells where these weeds are found.

35 slides, color, University of Minnesota. 1956. (B)

191 Common Minnesota Weeds in Flowering Stage

Shows common annual, biennial, and perennial weeds in their flowering stages. Tells where and when these weeds are commonly found and what conditions are necessary for growth.

46 slides, color, University of Minnesota. 1956. (B)

576 Controlling Canada Thistle

Shows growth habits and various cultural and chemical controls of Canada thistle. Includes pictures of infestation of Canada thistle in Minnesota and shows how the plant grows and develops. Includes pictures of leaf characteristics, flowers, roots, and seeds.

31 slides, color, Gerald R. Miller, extension agronomist, University of Minnesota. 1967. (B)

884 Effects of Air Pollution on Field Crops

Shows effects of oxidants, sulphur dioxide, chlorine, and other pollutants on clover, bluegrass, tobacco, corn, and other crops. Useful for identification of damage.

36 slides, color, USDA. 1973. (B)

20 Fifra as Amended

Covers the Federal Insecticide, Fungicide and Rodenticide Act of 1972. Includes a review of state laws and regulations in Minnesota. Appropriate for pesticide applicator training.

31 slides, color, U.S. Environmental Protection Agency. 1975. (B)

115 Fitting Herbicides to the Soil

Points out soil factors and other interactions to consider when planning an effective weed control program with herbicides. Illustrates problems that develop when soil characteristics are not considered.

41 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 21:00), Paul E. Groneberg, assistant specialist, pesticide training, and Gerald R. Miller and Oliver E. Strand, extension agronomists, University of Minnesota. 1977. (B)

97 Foraging for Wild Edibles — Identification Tips

Identifies common wild edible plants of Minnesota with emphasis on the importance of proper identification rather than on preparation and use. Includes comments on plant habitat and plant characteristics useful in identification and on the parts of the plant that are edible. Includes some look-alike poisonous plants with pointers on how to tell these from the wild edibles. For adolescent or adult audience.

93 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 21:00), Oliver Strand, extension agronomist, and Sherry DeCaire, agronomy student, University of Minnesota. 1976. (B)

Slides continued

588 Grass and Legume Plants

Shows the living plant on one-half of the slide and a close-up of the identifiable characteristics on the other. Covers alsike, sweet, white, and red clover; and red canary, brome, Kentucky, orchard, and timothy grasses. Also includes birdsfoot trefoil and alfalfa.

11 slides, color, Richard Knowles, Spring Valley, Minnesota. 1966. (B)

756 Growth Habits of Weeds

Illustrates the growth habits of weeds by showing what a weed is, the losses due to weeds, identification by basic characteristics, and details of grasses and broadleaf weeds. Describes and illustrates important annuals, biennials, and perennials. Set concludes with control measures. For adolescent or adult audience.

52 slides, color, Oliver Strand, extension agronomist, University of Minnesota. 1971. (B)

971 Herbicide Injury — Corn

Shows root and top injury symptoms from commonly used herbicides on corn when excessive rates of chemicals were applied.

45 slides, color, Gerald R. Miller, extension agronomist, University of Minnesota. 1975. (B)

972 Herbicide Injury — Soybeans

Demonstrates root and top injury symptoms from commonly used herbicides on soybeans when excessive rates of chemicals were applied.

50 slides, color, Gerald R. Miller, extension agronomist, University of Minnesota. 1975. (B)

12 How to Identify Common Pests (Pesticide Applicator Training, Show #1)

General introduction to insects, weeds, plant diseases, and vertebrate pests. Should be supplemented with additional and more complete information about local pest problems.

59 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 7:00), Colorado State University. 1975. (B)

677 Maintenance of Quality in Stored Grains and Seeds

Illustrates some of the kinds of damage caused by fungi in stored grains and describes ways of preventing fungi damage.

11 slides, color, University of Minnesota. 1968. (B)

595 Minimum Tillage

Discusses the advantages of reduced or minimum tillage and the conditions desired in the seedbed. Illustrates several common types of minimum tillage. For adolescent or adult audience.

23 slides, color, University of Minnesota. 1966. (B)

13 Pest Control and Pesticides (Pesticide Applicator Training, Show #2)

Introduces the principles and methods of using pesticides as a part of pest control programs.

73 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 7:30), Colorado State University. 1975. (B)

17 Pesticide Application Equipment (Pesticide Applicator Training, Show #6)

Introduces sprayers, dusters, and other types of applicators, and describes nozzles, pumps, and tanks.

62 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 7:30), Colorado State University. 1975. (B)

19 Pesticide Laws and Regulations (Pesticide Applicator Training, Show #8)

Broad review of federal laws governing pesticide registration, sales, and use, and review of the federal agencies responsible.

26 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 4:00), Colorado State University. 1975. (B)

710 Plants Poisonous to Livestock

Illustrates selected plants that cause livestock losses by poisoning and helps livestockmen learn to identify them. Tells about the growing habits of plants and what animals are affected by them.

59 slides, color, USDA. 1969. (B)

16 Protecting the Environment from Pesticides (Pesticide Applicator Training, Show #5)

Shows how misuse of pesticides may adversely affect soil, water, air, and non-target organisms. Explains movement of pesticides in the environment and methods of avoiding harmful effects.

65 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 9:30), Colorado State University. 1975. (B)

Slides continued

84 Soybean Problems

Illustrates the insects, diseases, and other problems that interfere with the normal growth and development of the soybean plant. Includes three sections: (1) illustrates the problems that affect the plant between the time the seed is planted and the soybeans emerge; (2) illustrates the problems occurring between the time it emerges and it reaches the flowering stage; (3) covers from the beginning of pod set until the crop is physiologically mature. Since some of the production problems are not experienced by Minnesota growers, the slide set should be reviewed before using.

152 slides, color, University of Illinois. 1976. (B)

582 Spring Wheat Grade Factors

Shows factors which lower grade and reduce grain value. Each slide shows four individual kernels — one sound kernel and three with a particular type of damage. Shows damage in durum and hard red spring wheat.

18 slides, color, University of Minnesota. 1966. (B)

238 Successful Alfalfa — You Can Grow It

Explains ten management practices essential to producing good alfalfa and discusses several phases of alfalfa production — hay, silage, pasture, concentrate feeds, and soil improvement. Appropriate for use in Minnesota.

40 slides, color, American Potash Institute. 1958. (B)

770 Sunflower Production

Acquaints sunflower growers with the economics, cultural practices, diseases, and insect pests in the production of sunflowers in Minnesota and North and South Dakota.

67 slides, color, Ervin A. Oelke, extension agronomist, University of Minnesota. 1971. (B)

854 Tillage Alternatives

Discusses no-till and minimum tillage systems and methods of planting. Shows new developments in machinery and chemical weed control that permit a minimum of soil manipulation for planting and seeds and controlling erosion.

48 slides, color, USDA. 1972. (B)

14 Understanding Pesticide Labels (Pesticide Applicator Training, Show #3)

Tells how to read and use the information on labels, what must appear on the label, and where to find it.

36 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 5:00), Colorado State University. 1975. (B)

15 Using Pesticides Safely to Protect Yourself (Pesticide Applicator Training, Show #4)

Tells how to prevent accidental exposure to pesticides including the use of protective clothing and devices and what to do in case of accidents.

62 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 8:00), Colorado State University. 1975. (B)

102 Weed Control, Pesticide Applicator Training

Illustrates the classification and identification of common weeds in Minnesota, the types and extent of losses in field crops due to weeds, and the factors to consider in setting up a weed control program. Provides information on weed control for pesticide applicator training.

63 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 20:00), Paul E. Groneberg, assistant specialist, pesticide training, University of Minnesota. 1976. (B)

719 Weed Seedlings

Shows 22 common weeds in Minnesota as drawings and as live seedlings. Useful in weed identification.

46 slides, color, Gerald R. Miller, extension agronomist, University of Minnesota. 1970. (B)

587 Weed Seeds

Close-up photos of weed seeds common to Minnesota. Emphasizes specific details to note in making positive identification.

33 slides, color, Richard Knowles, Spring Valley, Minnesota. 1966. (B)

192 Weeds of Interest to the City Farmer

Tells about common weeds found on lawns, orchards, and gardens.

27 slides, color, University of Minnesota. 1956. (B)

817 Wicked World of Weeds

Shows the importance of weed problems in the environment. Discusses how plants are part of the environment; time, labor, and expense of weeds in food production; kinds of seeds; effect of weeds on humans because of pollen and poisons; effect of weeds on fish and wildlife; and weed controls. Set is *very elementary*. Recommended for young 4-H members and elementary and junior high school youth.

75 slides, color, University of Illinois. 1972. (B)

Slides continued

745 Wild Hemp (Marijuana) Identification and Control

Describes plant and seed identification, growth habits, and control of wild hemp. Includes several plants that resemble wild hemp. For adolescent or adult audience.

21 slides, color, Gerald R. Miller and Oliver E. Strand, extension agronomists, University of Minnesota. 1970. (B)

795 Wild Rice Production

The first 20 slides describe the wild rice (*Zizania aquatica*) plant, its growth habits, and the processing of the grain. The remainder describe commercial production of wild rice including site selection, flooding, insects, diseases, and harvesting. For adolescent or adult audience.

80 slides, color, Ervin A. Oelke, extension agronomist, David M. Noetzel, extension entomologist, and R. H. Morrison, plant pathologist, University of Minnesota. 1971. (B)

Films

3039 Be a Pro With Pesticides

Useful as part of a training program for pesticide applicators, both commercial and individual farmers. Includes information on the selection of pesticides, the label, application, equipment, safety, and records.

22 min., color, Department of Communication Arts, Cornell University, TV. 1974. (E)

3070 Call it a Weed

Shows growth habits of common weeds. Explains what characteristics of weeds make them undesirable in crops, particularly corn and soybeans. Time-lapse photography shows how chemicals affect weeds in various stages of growth. Gives reasons for and methods of applying chemical weed killers.

23 min., color, Purdue University, TV. 1969. (E)

3072 Cash in on Corn

Shows why only high corn yields can be profitable.

13 min., color, National Plant Food Institute, TV. 1960's. (D)

3379 The Compressed Air Sprayer: Care and Maintenance

Suggests a timetable for cleaning and repairing pesticide application equipment. Demonstrates under laboratory conditions the proper procedures for checking pesticide residues in equipment, disposal of waste materials, and flushing and inspecting hose and valve assembly including replacement of leather, neoprene, metal, and rubber components.

13 min., color, Sandy McLeod of Canada, Ltd., TV. 1976. (D)

3393 The Compressed Air Sprayer: Operation and Use

Demonstrates general, spot, and crack and crevice applications under laboratory conditions. Varieties altering the efficiency of the application include air pressure on the applicator tank, nozzle selection, distance from the target surface, and speed of nozzle movement over target area. Pertinent safety explanations include proper pesticide dilution, equipment decontamination, and misuse resulting in accelerated application equipment deterioration.

17 min., color, Sandy McLeod of Canada, Ltd., TV. 1976. (D)

3129 Drying Corn

Shows recommended corn drying practices and points out problems that result from improper drying. Explains possible steps to take when corn becomes overheated.

3 min., blw, Corn Industries Research and USDA, TV. 1964. (C)

3159 Establishing Better Stands of Grasses and Legumes

Opens with two greenhouse experiments describing proper soil bed and depth of planting, continues with Iowa scenes of seeding with various drills and broadcast, and describes the rate of seeding cover crops, care of young legume-grass stands, and fertilization. A few points not applicable to Minnesota.

22 min., color, Iowa State University, TV. 1953. (E)

3191 Five Tons to the Acre

Illustrates agricultural techniques new in the late 1950's. Shows spring and summer activities on a farm in Litchfield, Minnesota.

12 min., color, Massey Ferguson Co., TV. n.d. (D)

3203 "... For the Rest of Your Life"

This National Society for the Prevention of Blindness safety film conveys the dangers to sight posed by anhydrous ammonia, explains proper techniques for applying this fertilizer, describes first-aid measures in case of an accident, and stresses the need for wearing proper eye and face protection when handling all ammonia fertilizers.

15 min., color, University of Iowa, TV. 1973. (D)

Agronomy and Plant Genetics

Films continued

3233 Grass-The Big Story

Tells how grass can be used to reclaim unproductive, rundown land and shows how grass can fit into different kinds of farming in various parts of the U.S.

30 min., color, USDA, TV. 1953. (E)

3239 Growing Alfalfa Successfully

Covers the value and uses of alfalfa and its origin and introduction into North America. Features the soil and nutrient requirements of alfalfa as well as cultural methods. Discusses management techniques, including fertilization, liming, seeding, inoculation, cutting, pests, and weed control. Time-lapse photography is used to show how the plant feeds and grows.

25 min., color, American Potash Institute, TV. 1961. (E)

3277 Hybrid Vigor — Key to Abundance

Tells the story of the results that have come about from the hybridization of corn, wheat, grain sorghum, alfalfa, and poultry as well as the breeding and performance testing of beef cattle. Gives a good idea of what 20th century American agriculture is all about. For adolescent or adult audience.

27 min., color, Farm Film Foundation, not TV. 1973. (E)

3321 Know the Seed you Plant

Explains the steps in producing Minnesota certified seed and shows why every farmer should use it; also explains breeders' seed, plant selection, purification, sampling, inspection, and many other terms used in connection with certified seed.

21 min., color, Minnesota Crop Improvement Assn., TV. 1958. (E)

3374 More for Less

Shows the aspects of no-tillage planting of corn and soybeans, including equipment, weed control practices, and the economics of no-tillage. A panel of research and extension personnel from several states discusses the advantages and the disadvantages of no-tillage. Most of the film can be applied to Minnesota; however, parts dealing with double cropping have limited application. For adolescent or adult audience.

28 min., color, Allis Chalmers, TV. 1971. (E)

3402 New Numbers

Details the sampling procedures used by the Statistical Reporting Service of USDA in making surveys of crop yields. Emphasizes the procedures used in the field for counting, measuring, and weighing plant characteristics associated with yield per acre of crops.

17 min., color, USDA, TV. 1969. (D)

3406 No Room for Weeds

Shows the effects of uncontrolled weeds, the development and testing of various herbicides, and the methods of application with emphasis on proper chemical use and rate of application.

27 min., color, Union Pacific Railroad Co., TV. 1968. (E)

3408 Norman Borlaug: Revolutionary

Features Dr. Norman Borlaug, U.S. agronomist and winner of the 1970 Nobel Peace Prize for his efforts to ease world hunger by developing high-yield wheat strains. He discusses modern agriculture and such matters as population problems, pesticide use, waste pollution, and other environmental issues. Presents as background the Nobel Award ceremony in Oslo and Dr. Borlaug's research facilities outside Mexico City.

15 min., color, National Agricultural Chemicals, Inc., TV. 1971. (D)

3453 Planting Grasses

Stresses the reasons for and the importance of planting and planting grasses in the Great Plains area.

4 min., color, USDA, TV. 1969. (C)

3526 Seed Dispersal

Shows how seed is dispersed by wind, water, animals, man, and mechanical means. Time-lapse photography is used to illustrate actual movement of seeds.

11 min., color, Encyclopedia Britannica, not TV. 1956. (C)

3528 Seeds of Plenty

Emphasizes the value of using certified seed for crops grown in the U.S. Describes the process of developing a new variety of wheat.

13 min., color, Minnesota Crop Improvement Assn., TV. 1969. (D)

Agronomy and Plant Genetics

Films continued

3575 The 304 Bushel Challenge

Explains how a youth group can demonstrate corn production practices as a cooperative community project. Shows national FFA winners and some of the practices used to produce their record-breaking yield.

16 min., color, Funk Brothers Seed Co., not TV. 1960's. (D)

3604 Twelve Month Summer

Shows the development and introduction of dehydrated alfalfa in the U.S. and its value in livestock feeding. For adolescent or adult audience.

18 min., color, Farm Film Foundation, not TV. 1960's (D)

3631 Weed Sprayer Calibration

Illustrates the importance of proper sprayer calibration by showing the results of over and under application. Demonstrates methods of accurate spray calibration and proper selection and care of nozzles.

12½ min., color, South Dakota State University and American Oil Co., TV. 1969. (D)

3641 Wheat Marketing

Discusses classes of wheat, location of production of each class, and marketing alternatives facing farmers. These alternatives include selling at harvest, storing for later sale, forward contracting, hedging, and collective bargaining. Suitable for consumers and farm groups.

20 min., color, Farm Film Foundation, not TV. 1974. (E)

3661 Wind Erosion-stubble Mulch Farming

Shows details of stubble mulch farming and explains advantages of this practice. Answers arguments of those who may question the value of stubble mulch. One of a series of four films on wind erosion.

6 min., color, USDA, TV. 1950's. (C)

3662 Wind Erosion — Tillage Practices

Shows equipment needed and methods used in strip cropping and emergency tillage measures. Useful for any county with present or potential wind erosion. One of a series of four films on wind erosion.

6 min., color, USDA, TV. 1950's. (C)

Video Tapes

7052 Applying Pesticides Properly (Private Applicator Series, Parts I and II)

Useful for private applicator certification training, these two video tape cassettes contain the following eight lessons:

Part I	Topic	Time
	Introduction	5:25
	Pests and Damage	12:30
	Pest Control	4:30
	Pesticides	16:20
	Labels & Labeling	12:00
Part II		
	Safety	24:10
	Application Equipment	16:40
	Summary of Laws and Regulations	6:30

50:45 (Part I) and 47:20 (Part II), color, ¾" cassettes, Kansas State University, TV. 1976. (H)

Slide Sets

747 Financial Protection Program

Illustrates USDA's program of helping producers protect themselves financially when they are marketing livestock. Because more farmers are selling livestock direct and are only spending a few days per year in the marketing process, they may be short on knowledge about current problems in marketing and payment conditions. For adolescent or adult audience.

54 slides, color, USDA, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 15:00). 1970. (B)

98 Meat Animal Carcass Evaluation

Covers beef, sheep, and pork carcass evaluation procedures and standards. Presents ideal meat type animals. Actual carcass measurements are taken and shown. Lists cutability and carcass indexes.

52 slides, color, Raymond L. Arthaud and Charles J. Christians, extension animal husbandmen, University of Minnesota, and Bonnie McCarvel, home economics student, University of Minnesota. 1976. (B)

Films

3011 Agricultural Waste Management

Presents problems in animal waste management. Shows new techniques on how dairymen, poultrymen, hog producers, and duck farmers handle farm wastes. Useful introduction to stimulate discussion. Recommended for vo-ag classes and adult farmers.

18 min., color, Cornell University, TV. 1970. (D)

3078 The Changing Range

Traces the animal feeding industry from the open range to the 100,000 head feedlots, the accompanying problems of waste management, and some of the solutions that have been found. For non-farm audiences and ecology groups.

24 min., color, Environmental Protection Agency, TV. 1973. (E)

3243 Handling Livestock Safely

Shows hazardous obstacles to avoid in handling and transporting livestock.

9½ min., color, USDA, TV. 1965. (C)

3338 Livestock Farmer and Four Flies

Shows life cycle, damage capabilities, and control of four types of flies that are troublesome on the farm. For adolescent or adult audience.

20 min., color, American Oil Co., not TV. 1967. (E)

3339 Livestock Pooling

This film tells the reasons why and for pooling livestock on the auction market.

4½ min., color, USDA, TV. 1972. (C)

3482 Range of Grazing

Stresses the importance of planning livestock grazing in order to conserve the soil.

4 min., blw, USDA, TV. 1969. (C)

3604 Twelve Month Summer

Discusses the development and introduction of dehydrated alfalfa in the U.S. and its value in livestock feeding. For adolescent or adult audience.

18 min., color, Farm Film Foundation, not TV. 1967. (D)

Tape

T-9 Oral Livestock Judging Reasons

Members of the University of Minnesota's livestock judging team present reasons for placing animals. Presents sets of the following classes: three market steers, four heifers, three ewes, three market lambs, four gilts, and three market hogs. Recommended for 4-H and other youth groups.

45 min., cassette, John Reding, student for Charles J. Christians, extension animal husbandman, University of Minnesota. 1975. (A)

Slide Sets

60 Beef Cattle Breeds

Examines the history and significance of beef cattle breeds in the U.S. including British breeds of cattle which were the prominent breeds in the U.S. for a long time. Shows other breeds which have become important for their carcass quality and/or mothering ability.

70 slides, color, Charles J. Christians, extension animal husbandman, University of Minnesota. 1976. (B)

581 Beef Cow-Calf Management, Breeding and Selection Programs (MBCIA 1977)

Presents and evaluates three beef cattle operations: a purebred Hereford, purebred Polled Hereford, and a commercial breeding program. Includes discussions of each farm operation, use of performance records, accomplishments, and family participation. The three producers were recognized as 1977 Minnesota outstanding beef performance producers of the year.

66 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 20:00), Charles J. Christians, extension animal husbandman, University of Minnesota. 1977. (B)

562 Beef Herd Improvement Through Selection

Shows an overall program of improvement through selection of outstanding foundation breeding stock. Emphasizes importance of records in all phases of production.

24 slides, color, Charles J. Christians, extension animal husbandman, University of Minnesota. 1966. (B)

303 Fitting and Showing Beef Cattle

Describes methods of fitting and showing beef animals at home and in the ring. Shows various breeds and how they are fitted for the show ring. Close-ups show how to trim hooves, wash and comb tails, and prepare special parts of the calf for showing.

62 slides, color, Robert E. Jacobs and Charles J. Christians, extension animal husbandmen, University of Minnesota. 1974. (B)

806 Judging Beef Bulls

Includes one class each of horned Herefords, junior and senior bull calves, and spring bull calves. Front, side, and rear views of each animal and each class are shown. Also includes four classes of Simmental bulls, two classes of Charolais bulls, one class of Maine-Anjou bulls, and one class of Limousin bulls. Placing and reasons for all classes.

41 slides, color, Charles J. Christians, extension animal husbandman, University of Minnesota. 1975. (B)

946 Judging Beef Steers

Developed for those who have little experience in judging beef cattle. Beef terms, retail yield, and wholesale cuts are covered. A logical process of steer evaluation, handling, and oral reasons is developed. Includes five market steer classes with written reasons on each class.

63 slides, color, Charles J. Christians, extension animal husbandman, University of Minnesota. 1975. (B)

80 The Story of Bruised Meat

Shows bruised sections of carcasses caused by improper handling of livestock.

48 slides, color, National Livestock Loss Prevention Board. 1957. (B)

Films

3043 Beef Rings the Bell

A colorful film showing production marketing and processing of beef. Also shows a few meat cuts. For use as an entertainment feature or as a meeting opener.

25 min., color, Union Pacific Railroad, TV. n.d. (E)

3095 The Connecting Link

The USDA's Beef Carcass Data Service gives cattle producers and feeders information on the quality and yield value of the carcasses their cattle produce. Also aimed at 4-H and FFA groups, the film points out benefits gained by using bright orange eartags which serve as the connecting link between the live animal and the carcass. Purchase the eartags from any beef breed association or contact Charles J. Christians, Animal Husbandry, 101 Peters Hall, University of Minnesota, St. Paul, MN 55108.

9 min., color, USDA, TV. 1975. (C)

Films continued

3097 Co-Ral

Demonstrates the cattle grub life cycle. Shows control methods of lice and screwworms and materials used. Also covers the economics of parasite control.

20 min., color, Chemagro Corp., not TV. 1967. (E)

3313 Judging Slaughter Steers

Shows three slaughter steers: the first is correctly finished and heavily muscled; the second is wasty but has fair muscling; the third is poorly finished and poorly muscled. Uses charts and live steers for front, side, and rear views. These are followed by shots of the carcasses and cuts. The narration may be a bit difficult to understand because of the narrator's Texas accent.

18 min., color, Texas A & M University, TV. 1966. (D)

3337 Litton Charolais Ranch

Describes and gives history of Charolais beef cattle. Details performance testing, record keeping system, and use of these records.

40 min., color, Litton Charolais Ranch, not TV. 1966. (E)

3518 Santa Gertrudis Breeds Profits

Shows how the use of Santa Gertrudis cattle, with emphasis on the modern trend to more cross breeding, can help to achieve the goal of production of more pounds of quality beef at less cost.

18 min., color, Farm Film Foundation, not TV. 1960's. (D)

3550 The Story of a Steak

Presents feed lot and carcass evaluation of sire progeny. Shows method of tattooing to retain identity. Useful for teaching beef herd improvement. For adolescent or adult audience.

10 min., color, American Hereford Assn., TV. 1966. (C)

Slide Sets

88 Grooming and Showing Dairy Cattle

Shows how to properly groom dairy cattle and also the correct show procedure. Useful in preparation for a fair or livestock show.

34 slides, color, University of Minnesota. 1964. (B)

117 Judging Dairy Cattle and Presenting Oral Reasons

Illustrates basic parts of the dairy cow, gives examples of different breeds, describes three classes of dairy cattle to judge, and explains four parts of the score card. Also discusses oral reasons. Includes an optional 5-minute cassette tape presenting examples of correct and poor oral reasons; tape is to be used at the designated spot in the script. It is not a tape of the entire script. Recommended for youth groups (4-H and FFA) to develop judging skills and knowledge.

59 slides, color, cassette tape (time 5:00), Michael F. Hutjens, extension dairyman, University of Minnesota. 1976. (B)

923 Mastitis Treatment Guidelines for Dairymen

Gives step-by-step instructions of mastitis treatment in lactating cows, selection of remedies for treatment, duration of treatment, drug sensitivity, and basic steps in effective treatment of mastitis.

73 slides, color, cassette tape (both audible tones and automatic, inaudible 50 Hz pulses, time 20:00), National Mastitis Council, Inc. 1974. (B)

880 Milk Quality and Dairy Foods Contest

Instructions for students and coaches who plan to participate in the milk quality and dairy foods contests of the Future Farmers of America. Slides identify various cheeses, show and discuss methods of preparation of cheese, judge milker unit parts, and cover tests on milk production and marketing. For high school, FFA, and vo-ag classes.

85 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 28:00), University of Missouri-Columbia. 1972. (B)

48 Minnesota Dairy Tour to Pennsylvania and Maryland

Highlights a dairy tour of 13 dairy farms in Pennsylvania and Maryland by 62 Minnesota dairy producers in August, 1975. Shows feeding, housing, waste handling, and management aspects in eastern United States. Includes the Amish area, Washington, D.C., and USDA Beltsville Research area. Tour participants can adapt the set for presentations.

67 slides, color, Michael F. Hutjens, extension dairyman, University of Minnesota. 1975. (B)

103 Minnesota 5th Annual Dairy Tour to New England

The 1976 Minnesota dairy tour group visited 13 herds in Connecticut, Massachusetts, and New York. Shows dairy herd housing, management practices, and scenery of that area.

80 slides, color, J. William Mudge, extension dairyman, University of Minnesota. 1976. (B)

921 Money Returns From an Effective Mastitis Control Program

Aids dairy farmers in better understanding the economic impact of mastitis. Gives specific suggestions for treatment and prevention of the disease.

47 slides, color, cassette tape (both audible tones and automatic, inaudible 50 Hz pulses, time 12:00), National Mastitis Council, Inc. 1974. (B)

922 Procedures for Handling the Mastitis Problem Herd

Suggests uniform guidelines and a systematic approach for defining the nature and extent of the mastitis herd problem, evaluating the management and environment of the herd to identify causes, and resolving the crisis as rapidly and efficiently as possible.

78 slides, color, cassette tape (both audible tones and automatic, inaudible 50 Hz pulses, time 20:00), National Mastitis Council, Inc. 1974. (B)

924 Rules for Good Milking Technique

Helps milking machine operators appreciate more fully the important relationship between good milking techniques, the efficient harvesting of milk, and the prevention of mastitis.

24 slides, color, cassette tape (both audible tones and automatic, inaudible 50 Hz pulses, time 5:00), National Mastitis Council, Inc. 1974. (B)

Films

3108 Dairy Show Time

Demonstrates techniques of getting a dairy calf ready for the show ring. Shows training, hoof trimming, clipping, washing, blanketing, last minute preparations, and some pointers on showmanship. For 4-H and FFA members who plan to exhibit dairy calves.

13 min., blw, University of Wisconsin, TV. 1957. (D)

Films continued

3229 Good Milking Pays

Explains the physiology of milk letdown, the importance of cow preparation, and correct timing of machine attachment and removal. Shows care of teat-cup liners and vacuum lines.

11 min., blw, University of Wisconsin, TV. 1960's. (C)

3481 Raising Dairy Calves

Shows care of the dairy cow and calf at time of birth. Describes sanitation methods, identification, vaccination, feeding, and housing with emphasis on feeding from birth to breeding time.

10 min., color, Union Pacific Railroad, TV. 1963. (C)

3521 Science of Profitable Dairying

Deals with the principles of milk production with special emphasis on nutrition. Basic principles of milk secretion are illustrated by animation. Uses laboratory, class room, and milking parlor scenes.

25 min., color, Ralston-Purina Co., TV. 1960's. (E)

3666 Wisconsin Mastitis Test

Useful in training laboratory technicians to do this widely used test. Explains one phase of the mastitis control program currently underway in Minnesota and around the nation.

11 min., color, University of Wisconsin, TV. 1960's. (C)

Video Tape

7053 Oral Evaluation of Dairy Cattle

Reviews the desired points for correct and logical oral reasons. Four Jersey cows are viewed. University of Minnesota students present oral reasons and are critiqued. Includes footage from the Minnesota State Fair Holstein and Guernsey Shows and the State 4-H Contest.

34 min., color, 3/4" cassette, Michael F. Hutjens, extension dairyman, University of Minnesota and the University of Minnesota Mass Media Fund, TV. 1977. (E)

Slide Sets

- 36 Basic Principles of Foot Care and Cold Shoeing (4-H Horse Project)**
Shows basic principles of trimming a horse's foot, correcting crooked feet, and evaluating a good horseshoeing job.
73 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 20:00), 4-H Service Dept. 1975. (B)
- 727 Bits and Bitting**
This presentation of various types of bits comes with a written narrative of the mode of action, the pressure points the bit acts on, and the material and construction of the bit. Appropriate for use with novice horse handlers.
75 slides, color, Cornell University. 1969. (B)
- 40 Buy a Horse — Not Trouble (4-H Horse Project)**
Discusses buying a horse, raises questions for the prospective buyer, and offers suggestions for obtaining assistance and finding sources of animals. Points out clues to look for in evaluating a horse's behavior and quality.
54 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 15:00), 4-H Service Dept. 1975. (B)
- 769 Color and Color Markings of Horses**
Illustrates color and color markings of horses. Helps the beginning horseman become familiar with the five basic horse coat colors and the five variations to these colors.
48 slides, color, University of Mississippi. 1970. (B)
- 92 Competitive Trail Riding (4-H Horse Project)**
Sharon Saare, a leading distance rider, describes the type of horse to select, the training program, and the procedures in entering competitive rides. Illustrates different types of competitive rides and shows and the type of equipment to use. Discusses care of the horse, especially checking pulse and respiration. Excellent for the individual wishing to distance-ride with enough detail for a group wanting to establish a competitive ride.
80 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 16:00), 4-H Service Dept. 1975. (B)
- 41 English Saddle Construction (4-H Horse Project)**
Shows the step-by-step construction of the English saddle. The variations in prices and quality of English saddles make it necessary for the prospective purchaser to be familiar with construction techniques. Shows the tools used, trees, saddlemaking techniques, and the marks of quality.
41 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 12:00), 4-H Service Dept. 1975. (B)
- 27 Genetics of Coat Color of Horses (4-H Horse Project)**
Shows most of the different colors of horses. Explains genetic principles and suggests which crosses to use or not to use to get certain colors. Also shows head and feet markings.
49 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 14:00), 4-H Service Dept. 1975. (B)
- 35 Health Hints for Your Horse (4-H Horse Project)**
Explains health management of the homeowned horse and covers laminitis, wire cuts, navicular disease, nail pricks, colic, internal parasites, and immunization programs.
61 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 15:00), 4-H Service Dept. 1975. (B)
- 881 Horse Safety**
Gives horse lovers important safety tips for working with horses both in the stable (part I) and on the trail (part II).
121 slides, color, cassette tapes (automatic, inaudible 1000 Hz pulses, time 9:30, part I and 10:30; part II), University of Minnesota. 1973. (B)
- 28 Horse Safety (Catching, Leading, Grooming) (4-H Horse Project)**
Shows catching, leading, and grooming in detail. Includes safe and unsafe ways of horse handling. Useful for youngsters and inexperienced horse handlers, but helpful to experienced horse handlers also.
60 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 13:00), 4-H Service Dept. 1975. (B)

Slides continued

91 Horse Safety for the Hunt Seat Rider (4-H Horse Project)

Presents accident-prevention tips for both horse and rider. Describes safe clothing and tack and discusses safety in mounting and in riding. Emphasizes horse management on the ride and safety over fences. Shows safety procedures with "green" horses and with group riding in fields and public places.

59 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 16:00), 4-H Service Dept. 1975. (B)

29 Horse Safety — Saddling, Bridling and Riding Western (4-H Horse Project)

Shows safety in saddling and unsaddling a horse as well as bridling, mounting, and riding western. Includes trailering a horse to and from shows and safety practices for unloading at the show. Deals with some trail riding and fun riding practices including riding double.

71 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 20:00), 4-H Service Dept. 1975. (B)

38 Horse Training by Driving (4-H Horse Project)

Presents a colt being led, a young horse being saddled, and some detail on riding and training a young horse. Describes how to avoid problems and how to deal with them if they do occur.

54 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 15:00), 4-H Service 1975. (B)

31 Intermediate Trail Riding (4-H Horse Project)

Presents scenic trails of Missouri and deals with preparation for a ride, equipment to take, loading and hauling, location in camp, feeding and management of the horse in camp, and recreational opportunities offered, other than trail riding, while in camp. Pertinent to the overnight ride, but useful to the one-day ride also.

71 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 20:00), 4-H Service Dept. 1975. (B)

32 Internal Parasites of Horses (4-H Horse Project)

Presents the major internal parasites of horses and shows clinical and postmortem conditions. Suggests three management programs based on horse population and age. Brings an awareness to the horse owner of the danger of internal parasites and what to do about them.

43 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 11:00), 4-H Service Dept. 1975. (B)

597 Judging Horses

This horse judging set consists of 25 captioned instructional slides, 1 to 25, and five supplemental sets each with five contest classes of four horses or ponies. The supplemental sets contain the classes that were used in eastern contests from 1967 to 1971 inclusive. Includes written reasons and a suggested scoring key.

50 slides, color, Cornell University. 1971. (B)

94 Longe Line Training (4-H Horse Project)

Helpful to the new horse owner or the horse person inexperienced in longeing horses. Shows procedures and technique necessary for a beginning horse and those useful with an older horse. Includes a description of equipment, the procedure in fitting it to the horse, and the techniques of working alone or with an assistant. Illustrates problems that may arise and suggests solutions.

44 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 13:00), 4-H Service Dept. 1975. (B)

93 Plaiting the Hunter's Mane and Tail (4-H Horse Project)

Details the major ways of preparing and braiding hunters' manes and tails and shows close-ups on how to thin, trim, and braid the mane. Includes techniques of sewing, taping, and using rubber bands and describes in detail two methods of preparing the hunter's tail.

59 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 12:00), 4-H Service Dept. 1975. (B)

Slides continued

**33 Practical Horse Psychology
(4-H Horse Project)**

Combines art with actual horse pictures to illustrate why horses act and react as they do under different conditions. Shows how the 60-million-year evolution of the horse relates to some of his senses and responses under varied riding and training conditions. Discusses problems of loading, training, riding, seeing, hearing, and becoming barn-sour.

57 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 17:00), 4-H Service Dept. 1975. (B)

**34 Pre-Bit Hackamore Training
(4-H Horse Project)**

Describes history and use of the hackamore and shows a young horse being trained with it. Shows adjustment, usage, turns, stops, and rollbacks and describes how to effect them.

40 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 11:00), 4-H Service Dept. 1975. (B)

**37 Saddle and Equipment Selection
(4-H Horse Project)**

Covers western, English, and forward seat saddles. Shows different types of trees and different uses of saddles. Points out center of gravity of a horse for different types of riding. Useful in selecting and using a saddle for any type of riding.

54 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 17:00), 4-H Service Dept. 1975. (B)

598 The Skill of Horseshoeing

Illustrates the step-by-step procedure of shoeing a horse. Begins with the farrier observing the horse outdoors from all views to determine the need for shoeing or reshoeing. Shows removal of the old shoes; the hoof being measured, trimmed and cleaned; and the shoes being heated, shaped, and fitted to the horse. Points out different shaped hooves, tools needed, styles of shoes, and sizes of nails. Useful for a saddle club or a 4-H project meeting.

65 slides, color, S. W. Sabin, Cornell University. 1966. (B)

**89 Techniques of Line Driving
(4-H Horse Project)**

Illustrates in detail line driving techniques. Shows different types of equipment and adjustments and the details of grooming, preparing, and driving the horse. Suggests techniques of starting, stopping, turning, standing, backing, and correction of problems that may arise. Useful for beginning or experienced drivers.

57 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 14:00), 4-H Service Dept. 1975. (B)

775 Training and Handling Horses

Shows how to use a twitch, how to lead a foal, crosstyng, haltering, longeing, running the martingale, use of the check strap, and the proper line assembly. Illustrates the training equipment needed. For adolescent or adult audience.

26 slides, color, Robert M. Jordan, extension animal husbandman, University of Minnesota. 1971. (B)

**90 Western Pleasure Trail Riding
(4-H Horse Project)**

Illustrates trail riding by individuals and groups of all sizes and ages. Suggests the "how" and "where" of locating a trail and preparing for the ride. Shows the mechanics of securing trails on which to ride, advertising the ride, meeting the group's food and drink needs, and leaving the trail in good condition. Stresses safety on the ride.

67 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 15:00), 4-H Service Dept. 1975. (B)

**39 Western Saddle Construction
(4-H Horse Project)**

Shows details of constructing a western saddle, both by hand and on an assembly line. Helps a prospective buyer identify quality and weaknesses in saddles when purchasing one. Goes into some detail on leather quality, trees, and styles.

69 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 14:00), 4-H Service Dept. 1975. (B)

**30 What the Judge Looks for in Equitation
Classes (4-H Horse Project)**

Deals with western stock seat, saddle seat, and hunt seat equitation. Shows correct and incorrect ways to perform in these events. Jim Kiser, Iowa State University, a horse-show judge, shares his knowledge of equitation riders' troubles and what it takes in the winner's circle.

71 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 20:00), 4-H Service Dept. 1975. (B)

Films

3015 Aids and Gaits

Illustrates and discusses basic aids or cues that all good riders must know and how to give them. Illustration of bearing rein gaits is in slow motion.

30 min., b/w, USDA, not TV. 1942. (E)

3036 Basic Principles of Stock Seat Equitation

Illustrates proper equitation and basic patterns.

27 min., color, American Horse Shows Assn., TV. 1973. (E)

3046 Beginning Western Pleasure

Covers good and bad equipment (saddle and bridle) and dress. Also covers accepted protocol of each gait and showing of Western Pleasure Class.

22 min., color, Carleton Laboratory, not TV. 1973. (E)

3314 Jumping and Cross Country Riding

Shows the basic instructions necessary to safe jumping and demonstrates the essential land and seat position and balance. Superb shots of sliding down hill and cross country riding.

30 min., b/w, USDA, TV. 1942. (E)

3378 Mr. Decathlon

Shows body characteristics as they apply to selecting, judging, and understanding the function of body parts of a horse.

31 min., color, American Quarter Horse Assn., TV. 1966. (E)

3377 Mounting, Dismounting and the Military Seat

Instructs on proper military seat and illustrates common faults. Presents easy-to-follow basic steps in mounting. Army method of riding is excellent basis for either western or flat seat.

30 min., b/w, USDA, TV. 1969. (E)

3415 On the Fifth Day

Aided by photography and art work, narrator Lorne Greene makes the history of the American Quarter horse come alive.

20 min., color, American Quarter Horse Assn., TV. 1973. (E)

3476 The Quarter Horse: The Horse America Made

Describes the versatility of the quarter horse: racing, trail riding, rodeo events, and pleasure. For adolescent or adult audience.

30 min., color, American Quarter Horse Assn., TV. 1973. (E)

3181 The Reining Horse

Gives general information on selecting and training a young reining horse. Shows all five approved AQHA reining patterns at both regular speed and slow motion.

27 min., color, American Quarter Horse Assn., TV. n.d. (E)

3494 Ride, Cowboy, Ride

Discusses activities that can be employed with a quarter horse. Includes much western scenery. Rex Allen describes the quarter horse in ranching, rodeo, sports, parade shows, racing, and pleasure riding. Although not a training film, it does show many techniques of various activities with horses.

62 min. (on two reels), color, American Quarter Horse Assn., TV. 1965. (G)

3507 Saddling and Bridling

Points out faults common with many riders. Discusses parts of bridle, saddle, and correct procedure of putting bridle, blanket, and saddle on a horse and the reasons for doing so.

30 min., b/w, USDA, TV. 1942. (E)

3566 They're Off and Running

A story of training the quarter horse for racing. The narrator moves slowly through this fast-paced sport to allow plenty of time to note many details of the training procedure. Best suited for those wishing to train a quarter horse for racing purposes.

50 min. (on two reels), b/w, American Quarter Horse Assn., TV. 1965. (G)

3617 Visual Defects Related to Unsoundness in Horses

Discusses unsoundnesses and lameness of horses using both still and action photography. Covers most unsoundnesses and demonstrates methods of lameness detection. For adolescent or adult audience.

30 min., color, E. K. Edwards and Sons, TV. 1971. (H)

3680 Youth and the Quarter Horse

A story on training the quarter horse which answers most questions concerning selection, care, and training. Demonstrations are used to tell the story. Intended for youth, but adults will enjoy it.

62 min. (on two reels), color, American Quarter Horse Assn., TV. 1965. (G)

Slide Sets

549 Anatomy of the Fowl

Illustrates the internal and external structure of birds, specifically chickens. Shows skeleton, muscular system, and digestive, respiratory, and reproductive organs. Technical terms are explained.

54 slides, color, California State Polytechnical College. 1966. (A)

550 Catching and Handling Poultry

Illustrates and explains approved procedures for catching, holding, passing, and handling poultry under small and commercial conditions. Also shows methods of handling birds from cage to cage and using the catching hook, long-handle net, and catching frame.

39 slides, color, California State Polytechnical College. 1966. (A)

551 Embryo Development of the Chick

Traces the development of the chick embryo from a freshly fertile egg to hatched chick. Shows important changes in appearance of the embryo from both inside and outside the shell.

30 slides, color, California State Polytechnical College. 1966. (A)

950 Home Processing of Poultry

Illustrates procedures of processing poultry on the farm or at home. Extension Bulletin 385, *Home Processing of Poultry*, is recommended for use with this slide set. Order from your local county agent or the Bulletin Room, Coffey Hall, 1420 Eckles Ave., University of Minnesota, St. Paul, MN 55108.

35 slides, color, Melvin L. Hamre, extension specialist, poultry, University of Minnesota. 1974. (A)

554 Poultry Brooding Management

Provides a detailed summary of good poultry brooding management with recommendations for meeting common problems in the field. Topics include brooding systems, equipment, proper disinfecting, choice of water founts and feeders, and adjustment of brooder temperature.

73 slides, color, California State Polytechnical College. 1966. (A)

556 U.S. Standards for Quality of Individual Shell Eggs

Illustrates the U.S. standards for quality of individual shell eggs — both white and brown. Shows quality in the shell eggs when raw, poached, fried, and hard cooked. Designed primarily for those interested in producing, processing, grading, packing, and storing eggs.

29 slides, color, USDA. 1956. (A)

Films

3110 Design for More Eggs

Briefly covers many phases of poultry production — embryo development, breeding, disease control, and ways to recognize a hen in production. For adolescent or adult audience.

13½ min., color, Union Pacific Railroad, TV. 1962. (B)

3140 Egg Grades — A Matter of Quality

Shows a modern, mass egg production system at work from laying hen to market place. Highlights the latest techniques used to assure consumers fresher and higher quality eggs.

12 min., color, USDA, TV. 1974. (D)

3165 Exotic Newcastle Disease

Illustrates the steps taken to prevent and control exotic newcastle disease threatening poultry in southern California.

21½ min., color, USDA, TV. 1972. (E)

3468 Producing Quality Eggs

Shows recommended practices in the production of quality eggs. Starting with eggs from selected hens, the presentation includes vaccination, range housing and pasture recommendations, housing and poults, and confinement of the laying flock. Briefly describes caged layers. Management practices illustrate built-up litter, complete rations, mechanical feeders, and automatic lights. Washing, cooling, candling, and packing of eggs are also shown.

15 min., color, University of Wisconsin, TV. 1960. (D)

3546 Something to Crow About

A European magazine editor visits an American hatchery, feed mill, broiler farm, processing plant, and a supermarket. The USDA poultry inspection program is explained. Shows grading poultry for quality and points out the difference between the inspection and grading programs. Suitable for a general audience as well as one interested in poultry.

27½ min., color, USDA, TV. 1964. (E)

Slide Sets

679 Evaluation of Lamb Conformation and Grades

Demonstrates various grades and emphasizes differences in muscling and finish of various lambs. Slides of lambs, alive and as carcasses, show differences in conformation.

43 slides, color, Charles J. Christians, extension animal husbandman, University of Minnesota. 1968. (B)

913 Fitting and Showing Sheep

Illustrates how to get sheep ready for the show ring. Includes trimming feet, blocking, shearing, washing, and carding. Suitable for 4-H and FFA members.

45 slides, color, Charles J. Christians, extension animal husbandman, University of Minnesota. 1974. (B)

529 Lamb Evaluation

Features variations in yield resulting from differences in muscling and wastiness of live animals and carcasses. Although prepared for a livestock evaluation clinic, useful in teaching judging of lambs to any group.

31 slides, color, Charles J. Christians, extension animal husbandman, University of Minnesota. 1965. (B)

5 Sheep Judging

Illustrates the basic procedure of handling and judging sheep. Shows carcass differences and relation to desirability of yield grade and quality. Evaluates three market lamb, six ewe, and four ram classes. Discusses each class and presents a formal set of reasons. Production data is incorporated into a class of ewes.

39 slides, color, Charles J. Christians, extension animal husbandman, University of Minnesota. 1975. (B)

Films

3104 Culling Sheep

Shows western scenes of sheep culling that are adaptable for Minnesota raisers desiring to improve their meat and wool production. Includes methods of culling, culling layouts, comparison of wool and meat quality, and selection of ewe lambs and breeding rams.

10 min., color, Union Pacific Railroad, TV. 1952. (C)

3530 Sheep Meet the Challenge

Covers all phases of the sheep enterprise and includes specific information on carcass grading and merchandising of lamb. Gives information on wool quality as it relates to processing and manufacturing of fabric. For general audiences interested in sheep.

28 min., color, Union Pacific Railroad, TV. 1966. (E)

3531 Sheep Shape

A fitting demonstration and show-ring scene with Hampshire sheep illustrate how to fit and show sheep. Useful for teaching the techniques of sheep raising.

28 min., color, Hampshire Sheep Assn., TV. 1960. (E)

3532 Sheep Shearing

Illustrates how to handle sheep for shearing, the step-by-step procedure in shearing, and the method of rolling and tying the fleece.

21 min., blw, USDA, TV. 1944. (E)

3551 Story of Wool

Beginning with shearing sheep and handling the wool for marketing, illustrates testing, grading, types, and conditions that make for the different quality of wool for the industry. Shows the processing of wool and its manufacture into fabric.

29½ min., blw, kinescope, North Central Wool Marketing Co-op, Inc. and University of Minnesota, TV. 1971. (E)

3679 Your Lamb Goes to the Fair

Shows how to train and fit a lamb for the fair. Demonstrates all of the steps commonly used in fitting lambs. For 4-H or FFA members who will be exhibiting lambs.

12½ min., blw, University of Wisconsin, TV. 1959. (D)

Slide Sets

527 Evaluation of Swine Conformation and Grades

Depicts variation in grade and body shape and provides a greater insight to carcass composition and muscling.

69 slides, color, Charles J. Christians, extension animal husbandman, University of Minnesota. 1977. (B)

912 Judging Hogs

Illustrates the ideal meat type hog both on the hoof and carcass, then helps the viewer judge some classes of hogs.

35 slides, color, Charles J. Christians, extension animal husbandman, and Cynthia A. Grass, agriculture student, University of Minnesota. 1974. (B)

243 The Meat Type Hog

Describes all the swine breeds currently used in Minnesota and compares litter size, production, and carcass merit. The Central Test Station results given review the changes and progress made. Views various types of pigs for differences in muscle and fat.

32 slides, color, Charles J. Christians, extension animal husbandman, University of Minnesota. 1975. (B)

844 Pig Stress and Pork Quality

Illustrates visual symptoms of the stress-prone pig and shows pigs that are afflicted with porcine stress syndrome (PSS). Includes updated information regarding testing methods that indicate the presence of PSS susceptibility.

24 slides, color, Charles J. Christians, extension animal husbandman, University of Minnesota. 1976. (B)

304 Swine Fitting and Showing

Covers procedures for fitting a pig for a show and tips on how to exhibit a pig. For FFA and 4-H groups interested in preparing a pig for a show.

44 slides, color, Cynthia A. Grass, agriculture student, Jerry D. Hawton, extension swine nutritionist, and Robert E. Jacobs, extension animal husbandman, University of Minnesota. 1975. (B)

711 USDA's Swine and Pork Grades

Illustrates the application of the U.S. Standards for grades of pork carcasses and slaughter barrows and gilts which became effective in 1968. Details of the grade factors are apparent on the color slides.

25 slides, color, USDA. 1969. (B)

Films

3032 Artificial Insemination of Swine

Dr. R. J. Dzuik, University of Illinois, presents the importance and use of artificial insemination of swine. Demonstrates collection, dilution, and analysis of boar semen. The sow reproduction technique is shown. For adolescent or adult audience.

8 min., color, University of Illinois, TV. 1970. (C)

3180 Farrowing Pigs

Shows some still useful early management practices the herdsman can use to insure safe delivery and healthy pigs. Recommends equipment such as pens and heat lamps.

12½ min., blw, University of Wisconsin, TV. 1955. (D)

3372 Modern Pork Production

Covers general swine production, management systems, and efficient utilization of existing buildings. Discusses manure hauling and collection systems. For adolescent or adult audience.

14 min., color, Portland Cement, not TV. 1962. (D)

3395 A New Era in Swine Production

Shows how pathogen-free pigs are produced. Sequences explain the extreme care used in taking pigs from the sow and raising them in a pathogen-free situation.

10 min., color, Behlen Manufacturing Co., not TV. 1966. (C)

3396 New Facts About Pork

Points out the high nutritive value, the high digestibility (98 percent), and a variety of new preparation methods of pork. Explores some of the myths about pork.

17 min., color, National Live Stock and Meat Board, TV. 1969. (D)

3470 Profitable Pork Selection

Reports the story of Jasper, a Chester White-Hampshire international grand champion barrow. Begins with his breeding and feeding on the Rodibaugh farm near Rensselaer, Indiana. Analyzes in detail his body characteristics at 265 pounds immediately prior to and after slaughter. For adolescent or adult audience.

12 min., color, Purdue University, TV. 1970. (D)

Animal Science – Swine

Films continued

3589 Today's Guidelines for Pork

Describes and illustrates desirable and undesirable pork quality. Discusses pale, soft, and exudative pork. Describes the indications of meatiness to look for in the live animal by using seven pigs and their carcasses and explains the mechanism for determining the USDA carcass grade of carcass. For 4-H, vo-ag classes, and producer audiences.

20 min., color, USDA, TV. 1971. (E)

Video Tapes

7051 Home Processing of Pork

Covers the do's and don't's of home processing of pork.

13:10, color, ¾" cassette, University of Missouri, TV. 1975. (E)

7050 Home Slaughtering of Pork

Covers the do's and don't's of home slaughtering of pork.

15:00, color, ¾" cassette, University of Missouri, TV. 1975. (E)

COMMUNICATION AND EDUCATIONAL AIDS

Slide Sets

832 Artwork for Slides

Demonstrates basic principles and techniques used in preparing titles, graphs, and illustrations for 2 x 2 slides. Techniques range from the most simple to the more complex with sophisticated equipment.

78 slides, color, Alden M. Balmer, extension information specialist, University of Minnesota. 1972. (B)

Films

3100 Crayon

Shows the versatile qualities of crayon. Techniques demonstrated include crayon carving, graffiti, lamination, encaustic, and batik. For adolescent or adult audience.

15 min., color, ACI Films, not TV. 1967. (D)

3102 Creativity

A mood-setter in which color, motion, and shapes have been combined with statements of the world's greatest philosophers. Intended to set the mental stage for conferences or meetings in which individual responsibility or creativity is to be stressed.

10 min., color, USDA, TV. 1958. (C)

3109 Darkroom Techniques

Demonstrates how to develop a black and white negative, how to make a contact print, and how to make an enlargement.

28½ min., b/w, kinescope, University of Minnesota, TV. 1963. (E)

3122 Display and Presentation Boards

Explores the potential of six different display and presentation boards — felt, hook and loop, magnetic, peg, electric, and combination. Shows the characteristics of each type of board, illustrates methods for making them locally, and suggests a number of uses for each.

15 min., color, International Film Bureau, TV. 1970. (D)

3152 The Engineering of an Agreement

Involves personal communications. Shows a method of talking to people for the purpose of obtaining agreement. Points out mistakes commonly made when one tries to convince someone that a certain idea is correct.

28 min., b/w, Round Table Productions, not TV. 1960. (E)

3172 Facts about Projection

Animation shows how the sound and picture parts of a 16mm projector work. Explains oiling, cleaning, and other maintenance tasks. Emphasis is placed on proper threading and other safety practices with the goal of preventing film damage. For adolescent or adult audience.

17 min., color, International Film Bureau, not TV. 1961. (D)

3279 I Just Work Here

Shows how poor attitudes of receptionists can adversely affect an organization or institution. For those groups concerned with attitude problems and the effects of attitudes on clientele.

17 min., b/w, Round Table Films, not TV. 1963. (D)

3315 Just Beyond the Chalkboard

Illustrates techniques useful in preparing students for a field trip. Includes suggestions for developing skills of observation, discovery, and inquiry. Illustrates classroom follow-up activities including review, sharing experiences, and specimen study.

30 min., color, Northern Illinois University, TV. 1970. (E)

3329 Leaving it to the Experts

Two farmers discuss the pros and cons of why people should try to be informed on matters of public interest. The film was planned as introductory material for discussion groups.

10 min., b/w, National Film Board of Canada, not TV. 1957. (C)

3335 Listening Beyond Words

Demonstrates that we should listen not only to what is being said verbally but also to what is being said without words. For adolescent or adult audience.

21 min., color, Brigham Young University, TV. 1973. (E)

3192 Photography — How it Works

An animated introduction to the basic principles of photography. Takes a look at the camera and its basic parts. The interrelationship between the lens opening and shutter speed is clarified in a graphic explanation of how an automatic or adjustable camera compensates for various lighting conditions.

10½ min., color, Eastman Kodak, not TV. 1973. (C)

Communication and Educational Aids

Films continued

3235 Posters

Starting with the basic idea that a poster must communicate quickly and forcefully, shows how design principles may be applied to achieve striking results. Presents the relationship between verbal and illustrative material and the importance of well-designed letters. The film demonstrates poster-making techniques such as cut paper, collage, tempera paint, crayon resist, and silkscreen.

15 min., color, ACI Media, Inc., not TV. 1968. (D)

3469 Production 5118

Tells the story of the production of a film in which actors learn the importance of good communications. An introduction is important if the film is to be effective.

30 min., color, Champion Paper Co., not TV. 1955. (E)

3670 Worth How Many Words

Explains how photography has helped expand man's visual world in areas of science, documentary, and art. Includes examples of time-lapse, stop-motion, x-ray, microscopic, and space-flight photography. Fast moving and visually exciting.

8 min., color, Eastman Kodak, not TV. 1969. (C)

CONSERVATION EDUCATION

Slide Sets

742 Agriculture and the Changing Environment

Describes problems involved in solving pollution; shows the effects of good stewardship of natural resources. For adolescent or adult audience.

78 slides, color and blw, USDA. 1970. (B)

790 Agriculture and the Environment

Shows how the total environmental pollution situation has evolved over the years and what we can do about it. Gives special attention to what agriculture has done to correct pollution problems including soil erosion, fertilizers, animal wastes, and pesticides. For adolescent or adult audience.

68 slides, color, Geigy Agriculture Chemicals. 1970. (B)

79 Checking Your Energy I.Q.

Uses questions and answers to present information about energy supplies, terms, efficiency, consumption, conservation practices, and new sources. (A few answers may be disputed.)

48 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 8:45), University of Florida. n.d. (B)

884 Effects of Air Pollution on Field Crops

Shows the effects of oxidants, sulphur dioxide, chlorine, and other pollutants on clover, bluegrass, tobacco, corn, and other crops. Identifies the damage done to plants.

36 slides, color, USDA. 1973. (B)

883 Effects of Air Pollution on Fruits and Vegetables

Shows the effects of oxidants and other air pollutants on potatoes, radishes, beans, tomatoes, apples, and other plants. Identifies the damage done to plants.

35 slides, color, USDA. 1973. (B)

885 Effects of Air Pollution on Ornamental Plants and Trees

Shows effects of oxidants and other air pollutants on white pine, petunia, maple, birch, and other plants. Identifies pollutant damages.

34 slides, color, USDA. 1973. (B)

81 Energy Saving Homes for Profit and Comfort

Contains information useful to anyone interested in building or improving homes to reduce energy costs.

80 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 25:45), U.S. League of Savings Assn. 1976. (B)

928 Fuel For Food

An explanation of why the fuel needs of the farmer are so critical and so important to the entire American population.

94 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 10:00), USDA. 1974. (B)

21 Hints for Leading Nature Hikes and Activities

Depicts a variety of things to look for — plant and animal life, animal signs, and interrelationships — on nature hikes and hunts. Preparation for leaders who lead nature hikes and activities. It may be used with Environmental Education Activity Sheet 14, "Ways To Lead Nature Hikes and Activities." Order from your local county agent or the Bulletin Room, Coffey Hall, 1420 Eckles Ave., University of Minnesota, St. Paul, MN 55108.

59 slides, color, Clifton F. Halsey, extension conservationist, soils, University of Minnesota. 1975. (B)

725 A Look at Pollution

An introductory look at some types of pollution and their effects on our world. Shows an example of research to solve a specific problem. Suggests need for citizen understanding and participation in preventing and/or controlling pollution in his area.

64 slides, color, University of Minnesota. 1970. (B)

779 A Parable of Man and the Mess He Made

Illustrates the causes of pollution and the need for action. Narrated by Art Buchwald and done in a satiric manner utilizing a theme from the Bible. For mature audiences.

46 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 5:00), Michigan State University. 1970. (B)

768 Pests or Pesticides in our Environment

Presents information on the pollution of our environment by pests and pesticides. Reviews possible non-chemical insect controls as well as the benefits and hazards of pesticides. For adolescent or adult audience.

36 slides, color, Phillip K. Harein, extension entomologist, University of Minnesota. 1971. (B)

Conservation Education

Slides continued

758 Sharing our Land with Wildlife

Shows how wildlife and American agriculture co-exist on 60 percent of the land area in the U.S. Birds and small game benefit by soil and water conservation measures established on the nation's farms and ranches. Describes conservation measures recommended by the U.S. Soil Conservation Service that mean better life for wildlife. For adolescent or adult audience.

58 slides, color, Clifton F. Halsey, extension conservationist, soils, University of Minnesota. 1970. (B)

82 Solving the Energy Problem — A Family Affair

Identifies ways in which members of a family can work together to reduce energy consumption. Prepared by extension home economics specialists at the University of Florida. For adolescent or adult audience.

80 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 16:00), University of Florida. n.d. (B)

86 Understanding the Energy Problem

Deals with the energy problem, its causes, and possible solutions. For adolescent or adult audience.

101 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 16:00), University of Florida. 1976. (B)

219 Waterfowl Conservation

Shows the possibilities of waterfowl conservation in west central Minnesota. Explains how to track hatched ducklings to find migration routes and feeding grounds.

21 slides, color, Grady Mann, wildlife management biologist, Fergus Falls, MN. 1956. (B)

Films

3005 Adventures of Junior Raindrop

Animated cartoon of a raindrop's visit to earth supplemented with "live" action scenes showing results of poor and good watershed management. Shows the need for everyone to be informed on good watershed management practices. For adolescent or adult audience.

8 min., color, USDA, TV. 1948. (C)

3006 Adventuring in Conservation

Since more people are using the outdoors every year, it is important to know how to enjoy nature without harming plants and animals. Shows various outdoor areas of the country and what happens when good conservation practices are not observed. For adolescent or adult audience.

15 min., color, Indiana University, TV. 1964. (D)

3008 The Aging of Lakes

Explains the process of eutrophication, the natural aging and eventual death of lakes. Shows how man's environmental interference has affected changes in lakes. Demonstrates the effects of domestic and industrial sewage on lakes. Investigation is made of efforts to retard eutrophication and to preserve and restore lakes. For adolescent or adult audience.

14 min., color, Encyclopedia Britannica, not TV. 1971. (D)

3021 Air is for Breathing

Identifies the major pollutants in large cities. Shows the technological arsenal being assembled to make war on pollution, the research that is steadily broadening our technical capability, and the complexity of this man-created problem. Shows that the cooperative effort of every one of us will be needed to overcome it. For adolescent or adult audience.

29 min., color, Shell Oil Co., TV. 1972. (E)

3018 America the Beautiful

A short and strikingly effective film designed to arouse an awareness of the growing threat of pollution. To the tune of "America The Beautiful," the audience witnesses shockingly ugly scenes created by various pollutants. Excellent to set the mood for discussion on pollution problems.

3 min., color, General Electric Education Films, TV. 1972. (C)

3045 Before You Hunt

This partially animated film outlines the history of hunting and support of game management and research by the sportsman. Emphasizes good sportsmanship including knowledge and safe handling of firearms and ammunition. Also stresses respect for the out-of-doors, private property, hunting etiquette, and methods of hunting upland game, waterfowl, and big game.

30 min., color, Federal Cartridge Corp., TV. 1973. (E)

Conservation Education

Films continued

3067 The Burning Issue

A magazine writer covers a major forest fire in the South. He helps his public understand just how important their forests are and why they must be saved. Dramatic firefighting scenes. Produced with the cooperation of the Southern States Forestry Departments.

14 min., color, USDA, TV. 1962. (D)

3077 The Changing Forest

Excellent story of nature's long development, the survival and growth of plants and animals, their relationship in the scheme of life, and their contribution to man.

20 min., color, McGraw-Hill Book Co., Inc., not TV. 1960. (E)

3078 The Changing Range

Traces the animal feeding industry from the open range to the 100,000 head feedlots, the accompanying problems of waste management, and some of the solutions that have been found. For non-farm audiences and ecology groups.

24 min., color, Environmental Protection Agency, TV. 1973. (E)

3703 Conservation Tillage

Illustrates the effectiveness of conservation tillage in controlling soil erosion due to water. For adolescent or adult audience.

8 min., color, University of Illinois, TV. 1975. (C)

3103 Cry of the Marsh

Designed to stimulate development of an ecological conscience and to show man's assault on the environment. Shows how the continent's natural wetlands are disappearing as a result of draining, burning, and plowing. Illustrates what has happened to some of the best waterfowl producing wetlands of the Dakotas, Nebraska, Iowa, and western Minnesota. Shows several species of birds, flowers, and water plants. For adolescent or adult audience.

12 min., color, Bill Snyder Films, not TV. 1971. (D)

3134 Ecology of the Forest

Of specific interest to elementary school children, this film is a photographic study of elk and raccoon life.

8 min., color, Oxford Films, not TV. 1972. (C)

3135 Ecology of the Prairie

A photographic study of prairie life — buffalo, prairie dogs, and badgers — of interest to children in the elementary grades.

7½ min., color, Oxford Films, not TV. 1972. (C)

3150 Energy: The Dilemma

The problems of providing enough energy for the world are discussed by people directly involved. Uses personal interviews and location shots to illustrate the complexity of the energy problem. For adolescent or adult audience.

20 min., color, Churchill Films, not TV. 1973. (E)

3151 Energy: New Sources

An unusual film depicting man's development of energy sources. Uses unusual photographic techniques rather than words to convey its message. Should be supplemented by a discussion or other learning activity. For adolescent or adult audience.

20 min., color, Churchill Films, not TV. 1970. (E)

3153 Environment

Introduces the subject of environmental deterioration and our material values. Depicts alleged polluters ranging from the farmer to the housewife who are brought together to witness a mock trial of themselves for polluting the environment. Illustrates the pros and cons of our ways of using our resources for necessities and pleasures. For adolescent or adult audience.

28½ min., color, BFA Educational Media, TV. 1972. (E)

3157 Erosion: Leveling the Land

Illustrates chemical and mechanical weathering and downstream deposition. For adolescent or adult audience.

14 min., color, Encyclopedia Britannica, not TV. 1972. (D)

3163 Evidence for the Ice Age

Uses present mountain glacial activity to illustrate signs and former presence of continental glaciers. For adolescent or adult audience.

19 min., color, Encyclopedia Britannica, not TV. 1971. (D)

3187 Fire on the Land

Shows the damage fires can do to agriculture, wildlife, and forests. Suggests ways of controlling fires and emphasizes the importance of community cooperation.

25 min., color, Minnesota Foundation, TV. 1958. (E)

Conservation Education

Films continued

3224 The Garbage Explosion

Illustrates where garbage comes from and why it is a problem in our society. Shows how garbage can be disposed of in landfills and how these can then be developed into sites such as parks, airports, and apartments. Presents the use of incinerators, compaction in a press to reduce size, and shredders for decomposable materials and for metals. New disposal research and technology, reclaiming, and recycling solid wastes are discussed. For adolescent or adult audience.

16 min., color, *Encyclopedia Britannica*, not TV. 1970. (D)

3227 Gift from the Clouds

Traces water from mountain reservoirs to points where it can be used by industry and agriculture. Shows several types of irrigation systems with emphasis on delivery control and application of water to different crops. Although made in western U.S., the film is applicable to Minnesota.

27 min., color, *Union Pacific Railroad*, not TV. 1962. (E)

3254 Heritage of Splendor

Supports anti-litter campaign efforts. Shows contrasting scenes of western U.S. beauty spots and debris-cluttered highways left by people on vacation. For adolescent or adult audience.

18 min., color, *Alfred Higgins Production*, TV. 1966. (D)

3255 Heritage of the Plains

The story of how four families in the Great Plains have used special USDA help — through the Soil Conservation Service and in cooperation with the region's soil and water conservation districts — in making land and income more stable and their environment more livable.

19½ min., color, *USDA*, TV. 1968. (D)

3289 Inland Lake Demonstration Project

Shows a review of lake restoration and protection projects in Wisconsin. Lake bottom dredging, shoreline improvement, phosphorus precipitation, and recreation development planning are some of the projects shown. Good planning is emphasized.

28 min., color, *Byron Motion Pictures*, TV. 1971. (E)

3302 Islands of Green

Over 60 years ago, conservationists set aside the national forests as large islands of green for the American people. Increasing pressure for outdoor recreation and conservation education has created a need for small islands of green near urban communities. The National Audubon Society is prepared to assist any community in a plan for a nature conservation center.

24 min., color, *USDA and National Audubon Society*, TV. 1965. (E)

3323 The Land Changes

A newspaperman tells how wornout, nearly worthless land can become a real asset to the community. Shows land acquired for national forest purposes on the Shawnee, the Hoosier, and the Wayne National Forest in the Ohio Valley. Such land improved with reforestation, protection, and proper management helped man and his community to prosper.

13½ min., color, *USDA*, TV. 1957. (D)

3325 Land of Hawaii

A colorful story of the geological background of Hawaii, the formation of the soil and its importance to the economy of the islands, and conservation measures.

13½ min., color, *USDA*, TV. 1967. (D)

3326 Land of the Prairie Ducks

Stresses the need for conservation of the natural homes of prairie ducks and other wild fowl. Handles controversial issues concerning the drainage of wetlands effectively. Any audience would enjoy this film because of the intriguing scenes of wildlife in its natural habitat.

25 min., color, *Minnesota Foundation*, TV. 1961. (E)

3328 Later . . . Perhaps

Produced to advocate and to stimulate the inclusion of environmental education material in all schools. Explores the compounding of pollution evils and places the blame squarely on all of us. For adolescent or adult audience.

26 min., color, *New Jersey State Council For Environmental Education*, TV. 1971. (E)

3333 Life in the Woodlot

Blends a bit of forestry, biology, ecology, and natural history into an essay on the woodlot. Portrays the interdependence of all living things — animals, plants, and bird life — in the woodlot.

17 min., color, *McGraw-Hill Book Co.*, not TV. 1973. (D)

Conservation Education

Films continued

3341 The Living Filter

Shows how Penn State scientists began experimenting with spray irrigation in 1963, how the system works, advantages obtained in enriched crop and tree growth, effects on animals, and laboratory techniques used to analyze water samples. A spin-off of the projects demonstrates that the soil, the living filter, can rejuvenate strip-mine spoil, getting lush growth of grasses and trees in one growing season on the strip-mined areas.

17 min., color, Pennsylvania State University, not TV. 1972. (D)

3380 Mud

Shows problems of gully erosion and destructive lake siltation caused by the inept or careless developer, road builder, or local government agency who scalps the land without taking adequate precautions. Presents simple erosion control procedures and devices being used by the developer to save money for himself and the community and to conserve natural resources.

20 min., color, Stuart Finley Films, not TV. 1968. (E)

3400 New Life for the Great Plains

Promotes the Great Plains Soil Conservation Program by showing the progress made in soil and water conservation in Baca County, Colorado.

12 min., color, USDA, TV. 1965. (D)

3403 New Patterns on the Land

Conservation farming has brought "new patterns on the land" to the American rural landscape. Gives the story of modern farming and ranching in a pictorial setting. Combined with a bit of history, it gives the viewer a better appreciation of our American land today.

13 min., color, USDA, TV. n.d. (D)

3411 Nutrient Pollution of our Lakes

A lecture on why lakes become polluted and suggests methods by which the process can be slowed down. Given by Dr. Lloyd Smith, Department of Entomology, Fisheries and Wildlife, University of Minnesota.

28 min., color, University of Minnesota, TV. 1970. (E)

3422 Our Land — Its Many Faces

Recognizes the increasing importance of conservation methods and shows how we have been able to preserve the wonders of our land despite past negligence. Presents conservation practices in a poetic way.

14 min., color, USDA, TV. 1962. (D)

3423 Our Magic Land

In a setting of carnival gaiety, a magician uses his tricks to point up how man and nature can work together to maintain and improve the land through conservation.

16 min., color, USDA, TV. 1957. (D)

3444 People ECO Action

Covers the issues, pressures, and problems facing citizens as they attempt to do more than just talk about pollution control. Documents and analyzes some actual cases involving decision-making problems in environmental quality maintenance. For adolescent or adult audience.

29 min., color, University of Minnesota, not TV. 1969. (E)

3463 The Prairie

Illustrates the prairie environment — the grasses and other plants; the soils; and the insects, birds, mammals, reptiles, and their interrelationships, functions, and adaptations. For adolescent or adult audience.

19 min., color, International Film Bureau, TV. 1963. (D)

3467 Problems of Conservation — The Soil

This brief survey of soil formation, erosion, and depletion provides a quick introductory and non-technical review of problems in soil conservation. Dramatizes the need for erosion control through scenes of top soil loss caused by water and wind. Especially useful to those just beginning their studies of soil conservation.

14 min., color, Encyclopedia Britannica, not TV. 1969. (D)

3375 Question of Hunting

Discusses the ethical question of hunting and illustrates the value of hunting as a game management tool as well as an important form of recreation. Excellent wildlife photography. For adolescent or adult audience.

27½ min., color, Remington Arms Co., Inc., TV. 1975. (E)

Conservation Education

Films continued

3480 Raindrops and Soil Erosion

Through close-up photography, shows raindrops to be the cause of much of our erosion problems. Teamed with surface flow, they become a destructive force which must be considered when determining the right land use and treatment, the foundation of effective soil and water conservation. Presented in a simple, interesting non-technical fashion.

21 min., color, USDA, TV. 1947. (E)

3482 Range of Grazing

Stresses the importance of planning livestock grazing in order to conserve the soil.

4 min., blw, USDA, TV. 1969. (C)

3485 Realm of the Wild

One-third of all U.S. big game animals and a myriad of smaller animals and birds claim the national forests as their home. Shows many of them in their natural haunts and shows that the area of land and its capacity to produce food for wildlife are both limited. Thus, wildlife populations must be kept in proportion to the land's productive capacity.

25 min., color, USDA, TV. 1952. (E)

3499 The River Must Live

Defines the dimensions of water pollution and analyzes its causes. The scientific explanation is good; photography excellent. For adolescent or adult audience.

21 min., color, Shell Oil Co., TV. 1969. (E)

3542 So Little Time

Shows North American birds, primarily waterfowl, including their habitats, migration routes, mating rituals, nesting, and identification characteristics. Raises the question of how long these birds will stay in existence under present conservation practices. For adolescent or adult audience.

28 min., color, USDA, TV. 1970. (E)

3571 This Land is Ours

Shows how land and water resources can be rebuilt and strengthened as individuals and communities utilize financial and technical help offered by the Agricultural Conservation Programs (ACP). Of special interest to young adults.

28 min., color, USDA, TV. 1966. (E)

3572 This Vital Earth

Portrays the beauty and logic of the balance in nature. Explains the dependence of plants and animals on each other for survival and control. Reveals how man upsets the balance in nature by robbing the soil of hidden values. Illustrates the nonproductiveness of soil deficient in certain minerals.

10 min., color, Encyclopedia Britannica, not TV. 1944. (C)

3616 Vision in the Forest

Features Vaughn Monroe and his family enjoying a camping trip in the forest. Songs include "Racing With The Moon," "Riding In The Sky," and "Smokey The Bear." Shows how we all can cooperate with Smokey to prevent forest fires.

5 min., color, USDA, TV. 1957. (C)

3618 Vital Heritage — Swamps, Marshes, and Bogs

Shows the many swamps, marshes, and bogs scattered around Minnesota and how they fit into nature with wildlife, forests, and water. Points out the value of these wetlands and encourages conservation of wetland areas. For adolescent or adult audience.

26 min., color, Minnesota Foundation, not TV. 1973. (E)

3620 Waters from the Mountain

Explains the job of the snow surveyor who measures the water content in snow and tells us how much water there will be for power, irrigation, watershed projects, recreation, flood control, and any of the other uses for water on which man depends.

20 min., color, USDA, TV. 1964. (E)

3625 Waters of Coweeta

Shows the results of 20 years of research work at the hydrologic laboratory in the Coweeta experimental forest in the Nanthala Mountains of North Carolina. Illustrates how the management of our forest affects the flow of water in the streams. Students, teachers, engineers, and scientists visit Coweeta to find out the results of basic research and applied watershed management. Shows how the relationship between water and forest affects the lives of all of us in one way or another.

20 min., color, USDA, TV. 1953. (E)

3629 We Share This Land

Excellent photograph study of wildlife resources. Useful in soil conservation discussion. For adolescent or adult audience.

14½ min., color, USDA, TV. 1962. (D)

Conservation Education

Films continued

3637 What's Happening to our Lakeshores?

Shows graphically the dangers of letting lake property evolve without intelligent planning. Discusses factors in planning to discourage tourism around local lakes and covers neighborhood and area responsibilities in developing new lakeshore property. Suggests sources of help for planning lake developments. For adolescent or adult audience.

23 min., color, USDA, TV. 1965. (E)

3638 What's Happening to our Landscape?

Encourages land use planning and regulation. Stimulates interest in community action to control highway billboards and use of land that affect the public interest. For adolescent or adult audience.

20 min., color, University of Wisconsin, TV. 1969. (E)

3466 When the Circuit Breaks

A summary of the present energy situation which reviews the development of fossil fuels, the 1973 embargo, the present policy dilemma, ways of conserving energy, future energy sources, and environmental compromises.

27½ min., color, Federal Energy Administration, TV. 1975. (E)

3645 White-Tailed Deer

Shows how natural food supply controls deer population. Points out the dangers to deer and the forests when the population is too large. Shows research that is being done to learn about the life history and habits of deer.

38 min., color, Minnesota Foundation, TV. 1967. (E)

3650 Wild Flowers of the Upper Midwest — The Prairie

Describes a plant community that has become scarce in the Upper Midwest, largely due to the impact of farming. Explains the relationship of fires to prairie wild flowers and the role of prairie plants in building the rich soils of the Midwest.

18 min., color, USDA, TV. 1967. (D)

3651 Wild Flowers of the Upper Midwest — The Wetlands

Shows five different kinds of plant communities that grow in or around water: floating aquatic, emergent aquatic, sedge meadow, fen, and river bottom. These wild flower communities are explained diagrammatically and by flowers and wildlife common to each.

15 min., color, USDA, TV. 1967. (D)

3652 Wild Flowers of the Upper Midwest — The Woodlands

Explains how most woodland wild flowers appear and bloom in early spring. Many of these plants appear above ground only briefly — long enough to flower and produce underground food reserves.

14 min., color, USDA, TV. 1967. (D)

3659 Wild Rivers

Presents wild rivers and recreation. Photography is superb; color and contrast are striking. Delightful change of pace from running swift waters to slow, easygoing fishing scenes. Not a controversial film nor is it dated. For adolescent or adult audience.

28 min., color, Humble Oil Co., TV. 1966. (E)

3653 Wilderness Day

Shows the natural beauty of Quetico Superior National Forest in northern Minnesota. Explains how our national resources can be preserved for future generations. For adolescent or adult audience.

29 min., color, Minnesota Foundation, TV. 1950's. (E)

3654 Wilderness Encampment

Senior Girl Scouts from 41 states and 7 other countries establish a base camp by Todd Lake in Oregon. Backpacking into an area of great scenic beauty, the Three Sisters Wilderness Area, the girls spend 5 days without supervision and create their own outdoor enjoyment.

27½ min., color, USDA, TV. 1961. (E)

3655 Wilderness Trail

Presents a pack trip into the rugged and scenic mountains of Wyoming. Shows how the national forests are protected and kept in their natural state for the benefit of all. For adolescent or adult audience.

14 min., color, USDA, TV. 1961. (D)

3656 Wildlife and the Human Touch

Shows how the national forests are used to preserve wildlife. Produced by the U.S. Forest Service. Has good scenes of wild animals, fowl, and fish in natural habitats. Shows what happens when man moves in to upset the natural balance of life and how human carelessness can destroy our forests.

18 min., color, USDA, TV. 1952. (D)

Films continued

3657 Wildlife Refuge

Shows the purposes of land and water set aside as refuges for migrating waterfowl. Two federal refuges in western states are used to demonstrate well-managed game preserves. Excellent photography of many species of waterfowl. Useful for any group interested in the conservation of waterfowl.

14 min., color, Pat Dowling Pictures, TV. 1962. (D)

3660 Wind Erosion — Economic Problems

Indicates ways to solve the problems of drought survival, damage to the land, and operating capital. Points out important facts to remember in a wind erosion program. Adapted for use in the western tier of Minnesota counties. One of a series of four films on wind erosion.

6 min., color, USDA, TV. 1950's. (C)

3661 Wind Erosion — Stubble Mulch Farming

Shows details of stubble mulch farming and explains advantages of this practice. Answers arguments of those who may question the value of stubble mulch. One of a series of four films on wind erosion.

6 min., color, USDA, TV. 1950's. (C)

3662 Wind Erosion — Tillage Practices

Shows equipment needed and methods used in strip cropping and emergency tillage measures. Useful for any county with present or potential wind erosion. One of a series of four films on wind erosion.

6 min., color, USDA, TV. 1950's. (C)

3663 Wind Erosion — Tree Windbreaks

Shows benefits of windbreaks and discusses various kinds. Includes suggestions for planning windbreaks. One of a series of four films on wind erosion.

6 min., color, USDA, TV. 1950's. (C)

3672 Woodland Manners

Shows the need for visitors to national forests to observe the necessary sanitary measures, to be careful with fire, to use just plain good manners, and to leave his picnic spot in as good or better condition than he found it. Only by doing so can we continue to enjoy the swimming, hiking, camping, fishing, hunting, picnicing, and the unsurpassed beauty to be found in our national forests.

19½ min., color, USDA, TV. 1952. (D)

Study Prints

SP-11 Man and Mallards

Set of ten 20"×24" photos illustrates the life cycle of mallards and the loss of suitable duck habitat. Discussion guide included. Suitable for groups of 20 nine to eleven-year-old children.

10 prints, blw, Clifton F. Halsey, extension conservationist, soils, University of Minnesota. 1972. (A)

Slide Sets

805 Alfalfa Weevil

Describes the life cycle of the alfalfa weevil including the egg, larvae, pupae, and adult stages, and the damage to infected plants. Entomology Fact Sheet 42, *The Alfalfa Weevil* will provide the necessary details pertinent to Minnesota environmental conditions. Order from your local county agent or the Bulletin Room, Coffey Hall, 1420 Eckles Ave., University of Minnesota, St. Paul, MN 55108. For county extension agents and vocational agriculture teachers.

27 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 5:44), University of Missouri. 1971. (B)

18 Calibrating Pesticide Equipment (Pesticide Applicator Training, Show #7)

Demonstrates methods of determining rates of application and effects of nozzles, pressure, and speed.

47 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 6:00), Colorado State University. 1975. (B)

474 Corn Rootworm

Shows the life cycle of the northern and western corn rootworm, corn damages, and recommended control procedures. Users of this set should be familiar with the latest control recommendations for their particular areas. Entomology Fact Sheet 14, *Controlling Corn Rootworm* is recommended for use with this slide set. Order from your local county agent or the Bulletin Room, Coffey Hall, 1420 Eckles Ave., University of Minnesota, St. Paul, MN 55108.

16 slides, color, John A. Lofgren, extension entomologist, University of Minnesota. 1964. (B)

20 Fifra as Amended

A thorough coverage of the Federal Insecticide, Fungicide and Rodenticide Act of 1972. Includes a review of state laws and regulations in Minnesota. Appropriate for pesticide applicator training.

31 slides, color, U.S. Environmental Protection Agency. 1975. (B)

106 Fifra Regulations

Explains the Federal Insecticide, Fungicide and Rodenticide Act.

59 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 12:00), Plaid Production Division. 1976. (B)

12 How to Identify Common Pests (Pesticide Applicator Training, Show #1)

General introduction to insects, weeds, plant diseases, and vertebrate pests. Should be supplemented with additional and more complete information about local pest problems.

59 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 7:00), Colorado State University. 1975. (B)

108 Insecticide Mixing, Dilution and Application Procedures

Deals with proper handling and use of insecticides in areas defined as "food areas" by the Environmental Protection Agency in food manufacturing or food processing plants.

89 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 16:00), Plaid Production Division. 1976. (B)

109 Labels, Labeling, and Label Comprehension

Explains the importance of the label on pesticide products — how and why it is designed as it is.

66 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 12:00), Plaid Production Division. 1976. (B)

814 The Monarch Story

Describes the metamorphosis of the monarch butterfly in detail beginning with the adult and continuing through each stage. Explains habits and characteristics. For adolescent audience.

80 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 23:00), Mark Kempenich, Fargo, North Dakota. 1972. (B)

13 Pest Control and Pesticides (Pesticide Applicator Training, Show #2)

Introduces the principles and methods of using pesticides as a part of pest control programs.

73 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 7:30), Colorado State University. 1975. (B)

17 Pesticide Application Equipment (Pesticide Applicator Training, Show #6)

Introduces sprayers, dusters, and other types of applicators and describes nozzles, pumps, and tanks.

62 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 7:30), Colorado State University. 1975. (B)

Slides continued

19 Pesticide Laws and Regulations (Pesticide Applicator Training, Show #8)

Broad review of federal laws governing pesticide registration, sales, and use, and review of the federal agencies responsible.

26 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 4:00), Colorado State University. 1975. (B)

107 Pesticide Toxicity and Hazards to Man

Explains toxicity of different pesticides and describes their potential hazards to man.

97 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 20:00), Plaid Production Division. 1976. (B)

768 Pests or Pesticides in our Environment

Presents information on the pollution of our environment by pests and pesticides. Reviews possible non-chemical insect controls as well as the benefits and hazards of pesticides. For adolescent or adult audience.

36 slides, color, Phillip K. Harein, extension entomologist, University of Minnesota. 1971. (B)

16 Protecting the Environment from Pesticides (Pesticide Applicator Training, Show #5)

Shows how misuse of pesticides may adversely affect soil, water, air, and non-target organisms. Explains movement of pesticides in the environment and methods of avoiding harmful effects.

65 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 9:30), Colorado State University. 1975. (B)

110 Rodent Control Procedures

Control of rats and mice, essential to every food and feed processing plant and storage facility, is necessary to satisfy legal requirements, prevent losses, and meet individual company operating standards.

122 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 15:00), Plaid Production Division. 1976. (B)

14 Understanding Pesticide Labels (Pesticide Applicator Training, Show #3)

Tells how to read and use the information on labels, what must appear on the label, and where to find it.

36 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 5:00), Colorado State University. 1975. (B)

15 Using Pesticides Safely to Protect Yourself (Pesticide Applicator Training, Show #4)

Tells how to prevent accidental exposure to pesticides including the use of protective clothing and devices and what to do in case of accidents.

62 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 8:00), Colorado State University. 1975. (B)

Films

3038 Battle of the Beetles

Shows the Engelmann spruce bark beetle control project in western Colorado. Demonstrates the damage done by these beetles and how the Forest Service, with technical assistance of other agencies, has been working to stop the spread of this insect infestation. At stake are several million acres of healthy spruce growing in the national forests and parks.

15 min., color, USDA, TV. 1968. (D)

3039 Be a Pro With Pesticides

Useful as part of a training program for pesticide applicators, both commercial and individual farmers. Includes information on the selection of pesticides, the label, application, equipment, safety, and records.

22 min., color, Cornell University, TV. 1974. (E)

3142 Bees and Honey

The Sioux Honey Cooperative presents the story of the pollen-nectar relationship and the average Upper Midwest honey production season. Bee biology brief; photography and story excellent.

19½ min., color, Farm Film Foundation, not TV. n.d. (D)

3379 The Compressed Air Sprayer: Care and Maintenance

Suggests a timetable for cleaning and repairing pesticide application equipment. Demonstrates under laboratory conditions the proper procedures for checking pesticide residues in equipment, disposal of waste materials, and flushing and inspecting hose and valve assembly including replacement of leather, neoprene, metal, and rubber components.

13 min., color, Sandy McLeod of Canada, Ltd., TV. 1976. (D)

Films continued

3393 The Compressed Air Sprayer: Operation and Use

Demonstrates general, spot, and crack and crevice applications under laboratory conditions. Varieties altering the efficiency of the application include air pressure on the applicator tank, nozzle selection, distance from the target surface, and speed of nozzle movement over target area. Pertinent safety explanations include proper pesticide dilution, equipment decontamination, and misuse resulting in accelerated application equipment deterioration.

17 min., color, Sandy McLeod of Canada, Ltd., TV. 1976. (D)

3094 Controlled Pesticides

Deals with the various kinds and types of pesticides on the market and methods of application. Explains how to test sprayers for rate of application and how to change the amount of chemical applied per acre. It should be followed by discussion.

17 min., color, University of Minnesota, TV. 1968. (D)

3097 Co-Ral

Demonstrates the cattle grub life cycle. Shows control methods of lice and screwworms and materials used. Also covers the economics of parasite control.

20 min., color, Chemagro Corp., not TV. 1967. (E)

3126 Don't Bring Your Enemy Home

Shows reasons for agricultural quarantines and how these also apply to military personnel and movements of military cargo. Includes sequences showing several damaging plant pests and depicts the cost of the pests to U.S. farmers and consumers.

17 min., color, USDA, TV. 1964. (D)

3155 Epidemiology of Pesticide Poisoning

Reviews basic information on principles and methods of determining the cause of pesticide accidents. Emphasizes the importance of the team approach to correctly diagnose each problem. Presents specific information for evaluating the severity of a pesticide accident and serves as a useful guide for similar problems. For adolescent or adult audience.

22 min., color, National Audiovisual Center, TV. 1970. (E)

3168 The Face Fly

Describes the biology and importance of the face fly, a serious pest of livestock. Concentrates on behavior, not control measures. Covers some research methods used in studying the face fly. For adolescent or adult audience.

12 min., color, Chemagro Corp., not TV. 1963. (D)

3249 Health Hazards of Pesticides

Describes various studies conducted to test the safety of pesticides. Includes research on antidotes with animal and human volunteers, chemical residue analysis, development of labels for registration, and various points on accident prevention. For adolescent or adult audience.

15 min., color, U.S. Public Health Service, not TV. 1966. (D)

3266 Honey-makers

Shows the life of a bee. Made by the entomology division of the University of Minnesota Institute of Agriculture, Forestry and Home Economics.

22 min., color, University of Minnesota, TV. 1954. (E)

3269 The Housefly

Shows stages in the housefly's life cycle and explains why it is a dangerous pest. Emphasizes public health practices which will control the fly problem. Brings out the responsibility of every citizen as well as the community.

17 min., color, Encyclopedia Britannica, not TV. 1957. (D)

3290 Insect Anatomy

Shows external anatomy of a grasshopper in detail. Covers form and structural characteristics. For adolescent audience.

10 min., color, Sutherland Educational Films, Inc., not TV. 1966. (C)

3291 Insect Collecting

Shows methods of insect collecting. Good technical coverage. The use of killing jars is not included. For adolescent audience.

13 min., color, Pat Dowling Pictures, not TV. 1963. (D)

3292 Insect Mounting and Preserving

Shows the methods of handling insect specimens after they have been collected. For adolescent audience.

14 min., color, Pat Dowling Pictures, not TV. 1963. (D)

3293 Insects are Interesting

Covers insect variation, protection, natural enemies, development, and economic importance. For adolescent audience.

9 min., color, International Film Bureau, not TV. 1966. (C)

Entomology

Films continued

3294 Insects That Help Us

Shows beneficial insects such as bees that pollinate plants and produce honey and ants that work the soil allowing air and water to enter. Food materials they carry underground decompose into plant food. Includes other beneficial insects such as the ladybird beetle and the silkworm. For junior high age and younger.

10 min., color, Bailey Film Assoc., TV. 1972. (C)

3338 Livestock Farmer and Four Flies

Shows life cycle, damage capabilities, and control of four types of flies that are troublesome on the farm. For adolescent or adult audience.

20 min., color, American Oil Co., not TV. 1967. (E)

3392 Natural Enemies of Insect Pests

Shows how parasitic insects attack other insects and keep them under control. Pictures life cycles of several insects particularly those of interest to growers in California, but the principles involved are of universal interest.

29 min., color, University of California, TV. 1956. (E)

3421 Orders of Insects

Describes major form and structural characteristics of nine orders of insects and shows typical species, habitat, development, coloration, mating, and food of each. For adolescent or adult audience.

29 min., color, University of Colorado, TV. 1966. (E)

3445 Pesticides: Fundamentals of Proper Application

Demonstrates common problems that occur with farm application of pesticides. Emphasizes selection of equipment, adjustment, calibration, maintenance of sprayers, mixing, and handling procedures.

21 min., color, Geigy Chemical Co., not TV. 1966. (E)

3446 Pesticides in Focus

Attempts to answer questions on control and eradication of disease-bearing and crop-destroying insect pests. Shows examples of food production with current and future requirements for a rapidly expanding human population. Insect damage is shown along with scientific methods to make available a safe, effective insecticide. Also portrays non-chemical controls and illustrates pest and pesticide needs and problems. For adolescent or adult audience.

25 min., color, Shell Oil Co., TV. 1971. (E)

3447 Pests or Plenty

Gives story behind farmers' need for safe, effective pest control techniques to produce the abundance and variety of food that Americans enjoy every day. Shows how pesticides are tested by government officials and released only when found safe. Also shows work being done in biological pest control.

13 min., color, USDA, TV. 1965. (D)

3464 Prescription for Safety

Shows safe ways to use pesticides. Justifies the use of pesticides and follows them from safe storage through safe application. Emphasizes reading the label.

21 min., color, California Chemical Co., TV. 1965. (E)

3510 Safe Use of Garden Pesticides

Alerts home gardeners to the dangers of irresponsible use of pesticides. Discusses the need for pesticide treatment, where to get advice, what to do about pest problems, and gives suggestions for the safe use of pesticides. For adolescent or adult audience.

15 min., color, University of Minnesota, TV. 1967. (D)

3511 Safe Use of Pesticides

Tells farmers that following the label on pesticides is of utmost importance if they are to produce healthful foods. Shows how law enforcement agencies may seize crops when excessive amounts of chemical residues are found. Although the film was intended for a farm audience, it would be of interest to a consumer group.

21 min., color, USDA, TV. 1963. (E)

3517 Sanitation: Rodent and Insect Control

Introduces the subject of rodent and insect control to public health officials, educators, and pest control operators, but should be followed with a discussion of control techniques and current recommended uses.

10 min., color, National Educational Media, TV. 1973. (C)

3524 Secrets of the Ant and Insect World

Describes the life of the ant, its beneficial attributes to man, and its struggle for survival. Entertaining and educational review by Disney of one of nature's creatures. For adolescent or adult audience.

13 min., color, Walt Disney, not TV. 1965. (D)

Entomology

Films continued

3525 Secrets of the Bee World

A dramatic presentation of the life cycle of the honey bee showing the roles of drones, honey gatherers, and queen bees. Features close-up photography of the construction of the comb and the honey-making process. For adolescent or adult audience.

12 min., color, Walt Disney, not TV. 1964. (D)

3544 Soil Insect Control

Presents the economic importance of soil insect pests of corn. Corn rootworm is an example. Shows recommended methods of using soil insecticides to control soil insect pests.

17 min., color, Jelsicol Chemical Co., not TV. 1962. (D)

3647 Who Shall Reap?

Dramatizes the struggle of farmers to protect their crops and livestock from insects, diseases, weeds, and other pests. Contrasts primitive pest control methods still in use with sophisticated modern control technology developed in this country and shows the benefits to the consumer and to the nation. Focuses on current research efforts to develop more efficient, safer methods of protecting food, fiber, and forests from pests.

28 min., color, USDA, not TV. 1969. (E)

Video Tapes

7052 Applying Pesticides Properly (Private Applicator Series, Parts I and II)

These two video tape cassettes contain the following eight lessons:

	<i>Topic</i>	<i>Time</i>
Part I	Introduction	5:25
	Pests and Damage	12:30
	Pest Control	4:30
	Pesticides	16:20
	Labels and Labeling	12:00
Part II	Safety	24:10
	Application Equipment	16:40
	Summary of Laws and Regulations	6:30

50:45 (Part I) and 47:20 (Part II), color, 3/4" cassettes, Kansas State University, TV. 1976. (H)

Kits

K-1 Pesticide Safety Equipment for the Applicator

Consists of a hard hat, gloves, respirator, goggles, and a plastic apron. Useful for demonstration purposes during training courses for applicator certification.

Phillip K. Harein, extension entomologist, University of Minnesota. 1976. (A)

Slide Sets

780 Birds of Prey

Discusses the role of birds of prey in nature and describes identifying characteristics of several species. Shows that such birds are especially important to agriculture in consuming large numbers of rats and mice which otherwise damage crops. For adolescent or adult audience.

51 slides, color, USDA. 1971. (B)

765 Characteristics of Good Fishing Lakes

Discusses the characteristics of good fishing lakes in Minnesota: lake size, depth, wave action, location of lakes, effect of seasons on lakes, food producing zones, and spawning. Explains how the species and production of fish are influenced by the lake's fertility, shape, and size as well as other factors such as fishing pressure. For adolescent or adult audience.

22 slides, color, Clifton F. Halsey, extension conservationist, soils, University of Minnesota. 1971. (B)

760 Making Plaster Casts of Animal Tracks

Suggests tips on studying animal tracks and lists the steps for making plaster casts of tracks. Makes an interesting project for anyone interested in wildlife, especially youth.

29 slides, color, USDA. 1970. (B)

382 Minnesota Fish Identification

Contains information about the fish found in Minnesota. The syllabus includes introductory information and a fish identification guide which names species and family.

23 slides, color. 1962. (B)

254 Minnesota Wildlife

Includes song birds, water birds, waterfowl, and common mammals. The set was planned to be used with the 4-H conservation project but would be helpful in any conservation meeting.

68 slides, color, University of Minnesota. 1959. (B)

758 Sharing our Land with Wildlife

Shows how wildlife and American agriculture coexist on 60 percent of the land area in the U.S. Birds and small game benefit by soil and water conservation measures established on the nation's farms and ranches. Describes conservation measures recommended by the U.S. Soil Conservation Service that mean better life for wildlife. For adolescent or adult audience.

58 slides, color, Clifton F. Halsey, extension conservationist, soils, University of Minnesota. 1970. (B)

820 Some Game Birds of North America

Presents information on game birds — on hunting, protection of birds, feeding, and characteristics. Describes methods for making land more attractive to these birds. Discusses both upland and migratory game birds. For adolescent or adult audience.

48 slides, color, USDA. 1970. (B)

821 Some Snakes of the United States

Describes some of the snakes found in the U.S. by their size, color, habits, and other characteristics. Attempts to clear up misinformation, legends, and myths surrounding these reptiles. For adolescent or adult audience.

44 slides, color, USDA. 1970. (B)

219 Waterfowl Conservation

Shows the possibilities of waterfowl conservation in west central Minnesota. Explains how to track hatched ducklings to find migration routes and feeding grounds.

21 slides, color, Grady Mann, wildlife management biologist, Fergus Falls, Minnesota. 1956. (B)

822 Wildlife for All

Presents a general overview to wildlife and suggests things citizens might do to improve conditions for wildlife locally. Discusses the importance of wildlife as a natural resource and how people must be constantly alert to properly manage and use these resources for the benefit and enjoyment of all. For adolescent or adult audience.

40 slides, color, USDA. 1970. (B)

Films

3134 Ecology of the Forest

Of specific interest to elementary school children, this film is a photographic study of elk and raccoon life.

8 min., color, Oxford Films, not TV. 1972. (C)

3326 Land of the Prairie Ducks

Stresses the need for conservation of the natural homes of prairie ducks and other wild fowl. Handles the controversial issues concerning the drainage of wetlands effectively. Any audience would enjoy this film because of the many intriguing scenes of wildlife in its natural habitat.

25 min., color, Minnesota Foundation, TV. 1961. (E)

Fish and Wildlife

Films continued

3333 Life in the Woodlot

Blends a bit of forestry, biology, ecology, and natural history into an essay on the woodlot. Portrays the interdependence of all living things — animals, plants, and bird life — in the woodlot.

17 min., color, McGraw-Hill Book Co., not TV. 1973. (D)

3441 Patterns of the Wild

Describes the interrelationships of wildlife and the forest. Contains dramatic scenes of wildlife with a red fox as the central character. Shows how the fox relates to his prey and to other plant and forest habitat. For adolescent or adult audience.

27½ min., color, U.S. Forest Service, TV. 1966. (E)

3463 The Prairie

Illustrates the prairie environment — the grasses and other plants; the soils; and the insects, birds, mammals, reptiles, and their interrelationships, functions and adaptations. For adolescent or adult audience.

19 min., color, International Film Bureau, TV. 1963. (D)

3375 Question of Hunting

Discusses the ethical question of hunting and illustrates the value of hunting as a game management tool as well as an important form of recreation. Excellent wildlife photography. For adolescent or adult audience.

27½ min., color, Remington Arms Company, Inc., TV. 1975. (E)

3485 Realm of the Wild

One-third of all U.S. big game animals and a myriad of smaller animals and birds claim the national forests as their home. Shows many of them in their natural haunts and shows that the area of land and its capacity to produce food for wildlife are both limited. Thus, wildlife populations must be kept in proportion to the land's productive capacity.

25 min., color, USDA, TV. 1952. (E)

3542 So Little Time

Shows North American birds, primarily waterfowl, including their habitats, migration routes, mating rituals, nesting and identification characteristics. Raises the question of how long these birds will stay in existence under present conservation practices. For adolescent or adult audience.

28 min., color, USDA, TV. 1970. (E)

3567 Think Like a Mountain

An excellent portrayal of the struggle for the survival of the buffalo, California condor, prairie dog, ferret, timber wolf, and others. For adolescent or adult audience.

28 min., color, U.S. Forest Service, TV. 1971. (E)

3618 Vital Heritage — Swamps, Marshes, and Bogs

Shows the many swamps, marshes, and bogs scattered around Minnesota and how they fit into nature with wildlife, forestry, and water. Points out the value of these wetlands and encourages conservation of wetland areas. For adolescent or adult audience.

26 min., color, Minnesota Foundation. 1973. (E)

3024 The Way of a Trout

Approaches trout fishing from the fish's point of view. Traces the life cycle of the rainbow trout and introduces some of the bizarre and colorful predatory creatures (including the angler) that make survival the exception rather than the rule for the trout.

30 min., color, Trout Unlimited, TV. 1975. (E)

3626 Way of Life

Presents the role of the predator of the wildlife community and explains control. Includes beautiful scenery. For adolescent or adult audience.

25 min., color, Missouri Conservation Commission, TV. 1965. (E)

3629 We Share This Land

Excellent photography study of our wildlife resources. Useful in soil conservation discussions. For adolescent or adult audience.

14½ min., color, USDA, TV. 1962. (D)

3645 White-Tailed Deer

Shows how natural food supply controls deer population. Points out the dangers to deer and the forests when the population is too large. Shows research that is being done to learn about the life history and habits of deer.

38 min., color, Minnesota Foundation, TV. 1967. (E)

Fish and Wildlife

Films continued

3653 Wilderness Day

Shows the natural beauty of Quetico Superior National Forest in northern Minnesota. Explains how our national resources can be preserved for future generations. For adolescent or adult audience.

29 min., color, Minnesota Foundation, TV. 1950's. (E)

3656 Wildlife and the Human Touch

Shows how the national forests are used to preserve wildlife. Produced by the U.S. Forest Service. Has good scenes of wild animals, fowl, and fish in natural habitats. Shows what happens when man moves in to upset the natural balance of life and how human carelessness can destroy our forests.

18 min., color, USDA, TV. 1952. (D)

3658 Wildlife and Timber

Portrays the interesting management relationship between the two major crops of wildlife and timber in the Ocala National Forest in Florida. Shows how cutting the timber improves the habitat for deer, quail, turkey, and other wildlife. Years of research and practical experience lie behind the scientific timber management practiced.

6½ min., color, USDA, TV. 1957. (C)

3657 Wildlife Refuge

Shows the purposes of land and water set aside as refuges for migrating waterfowl. Two federal refuges in western states are used to demonstrate well-managed game preserves. Excellent photography of many species of waterfowl. Useful for any group interested in the conservation of waterfowl.

14 min., color, Pat Dowling Pictures, TV. 1962. (D)

Study Prints

SP-11 Man and Mallards

Set of ten 20"×24" photos illustrates the life cycle of mallards and the loss of suitable duck habitat. Discussion guide included. Suitable for groups of 20 nine to eleven-year-old children.

10 prints, blw, Clifton F. Halsey, extension conservationist, soils, University of Minnesota. 1972. (A)

Slide Sets

647 The ABC's of Salmonella

Defines salmonella; shows where it comes from, how it spreads, and how it can be eliminated from the processed food chain. Could be supplemented with slides from the specific industry. Useful to food handlers, managers, and sanitation crews.

43 slides, color, Federal Food and Drug Administration. 1967. (B)

761 Biscuits, Plain and Fancy

Shows how to make biscuits from basic ingredients as well as from a mix. Discusses the "whys" in the selection of ingredients and in the making and baking of the biscuits. Gives a scorecard for judging biscuits.

65 slides, color, General Mills. 1970. (B)

907 Breakfast and the Bright Life

Seeks to motivate youth to improve their nutrition by emphasizing the importance of breakfast to physical and mental performance, attitudes, and health. Covers the role of breakfast in weight control, its contribution to daily food needs, and its ease of preparation. Highlights the nutritional role of cereals in breakfast.

60 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 3:30), USDA. 1970. (B)

57 Buying Breads and Cereal Products

Designed to help consumers make wise purchases when selecting cereal group foods. Emphasizes making use of nutritional labeling, ingredient statement information, standards of identity, and cost per serving calculation when buying cereals. Covers ready-to-eat cereals, hot cereals, natural cereals, breads and bread products, rices, and pasta products. For adolescent or adult audience.

32 slides, color, Isabel D. Wolf, extension specialist, foods and nutrition, University of Minnesota. 1976. (B)

904 Buying Meat by Cost Per Serving

Explains evaluating meat costs on the basis of cost per serving and not cost per pound. Illustrates calculation of cost per serving. Shows the amount of edible lean on various cuts of meat.

22 slides, color, Isabel D. Wolf, extension specialist, foods and nutrition, University of Minnesota. 1974. (B)

47 Buying Processed Meats

Describes the ingredients and the product composition standards for cooked sausage, hams, breakfast sausage, and canned meat items. Compares the different kinds of ground beef as well as a number of soy-extended products. Creates an awareness of the need to know product composition standards, to read labels, and to evaluate cost of convenience. For adolescent or adult audience.

55 slides, color, Isabel D. Wolf, extension specialist, foods and nutrition, University of Minnesota. 1976. (B)

740 Conveniences of Christmas

Contains food ideas for a meeting on holiday entertaining or a Christmas fair. Includes ideas for convenience foods and new ways to serve foods attractively. Offers some interesting centerpiece ideas.

35 slides, color, Pillsbury. 1970. (B)

784 Cooking for one in the Senior Years

Useful to introduce cooking ideas to senior citizens. The narration is addressed to senior citizens.

20 slides, blw, Cornell University. 1970. (B)

863 The Day the Lion Roared

Developed for children, "The Day the Lion Roared" is a puppet show that stresses the importance of eating breakfast and the variety of foods one can enjoy for breakfast.

36 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 7:00), Muriel Brink, extension nutritionist, University of Minnesota. 1972. (B)

808 Edible Wild Mushrooms

Extension Bulletin 357, *Edible Wild Mushrooms*, accompanies this set as an explanation of the nine different kinds of mushrooms illustrated. For adolescent or adult audience.

15 slides, color, University of Minnesota. 1972. (B)

695 Egg Basics

Shows six basic egg cookery methods: in the shell, fried, scrambled, poached, baked, and omelets. Briefly covers the functions of eggs in cookery as well as grading and size.

51 slides, color, Poultry and Egg National Board and Ralston Purina Co. 1969. (B)

Slides continued

68 Energy: Our Foods and Our Needs

Emphasizes the need for a balance of the energy nutrients for optimum health and weight control. Includes suggested activities. May be presented in several sessions. Includes: Introduction, Part I — The Energy Nutrients: What Are They?, Part II — The Energy Nutrients: How Are They Used?, Part III — The Energy Nutrients: How Much Of Them Do We Need?

65 slides, color, Cornell University. 1975. (B)

777 Expanded Food and Nutrition Education Program (EFNEP)

Explains how the Minnesota Expanded Food and Nutrition Education Program is funded, how it operates, and shows the counties involved in the program. Includes glimpses of how program assistants are trained and how they teach, and some of the special training activities planned for them.

80 slides, color, Leona S. Nelson, extension information specialist, University of Minnesota. 1971. (B)

724 Feeding Your Young Children

Gives parents of preschool children practical guidelines with emphasis on building positive attitudes toward food. Describes recommended servings from the four food groups for small children.

60 slides, color, National Dairy Council. 1969. (B)

50 Fight Fat

Useful for groups meeting regularly for mutual support with weight reduction. Includes the following five sections:

	<i>Tape Time</i>
I) Thoughts on Fighting Fat	7:45
II) Fad Diets	3:00
III) Measuring and Serving Size	4:30
IV) Proper Cooking Methods	2:25
VI) Exercise	3:50

Section V, Meal Planning, is incomplete and will be added to the set as soon as possible.

134 slides, color, 5 cassette tapes (both audible tones and automatic, inaudible 1000 Hz pulses, total time 21:30), University of Illinois. 1975. (B)

42 Fish, Man's Abundant Food

Describes different types of fish. Covers fresh fish, shellfish, and crustaceans (shrimp and lobster) and illustrates varieties of market forms of fish which are available. Provides information on problems which may be encountered when purchasing fish and fish products.

73 slides, color, National Marine Fishery Service. 1975. (B)

908 Foinana

Foinana is food intake analysis, an interactive computer program helpful to those in MERITSS (Minnesota Educational Regional Interactive Time Sharing System) in explaining the program to students and adults.

21 slides, b/w, Muriel Brink, extension nutritionist, University of Minnesota. 1974. (B)

2 Food Choices: More Than a Matter of Survival

Discusses the influence that customs, advertising, and changing, often contradictory, information about food have on one's eating habits and one's approach to nutrition. A conversation among four adults in a supermarket reveals common ideas and practices. Appropriate for low-income adolescent or adult audience.

97 slides, color, cassette tape (both audible tones and automatic, inaudible 50 Hz pulses, time 13:00), Guidance Assoc. 1974. (B)

839 Food During Pregnancy

Discusses the importance of correct eating during pregnancy. Useful for prenatal classes of any cultural or economic group.

41 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 7:00), National Health Films. 1970. (B)

4 Food Groups: Four To Go

A teacher uses the automobile to illustrate the importance of a variety of foods to a teenager and his friends. The specific functions of the various types of nutrients and the food sources of the nutrients are discussed including suggestions appropriate for a teenager's lifestyle. Appropriate for low-income young adults.

74 slides, color, cassette tape (both audible tones and automatic, inaudible 50 Hz pulses, time 10:00), Guidance Assoc. 1974. (B)

3 Food Habits: More Than Meets the Eye

Explores the ways in which eating satisfies physiological and psychological needs. Suggestions are made for improving eating habits. For adolescent or adult audience.

97 slides, color, cassette tape (both audible tones and automatic, inaudible 50 Hz pulses, time 10:00), Guidance Assoc. 1974. (B)

449 Foods of Hawaii

Shows the influences of Polynesia, China, Japan, Portugal, and the Philippines on present-day foods of Hawaii.

50 slides, color, C & H Corp. 1964. (B)

Slides continued

828 Fruits — Common and Unusual

Illustrates apples, pears, melons, and citrus fruit varieties along with lesser known fruits (whole and cut) such as avocado, kiwi, papaya, mango, persimmon, and pomegranate. Helpful for teaching foods when a variety of fruits is not available.

26 slides, color, Mary E. Darling, extension nutritionist, University of Minnesota. 1972. (B)

523 Getting Acquainted with Pork

Illustrates the story of pork selection, identification, cookery, freezing, and storage. Taste-tempting dishes illustrate the variety of cuts available.

75 slides, color, National Live Stock and Meat Board. 1977. (B)

519 Guide to Breakfast

Shows how breakfast can be easy and interesting to plan, cook, serve, and eat. Recipes feature quick breads and egg cookery.

68 slides, color, Kraft Kitchens. 1964. (B)

9 A Guide to 4-H Food and Nutrition Projects

Introduces nine concepts that volunteer leaders relate to as they provide learning experiences for 4-H'ers. For 4-H food leaders.

72 slides, color, Mary E. Darling, extension nutritionist, University of Minnesota. 1975. (B)

741 Hamburger, Umpteen Different Ways

Made up of four subsets: 1) Ground Beef, The Basic Facts, 2) Planning a Complete Meal, 3) Casual Entertainment, and 4) Mealtime and Money Management. For adolescent or adult audience.

102 slides, color, Hunt-Wesson. 1970. (B)

62 Home Canning

Gives basic reasons for the processing requirements of various types of home canned foods. Discusses the following areas: 1) microorganisms which cause food spoilage, 2) canning acid foods, 3) canning low acid foods, and 4) equipment and methods. For adolescent or adult audience.

70 slides, color, Isabel D. Wolf, extension specialist, foods and nutrition, University of Minnesota. 1976. (B)

915 Home Canning of Fruits and Vegetables

Gives a brief history of canning since 1917, dispels ideas of some World War I canning methods, and explains and illustrates safe procedures for today's canners.

80 slides, color, Isabel D. Wolf, extension specialist, foods and nutrition, University of Minnesota. 1974. (B)

950 Home Processing of Poultry

Illustrates procedures of processing poultry on the farm or at home. Extension Bulletin 385, *Home Processing of Poultry*, is recommended for use with this slide set. Order from your local county agent or the Bulletin Room, Coffey Hall, 1420 Eckles Ave., University of Minnesota, St. Paul, MN 55108.

35 slides, color, Mel Hamre, extension specialist, poultry, University of Minnesota. 1974. (B)

708 How Food Affects You

Shows how food affects growth and parts of the body such as bones, muscles, and nerves. Stresses the key nutrients needed by the body and the importance of eating breakfast.

48 slides, color, USDA. 1969. (B)

440 How's Your Sense of Taste

Describes the physiological and psychological aspects of taste and flavor. Useful for herb or gourmet cookery.

80 slides, color, H. J. Heinz Co. 1963. (B)

956 How to Buy Beef

Develops shopping awareness when purchasing and preparing beef by the cut and grade.

34 slides, color, Photo Lab, Inc. 1970. (B)

124 Inside my Mom

Focuses on the importance of good eating habits during pregnancy. Combining cartoon animation with actual photos, it offers sound nutritional advice in an informal manner. For adolescent or adult audience.

78 slides, color, cassette tape (both audible tones and automatic, inaudible 50 Hz pulses, time 7:45), March of Dimes. 1976. (B)

877 It's Good Food, Keep it Safe

A conversation between a good bacteria named Charlie, bad bacteria named Sal and Staph, and a homemaker is divided into four parts: The Invaders, Keep It Clean, Watch The Temperature, and Every Minute Counts. Safety in home canning and botulism are *not* included.

65 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 16:00), USDA. 1973. (B)

Slides continued

96 Making Baby Food at Home (Feeding Baby)

Helps a mother decide whether to make baby food or to purchase ready-made. The set is divided into three sections: What to Consider, Food Guide as Baby Grows, and Preparing Your Own Baby Food. The bulletins *Feeding Baby – Solid Food*, HS-42, and *Making Baby Food at Home*, HS-51, are recommended for use with the slide set. Order from your local county agent or the Bulletin Room, Coffey Hall, 1420 Eckles Ave., University of Minnesota, St. Paul, MN 55108.

61 slides, color, *Agricultural Extension Service, University of Minnesota*. 1976. (B)

69 Making Cheese at Home

Describes the equipment, techniques, and the basic procedure for making soft cheese and hard or cured cheese. Extension Bulletin 395, *Making Cheese at Home*, is recommended for use with this slide set. Order from your local county agent or the Bulletin Room, Coffey Hall, 1420 Eckles Ave., University of Minnesota, St. Paul, MN 55108.

37 slides, color, *Edmund A. Zottola, extension food microbiologist, University of Minnesota*. 1976. (B)

64 Making Pickles at Home

Explains the difference between fresh pack and fermented pickle products. Discusses the ingredients required for both types of pickle making, the steps in processing, and the quality characteristics of pickle products.

41 slides, color, *Isabel D. Wolf, extension specialist, foods and nutrition, University of Minnesota*. 1976. (B)

796 Mealtime Planning

Stresses attractive and well-balanced meals. Includes pointers on planning meals, good nutrition based on the four food groups, and management of time, money, and energy. For adolescent or adult audience.

80 slides, color, *General Mills*. 1971. (B)

807 Meat Identification

Describes and illustrates 136 retail meat cuts. Names of the cuts are based on the Uniform Retail Meat Identity Standards (URMIS) system for beef, pork, lamb, and veal. Under this system, each cut has a three-part label giving the species of the animal, the wholesale or primal name, and the specific retail name.

136 slides, color, *National Live Stock and Meat Board*. 1975. (B)

963 Meat in a Hungry World

Is meat really an inefficient form of food production? Should the U.S. stop producing meat in an attempt to raise more grain to feed a hungry world? This slide set attempts to answer these questions and explain the steps in modern meat production. For adolescent or adult audience.

52 slides, color, *American Meat Institute*. 1974. (B)

7 Metrics in the Kitchen

Explores what it would be like to use metric measures in baking and shopping. Explains metric vocabulary and how to make associations (not conversions) between metric measures and customary measures. Extension Folder 294, *Metrics in the Kitchen*, and HN-21, *Metric Chocolate Chippers Recipe*, are recommended for use with this slide set. Order from your local county agent or the Bulletin Room, Coffey Hall, 1420 Eckles Ave., University of Minnesota, St. Paul, MN 55108. For adolescent or adult audience.

54 slides, color, *Mary E. Darling, extension nutritionist, University of Minnesota*. 1975. (B)

733 Milk The Magnificent

Illustrates the nutrient value of milk in the diet as well as the different kinds of products made from milk. Includes information about milk, dietary allowances, and recipes.

50 slides, color, *USDA*. 1970. (B)

870 Natural Foods: Good, Bad or Different

A new type of retail food store has become popular during the past few years — the natural or organic food store. Discusses these retail stores and the claims made about their produce.

29 slides, color, cassette tape (both audible tones and automatic, inaudible 50 Hz pulses, time 18:00), *Cornell University*. 1972. (B)

926 Nutritional Labeling

Nutritional labeling of food products gives valuable information for consumers to use when buying food and/or planning meals. Explains the different forms in which nutritional labeling appears on food products and when it must be on food products, and tells how consumers can use nutritional labeling information. Also explains the US-RDA (recommended daily allowances) which is used in nutritional labeling. For adolescent or adult audience.

29 slides, color, *Cornell University*. 1974. (B)

Slides continued

851 The \$150 Billion Dollar Food Assembly Line

Introduces the people involved in getting food from the farm to the table. Helps consumers understand the interrelationships of people within a community working to provide consumer goods and services to the trade area.

47 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 8:30), USDA. 1972. (B)

95 The Preschool Child's Eating and Growth Patterns

Helps parents of preschool children understand the role of food in the lives of their children and the development of skills associated with eating. There are three sections: Children's Reactions to Food, Eating Skills of Preschool Children, and Growth and Development Through the Preschool Years.

44 slides, color, Michigan State University. 1970. (B)

204 Quick Breads — Variety Round-Up

Introduces some unusual foods attractively served. Recipes are included in the script.

47 slides, color, Wheat Flour Institute. 1956. (B)

435 Sandwiches, Please!

Shows the preparation and serving of a wide variety of sandwiches. For adolescent or adult audience.

78 slides, color, Wheat Flour Institute. 1963. (B)

510 Secrets of Seasoning from Five Countries

Presents familiar dishes of Mexico, France, Italy, Sweden, and India and shows characteristics of the spices and herbs used in their preparation. Creates awareness of flavors and seasonings and piques interest in learning about new spices, herbs, and flavoring extracts in the foods they prepare.

45 slides, color, McCormick and Co., Inc. 1965. (B)

591 Spices in Today's Cooking

Shows what spices offer in terms of interesting cookery. Covers five major groups of seasonings and includes quiz questions for group participation.

74 slides, color, American Spice Trade Assn., Inc. 1965. (B)

201 The Trick of Yeast Rolls and Coffee Cake

Describes advanced bread baking techniques

50 slides, color, American Institute of Baking. 1956. (B)

556 U.S. Standards for Quality of Individual Shell Eggs

Illustrates the U.S. standards for quality of individual shell eggs — both white and brown. Shows quality in shell eggs when raw, poached, fried, and hard cooked. Designed primarily for those interested in producing, processing, grading, packing, and storing eggs.

29 slides, color, USDA. 1956. (B)

829 Vegetables — Common and Unusual

Illustrates vegetables, whole and cut, such as artichoke, asparagus, anise, broccoli, burdock, cassava, greens, kohlrabi, okra, peppers, carob, squash, turnip, rutabaga, water chestnuts, and watercress. Includes some garden pictures. Helpful for teaching foods when a variety of vegetables is not available.

32 slides, color, Mary E. Darling, extension nutritionist, University of Minnesota. 1972. (B)

104 Vietnamese Lifestyle

Orients Minnesotans to the lifestyle of South Viet Nam. Explains geographical location, transportation, economy, education, religion, housing, and food.

42 slides, color, Muriel S. Brink, extension nutritionist, University of Minnesota. 1977. (B)

43 Why Try . . . and How to Buy Fishery Products

Describes the nutritional value of seafood products as compared to other animal protein products and gives a description of the various forms in which seafood products are marketed. Also describes the proper handling of fish and provides consumer information related to purchasing.

126 slides, color, National Marine Fishery Service. 1975. (B)

830 Your Food — Chance or Choice

Covers topics such as food habits and the four food groups. Colorful and fast moving presentation for teenagers. Leader should be prepared to lead discussion.

80 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 15:00), National Dairy Council. 1969. (B)

Films

3003 Adventures in Food: Fresh Peaches

Shows the care and attention that fresh peaches receive from orchard to supermarket. Sequences include picking, sorting, packing, government grading, hydrocooling, and handling operations, both in transit and at the local warehouse.

14 min., color, USDA, TV. 1968. (D)

3017 Alice in Numberland

Intended to show why statistical reporting in agricultural production and consumption is essential for our economy. Explains the part reporting plays for various people involved in producing, processing, transporting, storing, and marketing food. For a general audience.

16 min., color, USDA, TV. 1962. (D)

3042 Beef for all Occasions

A home economist talks about beef — the preparation of a variety of beef dishes and the nutritional value of beef. For adolescent or adult audience.

21 min., color, National Live Stock and Meat Board, TV. 1970. (E)

3048 Behind the Grade Mark

Explains the meaning behind the "U.S. Grade A" on labels of canned and frozen fruits and vegetables. Shows how USDA graders make sure a product merits the grade mark and what the U.S. grades mean to consumers. Includes scenes of how fruits and vegetables are canned and frozen. For adolescent or adult audience.

20 min., color, USDA, TV. 1975. (E)

3068 Buying and Preparing Beef Roasts

Discusses USDA grading. Relates grade and cut to preparation method. Shows location of cut on carcass and tenderness of cut.

5 min., color, USDA, TV. 1971. (C)

3069 Buying and Preparing Meat

A combination of the following short films: 1) The Quality of Meat You Buy, 2) Buying Meat for the Freezer, 3) Buying and Preparing the Broiling Steak, 4) Buying and Preparing Beef Steaks, 5) Buying and Preparing Sirloin Steak, 6) Buying and Preparing a Blade and Chuck Roast, and 7) Buying and Preparing Lamb Cuts. For adult audience.

30 min., color, USDA, TV. 1971. (E)

3071 The Cardboard Cow

Shows food production technology and research. For urban or rural audience.

14½ min., color, USDA, TV. 1966. (D)

3319 Changing Food in Changing Times

Provides facts and perspectives about food and nutrition. Describes the effects of changing work patterns and lifestyles on food choices and uses breakfast cereals as an example to demonstrate the increasing role of convenience foods. Encourages understanding and use of nutrition information on food labels. Although it includes favorable pre-sweetened cereal messages, the film contains sound nutrition information. For adult audience.

16 min., color, Cereal Institute, Inc., not TV. 1977. (D)

3081 Chiquita Banana

Cartoon shows how bananas can be served in meals: fried, in salads, or in pies. For adolescent or adult audience.

11 min., color, United Fruit Co., TV. 1952. (C)

3386 Countdown . . . 4 4 3 2 (Mulligan Stew)

The Mulligan Stew kids save their friend who is trapped by floodwaters while on a camping trip. They enlist help from the astronauts at NASA in planning a well-balanced, non-perishable diet that can be dropped from an airplane. A copy of the leader materials for the entire series is available from the Bulletin Room, Coffey Hall, 1420 Eckles Ave., University of Minnesota, St. Paul, MN 55108. For 9 to 12-year-olds.

28½ min., color, USDA, TV. 1972. (E)

3125 Dok's Nutrient Computer

Shows that nutrients are present in food and that the body utilizes them to perform the essential body functions. One copy of song sheet EFNEP 79, The Nutrient Song, is included. Order additional copies from your local county agent or the Bulletin Room, Coffey Hall, 1420 Eckles Ave., University of Minnesota, St. Paul, MN 55108. One of a series of nutrition films for 8 to 12-year-olds.

12 min., color, University of Illinois, TV. 1971. (D)

3140 Egg Grades — A Matter of Quality

Shows a modern, mass egg production system at work from laying hen to market place. Highlights the latest techniques used to assure consumers fresh and higher quality eggs.

12 min., color, USDA, TV. 1974. (D)

Food Science and Nutrition

Films continued

3166 Experiments

Explains that in food and nutrition, youths can get answers to questions through planned experimentation. One copy of song sheet EFNEP 82, Experiment Song, is included. Order additional copies from the Bulletin Room, Coffey Hall, 1420 Eckles Ave., University of Minnesota, St. Paul, MN 55108. One of a series of nutrition films for 8 to 12-year-olds.

8 min., color, University of Illinois, TV. 1971. (C)

3384 The Flim Flam Man (Mulligan Stew)

Wilbur Doorright foils a culprit who tries to sell fad diets and food pills to the Mulligan Stews. A copy of the leader materials for the entire series is available from the Bulletin Room, Coffey Hall, 1420 Eckles Ave., University of Minnesota, St. Paul, MN 55108. For 9 to 12-year-olds.

28½ min., color, USDA, TV. 1972. (E)

3200 Food, the Color of Life

Reinforces the viewer's appreciation of nutrition as a science. Although much scientific information is included, emphasis is on food choice as an individual decision. Reflects respect for food as the source of essential nutrients. For adolescent or adult audience.

22½ min., color, National Dairy Council, TV. 1965. (E)

3303 For Tomorrow We Shall Diet

Follows a young woman as she learns to change her eating habits, reduce her calorie intake, and maintain proper nutrition. Includes a discussion of fad diets, energy expenditure, and eating out. For adolescent or adult audience.

24 min., color, Churchill Films, TV. 1976. (E)

3219 Fruits of a Lifetime

Shows the production and distribution of western fruits. Explains packaging to meet market demands and how a modern railroad speeds fruit to market. For adolescent or adult audience.

26 min., color, Union Pacific Railroad, TV. 1957. (E)

3385 Getting it all Together (Mulligan Stew)

The Mulligan Stew family plans and prepares a dinner for a world population. Hundreds of guests in native costume offer their kind of entertainment and fun. A copy of the leader material for the entire series is available from the Bulletin Room, Coffey Hall, 1420 Eckles Ave., University of Minnesota, St. Paul, MN 55108. For 9 to 12-year-olds.

28½ min., color, USDA, TV. 1972. (E)

3228 Good Diet, I Dig It

Explains the reasons why people eat and why they establish certain food patterns. One copy of song sheet EFNEP 78, Good Diet, I Dig It, is included. Order additional copies from your local county agent or the Bulletin Room, Coffey Hall, 1420 Eckles Ave., University of Minnesota, St. Paul, MN 55108. One of a series of nutrition films for 8 to 12-year-olds.

8 min., color, University of Illinois, TV. 1971. (C)

3230 Good Things from the Garden

Shows the growing, harvesting, freezing, and canning of vegetables. Brings out the science of agriculture and role of the home economist. Much of the film was made in Minnesota with Pat Berglund, a Minnesota 4-H'er. Good for career discussion with any audience.

23 min., color, Green Giant Co., not TV. 1967. (E)

3382 The Great Nutrition Turn On (Mulligan Stew)

With the help of a rock band and good nutrition songs the Mulligan Stews wake a town that has fallen asleep because of poor eating habits. A copy of the leader materials for the entire series is available from the Bulletin Room, Coffey Hall, 1420 Eckles Ave., University of Minnesota, St. Paul, MN 55108. For 9 to 12-year-olds.

28½ min., color, USDA, TV. 1972. (E)

3238 Grow Kids Grow

Summarizes the main points in basic nutrition for children.

14 min., blw, Iowa State University, not TV. n.d. (D)

3301 Help Yourself to Better Health

Portrays older adults making thoughtful food choices. Illustrates good nutrition with limited budgets, varying food habits, and different cooking facilities. The film has a positive approach to good eating habits focusing on personal fulfillment. For adult audience.

16 min., color, Society for Nutrition Education, TV. 1976. (D)

3304 It Happens Every Noon

Urges parents and communities to be aware of the school lunch program and to take action to see that every child takes advantage of the program to get a daily, well-balanced lunch.

13½ min., color, USDA, TV. 1966. (D)

Films continued

3306 It's Carving Time

An expert demonstrates how to carve roast turkey showing all the carving steps in detail.

6 min., color, USDA, TV. 1959. (C)

3307 It's Snacktime

Shows that snacks can make an important contribution to the total daily food intake. One copy of song sheet EFNEP 81, The Snack Song, is included. Order additional copies from your local county agent or the Bulletin Room, Coffey Hall, 1420 Eckles Ave., University of Minnesota, St. Paul, MN 55108. One of a series of nutrition films for 8 to 12-year-olds.

8 min., color, University of Illinois, TV. 1971. (C)

3311 Janet and the Genie

Explains USDA food grading and inspection. Takes the viewer on journeys through various processing plants to see grading and marketing services of the USDA. For adolescent or adult audience.

28½ min., color, USDA, TV. 1968. (E)

3312 Jenny is a Good Thing

Presents Head Start preschool children learning about food. Shows how education in nutrition helps children become adequate and capable.

20 min., color, Project Head Start, USDHEW, TV. 1969. (E)

3383 Look Inside Yourself (Mulligan Stew)

The Mulligan's rock music tells why "Ya gotta eat breakfast." The lives of a tired and cranky brother and sister change when they eat an adequate breakfast. He becomes a star athlete and she gets more dates. A copy of the leader materials for the entire series is available from the Bulletin Room, Coffey Hall, 1420 Eckles Ave., University of Minnesota, St. Paul, MN 55108. For 9 to 12-year-olds.

28½ min., color, USDA, TV. 1972. (E)

3357 A Mark of Quality

Presents meat grading by taking an American housewife from feedlot to packing plant to supermarket and right back to her own kitchen. Shows how the Federal Meat Grading Service helps her choose the quality of meat she wants.

13½ min., color, USDA, TV. 1968. (D)

3381 Mulligan Stew Promotional

Presents an overview of the six films in the Mulligan Stew series: Countdown.... 4 4 3 2, Getting It All Together, The Flim Flam Man, the Racer That Lost His Edge, Look Inside Yourself, and The Great Nutrition Turn On. A copy of the leader materials for the entire series is available from the Bulletin Room, Coffey Hall, 1420 Eckles Ave., University of Minnesota, St. Paul, MN 55108.

5½ min., color, Iowa State University, TV. 1972. (C)

3396 New Facts About Pork

Points out the high nutritive value, the high digestibility (98 percent), and a variety of new preparation methods of pork. Explores some of the myths about pork.

17 min., color, National Live Stock and Meat Board, TV. 1969. (D)

3401 New Look in Potatoes

Shows large scale production and processing methods. Although most of the scenes were taken in the western states, principles are applicable to Minnesota. Emphasizes new methods of handling potatoes.

25 min., color, Union Pacific Railroad, not TV. 1960's. (E)

3404 The New Pork — An Exciting Taste Treat

A food editor discusses facts about the "new" pork which has more protein and less calories, demonstrates the versatility of pork and the preparation of quick meals, and describes new pork recipes and outdoor cooking with pork.

18 min., color, Minnesota Pork Producers Assn., TV. 1970. (D)

3410 Nu-Nu-Nutrients

Tells about the nutrients found in foods — proteins, fats, carbohydrates, minerals, vitamins, and water. One copy of song sheet EFNEP 79, The Nutrient Song, is included. Order additional copies from your local county agent or the Bulletin Room, Coffey Hall, 1420 Eckles Ave., University of Minnesota, St. Paul, MN 55108. One of a series of nutrition films for 8 to 12-year-olds.

12 min., color, University of Illinois, TV. 1971. (D)

Films continued

3196 Nutrition Is

Contains basic nutrition information and stresses balance, moderation, and the individual's responsibility for food selection as cornerstones to good nutritional practice. Emphasizes the fact that malnutrition frequently strikes the rich and "well" fed and explains the need to seek reputable sources of nutrition information. Covers fad diets, food supplements, and other nutrition controversies. Although produced by the Sugar Association, the film does not promote the use of sugar and products containing significant amounts of sugar. For adolescent or adult audience.

26½ min., color, Sugar Assn., Inc., TV. 1976. (E)

3412 Nutritional Quackery

Focuses on a health quack expounding the favorite myths of nutritional quackery: that all diseases are due to faulty diets, that soil depletion causes malnutrition, that present processing practices rob us of most of the nutritional value of our foods, and that anyone suffering from that tired feeling needs to supplement his diet. Each of these arguments is systematically and scientifically demolished. Areas covered are chemical fertilizers, pesticides, food additives, and modern methods of food processing. For adolescent or adult audience.

20 min., color, Aims Instructional Media, TV. 1971. (E)

3425 An Outbreak of Salmonella Infection

Shows how a group of Air Force men become sick after eating a meal infected with salmonella. Identifies the infected part of the meal and reviews what happened in the preparation of the meal and shows how bacteria were introduced into the prepared food. For adolescent or adult audience.

16 min., color, U.S. Public Health Service, TV. 1950's. (D)

3426 An Outbreak of Staphylococcus Intoxication

Presents a case study of a typical outbreak of food borne illness caused by staphylococcus organisms. Shows symptoms of the victims and traces the source of the organisms to pastry fillings. Gives the reasons for the incidence of the organisms in the food. For adolescent or adult audience.

16 min., color, U.S. Public Health Service, TV. 1950's. (D)

3433 Packaging Food for You

Shows that today's packaging of meats and poultry, fruits and vegetables is seldom seen by the shopper; it's done behind the scenes, at the point of production, in the field, at the processing plant, at the wholesale warehouse, and at the retail store.

17 min., color, USDA, TV. 1966. (D)

3460 The Potato

Shows different potato varieties used for baking, frying, chipping, and mashing.

24 min., blw, kinescope, University of Minnesota, TV. 1972. (E)

3461 Potato Appeal

Shows ways of preparing potatoes either fresh and processed. An excellent promotional picture. More suitable for homemaker than for producer groups.

10 min., color, Union Pacific Railroad, not TV. 1962. (C)

3475 Quality for all Seasons

Shows the history and role of USDA fruit and vegetable inspectors, including why inspection is necessary, how grading standards have developed, equipment used for grading, and the training of a competent, impartial inspector.

18 min., color, USDA, TV. 1974. (D)

3387 The Racer that Lost His Edge (Mulligan Stew)

A fat race car driver, who never wins, and his new bride, who keeps stuffing him with goodies, learn why a healthy body is for champions. They learn to plan, buy, and prepare a nutritious diet. A copy of the leader materials for the entire series is available from the Bulletin Room, Coffey Hall, 1420 Eckles, Ave., University of Minnesota, St. Paul, MN 55108. For 9 to 12-year-olds.

28½ min., color, USDA, TV. 1972. (E)

3484 The Real Talking, Singing, Action Movie About Nutrition

A junior high class makes its own film about nutrition. Kids talk to kids in their own language about the impact of food on body development, personality, and self image. For adolescent audience.

14 min., color, Sunkist Grower's, Inc., not TV. 1973. (D)

3554 Sorry, No Vacancy

Examines the relationship between population growth and food production, economics prosperity, resource consumption, environmental deterioration, and quality of life. Shows how the consequences of our present living standards are already being felt in food and energy shortages, pollution, unemployment, and increasing violence. For adolescent or adult audience.

27 min., color, Malibu Films, Inc., not TV. 1974. (E)

Food Science and Nutrition

Films continued

3560 That the Best Will be Ours

Traces the development of the nation's meat and poultry inspection program from its beginning in 1906 to its current status. Covers the handling, processing and labeling requirements and the inspection controls used to insure that the requirements are met. Shows the shopping, handling, storage and preparation steps that consumers can take to get the best buys and to insure that these foods stay wholesome. For adolescent or adult audience.

18 min., color, USDA, TV. 1971. (D)

3562 That's Breakfast?!!

Gives a variety of foods appropriate for breakfast. One copy of song sheet EFNEP 80, The Breakfast Song, is included. Order additional copies from your local county agent, or the Bulletin Room, Coffey Hall, 1420 Eckles Ave., University of Minnesota, St. Paul, MN 55108. One of a series of nutrition films for 8 to 12-year-olds.

8 min., color, University of Illinois, TV. 1971. (C)

3574 The Three Squares

Tells how canning started, how it grew, what it means to us, and what it can mean to future generations.

13½ min., color, USDA, TV. 1956. (D)

3578 Time of our Lives

Describes the tendency of Americans to consume too many calories and live on unbalanced diets and shows the effect of decreased physical activity on health. Produced in connection with the late John F. Kennedy's physical fitness program and promotes the use of dairy products while stressing good dietary habits.

25 min., color, American Dairy Assn., not TV. 1964. (E)

3636 What's Good to Eat

A 12-year-old boy learns to use the four food groups as a way to get the nutrients he needs. Shows how the body uses nutrients from food and how the food groups provide a reliable pattern for making reasonable choices and tasty combinations.

17½ min., color, H. Newenhouse, TV. 1969. (D)

Overhead Transparencies

0-6 Basic Values in Nutrition, Part I: Milk and Meat Groups

Includes lessons on milk, milk products, meat, and meat substitutes. Covers nutrition, buying, and preparation with an emphasis on economy.

20 color transparencies, 3M Co. 1971. (B)

0-7 Basic Values in Nutrition, Part II: Vegetable-Fruit Group

Colorfully presents nutrition, selection, and preparation of a wide variety of foods with an emphasis on economy.

20 color transparencies, 3M Co. 1971. (B)

0-8 Basic Values in Nutrition, Part III: Bread-Cereal Group

Covers nutrition, preparation, and storage with an emphasis on economy.

20 color transparencies, 3M Co. 1971. (B)

0-14 Meat Selection and Preparation

Gives information on selection and care of meats as well as on methods of cookery.

23 color transparencies, 3M Co. 1970. (B)

0-16 Nutrition

Introduces nutrition. Includes reasons why the body needs food; key nutrients, their functions and food sources; food energy sources, definition of a calorie, and body energy needs; and basic four food groups. Shows food in each basic group and serving sizes.

20 color transparencies, DCA Educational Products. 1972. (B)

0-9 Safety in the Kitchen

Emphasizes the fundamentals in prevention of kitchen accidents. For food service employees, homemakers, and home economics classes.

20 color transparencies, 3M Co. 1971. (B)

0-10 Sanitation in the Kitchen

Illustrates methods of handling food to minimize possibility of contamination. For food service employees and homemakers.

20 color transparencies, 3M Co. 1971. (B)

Video Tapes

7051 Home Processing of Pork

Covers the do's and don't's of home processing of pork.

13:10, color, ¾" cassette, University of Missouri, TV. 1975. (E)

7050 Home Slaughtering of Pork

Covers the do's and don't's of home slaughtering of pork.

15:00, color, ¾" cassette, University of Missouri, TV. 1975. (E)

FORESTRY AND FOREST PRODUCTS

Slide Sets

879 All About Planting Trees

Covers the purposes for planting trees, preparation of the site, and techniques of tree planting. Illustrates selection and care of nursery planting stock, sources of trees for planting, hand planting, and maintenance of the planted trees.

58 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 12:00), University of Minnesota. 1973. (B)

964 Aspen Symposium Summary

This summary of the 1972 Aspen Symposium presents the ecology, economic value, and management of an aspen forest. For adult audiences interested in forest management.

93 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 30:00), U.S. Forest Service. 1972. (B)

100 A Christmas Tree Story

Traces the origins of the evergreen tree as a symbol of the Christmas observance. Shows how to identify the kinds of Christmas trees and how they are grown on managed tree farms. Offers some hints on keeping a fresh tree in the home.

115 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 12:00), Minnesota Instructional Materials Center and Minnesota Christmas Tree Growers Assn. 1976. (B)

342 Identification of Common Trees in the Upper North Central States

Shows 33 native trees, including a full view of the tree and a shot of the bark and leaves. Includes syllabus explaining the characteristics needed to identify common trees. The syllabus does *not* give information on growth habits or economic value.

89 slides, color, Marvin E. Smith, extension forester, University of Minnesota. 1961. (B)

580 Our National Forests

Shows the various benefits provided by national and other well-managed forests. For adolescent or adult audience.

41 slides, color, USDA. 1966. (B)

802 This Unique Bit of Life — How Trees Affect our Environment

Shows the effect of trees on our environment and illustrates how trees grow and produce oxygen and energy for man's use. Demonstrates how trees slow water runoff from rains and, therefore, permit water to enter the earth to supply underground water. Other benefits shown include beauty, wind protection, temperature modification, recreation, plus the many products produced. For adolescent audience.

80 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 10:00), American Forest Institute. 1971. (B)

526 Wonder Wood

Colorfully presents the many uses of wood. Shows the comparative value of wood, steel, and synthetic building materials.

65 slides, color, Missouri Conservation Committee. 1965. (B)

Films

3034 At Home With Wood

Shows research to improve wood products and find new uses for wood. Deals mainly with wood products for the home and new types of housing construction.

12 min., b/w, USDA, TV. 1959. (D)

3038 Battle of the Beetles

Shows the Engelmann spruce bark beetle control project in western Colorado. Illustrates the damage done by these beetles and shows how the Forest Service, with technical assistance from other agencies, has been working to stop the spread of this insect infestation. At stake are several millions of acres of healthy spruce growing on the national forests and national parks.

15 min., color, USDA, TV. 1968. (D)

3058 The Boreal Forest

Shows the coniferous forest biome as an ecological community with interrelated food chains. Shows white and black spruce and fir and ground plants like the heath and Labrador tea. Typical boreal insects, birds, and mammals are seen with attention given to food habits. Close-up photography permits identification of plant and animal species. For adolescent or adult audience.

19 min., color, International Film Bureau, not TV. 1963. (D)

Forestry and Forest Products

Films continued

3067 The Burning Issue

A magazine writer covers a major forest fire in the South. He helps his public understand just how important their forests are and why they must be saved. Dramatic firefighting scenes. Produced with the cooperation of the Southern States Forestry Departments.

14 min., color, USDA, TV. 1962. (D)

3077 The Changing Forest

Excellent story of nature's long development, the survival and growth of plants and animals, their relationship in the scheme of life, and their contributions to man.

20 min., color, McGraw-Hill Book Co., Inc., not TV. 1960. (E)

3085 Collecting the Maple Bonus

Shows methods of collecting, evaporating, processing, and marketing maple syrup and its products. Features power tools, plastic collection bags, and central plastic tube collection systems. Emphasizes quality and the development of new uses for maple products. Of interest to large or small processors of maple syrup as well as to the general public.

23 min., color, Purdue University, TV. 1965. (E)

3093 The Coniferous Forest Biome

Studies in detail the cone-bearing trees of the wooded land areas of North America. Indicates some of the organisms which make up the forest food web.

15 min., color, Encyclopedia Britannica, not TV. 1969. (D)

3284 Do It Right

One man teaches another the safe way to use a chain saw for felling trees, bucking logs into fuel wood, and limbing. Illustrates general safety precautions.

16 min., color, Homelite, not TV. 1976. (D)

3111 Dutch Elm Disease

Outlines the origin and spread of Dutch elm disease using a series of still images. Discusses actions to be taken to help curb the spread of the disease. General in its approach, the film is useful for opening community discussions.

10 min., color, Sly Fox Films, Inc., TV. 1976. (C)

3160 The Eternal Forest

Shows neglect of North America's primeval forests. Explains the awareness of resource depletion and the balance between use and protection in the future. Excellent photographic and sound effects. For adolescent or adult audience.

20½ min., color, USDA, TV. 1970. (E)

3186 Fire Called Jeremiah

Presents a tribute to the people of the U.S. Forest Service who stand guard over our nation's forests. Explains the training, effort, and organization involved in fighting a major forest fire. For adolescent or adult audience.

52 min., (2 reels), color, Walt Disney, not TV. 1962. (E)

3187 Fire on the Land

Shows the damage fires can do to agriculture, wildlife, and forests. Suggests ways of controlling fires and emphasizes the importance of community cooperation.

25 min., color, Minnesota Foundation, TV. 1958. (E)

3206 The Forest

Shows the multiple benefits provided by our national forests. Excellent photography of water conservation and flourishing wildlife. Shows how timber grows and is harvested and replenished. Features trail riding, family picnics, skiing, and other recreational opportunities.

28 min., color, USDA, TV. 1965. (E)

3207 Forest in a Museum

Features the 1¼ acre Beaver National Forest exposition at Ghost Ranch Museum in New Mexico. Tells the story of multiple use through small-scale models of animals, people, and a fire tower. Also shows living animals and birds on exhibit at the museum. For school children.

11 min., color, USDA, TV. 1962. (C)

3208 Forest Patterns: Beauty and Use

A U.S. Forest Service officer describes the various uses of forests. Most of the scenes are from western forests, but the practices shown are quite general. For adolescent or adult audience.

19½ min., color, USDA, TV. 1966. (D)

3210 The Forest Productive

An excellent, comprehensive film on the forest and its management and uses. Shows logging techniques such as helicopter and balloon logging. For adolescent or adult audience.

30 min., color, Northwestern Lumberman, Inc., TV. 1968. (E)

Forestry and Forest Products

Films continued

3211 The Forest Service Engineer

Tells the story of the forest service engineers — men who share with the forest rangers the responsibility of managing, protecting, and developing the resources of the national forests. They design and supervise the construction of roads and trails and are responsible for surveying and mapping forest areas.

24 min., color, USDA, TV. 1959. (E)

3212 Forests are for People

A college dropout and a student environmentalist learn from a professional forester the technique of modern forest management. For adolescent or adult audience.

28½ min., color, American Forest Institute, TV. 1973. (E)

3256 Heritage Restored

Tells the story of early use and abuse of forest lands in the eastern U.S. In 1911 the Weeks Law put the first national forest lands in the east under protection. Twenty million acres are now restored and productive.

14 min., color, USDA, TV. 1962. (D)

3299 Introduction to Forest Adventuring

This colorful and practical lesson for the beginning camper covers use of compass, map reading, outdoor etiquette, proper clothing, use of fire, trail exploring, use and care of tools, and water safety.

26 min., color, Syracuse University, not TV. 1966. (E)

3302 Islands of Green

Over 60 years ago, conservationists set aside the national forests as large islands of green for the American people. Increasing pressure for outdoor recreation and conservation education has created a need for small islands of green near urban communities. The National Audubon Society is prepared to assist any community in a plan for a nature conservation center.

24 min., color, USDA and National Audubon Society, TV. 1965. (E)

3323 The Land Changes

A newspaperman tells how wornout, nearly worthless land can become a real asset to the local community. Shows land acquired for national forest purposes on the Shawnee, the Hoosier, and the Wayne National Forest in the Ohio Valley. Such land improved with reforestation, protection, and proper management helped man and his community to prosper.

13½ min., color, USDA, TV. 1957. (D)

3332 Life in a Deciduous Forest

Illustrates forest environment in the following sequence: temperature and moisture, the coming of spring and its effects on plant and animal life, the influence of increased amounts of shade, photosynthesis, insects feeding on developing leaves and birds feeding on insects, influence of shade and rain, adaptations of plants to compete for light and space, organisms of decay and influence on cycle of food materials, camouflage for protection, seed dispersal, shortened days and approach of winter and the adaptations of living things, and seasonal changes. Excellent color photography. For adolescent or adult audience.

19 min., color, International Film Bureau, not TV. 1963. (D)

3333 Life in the Woodlot

Blends a bit of forestry, biology, ecology, and natural history into an essay on the woodlot. Portrays the interdependence of all living things — animals, plants, and bird life — in the woodlot.

17 min., color, McGraw-Hill Book Co., not TV. 1973. (D)

3336 Little Smokey

Hopalong Cassidy narrates the story of Smokey, the forest-fire preventing little brown bear cub, found clinging with burned paws to a charred tree. Portrays Smokey's life from his burned-out home in the Capitan Mountains of New Mexico to the National Zoo in Washington, D.C. Smokey became the symbol of the need for applying fire-prevention measures to all forests in the U.S. For adolescent or adult audience.

13 min., color, USDA, TV. 1953. (D)

3353 Man Against Fire

The story of man's fight to save forest resources from destruction by fire by using his experience, muscle power, stamina, technology, and strategy. Shows how federal, state, and local cooperative fire control measures protect our nation's water supply, timber, wildlife, recreation areas, and scenic wonders of the forests.

28 min., color, USDA, TV. 1969. (E)

3355 Man in Green

Tells the story of the state forestry organizations. "The man in green" is many men...the state forester, the district ranger, the service forester, and the urban forester. Shows these men working in their respective areas.

29 min., color, USDA, TV. 1970. (E)

Forestry and Forest Products

Films continued

3356 Maple Syrup

Maple syrup is one of our oldest agricultural commodities and one of the few crops uniquely American. Shows trees injected to prevent infection, plastic bags and tubing replacing traditional sap buckets, and operations growing larger and more efficient.

13 min., color, USDA, TV. 1968. (D)

3364 Mighty Western Forest

An aerial tour of the vast 12-state tree-growing area extending from the Rocky Mountains to the Pacific and from Canada to Mexico. Shows in detail the benefits provided by the forests.

27 min., color, Western Wood Products Assn., TV. 1968. (E)

3369 Miracle of Wood

Traces the evolution of plywood, one of today's most versatile materials.

27 min., color, American Plywood Assn., TV. 1970. (E)

3388 Mystery at Smokey Hollow

A forest ranger traces the origin of a woods fire by questioning members of a community about their activities in or near the woods at the time the fire started. For adolescent or adult audience.

28 min., color, USDA, TV. 1968. (E)

3394 The New Alaska

Presents the forests and natural resources of Alaska. Shows the basic steps in harvesting timber and making it into paper. Features tourist and camper attractions. For adolescent or adult audience.

27 min., color, USDA, TV. 1960. (E)

3399 New Horizons for Wood

Shows uses of wood and explains how research is making wood a more valuable building material. Shows work being carried on at test laboratories.

26 min., color, State University of New York, TV. 1964. (E)

3429 Out of the Woods

Depicts the functions of the farm service forester within the framework of a typical case history.

16 min., color, U.S. Forest Service, TV. 1955. (D)

3440 Patterns of Time

Describes how hardwood figures are selected and matched in patterns. Shows how hardwood plywood is made into engineered panels to provide maximum durability, stability, and beauty.

13½ min., color, Fine Hardwoods Assn., not TV. 1969. (D)

3455 Planting Isn't Enough

On tree plantations, planting is not enough. Proper management can double annual growth. Shows how values other than wood, such as recreation, good water, and wildlife habitat also increase.

11 min., color, USDA, TV. 1959. (C)

3465 The President Plants a Tree

Shows many of the trees planted by U.S. presidents during the past 100 years. Effectively points out the value of trees. Excellent for Arbor Day programs.

7 min., color, USDA, TV. 1958. (C)

3479 Rainbow Valley

Portrays the work and responsibilities of the U.S. forest ranger including protecting and managing the resources of the national forests. Also shows the multiple benefits of the forests in the form of timber, water, grass, wildlife, and recreation.

28½ min., color, USDA, TV. 1954. (E)

3500 River Run

Shows that properly managed forests bring continuing prosperity over the years, benefiting owners, the community, and the nation. Vividly portrays the once familiar log drive which has almost vanished from the American scene.

15 min., color, USDA, TV. 1951. (D)

3047 Roots of the Nation

America's forest reserves have made a significant contribution to the development of our nation. Shows the dependence our forefathers placed on the forest and illustrates how modern man still needs forests for industrial and recreational purposes.

28½ min., color, USDA Forest Service, TV. 1976. (E)

3533 Siding Sense

Describes types of wood siding and specific characteristics of each. Outlines the history of siding and emphasizes qualities of wood siding as compared to other building materials. Excellent photography throughout.

14 min., color, Western Wood Products Assn., not TV. 1960. (D)

Forestry and Forest Products

Films continued

3540 Smoke Jumpers

Shows how the U.S. Forest Service has developed its own airborne squadron of parachute fire fighters or "smoke jumpers" to combat forest fires in remote areas. Covers the glamorous and unglamorous aspects of smoke jumping and carries a dramatic forest fire prevention message.

10 min., color, USDA, TV. 1949. (C)

3541 Smokey's Story

Dennis Weaver meets a group of young campers in the woods, sees that one boy is playing with matches and tells the story of Smokey, the cub who survived a forest fire. Good photography of wildlife and forest scenes. For adolescent audience.

12 min., color, USDA, TV. 1971. (D)

3563 Then it Happened

A documentary of the Maine forest fire of 1947 which destroyed much of that state's beautiful forest. Includes breath-taking scenes of the raging fires that claimed human lives, destroyed farms and villages, and caused property damage of well over \$30 million. Grimly portrays the need for forest fire prevention and adequate fire control measures everywhere.

10 min., color, USDA, TV. 1948. (C)

3570 This is Your Forest

A forest ranger explains what his district is for to two boy scouts. Includes scenes of national forest activities. Filmed in the northern lake states.

10 min., color, USDA, TV. 1955. (C)

3576 Timber and Totem Pole

Presents Southeast Alaska including the Tongass National Forest where there is timber to be felled and hauled to the mills. Shows vast acreages of Sitka spruce, western hemlock, and graceful cedar. Shows native Alaskan Indians in ceremonial garb restoring and copying their totem poles which tell the legends of the land in ancient carvings.

10 min., color, USDA, TV. 1949. (C)

3577 Time for Decisions

Shows three steps in the control of Dutch elm disease: sanitation, preventing root graft transmission, and chemical treatment. Explains each step as well as the life history of the beetle which carries the fungus causing the disease. Excellent for community groups.

30 min., color, Iowa State University, TV. 1967. (E)

3588 To Touch the Sky

Presents the dynamics of harvesting, reforestation, culturing, and protecting the forest as seen from an industrial forestry organization's perspective. Shows the production of forest products in outstanding photographic sequences.

27 min., color, Weyerhaeuser Co., TV. 1973. (E)

3590 Tomorrow's Trees

Deals with the fundamentals of forest land management. Filmed in the Pacific Northwest. With the use of time-lapse photography and unusual photo techniques, it shows the relationship of man, animals, and plants in nature.

31 min., color, Weyerhaeuser Co., TV. 1962. (E)

3599 A Tree Grows for Christmas

Tells the history and legend of the Christmas tree. Shows how the trees are cut and marketed and how a tree should be handled after it is brought home.

10½ min., color, USDA, TV. 1949. (C)

3601 A Tree is Born

Procedures that have been used in producing better agricultural plants and animals are being employed to produce faster growing, healthier, better-formed forest trees. Shows the techniques used to produce hybrid pines through controlled pollination and through the selection of superior pines and the use of their natural seed. Time-lapse photography shows a pine cone opening and tree seeds germinating and growing.

29 min., color, USDA, TV. 1959. (E)

3600 Trees and Their Care

Points out the value of good trees in our society and the reasons for taking good care of them. Shows practices such as fertilizing, planting, pruning, and fitting trees into landscape plans. For adolescent or adult audience.

29 min., color, International Film Bureau, Inc., not TV. 1966. (E)

3602 Trees — How We Identify Them

Presents the basic principles of tree identification. Use with a group before going into the woods to study trees.

9½ min., color, Coronet Films, not TV. 1961. (C)

Forestry and Forest Products

Films continued

3603 Trees — Minnesota's Tallest Crop

Describes Minnesota's third largest industry — trees, exceeded only by farming and mining. Stresses the principle of multiple use management of forest resources. Shows water control, recreation, wildlife, and tree harvest. Presents machines used in tree harvesting and processing in action.

22 min., color, Minnesota Forest Industries, TV. 1969. (E)

3615 Viewpoint

Story of the national forests narrated by Bob Bray of the Lassie TV series. Includes many striking sequences of national forests in different sections of the country plus some clips from the Lassie series.

25½ min., color, USDA, TV. 1967. (E)

3616 Vision in the Forest

Features Vaughn Monroe and his family enjoying a camping trip in the forest. Songs include "Racing With The Moon," "Riding In The Sky" and "Smokey The Bear." Shows how we all can cooperate with Smokey to prevent forest fires.

5 min., color, USDA, TV. 1957. (C)

3619 Voice of the Forest

Dramatization of one impressionable boy at summer camp, a forest that talks to him when he gets lost in the woods, and a carelessly set fire that threatens his new-found friends. For adolescent audience.

27 min., color, USDA, TV. 1961. (E)

3625 Waters of Coweeta

Shows the results of 20 years of research work at the hydrologic laboratory on the Coweeta experimental forest in the Nanthala Mountains of North Carolina. Illustrates how the management of our forests affects the flow of water in the streams. Students, teachers, engineers, and scientists visit Coweeta to find out the results of basic research and applied watershed management. Shows how the relationship between water and forest affects the lives of all of us in one way or another.

20 min., color, USDA, TV. 1953. (E)

3624 Watershed Wildlife

Story of the fight to suppress wildfire in the Santa Inez watershed in California's Los Padres National Forest. Stresses the importance of immediate re-seeding to prevent devastating floods with the advent of the rainy season.

21 min., color, USDA, TV. 1959. (E)

3658 Wildlife and Timber

Portrays the interesting management relationship between the two major crops of wildlife and timber in the Ocala National Forest in Florida. Shows how cutting the timber improves the habitat for deer, quail, turkey, and other wildlife. Years of research and practical experience lie behind the scientific timber management practiced.

6½ min., color, USDA, TV. 1957. (C)

3663 Wind Erosion — Tree Windbreaks

Shows benefits of windbreaks and discusses various kinds. Includes suggestions for planning windbreaks. One of a series of four films on wind erosion.

6 min., color, USDA, TV. 1950's. (C)

3684 Wood: A Masterpiece of Creation

Excellent film for forest products students in wood identification and structure. Shows diversity and multiple uses of wood and its advantage over other building materials. Although advanced for general public, would be enjoyable to a more knowledgeable audience.

28 min., color, International Film Bureau, Inc., TV. 1975. (E)

3672 Woodland Manners

Shows the need for visitors to the national forests to observe the necessary sanitary measures, to be careful with fire, to use just plain good manners, and to leave his picnic spot in as good or better condition than he found it. Only by doing so can we continue to enjoy the beauty in our national forests.

19½ min., color, USDA, TV. 1952. (D)

3564 A Working Forest

A group of private woodlot owners attempt to put a declining town back on its feet by forming a forestry cooperative. Discusses the prerequisites and methods for forming a co-op and shows how a small community can benefit economically by its formation.

18 min., color, USDA, TV. n.d. (D)

Forestry and Forest Products

Films continued

3667 The Working Forest

Shows the selection of fir and pine trees for lumber and how inventory, selective cutting, and reforestation are conducted through good management. Includes the processes of research, breeding, plantings, lumber cutting, and production of wood products. For adolescent or adult audience.

27 min., color, Union Pacific Railway Co., TV. 1969. (E)

3668 Working the Sugarbush

Describes maple syrup production in Minnesota; opens with early Indian methods of making maple syrup contrasted with today's. Shows washing equipment, tapping trees, collecting sap, boiling, and bottling.

21 min., color, University of Minnesota, TV. 1961. (E)

4-H YOUTH DEVELOPMENT

Slide Sets

681 Art and Young People

Gives examples of art projects for 4-H Arts and Crafts, Unit I. Excellent for use with project leaders to introduce various phases of programs (sketching, drawing, painting, sculpture, construction, crafts, printing process, posters) and to help them understand what to expect in children's art.

67 slides, color, University of Minnesota. 1968. (B)

36 Basic Principles of Foot Care and Cold Shoeing (4-H Horse Project)

Shows basic principles of trimming a horse's feet, correcting crooked feet, and evaluating a good horseshoeing job.

73 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 20:00), 4-H Service Dept. 1975. (B)

63 Bicycle Selection and Maintenance

Describes how to select and adjust a new bike to fit the rider and provides instruction in bike maintenance. Demonstrates activities such as repairing flats, adjusting brake cables, and lubricating wheel bearings. Useful for 4-H'ers in the bike project. Because the slide set is not on an introductory level, a discussion or learning session is recommended before using the set.

110 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 17:14), National 4-H Service Committee and Thomas A. Powell, extension specialist, 4-H Youth Development, University of Minnesota. 1976. (B)

83 Bike Right — Pedal Power Workshop

Describes the purpose and activities of the Pedal Power Workshop sponsored by the University of Minnesota Agricultural Extension Service and the Minnesota Department of Public Safety State Patrol Safety Education Troopers. Designed to recruit Pedal Power participants and to explain the program to community groups.

48 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 5:00), Thomas A. Powell, extension specialist, 4-H Youth Development, University of Minnesota. 1976. (B)

40 Buy a Horse — Not Trouble (4-H Horse Project)

Discusses buying a horse, raises questions for the prospective buyer, and offers suggestions for obtaining assistance and finding sources of animals. Points out clues to look for in evaluating a horse's behavior and quality.

54 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 15:00), 4-H Service Dept. 1975. (B)

943 Communication Primer

Provides basic information to 4-H youth on the communication process. Useful as an introduction for training meetings in public speaking, demonstrations, news writing, or interpersonal communications.

80 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 14:30), University of Wisconsin. 1974. (B)

92 Competitive Trail Riding (4-H Horse Project)

Sharon Saare, a leading distance rider, describes the type of horse to select, the training program, and the procedures in entering competitive rides. Illustrates different types of competitive rides and shows the type of equipment to use. Discusses care of the horse, especially checking pulse and respiration. Excellent for the individual wishing to distance-ride with enough detail for a group wanting to establish a competitive ride.

80 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 16:00), 4-H Service Dept. 1975. (B)

903 Conservation of Natural Resources

Explains the natural resources of the conservation wheel: water, wildlife, grasslands, forests, and soil, and the importance of good conservation practices in each of these areas.

37 slides, color, National 4-H Service Committee. 1973. (B)

759 The County Creative Arts Program

Helps the creative arts county project chairmen in reviewing the component parts of a creative program and in setting the stage for program development and planning. Program is best used in small group program planning. Divided into four segments with time for discussion and questions between segments.

72 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 12:00), Susanne G. Fisher, extension specialist, 4-H Youth Development, University of Minnesota. 1970. (B)

4-H Youth Development

Slides continued

704 Demonstration Tips

Designed for 4-H youth who wish to learn the principles of giving a good 4-H demonstration. It is a guideline for beginning 4-H "show and tell" participants.

32 slides, color, North Dakota State University. 1969. (B)

41 English Saddle Construction (4-H Horse Project)

Shows the step-by-step construction of the English Saddle. The variations in prices and quality of English saddles make it necessary for the prospective purchaser to be familiar with construction techniques. Shows the tools used, trees, saddlemaking techniques, and the marks of quality.

41 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 12:00), 4-H Service Dept. 1975. (B)

947 Evaluating Constructed Garments

Assists 4-H members and judges in understanding criteria for evaluating garments. Emphasizes the possibility of achieving the standards of well-constructed garments.

46 slides, color, Iowa State University. 1974. (B)

916 Evaluating 4-H Dress Revue

Will assist 4-H members and judges in understanding evaluation criteria for dress revue contests. Emphasis in evaluation is in three areas: the total look created by the garment on the individual; the individual's poise, posture and grooming; and construction of the garment as it affects the appearance when worn.

70 slides, color, Lois A. Goering, extension specialist, textiles/clothing, University of Minnesota. 1974. (B)

905 4-H Aerospace Program

Gives an overview of the 4-H aerospace program. Includes pictures of model rocketry, model airplane activities, flying, and self-determined opportunities.

66 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 5:00), University of Minnesota. 1973. (B)

113 The 4-H Arts-In

Describes the activities and goals of the Minnesota 4-H Arts-In program, a one-week concentrated course in the arts for teens. Useful to define the program and to encourage participation.

51 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 7:35), University of Minnesota. 1977. (B)

691 4-H Electricity Project: I. Fundamentals of Electricity, II. Fundamentals of Lighting

Includes basic electrical relationships, simple circuits, and wiring as well as electrical safety. Describes types and characteristics of light and lighting fixtures and includes such factors as contrast, color, glare, arrangement, and cost.

49 slides, color, Harold A. Cloud, extension agricultural engineer, University of Minnesota. 1969. (B)

49 4-H Forestry: An Action Program

Promotes the 4-H forestry project. Illustrates how 4-H'ers can become involved in activities to develop their skills and knowledge in managing forest resources.

139 slides, color, National 4-H Service Committee. 1975. (B)

847 4-H Geology Project

Presents an overview of geology as a science and as a 4-H project. Information ranges from field trips to elephant teeth to a lapidarist (one who cuts, polishes, and engraves stones).

29 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 25:00), Wayne E. Carlson, extension specialist, 4-H Youth Development, University of Minnesota. 1972. (B)

873 4-H Girls Put it all Together

Includes grooming, posture, poise, becoming garment selections, and skill in construction, fitting and pressing. Shows 4-H Club girls at the 1972 Minnesota State Fair Dress Revue. For adolescent audience.

29 slides, color, Thelma Baierl, University of Minnesota. 1973. (B)

843 4-H International Caravan

Presents the excitement of living with a family in Austria, working with them, learning songs, dances, new foods, a new language, and making new friends. Acquaints teens with the international opportunity of the 4-H Caravan.

27 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 5:00), National 4-H Foundation. 1972. (B)

954 4-H Is . . . And Isn't

Describes what 4-H is in Minnesota. The six sections include: 1) 4-H is youth development, 2) 4-H is participation and involvement, 3) 4-H is everywhere, 4) 4-H is projects, programs, activities, and fun, 5) 4-H is a look at tomorrow, and 6) 4-H is a challenge.

99 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 15:00), University of Minnesota. 1974. (B)

4-H Youth Development

Slides continued

749 4-H Presents do Your Thing

Helps leaders understand the philosophy of the self-determined project in which a 4-H member plans, develops, and evaluates a project of his own choosing. Modified for Minnesota.

33 slides, color, University of Illinois. 1970. (B)

417 4-H Science in Food and Nutrition Projects

Demonstrates exhibits 4-H'ers can develop to show how science is related to food.

37 slides, color, Iowa State University. 1962. (B)

823 4-H Wildlife Project Demonstration

Describes tips on giving a better demonstration or talk on wildlife subjects. Points out how wildlife form an important and vital part of our environment.

49 slides, color, USDA. 1970. (B)

27 Genetics of Coat Color of Horses (4-H Horse Project)

Shows most of the different colors of horses. Explains genetic principles and suggests which crosses to use or not to use to get certain colors. Also shows head and feet markings.

49 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 14:00), 4-H Service Dept. 1975. (B)

9 A Guide to 4-H Food and Nutrition Projects

Introduces nine concepts that volunteer leaders relate to as they provide learning experiences for 4-H'ers. For 4-H food leaders.

72 slides, color, Mary E. Darling, extension nutritionist, University of Minnesota. 1975. (B)

127 Hats Off to Leaders

Designed to help 4-H project leaders examine their role in terms of the following concepts: purpose of 4-H, importance of the project leader, using the child-centered approach, involving members in leadership roles, involving parents, using community resources, assessing member growth, and knowing success as a project leader. For use with leaders of a shop or woodworking project or for recruiting and training new project leaders.

80 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 9:15), University of Wisconsin-Madison. 1977. (B)

35 Health Hints for Your Horse (4-H Horse Project)

Explains health management of the home-owned horse and covers laminitis, wire cuts, navicular disease, nail pricks, colic, internal parasites, and immunization programs.

61 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 15:00), 4-H Service Dept. 1975. (B)

52 Here Come the Campers

Shows a variety of camp settings and program activities from 4-H summer camps. Appropriate for 4-H meetings or orientation of junior counselors.

76 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 5:00), Burton Laine, 4-H camping assistant, Minnesota. 1976. (B)

28 Horse Safety (Catching, Leading, Grooming) (4-H Horse Project)

Shows catching, leading, and grooming in detail. Includes safe and unsafe ways of horse handling. Useful for youngsters and inexperienced horse handlers, but helpful to experienced horse handlers also.

60 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 13:00), 4-H Service Dept. 1975. (B)

91 Horse Safety for the Hunt Seat Rider (4-H Horse Project)

Presents accident prevention tips for both horse and rider. Describes safe clothing and tack and discusses safety in mounting and in riding. Emphasizes horse management on the ride and safety over fences. Shows safety procedures with "green" horses and with group riding in fields and public places.

59 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 16:00), 4-H Service Dept. 1975. (B)

29 Horse Safety — Saddling, Bridling, and Riding Western (4-H Horse Project)

Shows safety in saddling and unsaddling a horse, as well as bridling, mounting, and riding western. Includes trailering a horse to and from shows and safety practices unloading at the show. Deals with some trail riding and fun riding practices including riding double.

71 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 20:00), 4-H Service Dept. 1975. (B)

Slides continued

**38 Horse Training by Driving
(4-H Horse Project)**

Presents a colt being led, a young horse being saddled, and some details on riding and training a young horse. Describes how to avoid problems or how to deal with them if they do occur.

54 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 15:00), 4-H Service Dept. 1975. (B)

61 The IALAC Story

Deals with one's IALAC image. (IALAC stands for I am lovable and capable). Although everyone wants to feel lovable and capable, sometimes people and events tear away parts of their positive image making people feel hurt and rejected. Presents the classical put-down allegorically.

80 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 10:00), Argus Communications. 1975. (B)

**31 Intermediate Trail Riding
(4-H Horse Project)**

Presents scenic trails of Missouri and deals with preparation for a ride, equipment to take, loading and hauling, location in camp, feeding and management of the horse in camp, and recreational opportunities offered, other than trail riding, while in camp. Pertinent to the overnight ride but useful to the one-day ride also.

71 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 20:00), 4-H Service Dept. 1975. (B)

**32 Internal Parasites of Horses
(4-H Horse Project)**

Presents the major internal parasites of horses and shows clinical and postmortem conditions. Suggests three management programs based on horse population and age. Brings an awareness to the horse owner of the danger of internal parasites and what to do about them.

43 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 11:00), 4-H Service Dept. 1975. (B)

**26 Joining the 4-H Dog Care and
Training Program**

Explains the responsibilities of dog ownership and gives an insight into the 4-H Dog Care and Training Program.

73 slides, color, National 4-H Service Committee. 1975. (B)

94 Longe Line Training (4-H Horse Project)

Helpful to the new horse owner or the horse owner inexperienced in longeing horses. Shows procedure and technique necessary for a beginning horse and those useful with an older horse. Includes a description of equipment, the procedure in fitting it to the horse, and the techniques of working alone or with an assistant. Illustrates problems that may arise and suggests solutions.

44 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 13:00), 4-H Service Dept. 1975. (B)

682 Looking and Feeling

Helps leaders and 4-H members start thinking about art and art ideas, by using their eyes and emotions. Uses everyday items and nature scenes to show that immediate surroundings can offer interesting ideas.

72 slides, color, University of Minnesota. 1968. (B)

111 A Matter of Record

Offers suggestions for assembling 4-H records and for completing the National 4-H Report Form.

56 slides, color, cassette tape (both audible tones and automatic, inaudible 50 Hz pulses, time 27:00), National 4-H Council. 1977. (B)

254 Minnesota Wildlife

Includes song birds, water birds, waterfowl, and common mammals. Although planned to be used with the 4-H conservation projects, would be helpful in any conservation meeting.

68 slides, color, University of Minnesota. 1959. (B)

**44 New Textiles and Clothing 4-H
Exhibit Ideas**

Illustrates the clothing exhibit areas added to the 1976 clothing project State Fair Exhibit List. Serves as resource material for county staff and clothing project leaders in promoting new opportunities within the clothing project area.

14 slides, color, Sherri A. Gahring, extension specialist, textiles/clothing, University of Minnesota. 1976. (B)

220 Parliamentary Procedure in Action

Presents fundamentals of conducting a group meeting in cartoon form. Developed primarily for 4-H Club work, but useful for any group using parliamentary procedure.

48 slides, color, Educational Filmstrips. 1957. (B)

Slides continued

615 A Pictorial Story of National 4-H Congress (1976)

Recalls the 1976 National 4-H Congress in Chicago. Useful as a reporting device with 4-H and other groups, for orienting delegates planning to attend National 4-H Club Congresses in the future, and to gain local support for 4-H. Delegates and leaders may have slides to add to the set to adapt it for a particular audience.

45 slides, color, National 4-H Supply Service. 1976. (B)

93 Plaiting the Hunter's Mane and Tail (4-H Horse Project)

Details the major ways of preparing and braiding hunters' manes and tails and shows close-ups on how to thin, trim, and braid the mane. Includes techniques of sewing, taping, and using rubber bands and describes in detail two methods of preparing the hunter's tail.

59 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 12:00), 4-H Service Dept. 1975. (B)

33 Practical Horse Psychology (4-H Horse Project)

Combines art with actual horse pictures to illustrate why horses act and react as they do under different conditions. Shows how the 60-million-year evolution of the horse relates to some of his senses and responses under varied riding and training conditions. Discusses problems of loading, training, riding, seeing, hearing, and becoming barn-sour.

57 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 17:00), 4-H Service Dept. 1975. (B)

34 Pre-bit Hackamore Training (4-H Horse Project)

Describes history and use of the hackamore and shows a young horse being trained with it. Shows adjustment, usage, turns, stops, and rollbacks and describes how to effect them.

40 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 11:00), 4-H Service Dept. 1975. (B)

812 Preparing a 4-H Photo Exhibit

Shows how to prepare a 4-H photography exhibit for entry in county and state fairs. Covers selection of pictures for story telling ability and photographic quality, methods of mounting the photographs, and captioning. Uses examples of entries from the 1971 Minnesota State Fair to illustrate various points.

53 slides, color, Donald L. Breneman, extension information specialist, University of Minnesota. 1972. (B)

195 Preparing the 4-H Vegetable and Potato Exhibit

Shows techniques important to any group interested in exhibiting vegetables or potatoes.

30 slides, color, Orrin C. Turnquist, extension horticulturist, University of Minnesota. 1956. (B)

37 Saddle and Equipment Selection (4-H Horse Project)

Covers western, English, and forward seat saddles. Shows different types of trees and different uses of saddles. Points out center of gravity of a horse for different types of riding. Useful in selecting and using a saddle for any type of riding.

54 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 17:00), 4-H Service Dept. 1975. (B)

866 Scenery on a Budget

Shows how to recreate scene design through the reuse of existing scene materials. Suggests inexpensive sources of materials for scene design and goes into basic design theory to help achieve a variety of settings with limited means.

43 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 30:00), Dale Huffington, George Bogusch, and Huldah Curl, Continuing Education and the Arts, University of Minnesota. 1973. (B)

842 Service to Youth (National 4-H Foundation)

Describes the services of the National 4-H Foundation and the 4-H Center as applied to 4-H youth programs. Useful for promoting leaders' forums and citizenship short courses or orienting delegates to the center.

77 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 9:00), National 4-H Foundation. 1975. (B)

856 Technical Considerations for Stage Presentation

Reviews the technical aspects of lighting, make-up, costuming, scenery and props, sound equipment, blocking, and movement. Shows how technical aspects of the performance add the final touches to the show. Examples used are from the 1972 Minnesota State Fair Share-The-Fun Program. For adult and junior leaders working directly with members in local or county Share-The-Fun shows.

53 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 13:00), Lianne Anderson, assistant extension specialist, 4-H Youth Development, University of Minnesota. 1972. (B)

Slides continued

**89 Techniques of Line Driving
(4-H Horse Project)**

Illustrates in detail line driving techniques. Shows different types of equipment and adjustments and the details of grooming, preparing, and driving the horse. Suggests techniques of starting, stopping, turning, standing, backing, and correction of problems that may arise. Useful for beginning or experienced drivers.

57 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 14:00), 4-H Service Dept. 1975. (B)

809 We've Only Just Begun

Explains the role of the 4-H leader in generating interest in leadership. Contains statements by 4-H members and leaders as to why they joined 4-H and what they have received from the program. Fast moving and entertaining.

80 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 5:00), University of Minnesota. 1972. (B)

**90 Western Pleasure Trail Riding
(4-H Horse Project)**

Illustrates trail riding by individuals and groups of all sizes and ages. Suggests the how and where of locating a trail and preparing for the ride. Shows the mechanics of securing trails on which to ride, advertising the ride, meeting the group's food and drink needs, and leaving the trail in good condition. Also stresses safety on the ride.

67 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 15:00), 4-H Service Dept. 1975. (B)

**39 Western Saddle Construction
(4-Horse Project)**

Shows details of constructing a western saddle, both by hand and on an assembly line. Helps a prospective buyer identify quality and weaknesses in saddles. Goes into some detail on leather quality, trees, and styles.

69 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 14:00), 4-H Service Dept. 1975. (B)

**30 What the Judge Looks for in Equitation
Classes (4-H Horse Project)**

Deals with western stock seat, saddle seat, and hunt seat equitation. Shows correct and incorrect ways to perform in these events. Jim Kiser of Iowa State University, a horse-show judge, shares his knowledge of equitation riders' troubles and what it takes in the winner's circle.

71 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 20:00), 4-H Service Dept. 1975. (B)

Films

3030 Art, People, Feelings

Visual statements and musical poetry combine to give insights into the visual arts as a medium for expressing individual feelings. Many styles, periods, and art media illustrate the artist's approach in both historical and contemporary art.

15 min., color, Pyramid Films, TV. 1971. (D)

3044 Before You Go

Attempts to interest youngsters in enrolling in the 4-H Auto Safety Project. It is aimed at the pre-driver and is *not* a how-to-do-it film. Treats dramatically the value of responsible attitudes towards auto safety.

14 min., color, National 4-H Service Committee, TV. 1969. (D)

3052 A Better Place to Live

Promotes interest in 4-H horticultural projects. Encourages urban youngsters to enroll in 4-H. Project and demonstration ideas are suggested by a 4-H family that is actively engaged in a local club.

13 min., color, Pennsylvania State University, TV. 1965. (D)

3055 Bicycles are Beautiful

Four out of five bicycle accidents could be avoided if bicycle drivers observed the rules of the road. Illustrates these rules and uses a National Safety Council test to measure viewer knowledge. Narrated by Bill Cosby. For adolescent audience.

27 min., color, McDonald's Corp., TV. 1974. (E)

3076 Changing Art in a Changing World

Shows that the world is in a constant state of change. The artist, responsive to change, continually looks for fresh solutions to visual problems. Shows how art reflects changes in attitudes toward contemporary life.

21 min., color, BFA Educational Media, TV. 1971. (E)

4-H Youth Development

Films continued

3086 Color the City Green

Deals with 4-H activities in lawn improvement, care, and beautification. Filmed in Georgia. The principles and practices described, other than grass variety recommendations, are adaptable to Minnesota.

26 min., color, Agrico Chemical Co., not TV. 1968. (E)

3115 Discovering Color

Shows how colors differ in hue, value, and intensity. Demonstrates the techniques of color mixing and points out the variety of color in the world around us. Stresses the fact that the more we know about color, the more we can see, create, and appreciate.

16 min., color, Film Assoc., not TV. 1966. (D)

3116 Discovering Creative Pattern

Explains that pattern is visual organization composed of five elements: lines, darks and lights, colors, textures, and shapes. Pattern enriches surfaces. Points out how man has incorporated natural pattern into all of his handiwork. For adolescent or adult audience.

17 min., color, Film Assoc., not TV. 1965. (D)

3117 Discovering Ideas for Art

Develops an awareness of surroundings that can lead to ideas for art. For adolescent or adult audience.

15½ min., color, Film Assoc., not TV. 1965. (D)

3118 Discovering Line

Illustrates the way line is used to show movement. Increases awareness of the visual beauty and function of line in clothing. For adolescent or adult audience.

17 min., color, Film Assoc., not TV. 1966. (D)

3119 Discovering Perspective

Shows how we can create the appearance of distance on a flat surface by using perspective. Overlapping, vertical position, graying colors, varying detail, varying size, and converging lines are techniques used.

14 min., color, Film Assoc., not TV. 1967. (D)

3120 Discovering Texture

Shows how every surface has texture and how man can use paints, tools, and materials to change texture.

17 min., color, Film Assoc., not TV. 1967. (D)

3128 Driver in Command

Explains how to prepare and conduct a 4-H automotive driving event for teens. The driving exercises are designed to foster healthy attitudes towards driving and safety, allowing the participants to evaluate his or her own skills. Developed at North Carolina State University for the 4-H automotive project.

10 min., color, Firestone Tire and Rubber Co., TV. 1975. (C)

3184 Fire

Shows 4-H science club members discussing the science and value of fire and how destructive it can be. Covers fire extinguishers.

28½ min., blw, Michigan State University, TV. 1967. (E)

3213 4-H Citizenship Shortcourse

The story of the National 4-H Foundation's Citizenship Shortcourse. Describes the plane ride, Gettysburg, discussion groups, a riverboat trip down the Potomac to Mount Vernon, meeting with congressmen, monuments and memorials, and candle-lighting. Designed to stimulate participation and support for the 4-H Citizenship Shortcourse or Government Seminars.

18 min., color, University of Minnesota, TV. 1972. (D)

3214 4-H Tractor Trails

Tommy, a 4-H member, demonstrates a 4-H tractor project by competing with other club members at the state fair. A narrator tells of all the work Tommy did to win his trip to the fair. This includes maintenance, safety, and tractor handling.

15 min., color, Standard Oil Co., not TV. 1958. (D)

3231 Got a Minute

Shows teens volunteering to help as candy strippers, and to work with retarded youth, elderly citizens, and in mental institutions.

20 min., color, Great Plains National Instructional TV Library, not TV. 1972. (E)

3241 Hailstones and Halibut Bones

Poetry narration illustrates how color can be used to convey certain feelings and environments.

13 min., color, Sterling Educational Films, Inc., TV. 1964. (D)

3245 Happiness is 4-H

Promotional film for youths, parents, and potential leaders interested in establishing a 4-H Club. Combines cartoons and real-life boys and girls having fun in 4-H.

14 min., color, Kansas State University, TV. 1968. (D)

4-H Youth Development

Films continued

3271 How to Conduct a Meeting

The narrator straightens out a disorganized meeting by reminding the participants of the rules of parliamentary procedure. Examines basic procedures which include presenting committee reports, making motions and amendments, conducting debate, and voting. Discussion recommended before and after showing.

12 min., color, Centron Educational Films, TV. 1970. (D)

3285 India

Produced to tell the International Farm Youth Exchange (IFYE) story. Shows young Americans in India as part of this program. Suitable for recruiting IFYE applicants.

23 min., color, International Minerals and Chemicals Corp., TV. 1966. (E)

3305 It's All Within

A sharing of experiences involving Dorothy Emerson, consultant at National 4-H Council, and three junior leaders which aims at helping them learn more about themselves. Useful for training junior leaders.

9 min., color, University of Minnesota, TV. 1974. (C)

3414 Jars Full of Ideas

Illustrates creative projects based on reuse and recycling. All make use of glass containers, their covers, and other items people tend to have on hand. Useful to analyze leadership in creative activities.

8 min., color, Closure Committee of the Glass Container Manufacturers Institute, TV. 1975. (C)

3028 Keep a Safe Bike

Explains the basics of bike safety inspections and bike maintenance. An excellent resource for Pedal Power instructors and others in the 4-H bike project.

20 min., color, Cornell University, TV. 1975. (E)

3351 Make Tomorrow Happen

Features the presentation of national safety scholarships at the 1969 National 4-H Congress in Chicago. Shows young people enjoying a valuable experience of meeting together and receiving recognition for outstanding efforts in a 4-H career.

15 min., color, General Motors Corp., TV. 1969. (D)

3354 Man Enough for the Job

Presents the story of 4-H Clubs helping their members grow physically, morally, and spiritually into young men and women who can assume the responsibilities of good citizenship and become future leaders of their communities.

26½ min., color, Sam Orleans and Assoc., not TV. 1961. (E)

3361 Meteorology

Members of a 4-H science club observe clouds being made in a glass demonstration chamber, learn the elements that go together to make up a storm, become familiar with an anemometer, and learn how to measure wind and sunshine. The leader demonstrates how to make a hygrometer and a barometer.

28½ min., blw, kinescope, Michigan State University, TV. 1967. (E)

3363 Microbiology

Members of a 4-H science club learn how to use magnifying glasses and microscopes.

28½ min., blw, kinescope, Michigan State University, TV. 1967. (E)

3434 Painting is Loving

Designed for adults and older youth to develop art appreciation. Shows retarded children being helped to gain self-confidence and recognition through the love and attention of the teacher who uses the painting media.

19 min., color, Charles Conrad Films, TV. 1971. (D)

3438 Partners

Reid Ray Film Company worked with the state 4-H Club staff to explain club work (1921). Emphasizes how youngsters in 4-H can influence their parents to accept modern recommended practices. Strictly historical and entertainment value. Features Maynard Coe, first county club agent in Minnesota, T.A. Erickson, first state 4-H club leader in Minnesota, and their coworkers.

30 min., blw, silent, University of Minnesota, TV. 1921. (E)

3439 Partners with Youth

Shows volunteer adult leaders using different teaching methods with groups of young people. Illustrates the personal satisfaction of being a volunteer leader. For leader training and public relations with general audiences.

25 min., color, Cornell University. 1972. (E)

4-H Youth Development

Films continued

3442 Pedal Power

Shows how teens can be taught to use their local community resources to organize and conduct bicycle safety programs.

15 min., color, Lutheran Brotherhood, TV. 1974. (D)

3449 Physics

Members of a 4-H science club study topics in the field of physics.

28½ min., b/w, kinescope, Michigan State University, TV. 1967. (E)

3456 Plants

Members of a 4-H science club see some unusual plants, try some experiments, and discover how time-lapse photography is done.

28½ min., b/w, kinescope, Michigan State University, TV. 1967. (E)

3474 The Public Will

Presents a good view of city government attitudes and changes required to meet the complex needs of all the people in a city. For adolescent or adult audience.

20 min., color, Oxford Films, Inc., TV. 1974. (E)

3552 Strangers are Friends you Haven't Yet Met

Presents ideas on making friends in the Dorothy Emerson style of sincerity, honesty, and warmth. Elicits the feeling of a one-to-one relationship with Miss Emerson as the dialogue progresses. Excellent to stimulate discussion between 4-H'ers, leaders, and parents.

12 min., color, University of Minnesota, TV. 1974. (D)

3644 When Water Runs Wild

Illustrates the useful and destructive powers of controlled and uncontrolled water.

27½ min., b/w, kinescope, Michigan State University, TV. 1968. (E)

3673 You'll Never Walk Alone

Shows ways in which non-rural young people can learn and have fun in 4-H. Points out the importance of being alone, but also stresses the importance of having friends and being a part of a group.

20 min., color, Rutgers University, TV. 1968. (E)

Games

G-3 The Game of Sacrifice

Designed to help junior leaders increase their knowledge in community decision making. Divides the players into 10 interest groups which must negotiate decisions based on the best alternatives. Decision-making skill is measured by how successful each interest group is in making the appropriate decisions which, when combined, benefit the community most.

Education Ventures, Inc. 1972. (A)

FFA AND VOCATIONAL AGRICULTURE

Slide Sets

940 Fewer Farm Accidents

Shows how FFA members can help reduce farm and home accidents. Identifies some of the hazards that threaten agricultural communities and how safety campaigns can reduce accidents. For adolescent audience.

70 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 6:00), Farm and Individual Equipment Institute and Dow Chemical, U.S.A. 1973. (B)

867 FFA Programs of Activities Series

A series of 12 sets that give ideas on how to develop and promote the total FFA program.

	<i>Tape Time</i>
867A The New FFA — Relevant, Flexible	15:00
867B Supervised Experience	10:00
867C Cooperation	5:00
867D Community Service	7:00
867E Leadership	7:00
867F Earnings, Savings and Investments	5:00
867G Conduct of Meetings	8:00
867H Scholarship	6:00
867I Recreation	4:00
867J Public Relations	9:00
867K State and National Activities	13:00
867L A Close-up Look at FFA National	8:30

529 slides, 12 parts, color, cassette tape (automatic, inaudible 1000 Hz pulses, total time 1:37:30), National FFA Center, Virginia. 1972. (B)

818 Star Farmer of America 1971-72

Tells the story of Lonney Eastvold, 1971-72 Star Farmer of America, and first FFA member from Minnesota to receive this honor. Shows how Lonney started farming and learned to manage land, crops, livestock, labor, and finances. Useful in stimulating enthusiasm in FFA members.

55 slides, color, National FFA Center, Virginia. 1972. (B)

868 Youth With a Purpose

Shows the historical activities of FFA and the emergence of the present-day FFA and vocational agriculture programs. Demonstrates how youth can become involved in these pursuits.

183 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 10:00), National FFA Center, Virginia. 1972. (B)

Films

3016 Alexandria FFA Duck Raising and Releasing Program

Shows mallard ducklings being raised on an FFA member's farm, and later being released in Minnesota Conservation Department's wildlife areas that are open to hunting. Of interest to any audience interested in propagating wildlife.

10 min., b/w, silent, Alexandria FFA Chapter, Minnesota, TV. 1966. (C)

3170 Faces of Courage

Tells the Camp Courage story in the words of five disabled participating Minnesotans. Each tells of his own disability, and how the camp's services have helped him through treatment, therapy, recreation, and employment. A very human, inspiring film. Minnesota FFA members have helped sponsor this camp.

17 min., color, Courage Center, Minnesota, TV. 1973. (D)

3182 FFA — Focus on Forty

Presents the story of the 40th anniversary convention of the Future Farmers of America held in Kansas City, Missouri, in 1968. Captures the meaning and scope of the FFA organization.

28 min., color, The Venard Organization and Geigy Agricultural Chemicals, TV. 1969. (E)

3271 How to Conduct a Meeting

The narrator straightens out a disorganized meeting by reminding the participants of the rules of parliamentary procedure. Examines basic procedures which include presenting committee reports, making motions and amendments, conducting debate, and voting. Discussion recommended before and after showing.

12 min., color, Centron Educational Films, TV. 1970. (D)

3288 The Inheritors

Depicts the National FFA officers of 1969-70 promoting vocational agriculture, agri-business education, and the FFA to motivate young people to enter agriculture as a career.

17 min., color, Venard Films, not TV. 1970. (D)

3474 The Public Will

Presents a good view of city government attitudes and the changes required to meet the complex needs of all people in a city. For adolescent or adult audience.

20 min., color, Oxford Films, Inc., TV. 1974. (E)

FFA and Vocational Agriculture

Films continued

3516 Salute to FFA

Includes a historical sequence on the National FFA organization and some history of the early years of the Minnesota Association. Shows Faribault, Forest Lake, and other local chapters. Includes references to corn for Camp Courage, farm safety, anti-cigarette campaign, forestry project, farm record keeping, hand tools to Congo, and state and national FFA conventions.

27 min., b/w, WCCO-TV News Dept. and International Harvester, TV. 1965. (E)

3575 The 304 Bushel Challenge

Explains how a youth group can demonstrate corn production practices as a cooperative community project. Shows national FFA winners and some of the practices used to produce their record-breaking yield.

16 min., color, Funk Brothers Seed Co., not TV. 1960's. (D)

GENERAL INTEREST

Slide Sets

945 A Glimpse of our Agricultural Heritage and the Oliver Kelley Story

Relates the history of American agriculture to the growth of farm organizations with particular reference to the Grange. Shows the kind of farm implements used, some of the early housing, and gives some of the highlights of Oliver Kelley's life. Kelley and his colleagues founded the Grange, the first farm organization in America.

52 slides, color, University of Minnesota. 1974. (B)

8 Knotholes and Telescopes

Highlights the people, projects, programs, and milestone events that have contributed to the development of the Minnesota Agricultural Extension Service. For adolescent or adult audience.

160 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 25:00), University of Minnesota. 1975. (B)

67 Minnesota's Land Grant Resource

Explains and illustrates the organization and functions of the Institute of Agriculture, Forestry and Home Economics on the St. Paul Campus of the University of Minnesota.

122 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 16:00), University of Minnesota. 1976. (B)

902 Who Will Control Agriculture

Presents problems American agriculture faces and the choices open to farmers: freedom, efficiency, security, or equality. Gives a good overview of what is going on in agriculture.

150 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 25:00), University of Illinois. 1973. (B)

834 Your Agricultural Extension Service

Explains how the Agricultural Extension Service helps people adapt to change by extending the resources of a university to all parts of the state. For adolescent or adult audience.

81 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 10:00), University of Minnesota. 1972. (B)

Films

3010 Agricultural Portrait

Highlights the development of Minnesota agriculture from territorial days to the present. Excellent photography shows the varied industries that make up Minnesota's economy.

26 min., color, Reid Ray Film Industries, TV. 1958. (E)

3012 Agriculture, Research, and You

Shows the wide variety of agricultural research carried on at land-grant colleges and explains the importance of this research to our economy. Presents several scenes shot at the University of Minnesota. Points out the significance of chemicals in today's farming.

28 min., color, Farm Film Foundation, TV. 1965. (E)

3014 Agriculture's Showcase Abroad

Shows millions of the world's customers seeing, feeling, and tasting American farm products on display at international trade fairs. They enjoy things we take for granted such as instant dry milk, fried chicken, and the supermarket. Helpful in discussion of marketing problems and matters related to agricultural adjustment.

13½ min., color, USDA, TV. 1962. (D)

3013 Agriculture USA

Answers the questions: What is the place of the farmer in today's society? In the home...industry...marketplace? Shows that from research comes knowledge, and from knowledge comes the power to meet the needs of our ever-expanding population.

28½ min., color, USDA, TV. 1962. (E)

3020 Among Your Souvenirs

Warns travelers returning with souvenirs that importation of plant disease and insect pests can be a problem. Explains the duties of agricultural quarantine inspectors and discusses the measures a future traveler can take to return with agriculturally safe souvenirs.

13½ min., color, USDA, TV. 1967. (D)

3056 Big Harvest

Shows how everyone has benefited from scientific research and cooperative activity. Of general interest on the development of agriculture. Useful for service clubs and civic groups.

25 min., blw, Twentieth Century Film Co., TV. 1949. (E)

3025 Day in Court

Illustrates the principal failures on the part of automobile drivers, both male and female, which land them in court — or the cemetery. "Courtesy is contagious" is its basic lesson.

24 min., color, International Harvester, TV. 1976. (E)

General Interest

Films continued

3178 Farmfest U.S.A.

Reports the activities at the 19th World Plowing Contest held in September 1972 near Vernon Center, Minnesota. Shows several contestants in action using tractors as well as horses. Captures the highlights of the event including the appearance of Bob Hope.

18 min., color, Midland Cooperatives, Inc., TV. 1972. (D)

3179 Farming in Sweden

Describes farming conditions in Sweden during the middle fifties. Shows the kinds of farm machinery, typical farmsteads, and other buildings. Would be interesting to a group discussing farming in other countries. Narrated in English.

20 min., blw, Sol Films, Sweden, TV. 1956. (E)

3681 Food From Farm To You

Answers the question, "Where does food come from?" by describing different kinds of farming. Gives basic information about farming techniques, crops, and animals. For nonfarm audience.

15 min., color, Farm Film Foundation, TV. 1972. (D)

3280 I Know I Belong

Deals with the role of the farmer in the nation's economy. Useful for public relations in behalf of the farmer.

8 min., color, Elanco, TV. 1971. (C)

3347 Lucy

A city boy learns about farming the hard way in this comedy featuring International Harvester machinery. For adolescent or adult audience.

14½ min., color, International Harvester, not TV. 1972. (D)

3394 The New Alaska

Presents the forests and natural resources of Alaska. Shows the basic steps in harvesting timber and making it into paper. Features tourist and camper attractions. For adolescent or adult audience.

27 min., color, USDA, TV. 1960. (E)

3417 One Road

Presents the story of two men taking an automobile trip around the world. Highlights 16 countries beginning in Europe and including Pakistan and Indo-China. Beautifully photographed. For adolescent or adult audience.

27 min., color, Ford Motor Co., not TV. 1966. (E)

3026 Our American Heritage

Takes viewer from primitive jungle farming to the American super agriculture of today. Stresses the fact that civilization has always been dependent on the bounty of the earth, whether harvested by a sickle or a self-propelled combine. For both farm and city audiences.

22 min., color, International Harvester, TV. 1977. (E)

3139 Reaching Out

Learning at the University of Minnesota doesn't all happen in the classroom; it can happen within penitentiary walls, during calisthenics on the floor of a gymnasium, at a day care center, or at the control panel of University Hospitals x-ray scanner machine. Acquaints Minnesotans with where University work occurs (only a fraction of it occurs on the Twin Cities campuses) and with the ways the University affects, touches, and serves the people of the state and the rest of the world.

22 min., color, Wilson Griak, TV. 1976. (no charge)

3536 A Simple Cup of Tea

Describes the work of a U.S. employee of the Agency for International Development (AID) in East Pakistan. Shows how better farming methods are improving nutrition, health, and education. For adolescent or adult audience.

28 min., blw, USDA, TV. 1965. (E)

3107 Unfinished Miracles

Although America's farmers are producing more than ever before, rising populations and greater worldwide demands for food pose a continuing challenge to agricultural scientists. Illustrates the work of the scientists at the nation's Agricultural Experiment Stations who are working to achieve increased agricultural productivity and improve the stability of our food supply without increasing the demand for energy or harming the environment.

28½ min., color, Calvin Co., TV. 1975. (E)

3646 White Thunder

Shows both the American and Canadian sites of Niagra Falls. For adolescent or adult audience.

13 min., color, Ford Motor Co., not TV. 1966. (D)

Slide Sets

909 Decision Making

Presents 10 steps in the decision-making process. For adolescent audience.

46 slides, color, University of Florida. 1974. (B)

967 Homemakers Workshop, Morris

Describes the homemakers workshop, an annual event open to homemakers throughout the state.

52 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 5:30), Diane M. Ziegler, Stevens County, Minnesota, extension agent. 1975. (B)

960 The Metric Song

Teaches the metric language. The metric system is easy to learn and use since the units bear a decimal relationship to one another while customary units do not.

33 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 6:00), J.C. Penney Co. n.d. (B)

861 When the Pen Meets the Paper or Let's Get to the Point

Explains the importance of thinking before you sign your name.

42 slides, color and blw, cassette tape (automatic, inaudible 1000 Hz pulses, time 4:30), University of Minnesota. 1973. (B)

Films

3699 Acceptance (Ability, Not Disability)

Discusses how a person comes to accept his disability and how it affects the family. One of a series stressing the abilities, not disabilities, of the physically limited. Designed to assist recent patients as well as those who have had limitations for years.

17½ min., color, Michael W. Harris, extension information specialist, University of Minnesota, and Harriet E. Meldahl, extension specialist in rehabilitation, Duluth, TV. 1975. (D)

3693 Bathrooms (Ability, Not Disability)

Presents grab bars, non-skid flooring, and other special equipment for adapting bathrooms for a handicapped person. One of a series stressing the abilities, not disabilities, of the physically handicapped. Designed to assist recent patients as well as those who have had limitations for years.

13 min., color, Michael W. Harris, extension information specialist, University of Minnesota, and Harriet E. Meldahl, extension specialist in rehabilitation, Duluth, TV. 1975. (D)

3691 Clothing (Ability, Not Disability)

Shows clothing adaptations for several handicaps. One of a series stressing the abilities, not disabilities, of the physically handicapped. Designed to assist recent patients as well as those who have had limitations for years.

16½ min., color, Michael W. Harris, extension information specialist, University of Minnesota, and Harriet E. Meldahl, extension specialist in rehabilitation, Duluth, TV. 1975. (D)

3698 Families (Ability, Not Disability)

Discusses how to get family members to cooperate with a handicapped person. Includes creative activities for young children with disabled mothers. One of a series stressing the abilities, not disabilities, of the physically handicapped. Designed to assist recent patients as well as those who have had limitations for years.

14½ min., color, Michael W. Harris, extension information specialist, University of Minnesota, and Harriet E. Meldahl, extension specialist in rehabilitation, Duluth, TV. 1975. (D)

3696 Low Energy (Ability, Not Disability)

Covers storage and energy-saving techniques for those with limited energy whatever their handicap. One of a series stressing the abilities, not disabilities, of the physically limited. Designed to assist recent patients as well as those who have had limitations for years.

14½ min., color, Michael W. Harris, extension information specialist, University of Minnesota, and Harriet E. Meldahl, extension specialist in rehabilitation, Duluth, TV. 1975. (D)

3687 Measure for Measure

Shows the history of weights and measures worldwide. Problems, frustrations, and humor are interspersed throughout the film. Thinking metric is stressed because of the change necessary to encourage worldwide communication.

13 min., color, Metric Advisory Board, New Zealand, TV. 1975. (D)

3690 Rheumatoid Arthritis (Ability, Not Disability)

Shows techniques for shopping, doing laundry, making beds, and brushing teeth for a handicapped person. One of a series stressing the abilities, not disabilities, of the physically limited. Designed to assist recent patients as well as those who have had limitations for years.

12 min., color, Michael W. Harris, extension information specialist, University of Minnesota, and Harriet E. Meldahl, extension specialist in rehabilitation, Duluth, TV. 1975. (D)

Films continued

3692 Rheumatoid Arthritis (Ability, Not Disability)

Discusses homemaking techniques for the handicapped. Includes storage, equipment, and cleaning problems. One of a series stressing the abilities, not disabilities, of the physically limited. Designed to assist recent patients as well as those who have had limitations for years.

14½ min., color, Michael W. Harris, extension information specialist, University of Minnesota, and Harriet E. Meldahl, extension specialist in rehabilitation, Duluth, TV. 1975. (D)

3688 Rheumatoid Arthritis — Part I (Ability, Not Disability)

Explains homemaking techniques for a handicapped person. Includes storage and equipment suggestions. One of a series stressing the abilities, not disabilities, of the physically limited. Designed to assist recent patients as well as those who have had limitations for years.

13½ min., color, Michael W. Harris, extension information specialist, University of Minnesota, and Harriet E. Meldahl, extension specialist in rehabilitation, Duluth, TV. 1975. (D)

3689 Rheumatoid Arthritis — Part II (Ability, Not Disability)

Explains homemaking techniques for a handicapped person. Includes storage and equipment suggestions. One of a series stressing the abilities, not disabilities, of the physically limited. Designed to assist recent patients as well as those who have had limitations for years.

13 min., color, Michael W. Harris, extension information specialist, University of Minnesota, and Harriet E. Meldahl, extension specialist in rehabilitation, Duluth, TV. 1975. (D)

3695 Stroke (Ability, Not Disability)

Illustrates techniques for working in a kitchen, vacuuming, and entertaining for a handicapped person. One of a series stressing the abilities, not disabilities, of the physically limited. Designed to assist recent patients as well as those who have had limitations for years.

15 min., color, Michael W. Harris, extension information specialist, University of Minnesota, and Harriet E. Meldahl, extension specialist in rehabilitation, Duluth, TV. 1975. (D)

3697 Wheelchairs (Ability, Not Disability)

Presents practical tips on rearranging the kitchen laundry area and other parts of the home. One of a series stressing the abilities, not disabilities, of the physically limited. Designed to assist recent patients as well as those who have had limitations for years.

15 min., color, Michael W. Harris, extension information specialist, University of Minnesota, and Harriet E. Meldahl, extension specialist in rehabilitation, Duluth, TV. 1975. (D)

3121 Why Metrics

Mike, a cartoon character, explores weights and measures in the metric system. The information is applied in a few practical examples. A study guide is included. For adolescent or adult audience.

14 min., color, Beloit Tool Corp., not TV. 1970. (D)

3694 With One Arm (Ability, Not Disability)

Illustrates homemaking techniques in the kitchen for a handicapped person. Includes the use of special equipment. One of a series stressing the abilities, not disabilities, of the physically limited. Designed to assist recent patients as well as those who have had limitations for years.

14½ min., color, Michael W. Harris, extension information specialist, University of Minnesota, and Harriet E. Meldahl, extension specialist in rehabilitation, Duluth, TV. 1975. (D)

Video Tapes

7049 Acceptance (Ability, Not Disability)

6049 Discusses how a person comes to accept his disability and how it affects the family. One of a series stressing the abilities, not disabilities, of the physically limited. Designed to assist recent patients as well as those who have had limitations for years.

17:21, color, ¾" cassette (#7049), ½" reel (#6049), Michael W. Harris, extension information specialist, University of Minnesota, and Harriet E. Meldahl, extension specialist in rehabilitation, Duluth, TV. 1975. (E)

7043 Bathrooms (Ability, Not Disability)

6043 Presents grab bars, non-skid flooring, and other special equipment for adapting bathrooms for a handicapped person. One of a series stressing the abilities, not disabilities, of the physically limited. Designed to assist recent patients as well as those who have had limitations for years.

14:51, color, ¾" cassette (#7043), ½" reel (#6043), Michael W. Harris, extension information specialist, University of Minnesota, and Harriet E. Meldahl, extension specialist in rehabilitation, Duluth, TV. 1975. (E)

Video tapes continued

7041 Clothing (Ability, Not Disability)

6041 Shows clothing adaptations for several handicaps. One of a series stressing the abilities, not disabilities, of the physically handicapped. Designed to assist recent patients as well as those who have had limitations for years.

16:25, color, 3/4" cassette (#7041), 1/2" reel (#6041), Michael W. Harris, extension information specialist, University of Minnesota, and Harriet E. Meldahl, extension specialist in rehabilitation, Duluth, TV, 1975. (E)

7048 Families (Ability, Not Disability)

6048 Discusses how to get family members to cooperate with a handicapped person. Includes creative activities for young children with disabled mothers. One of a series stressing the abilities, not disabilities, of the physically handicapped. Designed to assist recent patients as well as those who have had limitations for years.

17:21, color, 3/4" cassette (#7048), 1/2" reel (#6048), Michael W. Harris, extension information specialist, University of Minnesota, and Harriet E. Meldahl, extension specialist in rehabilitation, Duluth, TV, 1975. (E)

7046 Low Energy (Ability, Not Disability)

6046 Covers storage and energy-saving techniques for those with limited energy whatever their handicap. One of a series stressing the abilities, not disabilities, of the physically limited. Designed to assist recent patients as well as those who have had limitations for years.

14:33, color, 3/4" cassette (#7046), 1/2" reel (#6046), Michael W. Harris, extension information specialist, University of Minnesota, and Harriet E. Meldahl, extension specialist in rehabilitation, Duluth, TV, 1975. (E)

7040 Rheumatoid Arthritis (Ability, Not Disability)

6040 Shows techniques for shopping, doing laundry, making beds, and brushing teeth for a handicapped person. One of a series stressing the abilities, not disabilities, of the physically limited. Designed to assist recent patients as well as those who have had limitations for years.

12:08, color, 3/4" cassette (#7040), 1/2" reel (#6040), Michael W. Harris, extension information specialist, University of Minnesota, and Harriet E. Meldahl, extension specialist in rehabilitation, Duluth, TV, 1975. (E)

7042 Rheumatoid Arthritis (Ability, Not Disability)

6042 Discusses homemaking techniques for the handicapped. Includes storage, equipment, and cleaning problems. One of a series stressing the abilities, not disabilities, of the physically limited. Designed to assist recent patients as well as those who have had limitations for years.

14:29, color, 3/4" cassette (#7042), 1/2" reel (#6042), Michael W. Harris, extension information specialist, University of Minnesota, and Harriet E. Meldahl, extension specialist in rehabilitation, Duluth, TV, 1975. (E)

7038 Rheumatoid Arthritis — Part I (Ability, Not Disability)

6038 Explains homemaking techniques for a handicapped person. Includes storage and equipment suggestions. One of a series stressing the abilities, not disabilities, of the physically limited. Designed to assist recent patients as well as those who have had limitations for years.

13:36, color, 3/4" cassette (#7038), 1/2" reel (#6038), Michael W. Harris, extension information specialist, University of Minnesota, and Harriet E. Meldahl, extension specialist in rehabilitation, Duluth, TV, 1975. (E)

7039 Rheumatoid Arthritis — Part II (Ability, Not Disability)

6039 Explains homemaking techniques for a handicapped person. Includes storage and equipment suggestions. One of a series stressing the abilities, not disabilities, of the physically limited. Designed to assist recent patients as well as those who have had limitations for years.

12:47, color, 3/4" cassette (#7039), 1/2" reel (#6039), Michael W. Harris, extension information specialist, University of Minnesota, and Harriet E. Meldahl, extension specialist in rehabilitation, Duluth, TV, 1975. (E)

7045 Stroke (Ability, Not Disability)

6045 Illustrates techniques for working in a kitchen, vacuuming, and entertainment for a handicapped person. One of a series stressing the abilities, not disabilities, of the physically limited. Designed to assist recent patients as well as those who have had limitations for years.

14:45, color, 3/4" cassette (#7045), 1/2" reel (#6045), Michael W. Harris, extension information specialist, University of Minnesota, and Harriet E. Meldahl, extension specialist in rehabilitation, Duluth, TV, 1975. (E)

Video tapes continued

7047 Wheelchairs (Ability, Not Disability)

6047 Presents practical tips on rearranging the kitchen laundry area and other parts of the home. One of a series stressing the abilities, not disabilities, of the physically limited. Designed to assist recent patients as well as those who have had limitations for years.

14:47, color, ¾" cassette (#7047), ½" reel (#6047), Michael W. Harris, extension information specialist, University of Minnesota, and Harriet E. Meldahl, extension specialist in rehabilitation, Duluth, TV. 1975. (E)

7044 With One Arm (Ability, Not Disability)

6044 Illustrates homemaking techniques in the kitchen for a handicapped person. Includes the use of special equipment. One of a series stressing the abilities, not disabilities, of the physically limited. Designed to assist recent patients as well as those who have had limitations for years.

14:38, color, ¾" cassette (#7044), ½" reel (#6044), Michael W. Harris, extension information specialist, University of Minnesota, and Harriet E. Meldahl, extension specialist in rehabilitation, Duluth, TV. 1975. (E)

Slide Sets

1 American Woman: Two Hundred Years of Authentic Fashion

Traces historical trends and developments in feminine fashion through periods of extreme patriotism, economic crisis, war, prosperity, and active feminist movements. Shows how fashion evolves — what women wear and why, where styles come from, and how they become popular

163 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 20:00), Butterick Publishing. 1974. (B)

771 Dress in a Winning Way

Discusses line and color for a coordinated wardrobe, well-fitted garments, appropriate clothing, and care and buying points. Adaptable to male or female adolescent audience.

73 slides, color, Cornell University. 1970. (B)

882 Dresses of the First Ladies of the White House

Notes changes in American fashion from 1789 to the present day. Shows the inaugural gowns of the American First Ladies from Martha Washington to Pat Nixon.

41 slides, color, Smithsonian Institute. 1972. (B)

794 Figure Your Fit — Pants

Shows how to take measurements, make lengthwise alterations in the pattern, and check crosswise fit in pants. Illustrates six major fitting problems with appropriate alterations: too large or too small hipline, too wide or too tight inside leg seam, baggy look, and large derrière. Commentary is on each slide.

63 slides, color, McCall Patterns. 1971. (B)

772 Focus on Fitting Slacks

Offers comprehensive pattern alteration information covering figure analysis, measurements, and alterations for various figure problems.

31 slides, color, University of Illinois. 1970. (B)

959 Give Your Clothes a Little TLC

Includes information on selection and care of clothing such as sorting, laundering, use of detergents and soaps, use of the dryer, pressing, and storage. For young men getting ready to move away from home.

30 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 8:00), Iowa State University. 1974. (B)

944 How to Dress for Snowmobiling

Wearing incorrect clothing can make snowmobiling a miserable or even dangerous experience. Points out features to consider when selecting clothing and related equipment to keep snowmobilers warm, comfortable, and safe.

48 slides, color, University of Wisconsin. 1974. (B)

699 Measuring for Perfect Fit

Illustrates the Jan Minott method of marking a figure with tape and taking body measurements for use in selecting and adjusting commercial patterns. The slides can be used as a complete set or in units to adjust either bodices, skirts, sleeves, or pants. Bulletins to be used as handouts: Extension Bulletin 381, *Fit Sew Well: Dresses*; Extension Bulletin 382, *Fit Sew Well: Pants*; HC-68 and 69, *Personal and Pattern Measurement Chart and Personal Pattern Code*; and HC-70, *Personal Pants Pattern Adjustment Chart*. Order from your local county agent or the Bulletin Room, Coffey Hall 1420 Eckles Ave., University of Minnesota, St. Paul, MN 55108.

64 slides, color, Mary K. Sorensen, graduate student, and Wanda C. Johnson, instructor, textiles and clothing, University of Minnesota. 1975. (B)

962 Metric Awareness Through Textiles and Clothing

Describes the areas in sewing where metric measurements are currently being used and the way in which the metric system might eventually affect clothing we purchase, clothing care directions, and equipment for making and caring for clothing. For adolescent or adult audience.

59 slides, color, Whirlpool Corp. 1974. (B)

390 Pile Fabric Primer

Shows the basic characteristics of corduroy, velveteen, and velvet with an explanation of special techniques for sewing them. Stresses peculiarities of pile fabrics involving pattern layout, cutting, sewing, and pressing.

43 slides, color, Crompton-Richmond Company, Inc. 1962. (B)

930 Recycle Your Wardrobe

Suggests places to find ideas for recycling garments and gives tips for doing the sewing to avoid problems. Illustrates the updating of a women's wardrobe.

45 slides, color, Iowa State University. 1973. (B)

Slides continued

931 Recycle Your Way to a New Family Wardrobe

Instead of throwing away children's out-of-date or outgrown clothing, recycle it. Gives ideas for doing simple restyling of children's clothing to help stretch the clothing dollar.

17 slides, color, Iowa State University. 1973. (B)

958 The Saga of Sorry Sight Sam

Gives basic grooming information and clothing selection information for boys. For junior high age or younger.

18 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 14:00), Iowa State University. 1973. (B)

966 Sew Knits for Fashion

Describes the types of knits available to home sewers and illustrates the looks that knits can create in garments. Includes sewing techniques to be used with knits such as seams, hems, exposed zippers, ribbing, neckline finish, collar techniques, possible interfacings, and setting in sleeves. For adolescent or adult audience.

80 slides, color, Lois A. Goering, extension specialist, textiles and clothing, University of Minnesota. 1975. (B)

872 Trim — The Individual Touch

A creative seamstress uses trimming to reveal her individuality in dress. Shows how girls at the 1972 Minnesota State Fair Dress Revue used trimming to add attractiveness and individuality to an outfit. Top stitching, bias, bands, lace, pockets, and smocking are shown with comments on their placement and handling.

17 slides, color, Thelma Baierl, clothing specialist, University of Minnesota. 1973. (B)

917 The Way We Live — The Way We Dress

Fashion in dress reflects what is going on in society, politics, economics, technology, religion, and the arts. How we live tells how we dress. Shows examples of dress beginning with the Puritans, through the Victorian age, the 1920's and to the present. Relates the values and beliefs of people to the dress they wear and reflects the social aspects of dress.

31 slides, color, Thelma Baierl, clothing specialist, University of Minnesota. 1974. (B)

Films

3101 Creating Clothing — The Whys

A young girl watching a designer show principles which underline the manipulation of fabric realizes the importance of taking pains with grainline, cutting, stitching, and pressing. Note: Pinking shears are used for cutting out garments in the film. They do not provide for the accuracy needed in clothing construction. For adolescent or adult audience.

15½ min., color, John Wiley and Sons, Inc., TV. 1970. (D)

3551 Story of Wool

Beginning with shearing sheep and handling the wool for marketing, illustrates testing, grading, types, and conditions that make for the different quality of wool for the industry. Shows the processing of wool and its manufacture into fabric.

29½ min., b/w, kinescope, North Central Wool Marketing Co-op, Inc. and University of Minnesota, TV. 1971. (E)

3649 Why the Shoe Fits

Shows step-by-step manufacture of women's shoes. Places emphasis on how styling and fit are achieved. Illustrates workmanship that goes into a pair of shoes.

30 min., color, Brown Shoe Co., not TV. 1967. (E)

Video Tapes

7013 The Bare Facts (Fit Sew Well, #1)

Introduces this series; presents a new technique of pattern alteration for people who sew clothing. Covers body measurements needed to make alterations.

26:50, color, ¾" cassette, University of Minnesota, TV. 1973. (E)

7018 Change Your Style (Fit Sew Well, #6)

Explains how to adapt the basic structure lines to add style lines to patterns.

27:54, color, ¾" cassette, University of Minnesota, TV. 1973. (E)

7019 Don't Pant-ic Pants (Fit Sew Well, #7)

Covers the measuring, adjusting, and altering of pants to fit your figure.

27:38, color, ¾" cassette, University of Minnesota, TV. 1973. (E)

Video tapes continued

7020 A Leg to Stand On (Fit Sew Well, #8)

Shows how to adapt basic patterns for various pant styles.

27:30, color, 3/4" cassette, University of Minnesota, TV. 1973. (E)

7014 Pattern Preparation (Fit Sew Well, #2)

Shows how to get a pattern ready for accurate adjustments and better fit.

26:50, color, 3/4" cassette, University of Minnesota, TV. 1973. (E)

7016 Skirting the Topic (Fit Sew Well, #4)

Solves fitting problems for skirts.

27:30, color, 3/4" cassette, University of Minnesota, TV. 1973. (E)

7017 The Sum Total (Fit Sew Well, #5)

Adds up all the alterations you need to make a personal pattern code that will apply to all future sewing.

27:30, color, 3/4" cassette, University of Minnesota, TV. 1973. (E)

7015 The Top Story (Fit Sew Well, #3)

Shows what to do if your clothing needs "more-or-less room at the top."

27:33, color, 3/4" cassette, University of Minnesota, TV. 1973. (E)

Slide Sets

6 Cat's in the Cradle

Poignant treatment of the frequent matter of busy parents' (in this case, a father's) lack of adequate time spent with children during the growing-up years. Useful as a discussion starter for adolescent or adult audience.

68 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 4:00), Harry Chapin's song illustrated by Henri E. Drews, extension information specialist, University of Minnesota. 1975. (B)

804 Friends

To the song "Friends" by John Denver, illustrates interpersonal relations; personal growth; and social, political, and community concerns of youth.

43 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 3:00), University of Minnesota. 1972. (B)

23 Living Married (Promotional)

Promotes the use of the video tape series "Living Married." The 12-part series (1/2" reel or 3/4" cassette) aims to help persons better understand common concerns in marriage. Offers a variety of information necessary to develop a vital, satisfying, growth-producing marriage.

50 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 7:00), University of Minnesota. 1975. (B)

837 Perception

Through sight and sound, creates awareness of the different aspects of perception. Uses such things as a snowflake, a building, and a kernel of corn, for illustration. For adolescent audience.

85 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 12:00), Argus Communications. 1971. (B)

838 Roles and Goals

Focuses on different roles played by people — family member, student, and community citizen, and how goals determine roles (and vice versa).

79 slides, color, Argus Communications. 1971. (B)

929 Understanding the Aging

Gives insights into problems people have as they grow older.

80 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 6:00), Susan S. Meyers, extension specialist, family life, University of Minnesota. 1974. (B)

833 Why Work at All

Three students talk with their teacher about work. They discuss the role work plays on their fathers' lives and with the help of their teacher become aware of the factors involved in their future work. Good for discussion starter since it raises questions and presents ideas about work in a challenging way. For adolescent or adult audience.

43 slides, color, University of Minnesota. 1972. (B)

Films

3004 The Adventures of an Asterisk

Animated drawing depicts the maturing process of man, symbolized by the figure *. Unable to react freely to the world, an adult neither sees nor finds pleasure in new things, until through his own child, he is reborn and sees the world anew.

10 min., color, McGraw-Hill, not TV. 1969. (C)

3053 Better Use of Leisure Time

Shows how a boy finds several ways to use leisure time. His parents work with him, and they discover many things he can do.

11 min., blw, Coronet Films, not TV. 1951. (C)

3054 Between Father and Child

Examines the father's role in child rearing, especially the relationship between the father's behavior and characteristics and behaviors of the child such as motivation for achievement, school absenteeism, completion of school, self-esteem, delinquency, and masculinity or femininity.

29 min., blw, kinescope, Ronald L. Pitzer, extension specialist, family life, University of Minnesota. 1968. (E)

3061 Boy in the Sky

Presents the story of a boy whose toy airplane flies into a lonely old man's house. The encounter with the boy changes the man's life. This abstract presentation is useful for young and old alike, for generation gap discussions, and general communication. Multiple showings would probably be the most effective.

9 1/2 min., color, Xerox Films, not TV. 1971. (C)

3702 Cipher in the Snow

The teacher assigned to write Cliff Evans' obituary finds that quiet, sensitive Cliff had been gradually "erased" by his family, teachers, and schoolmates. A powerful film with broad implications. Should be previewed before using. Discussion opportunities should follow. For adolescent or adult audience.

24 min., color, Brigham Young University, TV. 1974. (E)

Home Economics — Family Living

Films continued

3161 Evan's Corner

One of six children, Evan longs for a place where he can be alone. After he makes one corner of a room his own, Evan learns that to be happy, one cannot live alone in a "corner," but must be willing to step out to help others.

23 min., color, BFA Educational Media, TV. 1969. (E)

3167 A Fable

Marcel Marceau masterfully mimes the story of a man who builds a wall around his bit of paradise only to discover that his paradise has become a prison. There is no spoken narration. Musical score by the London Royal Orchestra. For adolescent or adult audience.

17 min., color, Xerox Films, not TV. 1968. (D)

3174 Families get Angry

Shows the effect that a quarrel between parents can have on a usually happy child. A young boy reveals his depressed and angry feelings after such an encounter. A good look at a child's point of view. For adolescent or adult audience.

9 min., color, Oxford Films, Inc., not TV. 1972. (C)

3216 Freedom River

A brisk allegory with many submessages pointing up that if freedom is sustained, maintained, and protected too closely, it dies, we wither, and life departs. Good focus for discussion and issues relating to the first amendment. For adolescent or adult audience.

8 min., color, Stephen Bosustow Productions, not TV. 1972. (C)

3240 Growing up with Brothers and Sisters

Deals with the effects of the child's place in the family. Examines the effect of the child's birth order — first child, middle child, last child, only child — and the influence of brothers and sisters on his development.

29 min., b/w, kinescope, Ronald L. Pitzer, extension specialist, family life, University of Minnesota, TV. 1968. (E)

3244 Handling Marital Conflicts

Portrays the development of arguments between two couples, the Adams and the Kanes. The Adams' conflict, despite their shouting and anger, develops into a constructive argument. The Kanes' quiet comments to each other develop into a destructive conflict.

14 min., color, McGraw-Hill, not TV. 1967. (D)

3278 I Just Don't Dig Him

Deals with adult-teen communication. After a quarrel both father and son have an opportunity to compare their opinion with that of a peer who has a more objective view and, as a result, begin to see each other in a different light. For adolescent or adult audience.

11 min., color, International Film Bureau, Inc., not TV. 1970. (C)

3300 Is It Always Right to be Right

Highlights the centers of divisiveness in our society — the generation gap, poverty, and more. Narrated by Orson Welles. Designed to provoke discussion without alienating any group. For adolescent or adult audience.

8 min., color, Stephen Bosustow Productions, not TV. 1969. (C)

3310 Jamie, the Story of a Sibling

Shows how sibling rivalry can affect personality patterns and relationships with other family members. Emphasizes that all children in a family are involved in this rivalry and stimulates discussion about how parents can handle rivalry to avoid these damaging effects.

28 min., b/w, McGraw-Hill, not TV. 1967. (E)

3330 Leo Beuerman

The story of an extremely handicapped man who adapted to his situation and gained much freedom despite his handicap. He makes a living selling pencils and other simple items. Useful in understanding physical handicaps.

13 min., color, Centron Educational Films, not TV. 1972. (D)

3358 The Matter With Me

Presents a boy who walks around his home town seeing obvious differences between the activities and possessions of blacks and whites. Conveys strong feelings without narration.

15 min., color, Oxford Films, not TV. 1972. (D)

3360 Meecology

Portrays children from varied surroundings (rural, suburban, urban, inner city) and how each child relates to his environment in an ecologically productive way. Includes teacher's guide and music and lyrics to "Meecology" song. For six through 11-year-old children.

26 min., color, Christopher Productions (a public service of McDonald's Family Restaurants), TV. 1974. (E)

Home Economics — Family Living

Films continued

3365 Mimi

A realistic story of a young woman who has been handicapped throughout life. Useful in understanding the handicapped.

12 min., blw, Billy Budd Films, not TV. 1971. (C)

3437 Parents and the Child's World

Explores various views of what constitutes a "good" or an "adequate" parent. Encourages parents to examine their roles and duties as parents.

29 min., blw, kinescope, Ronald L. Pitzer, extension specialist, family life, University of Minnesota, TV. 1968. (E)

3700 Peege

Peege, an elderly woman living in a nursing home, is visited by her family on Christmas Day. Through the oldest grandson's eyes, we see what Peege was like when she was young. Alone with her, the grandson shares these memories and breaks through the barriers of mental and physical limitations. A beautiful and powerful film. For adolescent or adult audience.

28 min., color, Phoenix Films, Inc., TV. 1974. (G)

3448 Physical Fitness and Good Health

Deals with the importance of keeping the body physically fit and stresses the value of exercise to keep the heart and other muscles and organs functioning properly.

10 min., color, Walt Disney, not TV. 1971. (C)

3492 The Rest of Your Life

First presents some of the stereotyped images of retirement and then dispels them. Emphasizes the necessity of planning ahead — even as much as 30 years. Includes ideas that can be applied to all family members.

25 min., color, ADA-MAX Audio Visual, TV. 1966. (E)

3543 The Social Side of Health

Man by nature is a social creature. Explains his ability to adjust to the group without losing his right to individuality and his need to make a contribution to society.

10 min., color, Walt Disney, not TV. 1971. (C)

3554 Sorry, No Vacancy

Examines the relationship between population growth and food production, economic prosperity, resource consumption, environmental deterioration, and quality of life. Shows how the consequences of our present living standards are already being felt in food and energy shortages, pollution, unemployment, and increasing violence. For adolescent or adult audience.

27 min., color, Malibu Films, Inc., not TV. 1974. (E)

3549 Steps Toward Maturity and Health

As the body matures, the individual takes responsibility for caring for it. The individual must recognize that his own health is like an equilateral triangle with his social, mental, and physical health each representing one side.

20 min., color, Walt Disney, not TV. 1971. (C)

3580 To Be a Friend

Explores making and breaking friendships; weakening and strengthening friendships; and friendships with parents, peers, and lovers. Should be used with discussion of what friendship means to audience. For example, why was friendship between spouses not illustrated? For adolescent or adult audience.

14½ min., color, Billy Budd Films, not TV. 1974. (D)

3581 To Be a Man

Deals with the perceptions of young men regarding what they feel it means to be a man. Depicts their view of the changing definitions of responsibility and masculinity as a man moves through the stages of life. Combines lively animation, folk music, and good photography. For adolescent or adult audience.

13½ min., color, Billy Budd Films, not TV. 1970. (D)

3582 To Be a Parent

During teenage years, the parent-child relationship is subject to considerable strain and undergoes numerous changes. Explores this relationship as perceived by different teens. Combines animation, folk music, and good photography. For adolescent or adult audience.

15 min., color, Billy Budd Films, not TV. 1972. (D)

3583 To Be a Person

Who am I? What is important to me? This film gives perceptions and spontaneous responses from young adults seeking to know themselves. Ideas presented in this film can be a basis for a detailed discussion of the role of a person. Folk music highlights the fine photography. For adolescent or adult audience.

19 min., color, Billy Budd Films, not TV. 1972. (D)

Home Economics — Family Living

Films continued

3584 To Be a Woman

A wide range of moods and thoughts are revealed by the spontaneous and perceptive comments of young women. Modern music and animation are interspersed with live scenes. For adolescent or adult audience.

13½ min., color, Billy Budd Films, not TV. 1970. (D)

3683 To Be Alone

Well-produced treatment of a condition that affects a significant number of persons of all ages — loneliness. Distinguishes between aloneness and loneliness. Consists of observations and experiences from a variety of (mostly young) persons. Good photography and music. Quick-moving. For adolescent or adult audience.

13 min., color, Billy Budd Films, not TV. 1975. (D)

3682 To Be Growing Older

Looks at how people (mainly young) view growing old in America. Explores both the opportunities and the real problems. Photography and music create powerful feelings. Illustrates potential contribution of the old to the young. For adolescent or adult audience.

15½ min., color, Billy Budd Films, not TV. 1974. (D)

3585 To Be in Love

The comments of young persons encourage other young persons to ponder and discover what it means to be in love. It combines lively animation, folk music, and good photography. For adolescent or adult audience.

13½ min., color, Billy Budd Films, not TV. 1970. (D)

3586 To Be Married

Looks at the meanings of marriage to different couples as revealed by their comments. Covers both the negative and positive aspects of marriage. Will help young couples look realistically at marriage, yet recognize the potential of the relationship. Folk music highlights the fine photography. For adolescent or adult audience.

13½ min., color, Billy Budd Films, not TV. 1971. (D)

3248 To Be True to Yourself

Offers perspective on self-awareness, the importance of being yourself, and autonomy. A good discussion stimulator, especially for teens.

17 min., color, Billy Budd Films, TV. 1976. (D)

3605 Understanding Prejudice

Covers a series of meetings held for extension personnel in 1970 on understanding prejudice. Presents Dr. James A. Bayton, professor and chairman of the Department of Psychology at Howard University. He points out various kinds of prejudice and ways to avoid prejudice. Should be used only as a part of a meeting with a leader familiar with psychology and sociology.

98½ min., (3 reels), color, USDA, TV. 1972. (H)

3608 Understanding Stresses and Strains

A discussion of mental health with emphasis on the pressures and worries of everyday life which can damage people's health.

10 min., color, Walt Disney, not TV. 1971. (C)

3029 What do you Want to be When you Grow Old?

A realistic, positive film on growing old from the perspective of older persons and gerontologists from Duke University and the Institute of Aging. Covers living alone by choice or force, living patterns, social needs, and the meaning of work. For adolescent or adult audience.

27 min., color, Roerig Pfizer Co., not TV. 1976. (E)

3643 When Love Needs Care

Serves to reassure and motivate young persons to seek medical attention if venereal disease is suspected. Shows what happens during the checkup. Medical personnel describe symptoms, explain equipment and medical techniques used, prescribe treatment, and discuss prevention techniques.

13 min., color, See Saw Films, TV. 1972. (D)

3673 You'll Never Walk Alone

Shows many ways in which non-rural young people can learn and have fun in 4-H. Points out the importance of being alone, but also stresses the importance of having friends and being a part of a group.

20 min., color, Rutgers University, TV. 1968. (E)

3675 Your Child and his Friends

Examines the amount and the nature of peer group influence on children. Raises questions about the kind and amount of adult involvement in the lives of children, the phenomenon called "age ghettos" or age segregation.

29 min., blw, kinescope, Ronald L. Pitzer, extension specialist, family life, University of Minnesota, TV. 1968. (E)

Home Economics — Family Living

Films continued

3676 Your Child's Conscience

Deals with the family environment in which child growth appears particularly significant to conscience formation in the child — e.g., parental affection, discipline, and control of the child's behavior.

29 min., blw, kinescope, Ronald L. Pitzer, extension specialist, family life, University of Minnesota TV. 1968. (E)

Video Tapes

7025 And I Did It! (Preparing Children for the 21st Century, #5)

Covers the meaning, nature, and importance of creativity, including the dimensions of creativity — imagination, curiosity, innovativeness, flexibility, playfulness, spontaneity, and originality — and the conditions for the development of creativity.

28:28, color, ¾" cassette, University of Minnesota, TV. 1973. (E)

7011 The Art of Intimacy (Living Married, #11)

6011 Gives attention to the meaning of intimacy, emphasizing that the term means more than just sex. Stresses closeness, interdependence, openness, and the revealing of our total selves, sharing, touching, the ability to give and receive love, jealousy, and trust.

27:35, color, ¾" cassette (#7011), ½" reel (#6011), University of Minnesota, TV. 1973. (E)

7026 Aware, I Am Alive (Preparing Children for the 21st Century, #6)

Discusses the importance of awareness and perceptiveness and ways of increasing awareness, especially facilitating the development of the five senses.

27:53, color, ¾" cassette, University of Minnesota, TV. 1973. (E)

7012 The Choice is Ours (Living Married, #12)

6012 Points out that marriage entails a constant series of decisions and choices. Reviews a six-stage process of decision making including a clear definition of the issue, alternative paths available, consequences of each, factors affecting a choice, and commitment or acceptance. Considerations involved in deciding whether to have a child are used to illustrate the process.

28:17, color, cassette (#7012), ½" reel (#6012), University of Minnesota, TV. 1973. (E)

7004 Designing Our Own Style (Living Married, 6004 #4)

Considers some of the forces which have influenced a couple's expectations of marital styles — families, friends, community, and societal norms — and the way couples begin developing their own style. Couples are encouraged to develop their own design for marriage.

28:16, color, ¾" cassette (#7004), ½" reel (#6004), University of Minnesota, TV. 1973. (E)

7007 Disagreeing Agreeably (Living Married, 6007 #7)

Examines some of the reasons for and consequences of the inevitable disagreements and conflicts of a "live" marriage. Couples are invited to analyze their feelings about anger and conflict. Presents differences between destructive and constructive approaches to conflict management.

27:53, color ¾" cassette (#7007), ½" reel (#6007), University of Minnesota, TV. 1973. (E)

7021 The Future of the Future (Preparing Children for the 21st Century, #1)

Social observers and educators speculate about life in the year 2000 and discuss characteristics (skills, abilities, attitudes, beliefs, values, competencies, and orientations) that a child should have to be prepared for life in the 21st century.

28:02, color, ¾" cassette, University of Minnesota, TV. 1973. (E)

7006 Hard Spots, Little Things (Living Married, 6006 #6)

Looks at some of the commonly difficult areas of adjustment — sex, money, in-laws, friends, and social/recreational activities — and at "tremendous trifles" — those objectively viewed, little things which can attain tremendous proportions in the intimate day-in, day-out marital relationship. Attention is given to the sources of these problems, their effects, and modes of coping with them.

28:05, color, ¾" cassette (#7006), ½" reel (#6006), University of Minnesota, TV. 1973. (E)

7009 Have I Given You a Valentine Lately? 6009 (Living Married, #9)

Acknowledging that many marriages become routine, the program examines the value of romance, shared activities, individual growth, new experiences, and playfulness. Offers a variety of suggestions for keeping the love relationship alive in marriage.

28:27, color, ¾" cassette (#7009), ½" reel (#6009), University of Minnesota, TV. 1973. (E)

Video tapes continued

7031 How Far Can I Reach? (Preparing Children for the 21st Century, #11)

Covers the nature of self discovery and maturity including growing up, becoming the person one wants to become, and developing oneself to the fullest.

28:10, color, ¾" cassette, University of Minnesota, TV. 1973. (E)

7022 I'm Glad I'm Me (Preparing Children for the 21st Century, #2)

Describes the nature and importance of self-worth, and how feelings of self-worth are built and destroyed in relationships with others, especially parents.

28:26, color, ¾" cassette, University of Minnesota, TV. 1973. (E)

7027 I Am My Brother's Brother (Preparing Children for the 21st Century, #7)

Covers the nature and effects of prejudice on both the victim and the holder. Discusses the importance of tolerance and how prejudice or tolerance develops.

28:57, color, ¾" cassette, University of Minnesota, TV. 1973. (E)

7005 I Am Woman, I Am Man (Living Married, #5)

Deals with the importance of couples developing their own design for marriage, focusing on sex-linked role expectations and behavior. Couples are encouraged to develop their own "scripts" or designs regarding power, authority, and division of labor, both inside and outside the home.

27:48, color, ¾" cassette (#7005), ½" reel (#6005), University of Minnesota, TV. 1973. (E)

7030 I've Gotta Be Me (Preparing Children for the 21st Century, #10)

Covers the dimensions of autonomy — values, decision making, problem solving, competence, adequacy, confidence, self-control, self-guidance, and identity.

28:38, color, ¾" cassette, University of Minnesota, TV. 1973. (E)

7002 In a Time of Change (Living Married, #2)

6002 Reviews the direction and significance of marriage and divorce trends. Considers marriage in a social context, examining changes in the status and roles of women, social and geographical mobility, voluntary childlessness, and the "getting ahead" syndrome.

27:47, color, ¾" cassette (#7002), ½" reel (#6002), University of Minnesota, TV. 1973. (E)

7028 Let Me Do It (Preparing Children for the 21st Century, #8)

Discusses why children must learn to deal with the consequences of their acts and how they can become responsible persons.

29:00, ¾" cassette, University of Minnesota, TV. 1973. (E)

7001 The Many Meanings (Living Married, #1)

6001 Beginning with the premise that most people really do not understand marital processes or know what marriage entails and requires, explores some of the myths — both idealistic and cynical — about marriage and some of the many expectations and meanings that people have of marriage. Encourages the viewer to examine his/her own mental picture of marriage.

26:40, color, ¾" cassette (#7001), ½" reel (#6001), University of Minnesota, TV. 1973. (E)

7010 The Place of Sex (Living Married, #10)

6010 Encourages viewers to consider the meaning and importance of sex in their relationship. Points out that sex means different things to different people and that sexuality can be expressed in many ways. Considers the sources of sexual attitudes, including experiences during the growing-up years. Recognizing the difficulty some people have in talking about sex, stresses the importance of talking frankly. Suggestions are offered for maintaining joy and spontaneity in sexual expression.

28:03, color, ¾" cassette (#7010), ½" reel (#6010), University of Minnesota, TV. 1973. (E)

7023 That's How I Feel (Preparing Children for the 21st Century, #3)

Describes the importance of being in touch with one's feelings and how the capacity to feel, identify, and recognize one's feelings develops.

28:30, color, ¾" cassette, University of Minnesota, TV. 1973. (E)

Video tapes continued

7003 Two Selves Together (Living Married, #3)

6003 Stresses the importance of maintaining individual identities and continued personal growth in marriage. Deals with feelings of self-worth, individual and couple experiences and activities, privacy, rights and responsibilities of both partners, and interdependence.

28:18, color, ¾" cassette (#7003), ½" reel (#6003), University of Minnesota, TV. 1973. (E)

7024 Walk a Mile in My Shoes (Preparing Children for the 21st Century, #4)

Covers the importance of being able to correctly interpret the attitudes and intentions of others and to perceive situations from others' standpoints. Shows how understanding, sensitivity, and empathy are facilitated and inhibited.

28:05, color, ¾" cassette, University of Minnesota, TV. 1973. (E)

7029 We're All in This Together (Preparing Children for the 21st Century, #9)

Covers the meaning and nature of cooperation and democratic living and how cooperation is instilled and stimulated.

28:25, color, ¾" cassette, University of Minnesota, TV. 1973. (E)

7008 We Cannot Not Communicate (Living Married, #8)

6008 Emphasizes the importance of good communication in marriage. Considers honesty, expression of feelings, listening, and problems in verbal and non-verbal communication. Offers some suggestions for improving communication.

28:47, color, ¾" cassette (#7008), ½" reel (#6008), University of Minnesota, TV. 1973. (E)

Games

G-1 Body Talk

Illustrates the importance of effective non-verbal communication. Two to 10 persons can play using special cards. Includes rule book.

Dynamic Design Industries. 1970. (A)

G-2 Generation Gap

Simulation game involving players in conflicts between superiors and subordinates, much like parents and adolescents. Materials for three teams (six players).

Western Publishing Company, Inc. 1973. (A)



Slide Sets

53 Budgeting

Part I — Income, Outgo, Where On Earth Does My Money Go?

Sock-puppet characters meet at the local laundromat. Aggie Argyle Sock can't seem to make ends meet. Henrietta Hunting Sock suggests keeping track of expenses as one way to start budgeting. As the first step, Aggie learns the meaning of income and outgo.

Part II — The Outgo Puzzle

Aggie saves spending receipts but discovers this does not give her much insight into her spending habits. Henrietta helps Aggie organize her financial records. Establishes the importance of keeping and organizing spending records.

Part III — The Fudge-It Budget

Aggie and Alvi Argyle Sock find it is difficult to start a budget, but once going the budget is a big help. The Argyles find the success to budgeting includes a combination of setting goals, keeping records, and spending carefully.

298 slides, color, 3 cassette tapes (both audible tones and automatic, inaudible 50 Hz pulses, time 12:00 each), Pennsylvania State University. 1975. (B)

904 Buying Meat by Cost Per Serving

Explains evaluating meat costs on the basis of cost per serving and not cost per pound. Illustrates calculation of cost per serving. Shows the amount of edible lean on various cuts of meat.

22 slides, color, Isabel D. Wolf, extension specialist, foods and nutrition, University of Minnesota. 1974. (B)

819 Caritis

Explains the costs of owning and operating a car. Done in humorous cartoon style. For adolescent audience.

42 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 6:00), University of Tennessee. 1972. (B)

788 Consumer Protection

Illustrates the kinds of fraud experienced by consumers. Summarizes the federal, state, and local protection agencies. Protection agencies, Minnesota law, and heads of various state departments are current to the fall of 1971. For adolescent or adult audience.

77 slides, color, Edna K. Jordahl, extension specialist, home management, University of Minnesota. 1971. (B)

909 Decision Making

Presents 10 steps in the decision-making process. For adolescent audience.

46 slides, color, Unviersity of Illinois. 1974. (B)

698 Energy: Use it Wisely Around the Home

Recommends basic household management practices. Useful in teaching energy conservation or in explaining the consumer's responsibility in purchasing and using goods and services from scarce natural resources.

69 slides, color, cassette tape (automatic, inaudible 1000 Hz or 50 Hz pulses, time 10:00), USDA. 1975. (B)

831 Getting the Things You Want

Introduces the area of resources and goals to the beginner in management. For 9 to 11-year-olds.

30 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 6:00), USDA. 1972. (B)

54 How to Clean an Apartment

Gives reasons for keeping a place clean. Explains that it does not take too much work (if it's properly done) to do these few essential things. Commentary on slides; discussion guide included.

94 slides, color, cassette tape (both audible tones and automatic, inaudible 50 Hz pulses, time 12:00), Franklin Clay Films. 1975. (B)

732 It Takes More Than Money

Designed to make young people aware of money management especially when they leave home to be on their own for the first time. For adolescent audience.

80 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 10:00), University of Minnesota. 1970. (B)

122 Life Cycle of a Consumer Product — Milk

Using milk as an example, illustrates the life cycle of a consumer product — a never-ending cycle of production, use, and disposal as enrichment or pollution to the environment. People, either as workers or consumers, are part of the circle. Includes discussion questions about the interrelationship of the cycle stages and the consumer responsibilities in each stage.

34 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 4:00), Mary Frances Lamison, extension specialist, home management, University of Minnesota. 1977. (B)

Slides continued

700 Revelations of a Register Tape or the Baffling Case of the Family Grocery Bill

Attempts to unravel the mystery of the increasing size of the grocery bill. Consumers are made aware of what influences the grocery bill—the size and age of the family, built-in convenience, changing consumer tastes, and economic factors.

71 slides, color, USDA. 1969. (B)

750 Selection and Use of Household Care Products

Helps select the most suitable cleaning product to use on various surfaces.

30 slides, color, University of Illinois. 1970. (B)

24 Sharpen Your Shopping Tools

Derived from advertisements to help the customer shop wisely in the marketplace. Simple helps, colorful examples, and conscientious decision making are included. Useful for preceding a consumer education activity.

40 slides, color, Edna K. Jordahl, extension specialist, home management, University of Minnesota. 1975. (B)

55 Simple Household Repairs

This six-part set shows how to make simple household repairs. Each can be accomplished with tools common in most households and without requiring any particular skill. The set includes:

		<i>Tape Time</i>
Part I	Electric Plug Fix a Door	16:00
Part II	Leaky Faucet Windowpane	15:00
Part III	Holes In Walls Paint Walls	17:00

284 slides, color, 3 cassette tapes (both audible tones and automatic, inaudible 50 Hz pulses, total time 48:00), Franklin Clay Films. 1975. (B)

787 A Slide Tour Through a Supermarket

Points out things to watch for to be a good shopper. Emphasizes economic, psychologic, and social aspects of decision making and trimming food costs.

53 slides, color, Edna K. Jordahl, extension specialist, home management, University of Minnesota. 1971. (B)

82 Solving the Energy Problem — A Family Affair

Identifies ways in which members of a family can work together to reduce energy consumption. Prepared by extension home economics specialists at the University of Florida. For adolescent or adult audience.

80 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 16:00), University of Florida. n.d. (B)

896 What's Happening to Food Prices

Gives insight into the situations that have led to the current high food prices. Explains the story of the farmer's part in the food production chain.

153 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 21:30), USDA. 1973. (B)

861 When the Pen Meets the Paper or Let's Get to the Point

Explains the importance of thinking before you sign your name.

42 slides, color and blw, cassette tape (automatic, inaudible 1000 Hz pulses, time 4:30), University of Minnesota. 1973. (B)

Films

3215 Fred Meets a Bank

Shows how to use a checking account and how to open a savings account. Describes loans and other bank services. Explains modern banking procedures and shows some of the important community services which banks provide. For children 10 to 15 years old.

13 min., color, Coronet Films, not TV. 1960's. (D)

3431 The Owl Who Gave a Hoot

Uses cartoon animals and birds to illustrate the problems of low-income consumers. Provides basic information about buying intelligently, buying within income, and avoiding the snare of unscrupulous practices.

12½ min., color, Office of Economic Opportunity, TV. 1967. (D)

Slide Sets

610 All About Knives

Explains knife construction, care of cutlery, how to prepare fruits and vegetables, and how to carve meat, fish, and poultry.

65 slides, color, Ecko Housewares Co. 1967. (B)

726 Major Appliances of Today

Includes the range, refrigerator, dishwasher, garbage disposal, washer and dryer. Contains explanation of the pyrolytic and the catalytic oven cleaning processes. Drawings show cut-away views of a range-top surface unit and a garbage disposal.

70 slides, color, University of Minnesota. 1970. (B)

735 Portable Appliances of Today

Covers portable appliances used for preparing and serving food. Shows some personal care appliances (electric toothbrushes and water pics). Includes buying tips.

45 slides, color, South Dakota State University. 1970. (B)

750 Selection and Use of Household Care Products

Helpful in selecting the most suitable cleaning product to use on various surfaces.

30 slides, color, University of Illinois. 1970. (B)

961 Using Microwave Ovens

Describes and illustrates the basic principles of microwave heating of food. Includes selection of utensils and general use and care of microwave ovens. Extension bulletins that may be used as handouts: Extension Folders 293 — *Using Microwave Ovens (2450 MHz)*; Home Economics-Family Living Fact Sheet 29 — *Selecting Microwave Ovens (2450 MHz)*; and Home Economics-Family Living Fact Sheet 35 — *Heating with Microwaves (2450 MHz): Consumers Ovens*. Order from your local county agent or the Bulletin Room, Coffey Hall, 1420 Eckles Ave., University of Minnesota, St. Paul, MN 55108.

59 slides, color, Wanda W. Olson, extension specialist, household equipment, University of Minnesota. 1975. (B)

Study Prints

SP-10 What Is It . . . How Was It Used?

Shows old-time household devices. Appropriate for use as an "ice breaker" to meetings. Two sheets of paper accompany the pictures for purposes of identification: one with numbered blank lines and one with the answers.

24 prints, blw, Evelyn Quesenberry, professor and program director, home economics, University of Minnesota. 1975. (A)

Slide Sets

81 Energy Saving Homes for Profit and Comfort

Contains information useful to anyone interested in building or improving homes to reduce energy costs.

80 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 25:45), U.S. League of Savings Assn. 1976. (B)

Films

3195 Blueprint for Home Buying

Takes the consumer through the basics on selecting, financing, and closing with regard to purchasing a home. It is primarily an animated film.

14 min., color, Minnesota Title Financial Corp., TV. n.d. (D)

3418 Operation Attic

Shows the use of wood in a "do it yourself" project of finishing off an attic. Presents some unique ideas. For adult audience.

20 min., color, Western Wood Products Assoc., not TV. 1966. (E)

3533 Siding Sense

Describes types of wood siding and specific characteristics of each. Outlines the history of siding and emphasizes qualities of wood siding as compared to other building materials. Excellent photography throughout.

14 min., color, Western Wood Products Assoc., not TV. 1960. (D)

Study Prints

SP-9 Homes: Yesterday and Today

Shows various types of homes and shelters for families. Homes can vary as to size, building materials, mobility, convenience, and family values. Supplemental activities listed in study guide.

24 pictures, blw, Associated Press. 1974. (A)

Slide Sets

734 Design is Everywhere

Introduces beginners to the elements of design. Gives useful foundation for understanding art and the objects around us.

69 slides, color, USDA. 1969. (B)

900 Design Patterns

Both beginning designers and their instructors face the problem of arriving at a suitable design for the creation of their work. Looks at geometric forms from other cultures (Morocco and Nigeria) for inspiration.

95 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 17:35), Joseph Ordos, associate professor, College of Home Economics, University of Minnesota. 1975. (B)

953 Designs in Nature

Shows designs in nature and manmade surroundings. Helps to develop awareness to the effects of line, color, texture, and emphasis in our surroundings.

37 slides, color, University of Minnesota. 1974. (B)

773 Furniture Restoration — Natural Finishes

Shows the "before" and "after" pictures of various pieces of furniture finished with penetrating wood sealer.

50 slides, color, Cornell University. 1963. (B)

720 Let's Set a Pretty Table

Shows simple ways of making tables attractive using a variety of centerpieces, place mats, tablecloths, and place settings.

30 slides, color, North Dakota State University. 1969. (B)

751 Low Cost Furnishings and Ideas for a First Apartment

Shows attractive, mobile, low-cost furnishings.

32 slides, color, Wanda W. Olson, extension specialist, household equipment, University of Minnesota. 1970. (B)

778 Painted Finishes: Furniture and Accessories

Illustrates the refinishing of furniture and accessories with painted finishes. Gives ideas on how to make use of old furniture.

42 slides, color, Cornell University. 1965. (B)

774 Refinishing Furniture

Includes preparing the pieces for refinishing, equipment needed, various kinds of finishes, and techniques for applying the finish.

31 slides, color, North Dakota State University. 1971. (B)

Films

3041 Bedroom Wall Storage

Shows a variety of shelves and storage units which might be used in bedrooms, dens, living and dining rooms. Features adequate lighting for desk and beds.

10 min., color, Charles and Ray Eames, not TV. 1963. (C)

3076 Changing Art in a Changing World

Shows that the world is in a constant state of change. The artist, responsive to change, continually looks for fresh solutions to visual problems. Shows how art reflects changes in attitudes toward contemporary life.

21 min., color, BFA Educational Media, TV. 1971. (E)

3087 Color — The Magic Touch

Explains and illustrates the basic principles of color by showing colors found around us in our homes and in nature. Shows the effects of sunlight, fluorescent, and incandescent lighting on colors, as well as how to create a warm or a cool atmosphere by using various light bulbs. Explains the color wheel and various color harmonies. Gives help for building room color plans.

14 min., color, Paint and Varnish Assn., not TV. 1970. (D)

3115 Discovering Color

Shows how colors differ in hue, value, and intensity. Demonstrates the techniques of color mixing and points out the variety of color in the world around us. Stresses the fact that the more we know about color, the more we can see, create, and appreciate.

16 min., color, Film Assoc., not TV. 1966. (D)

3116 Discovering Creative Pattern

Explains that pattern is visual organization composed of five elements: line, darks and lights, colors, textures, and shapes. Pattern enriches surfaces. Points out how man has incorporated natural pattern into all of his handiwork. For adolescent or adult audience.

17 min., color, Film Assoc., TV. 1965. (D)

Home Economics — Interior Design/Furnishings

Films continued

3117 Discovering Ideas For Art

Develops an awareness of surroundings that can lead to ideas for art. For adolescent or adult audience.

15½ min., color, Film Assoc., TV. 1965. (D)

3118 Discovering Line

Illustrates the way line is used to show movement. Increases awareness of the visual beauty and function of line in clothing. For adolescent or adult audience.

17 min., color, Film Assoc., not TV. 1966. (D)

3119 Discovering Perspective

Shows how we can create the appearance of distance on a flat surface by using perspective. Overlapping, vertical position, graying colors, varying detail, varying size, and converging lines are techniques used.

14 min., color, Film Assoc., not TV. 1967. (D)

3120 Discovering Texture

Shows how every surface has texture and how man can use paints, tools, and materials to change texture.

17 min., color, Film Assoc., not TV. 1967. (D)

3241 Hailstones and Halibut Bones

Poetry narration illustrates how color can be used to convey certain feelings and environments.

13 min., color, Sterling Educational Films, Inc., TV. 1964. (D)

3268 House

Conveys message through color and music. There is no narration. Shows fast-moving scenes from Charles Eames' home. The photography highlights all natural and manmade materials in the home that illustrate beauty in line, shape, design, color, and texture. Intended for groups that have some background in the less tangible elements of design. Useful in classes in photography, art appreciation, or color and accessories in the home.

11 min., color, Charles and Ray Eames, not TV. 1963. (C)

3273 How to Hang Wallpaper

Shows how to hang wallpaper with professional results. Includes how to determine the amount of wallpaper needed, preparation of surface areas, how to paper difficult areas, and how to handle various types of wall coverings.

17 min., color, Allied International Films, Ltd., TV. n.d. (D)

3275 How to Paint Interior Walls

A how-to-do-it-yourself film. Includes selection and care of tools, proper choice of paint type, preparation of surface areas, painting techniques for difficult areas, and cleanup procedures.

20 min., color, Allied International Films, Ltd., TV. n.d. (E)

Slide Sets

879 All About Planting Trees

Covers the purposes for planting trees, the preparation of the site, and the techniques of tree planting. Illustrates selection and care of nursery planting stock, sources of trees for planting, hand planting, and maintenance of the planted trees.

58 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 12:00), University of Minnesota. 1973. (B)

753 Care of Flowering Plants in the Home

Illustrates some of the flowering plants sold throughout the year for home use. Describes the culture and use of each kind.

28 slides, color, Cornell University. 1970. (B)

70 Cool Turfgrasses

A cartoon crew gives instruction in this introductory level presentation on northern turf quality grasses. Emphasizes identification of plants and seeds. Suitable for audiences interested in turf management.

46 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 14:00), Henri E. Drews, extension information specialist, University of Minnesota. 1976. (B)

752 Culture of African Violets

Illustrates types of pots, watering, propagation, potting, lighting, control of salts, temperature regulation, and diseases of African violets. Shows several species as well as other plants belonging to the same family.

50 slides, color, Cornell University. 1970. (B)

883 Effects of Air Pollution on Fruits and Vegetables

Shows the effects of oxidants and other air pollutants on potatoes, radishes, beans, tomatoes, apples, and other plants. Identifies the damage done to plants.

35 slides, color, USDA. 1973. (B)

885 Effects of Air Pollution on Ornamental Plants and Trees

Shows effects of oxidants and other air pollutants on white pine, petunia, maple, birch, and other plants. Identifies pollutant damages.

34 slides, color, USDA. 1973. (B)

898 Elements of Floral Design

A follow-up to slide set 897, History and Principles of Floral Design. Covers the subjects of line, form, color, texture, harmony, and depth.

60 slides, color, Harold F. Wilkins, extension horticulturist, University of Minnesota. 1973. (B)

911 English and North American Rock Gardens

Describes a rock garden and the kinds of flowers to grow in one. Shows both North American and English rock gardens. Pictures cultural practices and recommended materials.

80 slides, color, American Rock Garden Society. 1974. (B)

939 Garbage Can Gardening

Shows how certain vegetables and fruit parts, usually disposed of, may be used to create attractive house plants.

31 slides, color, University of Minnesota. 1974. (B)

73 Garden Flowers

Describes common garden flowers of Minnesota. Includes a few wild flowers which could be raised in the garden.

36 slides, color, Leon C. Snyder, former director, Landscape Arboretum, University of Minnesota. 1957. (B)

897 History and Principles of Floral Design

Gives history and development of principles of design in flower arrangement. Shows how flower design has been important through the ages and how the principles of design we now use are the result of considering unity, scale, accent, balance, harmony, and movement.

52 slides, color, Harold F. Wilkins, extension horticulturist, University of Minnesota. 1973. (B)

228 The Home Vegetable Garden

Discusses cultural practices necessary for a successful vegetable garden. Includes planning, soil preparation, planting, summer care, and pest control as well as storage conditions after harvest.

50 slides, color, Orrin C. Turnquist, extension horticulturist, University of Minnesota. 1957. (B)

45 How to Keep Cut Flowers Beautiful

The proper care for cut flowers is a science. Explains how the techniques of hardening, trimming, using a preservative, and storing properly can add extra days to the enjoyment of cut flowers.

27 slides, color, Harold F. Wilkins, extension horticulturist, University of Minnesota. 1975. (B)

Slides continued

869 How to Start a Garden

Illustrates the first steps to planning and planting a garden using nasturtiums as an example. For adolescent audience.

25 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 6:00), University of Minnesota. 1973. (B)

663 Identification of Common Lawn Weeds

Shows identification characteristics of common lawn weeds.

37 slides, color, Pennsylvania State University. 1968. (B)

932 Improving Horticulture Exhibits at County Fairs

Illustrates methods of improving horticulture exhibits at county fairs.

31 slides, color, Mervin C. Eisel and Orrin C. Turnquist, extension horticulturists, University of Minnesota. 1974. (B)

51 Indoor Horticulture

Discusses plant growth, differences between species, and propagation and identification of some of the more common plants.

61 slides, color, Jane P. McKinnon, extension horticulturist, University of Minnesota. 1976. (B)

72 Kinds of House Plants

Covers flower plants, bulbs, gift plants, succulents, ferns, and vines.

40 slides, color, Leon C. Snyder, former director, Landscape Arboretum, University of Minnesota. 1957. (B)

764 Lilies for Minnesota

Illustrates the culture of lilies, true lilies, flower types, and the use of lilies in formal arrangements and in landscape plantings. Shows named lilies and species adapted to Minnesota conditions.

50 slides, color, Mervin C. Eisel, extension horticulturist, University of Minnesota. 1971. (B)

955 Planting Roses for the Home Gardener

Shows how careful selection and proper planting techniques can insure a successful rose garden. Horticulture Fact Sheet 17, *Culture of Garden Roses*, is recommended to supplement this slide set. Order from your local county agent or the Bulletin Room, Coffey Hall, 1420 Eckles Ave., University of Minnesota, St. Paul, MN 55108. For adult audience.

26 slides, color, Robert Mugaas, horticulture student, University of Minnesota. 1975. (B)

56 Pruning Trees and Shrubs

Explains the reasons for pruning, the equipment needed, the proper timing, and the correct pruning techniques.

79 slides, color, Mervin C. Eisel, extension horticulturist, University of Minnesota. 1976. (B)

813 Selecting House Plants

Points out things to look for when selecting plants for the home. Describes many kinds of house plants and environmental and cultural methods needed for growing each. Covers lighting, watering, fertilizing, soil type needed, and use of plants in the home.

53 slides, color, Jane P. McKinnon, extension horticulturist, University of Minnesota. 1972. (B)

601 Shrubs for use in Landscape Plantings

Familiarizes the audience with some of the common but dependable shrubs. Also introduces newer, less common shrubs that are desirable ornamentals. Explains use of shrubs in the landscape and contains cultural information.

40 slides, color, Mervin C. Eisel, extension horticulturist, University of Minnesota. 1967. (B)

949 Spring Flora on Northern Minnesota's Bogs

Describes the formation of the bog region of northern Minnesota and the unusual plant community found there. Close-up photographs reveal the delicate beauty of many species of early spring plants. Describes their location and gives both their common and scientific names.

54 slides, color, Douglas Hedman, agricultural journalism photography student, and Jane P. McKinnon, extension horticulturist, University of Minnesota. 1974. (B)

776 Summer Leaves

A beautiful introduction to nature study for urban dwellers. Many of the plants can be easily found during nature walks within the city.

37 slides, color, Jane P. McKinnon, extension horticulturist, University of Minnesota. 1971. (B)

600 Trees for use in Landscape Plantings

Shows trees recommended for Minnesota landscape plantings. Points out characteristics of these trees. Includes cultural information.

30 slides, color, Mervin C. Eisel, University of Minnesota. 1967. (B)

Slides continued

793 A Visit to the University of Minnesota Landscape Arboretum

A tour of the University's Arboretum acquaints people with the beauty of plants at the Arboretum at different seasons. A wide array of flowers, shrubs, trees, and educational and research activities are illustrated.

80 slides, color, Mervin C. Eisel, extension horticulturist, University of Minnesota. 1971. (B)

192 Weeds of Interest to the City Farmer

Tells about common weeds found on lawns, orchards, and gardens.

27 slides, color, University of Minnesota. 1956. (B)

801 Wild Flowers for Minnesota

Wild flowers in Minnesota bloom from very early spring to fall. Gives a description of the flowers, where they are found, type of soils preferred, environment to which plants are best suited, and how many of these flowers may be used in the home planting.

60 slides, color, Leon C. Snyder, former director, Landscape Arboretum, University of Minnesota. 1972. (B)

125 Woody Shrubs for Landscape and Protection Planting

Shows types of landscape plantings and shelterbelts for use on farms and city lots.

41 slides, color, Marvin E. Smith, extension forester, and Leon C. Snyder, former director, Landscape Arboretum, University of Minnesota. 1955. (B)

Films

3037 Basic Techniques for Home Landscaping

Defines public, utility, and private areas and shows how to plant for plant materials in each area. Some of the plant materials suggested are not suitable for Minnesota, but the basic principles are all applicable.

10 min., color, American Association of Nurserymen and Sun Dial Films, Inc., TV. 1958. (C)

3040 Beautiful Lawns

A complete story on lawn maintenance. Covers recommended procedures for preparation, seeding, and keeping a good home lawn. With some qualifying statements on fertilizer and lime, the film is applicable to Minnesota.

25 min., color, National Plant Food Institute, not TV. 1960's. (E)

3064 Bridge Grafting

Shows how to repair a damaged tree trunk with two types of bridge grafts. Covers tools and equipment needed for cutting and fitting scion and for waxing.

6 min., blw, University of Minnesota, TV. 1955. (C)

3193 Flowers at Their Best

Shows how to use flowers in the home and how to arrange and preserve them.

12 min., color, University of Wisconsin, TV. 1960. (D)

3194 Foliage Plants for Interiors

Discusses the use of green plants indoors in homes and in larger settings. Identifies several popular plants and their care. Covers the design qualities of foliage and the size, shape, and texture of plants. Watering, training, and propagation are included, but not detailed.

16 min., color, Rutgers University, TV. 1972. (D)

3204 For Your Potato Pleasure

Shows overall aspects of potato production in the Red River Valley. Describes major operations of potato raising with emphasis on harvesting techniques.

12 min., color, North Dakota Agricultural College, TV. 1956. (D)

3218 Fruits for the North

Explains how new fruit varieties are created through methods of fruit breeding. Shows accomplishments of the University of Minnesota's Fruit Farm at Excelsior and describes many fruit varieties.

23 min., color, University of Minnesota, TV. 1956. (E)

3272 How to Grow Dahlias

Shows the general culture of dahlias as well as the hybridization of new plants and breeding of better stock. For adolescent or adult audience.

21 min., color, International Film Bureau, TV. 1958. (E)

3286 Indoor Plants

Presents a good introduction to a house plant program. Explains environmental factors of light, temperature, and humidity. Presents fundamentals of house plant culture such as watering, plant hygiene, pest control, and repotting. Artificial lights, aquatic plants, cacti, and succulents are also considered. Prepared at the Chicago Botanic Gardens.

16 min., color, Perennial Education, Inc., TV. 1972. (D)

Films continued

3340 A Living Carpet

Covers the critical phases of turfgrass management — the proper methods of watering, mowing, and fertilizing, and the control of compaction and thatch.

20 min., color, Ryan Equipment Co., TV. 1970. (E)

3366 Minigardens

Discusses gardening in small spaces, mostly in pots, boxes, and other containers used out-of-doors. Covers flower and vegetable growing and management of soil, light, water, and fertility for plants in limited areas.

15 min., color, Walter J. Klein Co., Ltd., not TV. 1972. (D)

3367 Miracle of Grass

Shows how grass can be used to landscape the home, its effect on parks and playgrounds, and its uses in golf courses. Shows how good turf is established. Explains the importance of good and adapted seed and how quality turf seed is developed and purity established.

21½ min., color, Union Pacific Railroad, not TV. 1965. (E)

3391 The National Arboretum

Shows the National Arboretum in Washington. The four seasons are compressed into this short tour where you watch scientists at work and look at the vivid colors of thousands of azaleas, rhododendrons, and other blooms.

13½ min., color, USDA, not TV. 1968. (D)

3397 New Guidelines for the Well-Landscaped Home

Covers the basic steps in landscaping — first planning and designing and then preparing and constructing an area.

14 min., color, USDA, TV. 1966. (D)

3454 Planting and Transplanting

Demonstrates the essential techniques of planting and transplanting in all seasons. Shows flowers, shrubs, trees, seeds, and bulbs being planted and transplanted. Includes root and top-pruning, potting, watering, mulching, and soil preparation. Time of planting in Minnesota may vary slightly from that recommended in the film.

21 min., color, Columbia University Press, TV. 1969. (E)

3457 Plants That Grow from Leaves, Stems, and Roots

Shows how green plants can reproduce by methods other than from seeds. Illustrates "vegetative reproduction" with begonia, geranium, tulip, onion, and potato plants, and with apple trees and rose bushes. Explains how inherited characteristics and growth rates are affected by the various reproductive processes.

11 min., blw, Coronet Films, not TV. 1961. (C)

3460 The Potato

Shows different potato varieties used for baking, frying, chipping, and mashing.

24 min., blw, kinescope, University of Minnesota, TV. 1972. (E)

3471 Pruning Practices at the Brooklyn Botanic Gardens

Explains essentials of pruning time, tools, and techniques. Covers care of evergreens and deciduous trees, roses, rhododendrons, forsythia, lilac, hedges, and other woody plants. A special segment is devoted to the Japanese art of shape and form.

22 min., color, Columbia University Press, TV. 1966. (E)

3472 Pruning Trees

Describes methods and tools for pruning an apple tree, gooseberry bush, shade tree, alpine currant hedge, Mugho pine, and spruce tree.

6 min., blw, University of Minnesota, TV. 1954. (C)

3510 Safe Use of Garden Pesticides

Alerts home gardeners to the dangers of irresponsible use of pesticides. Discusses the need for pesticide treatment, where to get advice, what to do about pest problems, and gives suggestions for the safe use of pesticides. For adolescent or adult audience.

15 min., color, University of Minnesota, TV. 1967. (D)

3596 Transplanting Tomatoes

Shows how to make and use a fertilizer solution, how to dig a hole for planting tomatoes considering depth and spacing, and how to set tall plants in a trench.

5 min., blw, University of Minnesota, TV. 1954. (C)

Films continued

**3650 Wild Flowers of the Upper Midwest —
The Prairie**

Describes a plant community that has become scarce in the Upper Midwest largely due to the impact of farming. Explains the relationship of fires to prairie wild flowers and the role of prairie plants in building the rich soils of the Midwest.

18 min., color, USDA, TV. 1967. (D)

**3651 Wild Flowers of the Upper Midwest —
The Wetlands**

Shows five different kinds of plant communities that grow in or around water: floating aquatic, emergent aquatic, sedge meadow, fen, and river bottom. These wild flower communities are explained diagrammatically and by flowers and wildlife common to each.

15 min., color, USDA, TV. 1967. (D)

**3652 Wild Flowers of the Upper Midwest —
The Woodland**

Explains how most woodland wild flowers appear and bloom in early spring. Many of these plants appear above ground only briefly — long enough to flower and produce underground food reserves.

14 min., color, USDA, TV. 1967. (D)

PLANT PATHOLOGY

Slide Sets

465 Alternaria Blight

Describes stages of alternaria blight disease which affects many plants in Minnesota.

7 slides, color, Cornell University. 1958. (B)

463 Apple Scab

Describes stages of apple scab disease which affects many plants in Minnesota.

6 slides, color, Cornell University. 1958. (B)

458 Aster Yellows

Describes stages of the aster yellows disease which affects many plants in Minnesota.

7 slides, color, Cornell University. 1958. (B)

462 Bacterial Blight

Describes stages of the bacterial blight disease which affects many plants in Minnesota.

8 slides, color, Cornell University. 1958. (B)

18 Calibrating Pesticide Equipment (Pesticide Applicator Training, Show #7)

Demonstrates methods of determining rates of application and effects of nozzles, pressure, and speed.

47 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 6:00), Colorado State University. 1975. (B)

264 Cereal and Forage Diseases

Shows common diseases of oats, wheat, barley, alfalfa, clover, and grass forages. Includes control measures.

48 slides, color, Cornell University and Herbert G. Johnson, extension plant pathologist, University of Minnesota. 1959. (B)

472 Clubroot

Describes stages of the clubroot disease which affects many plants in Minnesota.

7 slides, color, Cornell University. 1958. (B)

800 Corn Diseases

Points out cause and identification, economic importance, and control measures of southern corn leaf blight and several other corn diseases in Minnesota. For county agents and vocational agriculture teachers.

35 slides, color, Herbert G. Johnson, extension plant pathologist, University of Minnesota. 1971. (B)

461 Ergot

Describes stages of the ergot disease which affects many plants in Minnesota.

9 slides, color, Cornell University. 1958. (B)

20 Fifra as Amended

Covers the Federal Insecticide, Fungicide and Rodenticide Act of 1972. Includes a review of state laws and regulations in Minnesota. Appropriate for pesticide applicator training.

31 slides, color, U.S. Environmental Protection Agency. 1975. (B)

456 Fire Blight

Describes stages of the fire blight disease which affects many plants in Minnesota.

7 slides, color, Cornell University. 1958. (B)

464 Fusarium Wilt

Describes stages of the fusarium wilt disease which affects many plants in Minnesota.

7 slides, color, Cornell University. 1958. (B)

12 How to Identify Common Pests (Pesticide Applicator Training, Show #1)

General introduction to insects, weeds, plant diseases, and vertebrate pests. Should be supplemented with additional and more complete information about local pest problems.

59 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 7:00), Colorado State University. 1975. (B)

460 Late Blight

Describes stages of the late blight disease which affects many plants in Minnesota.

8 slides, color, Cornell University. 1958. (B)

260 Miscellaneous Vegetable Diseases

Shows diseases of beans, crucifers, cucurbits, peppers, sweet corn, carrots, and peas. Suggests control measures.

54 slides, color, Cornell University and Herbert G. Johnson, extension plant pathologist, University of Minnesota. 1959. (B)

259 Muck Crop Diseases

Shows common diseases of onions, lettuce, and celery. Suggests control measures.

26 slides, color, Cornell University and Herbert G. Johnson, extension plant pathologist, University of Minnesota. 1960. (B)

Slides continued

13 Pest Control and Pesticides (Pesticide Applicator Training, Show #2)

Introduces the principles and methods of using pesticides as a part of pest control programs.

73 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 7:30), Colorado State University. 1975. (B)

17 Pesticide Application Equipment (Pesticide Applicator Training, Show #6)

Introduces sprayers, dusters and other types of applicators and describes nozzles, pumps, and tanks.

62 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 7:30), Colorado State University. 1975. (B)

19 Pesticide Laws and Regulations (Pesticide Applicator Training, Show #8)

Broad review of federal laws governing pesticide registration, sales and use, and review of the federal agencies responsible.

26 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 4:00), Colorado State University. 1975. (B)

46 Plant Diseases

Gives a general view of what plant diseases are. Describes the organisms which cause them, some typical symptoms, and the concepts of disease control. Useful to county agents, growers, and students in learning to recognize plant diseases and their causes.

25 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 9:00), John R. Mizicko, assistant specialist, pesticide training, University of Minnesota. 1976. (B)

221 Potato Diseases

Shows common diseases of potatoes and includes a short description of the pathogen in each case. Includes detailed coverage of late and early blight. Shows some virus diseases and their control.

50 slides, color, Herbert G. Johnson, extension plant pathologist, University of Minnesota. 1956. (B)

16 Protecting the Environment from Pesticides (Pesticide Applicator Training, Show #5)

Shows how misuse of pesticides may adversely affect soil, water, air, and non-target organisms. Explains movement of pesticides in the environment and methods of avoiding harmful effects.

65 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 9:30), Colorado State University. 1975. (B)

466 Root Lesion Nematode

Describes stages of root lesion nematode disease which affects many plants in Minnesota.

8 slides, color, Cornell University. 1958. (B)

457 Septoria Disease

Describes stages of the septoria disease which affects many plants in Minnesota.

9 slides, color, Cornell University. 1958. (B)

262 Small Fruit Diseases

Shows diseases of small fruits and berries such as strawberries, raspberries, grapes, and bramble crops. Suggests control measures.

52 slides, color, Cornell University and Herbert G. Johnson, extension plant pathologist, University of Minnesota. 1959. (B)

84 Soybean Problems

Illustrates the insects, diseases, and other problems that interfere with the normal growth and development of the soybean plant. Includes three sections: (1) Illustrates the problems that affect the plant between the time the seed is planted and the soybeans emerge, (2) Illustrates the problems occurring between the time it emerges and it reaches the flowering stage, and (3) Covers from the beginning of pod set until the crop is physiologically mature. Since some of the production problems are not experienced by Minnesota growers, the slide set should be reviewed before using.

152 slides, color, University of Illinois. 1976. (B)

582 Spring Wheat Grade Factors

Shows factors which lower grade and reduce grain value. Each slide shows four kernels — one sound kernel and three with a particular type of damage. Shows damage in durum and hard red spring wheat.

18 slides, color, University of Minnesota. 1966. (B)

99 Stem Rust of Wheat

Tells the story of stem rust of wheat, including its life cycle and the part that barberry plays. Suggests control measures.

28 slides, color, USDA. 1956. (B)

261 Tomato and Potato Diseases

Shows tomato and potato diseases common to Minnesota. Suggests control measures.

40 slides, color, Cornell University and Herbert G. Johnson, extension plant pathologist, University of Minnesota. 1959. (B)

Slides continued

469 Tree Diseases

Describes tree diseases. Includes control measures.

37 slides, color, Cornell University. 1958. (B)

263 Tree Fruit Diseases

Shows diseases of tree fruits including apple, plum, cherry, and pear. Suggests control measures.

51 slides, color, Cornell University and Herbert G. Johnson, extension plant pathologist, University of Minnesota. 1959. (B)

468 Turf Diseases (Bent Grass)

Shows symptoms and close-ups of common diseases of bent grass.

32 slides, color, Cornell University. 1958. (B)

467 Turf Diseases (Bluegrass)

Shows symptoms and close-ups of common diseases of bluegrass.

27 slides, color, Cornell University. 1958. (B)

470 Turf Diseases — Seed Production

Describes diseases affecting seed production plus types of injuries not caused by pathogenic fungi. Includes control measures.

23 slides, color, Cornell University. 1958. (B)

14 Understanding Pesticide Labels (Pesticide Applicator Training, Show #3)

Tells how to read and use the information on labels, what must appear on the label, and where to find it.

36 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 5:00), Colorado State University. 1975. (B)

15 Using Pesticides Safely to Protect Yourself (Pesticide Applicator Training, Show #4)

Tells how to prevent accidental exposure to pesticides including the use of protective clothing and devices and what to do in case of accidents.

62 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 8:00), Colorado State University. 1975. (B)

Films

3039 Be a Pro With Pesticides

Useful as part of a training program for pesticide applicators, both commercial and individual farmers. Includes information on the selection of pesticides, the label, application, equipment, safety, and records.

22 min., color, Cornell University, TV. 1974. (E)

3379 The Compressed Air Sprayer: Care and Maintenance

Suggests a timetable for cleaning and repairing pesticide application equipment. Demonstrates under laboratory conditions the proper procedures for checking pesticide residues in equipment, disposal of waste materials, and flushing and inspecting hose and valve assembly including replacement of leather, neoprene, metal, and rubber components.

13 min., color, Sandy McLeod of Canada, Ltd., TV. 1976. (D)

3393 The Compressed Air Sprayer: Operation and Use

Demonstrates general, spot, and crack and crevice applications under laboratory conditions. Varieties altering the efficiency of the application include air pressure on the applicator tank, nozzle selection, distance from the target surface, and speed of nozzle movement over target area. Pertinent safety explanations include proper pesticide dilution, equipment decontamination, and misuse resulting in accelerated application equipment deterioration.

17 min., color, Sandy McLeod of Canada, Ltd., TV. 1976. (D)

3111 Dutch Elm Disease

Outlines the origin and spread of Dutch elm disease using a series of still images. Discusses actions to be taken to help curb the spread of this disease. General in its approach, the film is useful for opening community discussions.

10 min., color, Sly Fox Films, Inc., TV. 1976. (C)

3223 Fungicides Spraying of Cereals

Describes development of the commercial use of fungicide spraying of cereal crops for control of leaf diseases. Discusses testing and adjusting of airplane sprayers, fungicides used, results of treatment, and potential use of this treatment.

28½ min., b/w, kinescope, University of Minnesota, TV. 1968. (E)

3342 Living Soil

Covers soil pests of several crops. Portrays the problems of control and eradication. Describes the research efforts to understand biology, damage, and control of pests. For adolescent or adult audience.

20 min., color, Shell Oil Co., TV. 1970. (E)

Films continued

3577 Time for Decision

Shows three steps in the control of Dutch elm disease: sanitation, preventing root graft transmission, and chemical treatment. Explains each step as well as the life history of the beetle which carries the fungus causing the disease. Excellent for community groups.

30 min., color, Iowa State University, TV. 1967. (E)

3610 The Unseen Harvesters

Pays tribute to the researchers in chemical laboratories who discover and produce materials that control diseases and insects. These people make it possible for farmers to produce an abundance of food and fiber.

28½ min., color, DuPont, not TV. 1961. (E)

3631 Weed Sprayer Calibration

Illustrates the importance of proper sprayer calibration by showing the results of over and under application. Demonstrates methods of accurate sprayer calibration and proper selection and care of nozzles.

12½ min., color, South Dakota State University and American Oil Co., TV. 1969. (D)

Video Tapes

7052 Apply Pesticides Properly (Private Applicator Series, Parts I and II)

Useful for private applicator certification training, these two video tape cassettes contain the following eight lessons:

	<i>Topic</i>	<i>Tape Time</i>
Part I	Introduction	5:25
	Pests and Damage	12:30
	Pest Control	4:30
	Pesticides	16:20
Part II	Labels and Labeling	12:00
	Safety	24:10
	Application Equipment	16:40
	Summary of Laws and Regulations	6:30

50:45 (Part I) and 47:20 (Part II), color, ¾" cassettes, Kansas State University, TV. 1976. (H)

Slide Sets

766 Adventures With Your Snowmobile

Discusses the operation and maintenance of the snowmobile. Covers such items as clothing, pre-start check of the machine, riding positions, hand signals, trail signs, hazards, transporting the machine, and maintenance. For any group learning or improving snowmobile operation.

79 slides, color, John A. True, extension agricultural engineer, and Wayne E. Carlson, extension specialist, 4-H Youth Development, University of Minnesota. 1971. (B)

730 Drive to Live

Shows driving safety, rules of driving, and regulations illustrating defensive driving. For adolescent or adult audience.

30 slides, color, Ohio State University. 1970. (B)

736 Electrical Hazards in the Home

Cartoons illustrate various electrical hazards in the home. Illustrates facts about wiring, fuses, UL labels, and electrical grounding wires and emphasizes proper handling of electrical equipment. For adolescent audience.

30 slides, color, National Safety Council. 1970. (B)

737 The Facts of Fire

Illustrates how homes burn and how they can be made fire safe. Explains dangers of smoke and gases. Emphasizes what to do in case of a fire in the home. For adolescent audience.

30 slides, color, National Safety Council. 1970. (B)

738 Falls Aren't Funny

Shows the causes of falls in the home and what can be done to prevent them. Emphasizes that we be aware of the hazards of poor design in the home, traffic patterns, storage areas, and basement areas. For adolescent audience.

30 slides, color, National Safety Council. 1970. (B)

940 Fewer Farm Accidents

Shows how FFA members can help reduce farm and home accidents. Identifies some of the hazards that threaten agricultural communities and how safety campaigns can reduce accidents. For adolescent audience.

70 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 6:00), Farm and Individual Equipment Institute and Dow Chemical, U.S.A. 1973. (B)

553 Go Seek and Hide

Shows how to poison-proof a home. Gives precautions for using and storing the common chemicals and drugs found in most homes.

43 slides, color, American Association of Poison Control Centers. 1966. (B)

906 Hand Signals for Agriculture

Hand signals which prevent accidents and save time are useful when noise and distance makes voice communication difficult or impossible. The signals illustrated have been tested in several states and are similar to those used in other occupations. Most are one-armed signals for additional ease of use.

12 slides, color, USDA. 1973. (B)

881 Horse Safety

Gives horse lovers important safety tips for working with horses both in the stable (Part I) and on the trail (Part II).

121 slides, color, cassette tapes (automatic, inaudible 1000 Hz pulses, time 9:30, Part I and 10:30, Part II), University of Minnesota. 1973. (B)

28 Horse Safety (Catching, Leading, Grooming) (4-H Horse Project)

Shows catching, leading, and grooming in detail. Includes safe and unsafe ways of horse handling. Useful for youngsters and inexperienced horse handlers but helpful to experienced horse handlers also.

60 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 13:00), 4-H Service Dept. 1975. (B)

91 Horse Safety for Hunt Seat Rider (4-H Horse Project)

Presents accident prevention tips for both horse and rider. Describes safe clothing and tack and discusses safety in mounting and in riding. Emphasizes horse management on the ride and safety over fences. Shows safety procedures with "green" horses and with group riding in fields and public places.

59 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 16:00), 4-H Service Dept. 1975. (B)

Slides continued

29 Horse Safety — Saddling, Bridling and Riding Western (4-H Horse Project)

Shows safety in saddling and unsaddling a horse, as well as bridling, mounting, and riding western. Includes trailering a horse to and from shows and safety practices unloading at the show. Deals with some trail riding and fun riding practices including riding double.

71 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 20:00), 4-H Service Dept. 1975. (B)

670 House Traps

Shows hazards commonly found around the home. Illustrates accidents caused by smoking, slippery places, and items left around the house.

30 slides, color, Ohio State University. 1968. (B)

944 How to Dress for Snowmobiling

Wearing incorrect clothing can make snowmobiling a miserable or even dangerous experience. Points out features to consider when selecting clothing and related equipment to keep snowmobilers warm, comfortable, and safe.

48 slides, color, University of Wisconsin. 1974. (B)

762 Hunt Safely

Provides basic information on safe gun handling practices both in the home and in the field. Following the safety measures outlined will make firearm sports safer and more enjoyable. For adolescent audience.

34 slides, color, USDA. 1969. (B)

785 Play it Safe

Discusses knowledge and good judgment of safe tractor operation and illustrates care and maintenance of the tractor and safety factors. Stresses accident prevention. Useful for 4-H clubs and vo-ag classes.

79 slides, color, Ford Motor Co. 1971. (B)

739 Poison Perils

Cartoons show the dangers of accidental poisoning in the home. Emphasizes the curiosity of small children and the carelessness of adults. Illustrates how the home should be checked for poison and made safe.

30 slides, color, National Safety Council. 1970. (B)

668 Tractor Tragedy

Points out annual losses of human life and limb through tractor accidents and suggests methods of prevention. For adolescent or adult audience.

26 slides, color, Ohio State University. 1968. (B)

15 Using Pesticides Safely to Protect Yourself (Pesticide Applicator Training, Show #4)

Tells how to prevent accidental exposure to pesticides including the use of protective clothing and devices and what to do in case of accidents.

62 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 8:00), Colorado State University. 1975. (B)

208 Using Power Tools Safely

Shows how to use power tools — grinders, drill press, circular saw, and band saw. Copied from printed safety literature. No script; captions on slides.

49 slides, color, University of Minnesota. 1956. (B)

207 Using Shop Tools Safely

Shows how to use shop tools — ladders, chisels, screwdrivers, and wrenches. Copied from safety literature. No script; captions on slides.

49 slides, color, University of Minnesota. 1956. (B)

669 Water Ways to Have Fun

Shows ways in which water sports are dangerous. Makes suggestions for safe enjoyment of swimming, boating, skiing, fishing, and wading. For adolescent audience.

30 slides, color, Ohio State University. 1968. (B)

Films

3044 Before You Go

Attempts to interest youngsters in enrolling in the 4-H Auto Safety Project. It is aimed at the pre-driver and is not a how-to-do-it film. Treats dramatically the value of responsible attitudes toward auto safety.

14 min., color, National 4-H Service Committee, TV. 1969. (D)

3045 Before You Hunt

This partially animated film outlines the history of hunting and support of game management and research by the sportsman. Emphasizes good sportsmanship including knowledge and safe handling of firearms and ammunition. Also stresses respect for the out-of-doors, private property, hunting etiquette, and methods of hunting upland game, waterfowl, and big game.

30 min., color, Federal Cartridge Corp., TV. 1973. (E)

Safety — General

Films continued

3055 Bicycles are Beautiful

Four out of five bicycle accidents could be avoided if bicycle drivers observed the rules of the road. Illustrates these rules and uses a National Safety Council test to measure viewer knowledge. Narrated by Bill Cosby. For adolescent audience.

27 min., color, McDonald's Corp., TV. 1974. (E)

3065 Broken Glass

Speed kills is the message of the crash research being carried on in California. Slow-motion photography shows what happens to people in an auto accident. Guaranteed to impress safe driving on anyone.

15 min., color, Charles Cahill and Assoc., Inc., TV. 1964. (D)

3074 Chain Reaction

Shows how a day starting off wrong can create a chain of accident situations. Narration by Bob Hope. Is an effective traffic safety presentation and closes with a positive approach.

15 min., b/w, American Transit Assn., TV. 1956. (D)

3080 Children at Play With Poison

Teaches proper use of poisons in the home. For adolescent or adult audience.

9½ min., color, Creative Arts Studio, Inc., TV. 1964. (C)

3198 Combine Safety

Conveys basic principles of combine safety. Covers contact with moving parts, hydraulic lift elements, straw chopper and rear discharge, fire, overturns, transport accidents, and accidents to others. Useful in vo-ag classrooms and 4-H and FFA groups.

11 min., color, International Harvester, TV. 1976. (C)

3284 Do It Right

One man teaches another the safe way to use a chain saw for felling trees, bucking logs into fuel wood, and limbing. Illustrates general safety precautions.

16 min., color, Homelite, not TV. 1976. (D)

3127 Don't Skid Yourself

Shows the winter driving tests at Pine Lake, Wisconsin, and how they contribute to safer driving. Gives a number of suggestions for handling cars on slippery roads.

16 min., b/w, Aetna Insurance Co., TV. 1955. (D)

3144 Electrical Safety in the Home

Shows electrical hazards that may cause fire or electrical shock in the home. Explains a method of eliminating each hazard. Points out the correct way to use electrical appliances and keep them repaired. For adolescent or adult audience.

14 min., color, Stout State College, TV. 1961. (D)

3155 Epidemiology of Pesticide Poisoning

Reviews basic information on principles and methods of determining the cause of pesticide accidents. Emphasizes the importance of the team approach to correctly diagnose each problem. Presents specific information for evaluating the severity of a pesticide accident and serves as a useful guide for similar problems. For adolescent or adult audience.

22 min., color, National Audiovisual Center, TV. 1970. (E)

3209 Farm Tractor Safety

Discusses positive aspects of tractor safety, the major common-sense precautions the operator should observe, and the importance of a careful and well-informed operator in accident prevention. Includes several tractor overturn sequences and emphasizes the value of roll-over protection structures. Covers principles of PTO safety, the hazards of allowing extra riders, fuel handling safety, and safety precautions for transport on public road. Useful for vo-ag classrooms and for 4-H and FFA groups.

10½ min., color, International Harvester, TV. 1976. (C)

3203 “. . . For the Rest of Your Life”

This National Society for the Prevention of Blindness safety film conveys the dangers to sight posed by anhydrous ammonia, explains proper techniques for applying this fertilizer, describes first-aid measures in case of an accident, and stresses the need for wearing proper eye and face protection when handling all ammonia fertilizers.

15 min., color, University of Iowa, TV. 1973. (D)

3249 Health Hazards of Pesticides

Describes various studies conducted to test the safety of pesticides. Includes research on antidotes with animal and human volunteers, chemical residue analysis, development of labels for registration, and various points on accident prevention. For adolescent or adult audience.

15 min., color, U.S. Public Health Service, not TV. 1966. (D)

Safety — General

Films continued

3265 Home Safe Home

Shows common dangers around the home and precautions that should be taken. Relates the experiences of one family working together to prevent accidents. For children in elementary grades.

13 min., b/w, National Safety Council, TV. 1955. (C)

3274 How to Have an Accident in the Home

Points out in cartoon style many common hazards around the home. To escape the hazards of the street, Donald Duck rushes home only to discover the dangers there. For adolescent or adult audience.

8 min., color, Walt Disney, not TV. 1958. (C)

3283 I'm No Fool With Fire

Briefly traces man's use of fire from prehistoric times and points out its value when properly controlled. Cartoons are used to explain what makes a fire burn and how one can be put out.

8 min., color, Walt Disney, not TV. 1959. (C)

3281 If You Hear the Explosion, the Danger has Passed

Interweaves safety program philosophy with accident situations in the industrial environment. Explains three accident factors: an individual's unsafe act, an unsafe facility or piece of equipment, and an unsafe procedure. Ideal for any vocational education program.

9½ min., color, Xerox Films, Inc., TV. 1971. (C)

3316 Just Like a Car

Explains why you have to be a defensive bike rider. Points out all the similarities there are between driving a car and riding a bike.

11 min., color, Film Loops, Inc., TV. 1974. (C)

3028 Keep a Safe Bike

Explains the basics of bike safety inspections and bike maintenance. An excellent resource for Pedal Power instructors and others in the 4-H bike project.

20 min., color, Cornell University, TV. 1975. (E)

3205 Lawn Mower Safety

Covers the major principles of safe operation of walking and riding rotary lawn mowers including blade precautions, thrown objects, use of guards and shields, hazards with children, back-up precautions, operation on slopes, and safe fuel handling. For adolescent or adult audience.

9½ min., color, International Harvester, TV. 1976. (C)

3345 The Lost Hunter

A story of a hunter lost in the woods. Shows how to prevent getting lost and what to do if one does become lost.

25 min., color, Film Originals, Inc., TV. 1963. (E)

3350 Make it a Safe Harvest

Deals with hazards of the harvest season. Includes transmission of power, cutting and processing, transportation, storage of the crop, and fueling. Emphasizes the responsibility of the farm machine operator in preventing harvest accidents.

18 min., color, Group Health Mutual, Inc., TV. 1960's. (D)

3432 Paced to Live

Emphasizes the inherent danger in ignoring the traffic gates which guard highway-railroad crossings.

18 min., color, Great Northern Railway, not TV. 1968. (D)

3443 People Afloat

A safety film intended to encourage safer handling of motor-driven water craft. Also gives safety tips for water sports and other activities related to the water.

14 min., color, American Red Cross, TV. 1964. (D)

3445 Pesticides: Fundamentals of Proper Application

Demonstrates common problems that occur with farm application of pesticides. Emphasizes selection of equipment, adjustment, calibration and maintenance of sprayers, mixing, and handling procedures.

21 min., color, Geigy Chemical Co., not TV. 1966. (E)

3464 Prescription for Safety

Shows safe ways to use pesticides. Justifies the use of pesticides and follows them from safe storage through safe application. Emphasizes reading the label.

21 min., color, California Chemical Co., TV. 1965. (E)

3502 Roll Guard

Demonstrates how the use of a roll guard such as that used by a dirt track racer protects a tractor operator in case of tip over or roll. Shows actual tractor tips and rolls with mannequin in seat.

10 min., color, Deere and Co., not TV. 1966. (C)

Films continued

3508 The Safe Operation of Farm Tractors

Reviews daily maintenance checks and proper operating procedures for tractor safety. Fits well with the 14 to 15-year-old certification program and 4-H tractor project.

16½ min., color, Cornell University, TV. 1975. (D)

3509 Safe Side Clyde

Designed to stimulate interest in safety, this film helps build a positive attitude toward the safe way to work. For adolescent audience.

29 min., color, USDA, TV. 1969. (E)

3510 Safe Use of Garden Pesticides

Alerts home gardeners to the dangers of irresponsible use of pesticides. Discusses the need for pesticide treatment, where to get advice, what to do about pest problems, and gives suggestions for the safe use of pesticides. For adolescent or adult audience.

15 min., color, University of Minnesota, TV. 1967. (D)

3511 Safe Use of Pesticides

Tells farmers that following the label on pesticides is of utmost importance if they are to produce healthful foods. Shows how law enforcement agencies may seize crops when excessive amounts of chemical residues are found. Although the film was intended for a farm audience, it would be of interest to a consumer group.

21 min., color, USDA, TV. 1963. (E)

3514 Safety at the Crossing

Cartoons show the dangers to traffic at railroad crossings. Explains safety measures provided by railroads, police, and communities. For adolescent or adult audience.

11 min., color, Minnesota Railroads Assn., not TV. 1970. (C)

3515 Safety With a Corn Picker

Shows how a Winona County, Minnesota, farmer who lost both hands in a corn picker continues to farm with artificial hands. Points out dangers of a corn picker and offers safety tips.

8 min., b/w, University of Minnesota, TV. 1954. (C)

3519 Save That Life

Demonstrates mouth-to-mouth artificial respiration. Discusses the emergencies where knowledge of this method of artificial respiration may save a life. Explains the procedure using models and a mannequin. For adolescent or adult audience.

8 min., color, Scott Peters Enterprises, TV. 1972. (C)

3523 A Second Chance

An accident victim reflects on farm hazards and the importance of practicing farm safety. Safety tips include shields and machine operating procedures, general "housekeeping," and safety around the barn. For adolescent or adult audience.

14 min., color, Ontario Department of Agriculture, TV. 1971. (D)

3529 Seeds of Safety

Dramatizes a near-tragic corn combine accident. Presents other areas of safety including working in grain bins and flowing grain; machines with open power shafts and other moving parts; working under machinery without jack-stands; falls from climbing buildings, poles, machinery, etc.; agricultural chemical handling and use; and use of power tools. Features tractor accidents including John Deere tractor tipping demonstrations and the safety of the roll-bar. Shows dangers of operating machinery on the highway. For adolescent or adult audience.

18 min., color, Robert H. Young Productions, TV. 1971. (D)

3548 Step Lightly

Illustrates how to increase pedestrian safety at night with the use of reflective materials. Reflective tape on clothing, adhesives on shoes, and dangle tags make pedestrians visible beyond the maximum breaking distance of automobiles.

14 min., color, 3M Co., not TV. 1969. (D)

3561 That They May Live

Demonstrates mouth-to-mouth artificial respiration using a unique device, the air passage demonstrator. Covers common situations such as drowning, automobile, and industrial accidents which may result in suffocation. Approved by Red Cross and medical association officials.

21 min., color, Pyramid Film Producers, Ltd., TV. 1960. (E)

3594 Tractor Tragedies

Shows safe and unsafe methods of hitching machinery to tractors. Protection from the power take-off is stressed. Causes and prevention of tractor tipping are shown in the actual tipping of a tractor.

12 min., b/w, Kansas State Farm Bureau, TV. 1957. (D)

Films continued

3079 Wagon and Forage Harvest Safety

Contains two parts. Part I, *Wagon Safety*, deals with the safe use of farm wagons including forage blowers, feed mixers, and manure spreaders. Reviews the problem of falls and runovers from wagons and precautions necessary to avoid them. Depicts the hazards of riding in or on loaded wagons with special emphasis on children. Treats accident prevention with power unloading wagons. Stresses the added potential for accidents when two or more are working around equipment. Also covers the safety aspects of PTO, power drive lines, and safety shields. Part II, *Forage Harvest Safety*, illustrates the safe use of forage harvesters, blowers, power unloading wagons, and mower-conditioners. Operating scenes in the field and at the farmstead depict both hazards and safety procedures in dealing with discharge spouts, PTO drive lines, conditioner rolls, cutter heads, fan rotors, and auger and chain conveyers. For adolescent or adult audience.

21 min., color, International Harvester Co., TV. 1976. (E)

3628 We Drivers

Safety Sam, a gremlin, has to sharpen his wits against Reckless Rudy and others to teach them how to be safe drivers. Shows all driving operations from starting the motor to setting brakes.

14 min., color, General Motors, TV. 1962. (D)

Kits

K-1 Pesticide Safety Equipment for the Applicator

Consists of a hard hat, gloves, respirator, goggles, and a plastic apron. Useful for demonstration purposes during training courses for applicator certification.

Phillip K. Harein, extension entomologist, University of Minnesota. 1976. (A)

Overhead Transparencies

0-30 Chemical Safety Kit

Defines and identifies the agricultural chemicals used on America's farms. Improves the understanding of pesticide labels. Explains how to properly store chemicals, clean up accidental chemical spills, and handle leftover chemicals. Develops a safe attitude and desire to use chemicals correctly.

30 color and b/w transparencies, Agri-Education, Inc. 1974. (B)

0-9 Safety in the Kitchen

Emphasizes the fundamentals in prevention of kitchen accidents. For food service employees, homemakers, and home economics classes.

20 color transparencies, 3M Co. 1971. (B)

Slide Sets

502 Family Plans for Severe Weather Emergencies

Illustrates tornadoes and winter storms and their effects on families in Minnesota. Describes how families can prepare for and protect themselves from these emergencies. The content of the set parallels that of the homemaker group lesson material HO-72, Family Plans for Severe Weather Emergencies. Order from your local county agent or the Bulletin Room, Coffey Hall, 1420 Eckles Ave., University of Minnesota, St. Paul, MN 55108. For adolescent or adult audience.

48 slides, color, Clifton F. Halsey, extension conservationist, soils, University of Minnesota. 1975. (B)

25 Tornado...What to Do

Describes and illustrates tornadoes and the hazards involved. Also describes the actions people can take to protect themselves along with cleanup procedures.

72 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 15:00), USDA. 1975. (B)

10 Wake Up — Get Out — And Live!

Explains the need for an early warning device to alert occupants to the presence of fire in the home. Assists families in developing an evacuation plan for their homes in case of fire. For adolescent or adult audience.

27 slides, color, Ohio State University. 1975. (B)

965 Winter Survival

Knowledge of survival techniques can avert potential disaster when stranded in a blizzard. Illustrates situations of being stranded in a car or when snowmobiling and how temporary shelter and emergency supplies can be used.

79 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 14:30), Montana State University Cooperative Extension Service. 1974. (B)

Films

3002 About Fallout

Explains the formation of radioactive fallout and fallout patterns. Shows effect of radioactive atoms on living cells, soil, plants, and water. Illustrates how shelters keep out radiation, and demonstrates techniques for measuring radiation, removing fallout from food, and cleaning up fallout in a community. For adolescent or adult audience.

24 min., color, Office of Civil Defense, not TV. 1964. (E)

3169 The Face of Disaster

Emphasizes the need for a good standby rural civil defense organization to be ready for floods, tornadoes, explosions, and fires. Covers emergency operations and coordination of repairs, food, and suppliers.

10 min., b/w, Office of Civil Defense, not TV. 1965. (C)

3173 Fallout and Agriculture

Shows how radioactive material moves through the atmosphere with resultant exposure to man and animals. Discusses ways of protecting against radiation and minimizing the contamination of soil, crops, livestock, and food.

23 min., color, USDA, TV. 1960. (E)

3217 The Friendly Enemy

Shows the most common and one of the most destructive disaster situations - fire.

28 min., b/w, kinescope, Michigan State University, TV. 1968. (E)

3345 The Lost Hunter

A story of a hunter lost in the woods. Shows how to prevent getting lost and what to do if one does become lost.

25 min., color, Film Originals, Inc., TV. 1963. (E)

3419 Operation Hurricane

Shows how weather bureau warning centers reduce the hurricane menace along the east coast. Suggests precautions against damage. The nature of hurricanes is shown with animation.

15 min., b/w, U.S. Weather Bureau, TV. 1949. (D)

3496 Rising Waters

Reviews advance preparation for anticipated and flash floods in homes and on the farm. Covers life saving and immediate actions to take following announcements of impending floods. Also reviews flood recovery or cleanup actions and precautions.

14½ min., color, USDA, TV. 1974. (D)

3513 The Safest Place

Shows how to pick out the "safest place" around the farm to lessen the danger from radioactive fallout. Explains how to complete a family survival plan.

13½ min., color, USDA, TV. 1963. (D)

Safety — Emergency Preparedness

Films continued

3555 Survival in the Winter Storm

Reviews preparation procedures for survival during severe winter storms. Discusses precautions for the home and for travel.

*27 min., color, Bay State Film Productions, Inc., TV.
n.d. (E)*

3592 Tornado

Shows how the National Severe Storm System operates. Explains steps in detecting tornado weather and describes what is meant by tornado watch and tornado warning. Shows how a family can be protected from a tornado.

*15 min., color, U.S. Department of Commerce, TV.
1966. (D)*

Minnesota Fire Service Memorial Fund Library

Memorials to departed fire service personnel, in the form of monetary contributions, films or other teaching materials, are accepted for this library by:

Robert T. Palmer, Secretary
Minnesota State Fire Chiefs Association
4141 Harriet Avenue South
Minneapolis, Minnesota 55409

Slide Sets

891 Death in the Corridors of a Chicago School

The dramatic story of the fire in Our Lady of the Angels School in which 92 children and 3 nuns died. Script details 30 school fire safety recommendations made by the investigating coroner's jury which can be applied to many schools in the U.S.

13 slides, color, Fire Department Instructors Conference. 1970. (A)

105 Exit Drill in the Home

A family of ants makes up an escape plan in case of fire and soon has to use it. Done in a cartoon style. Suitable for all ages but especially for young children.

20 slides, color, Shriners Burn Institute. 1974. (A)

892 Fighting Tank Fires With Water

Methods and techniques of handling flammable liquid fires involving tanks. Provide ample time for preparation, presentation, and discussion.

36 slides, color, National Fire Prevention Assn., (NFPA). 1970. (A)

893 Handling L.P. Gas Emergencies

Methods and techniques of handling L.P. gas emergencies. Provide ample time for preparation, presentation, and discussion. Includes an outline on setting up simulated fire situations.

40 slides, color, National Fire Prevention Assn., (NFPA). 1970. (A)

889 How to Survive When Trapped in a Multi-Story Building Fire

Dramatic pictures of rescues from upper floors of a hotel by means of extension ladders and a military helicopter. Contains illustrations of movement of combustion gases and smoke through a 12-story building where 12 persons died. Illustrates how hotel guests can protect themselves by using available room furnishings.

34 slides, color, Fire Department Instructors Conference. 1970. (A)

888 Identification Markings of Hazardous Materials

Compares inadequate marking schemes to identify materials hazardous to fire fighters. Describes an easily remembered plan to indicate various degrees of health, explosive, and combustion hazards to fire fighters. NFPA pamphlets referred to in the script must be ordered from National Fire Prevention Association (NFPA), 470 Atlantic Ave., Boston, MA 02210.

36 slides, color, Fire Department Instructors Conference. 1970. (A)

11 Pesticide Fire Safety

Recommends procedures for fighting fires involving pesticides. Discusses the definition of pesticides, kinds of products, toxicity, exposure routes, and particular hazards. Provides information needed to fight pesticide fires with greater safety.

55 slides, color, U.S. Environmental Protection Agency. 1974. (A)

887 So You Are Going to Have a High-Rise

Shows how a small suburban fire department successfully handled its first high-rise structure, step by step, from site selection with access and water supply problems through the hazardous construction stages to final testing of all systems. The assistance and cooperation of state governmental agencies is detailed.

80 slides, color, Fire Department Instructors Conference. 1970. (A)

894 Tank Vehicle Fire Fighting

Methods and techniques of tank vehicle fire fighting. Provide ample time for preparation, presentation, and discussion.

36 slides, color, National Fire Prevention Assn., (NFPA). 1970. (A)

890 Training on a Limited Budget

Uses available local structures and combustible scrap materials supplied by local industries to illustrate an effective and practical training program for a paid department of 167 men at a minimum cost.

75 slides, color, Fire Department Instructors Conference. 1970. (A)

957 Waterous CM Series: Fire Pumps and Relief Valves

Covers some of the first Waterous fire pumps, progressing to the 2-stage series/ parallel model CM pump. Explores in detail the basic construction and operation of the CM pump and accessories including the relief valve.

50 slides, color, Waterous Co. 1971. (A)

Films

3023 Analysis of a Bulk Plant Fire

Story of a spectacular and disastrous bulk gasoline plant fire in Kansas City. Starts with the sequence of events leading up to and occurring during the fire; then follows with an analysis of the chain events which made this disaster possible.

24 min., blw, American Petroleum Institute, TV. 1962. (B-1)

3033 Bleve!

Explains boiling liquid expanding vapor explosions (BLEVE) and the hazards that can affect decisions on whether to evacuate or attack. Uses animation, case histories, and documentation on BLEVE incidents. For fire departments, tank fleet operators, and gas companies.

19 min., color, National Fire Prevention Assn., (NFPA), TV. 1975. (B-1)

3175 The Bondi Story

An actual case history of the death of two adults and four children in a residence fire. Jay Bondi, an electronics engineer, explains why fire detectors are needed, their availability, effectiveness, necessary features, and location in the home. Carries a strong emotional impact and an important message — every home should be equipped with an effective smoke detection device.

12 min., color, Film Communicators, TV. 1976. (B-1)

3082 Close-Up on Fire

Visually shocking ABC news documentary featuring Jules Bergman examining the fire problem. Discusses and criticizes polyurethane insulation, high-rise building practices, flammability of children's clothing, auto manufacturers, and testing laboratories. Effectively stimulates viewers' thinking on a subject of general interest — the lack of adequate laws, standards, and practices to provide for safety from fire.

54 min., color, ABC TV, TV. 1974. (B-1)

3084 Code 1001

For use as a hospital staff training program in fire emergency procedures. Covers evacuation and relocation of patients, pre-fire planning, and actual emergency procedures. Shows various types of emergency patient carriers.

20 min., color, Fire Prevention Through Films, Inc., TV. 1972. (B-1)

3096 Coordinated Fire Attack

Gives fire fighters and fire officers an understanding of fire behavior in structures. Illustrates the principles involved in using multiple lines in larger and more complex situations.

23 min., color, Iowa State University, TV. 1972. (B-1)

3162 Edith (Exit Drills In The Home)

Many people who die in home fires could still be alive today if they had planned how to leave their burning homes. Helps the audience prepare for and deal with fire disasters in the home.

12 min., color, Area 16 Productions, TV. 1975. (B-1)

3185 Fire and the Computer

Demonstrates use of Halon 1301, a halogenated hydrocarbon gas extinguishing agent and product of Safety First Products Corp., in computer installations. Simulated computer room fires, using alcohol and paper, are extinguished by Halon 1301 and negative effects on computer components are shown. (A product demonstration film.)

30 min., color, Safety First Products Corp., TV. 1972. (B-1)

3035 Fire in my Kitchen

Demonstrates how to cope with kitchen fires, specifically range-top fires. Includes smothering techniques and use of an extinguisher. Covers wastebasket fires, overloaded circuits, grease ignitions, hazards of clothing ignitions, and child safety in the kitchen. Emphasis on correct way to call the fire department.

12 min., color, Film Communicators, TV. 1976. (B-1)

3188 Fire Trap

Presents a critical look at traditions preventing progress in paid and volunteer departments and encouraging lack of coordination among them. Points up lack of high-level governmental attention to problems of the fire service. Illustrates new challenges created by high-rise fires and the poor fire protection standards that exist for materials. Shows community support depends on its knowledge of fire protection problems. Recommended for city council, civic club, or community group showing. Note: We have two versions of this film — 50 min. (2 reels) and 43 min. (edited, 1 reel). Please specify choice.

50 min. (2 reels) or 43 min. (1 reel), color, Westinghouse Learning Films, TV. 1972. (B-1)

Films continued

3189 Firefighting Strategy

Outlines the basic procedure of fire strategy for officers and men of the fire service. Illustrates fire operations from organization through size-up, rescue, ventilation, exposure protection, extinguishment, salvage, and overhaul by means of live footage and ground action.

24 min., color, California Fire Service Training, TV. 1972. (B-1)

3236 Ground Ladders

Demonstrates the correct procedures for carrying, raising, and lowering all types of ground, roof, and attic ladders. Each sequence in which firemen raise ladders is repeated without sound so that the local instructor can adapt the lesson to local situations and procedures.

30 min., color, New York, State Division of Fire Safety and National Fire Prevention Assn., (NFPA), TV. 1972. (B-1)

3050 Have a Wonderful Evening

A couple leaves their children and home under the care of a baby sitter, and fire breaks out. Introduces a baby sitter orientation plan to inform adolescents what to do in case of a fire emergency.

15 min., color, Film Communicators, TV. 1976. (B-1)

3251 Help Prevent Fires

Shows the destructiveness of fires. One of the most outstanding fire prevention films made. There is French commentary, but the visuals speak for themselves.

12 min., color, Switzerland, not TV. 1963. (B-1)

3257 High-Rise Building Problems

Translates the lessons of high-rise building fires into practical guidance on prevention, pre-fire planning, and solutions to problems in this type of structure. Good for fire department training or high-rise occupant training.

17 min., color, National Fire Prevention Assn., (NFPA), TV. 1970's. (B-1)

3258 High-Rise Pre-Fire Planning

Shows advanced planning procedures and instructions on the handling of fires and other emergencies in high-rise structures, including rescue, fire fighting, and inspection. A good training film for fire departments with a high-rise to protect.

25 min., color, National Fire Prevention Assn., (NFPA), TV. 1970's. (B-1)

3262 Holy Angel School Fire

Describes the fatal delays in reporting the blaze that triggered a tragic fire which took nearly 100 lives. Describes the fire fighting and rescue efforts.

24 min., color, Fire Prevention Through Films, Inc., TV. 1958. (B-1)

3282 If You Must Send a Boy...

Shows fire extinguishing capabilities of Monex, a dry powder extinguishing product of Safety First Products Corp. Includes open pit flammable liquid and liquid natural gas fires controlled under a variety of test conditions. (A product demonstration film).

15 min., color, Safety First Products Corp., TV. 1971. (B-1)

3309 It's Up To You, Charlie

Shows employees that they, as well as management, have a stake in the safety of their plant. Shows the importance of emergency organization and property conservation. Charlie's company transmits its concern for loss prevention through an effective training program. Bertram's plant lacks interest and, through his carelessness, a disastrous fire occurs.

18 min., color, Factory Mutual, TV. 1972. (B-1)

3246 Light Water

Explains Light Water brand AFF foam and compares Light Water to conventional foam concentrates. Ideal for departments considering use of foams or for introductory training in use of Light Water. Lesson plan included.

15 min., color, 3M Center, not TV. 1973. (B-1)

3409 The Nozzleman

Outlines the various types of fire streams. Shows their formations and explains their uses. Stresses the importance of choosing the correct attack for each fire situation. Illustrates the difference between the direct, indirect, and combination attacks. Discusses the stages of fire, overhauling, and protective clothing.

20 min., color, Iowa State University, TV. 1972. (B-1)

3420 Operation School Burning

Records fire tests conducted on a 3-story school building by the Los Angeles Fire Department. The tests show effectiveness of fire curtains in corridors, roof vents over stairways, and complete and partial automatic sprinkler protection.

24 min., color, Los Angeles Fire Department, TV. 1958. (B-1)

Films continued

3247 PE-25 Light Water Extinguisher

Describes the uses and advantages of the 3M PE-25 Light Water (AFFF) pressurized extinguisher.

5 min., color, 3M Center, not TV. 1976. (B-1)

3686 Prognosis: Fire

Deals with fire prevention, control, and emergency action recommended in hospitals and health care institutions. Shows how to recognize and eliminate fire hazards. Describes kinds and uses of fire extinguishers and basic fire fighting procedures. Describes employee responsibilities and procedures in fire situations.

20 min., color, Fire Prevention Through Films, Inc., TV. 1975. (B-1)

3222 Prognosis: Safety

Aids in training health care facility employees in general safety methods and in injury prevention. Shows how to prevent occupational injuries or illness from falls, muscle strains, needle punctures, electric shock, radiation exposure, infection, toxicity, and other hazards.

22 min., color, Fire Prevention Through Films, Inc., TV. 1975. (B-1)

3506 RX For Fire

Covers common hospital fire situations. Discusses fire hazards, fire emergency procedures, evacuation and relocation of patients, and use of fire alarm systems and codes. Teaches operation of fire extinguishers, emergency planning, fire prevention, and elimination of hazards. A teaching aid for hospital staff.

19 min., color, North Memorial Hospital, TV. 1972. (B-1)

3051 Tiger in the House

Depicts fire as a tiger in the house. Gives information on smoke and fire detectors. Emphasizes the need for plans to escape and exit drills in the home in case of fire.

20 min., color, Area 16 Productions, TV. 1976. (B-1)

3612 Ventilation

Shows basic ventilation practices to use in instructing recruit fire fighters or as a review for the experienced. Shows use of forcible entry equipment, proper use of hose streams for ventilating, and theory of fire spread. Includes both practical demonstration and blackboard discussion of ventilating techniques.

27 min., color, New York State Division of Fire Safety and National Fire Prevention Assn., (NFPA), TV. 1972. (B-1)

3685 You and Yours

Tells about burns and clothing fires, common fire hazards, home fire detection systems, what the baby sitter should know to handle fire situations, kinds of uses of fire extinguishers, how to devise fire escape places for the family, and what to do when fire strikes. Designed for educating the public in fire safe practices.

20 min., color, Fire Prevention Through Films, Inc., TV. 1975. (B-1)

3678 Your Job

Designed to teach industrial workers fire safety; emphasizes employees responsibility in fire prevention. Covers automatic sprinklers, fire extinguishers, and building evacuation.

20 min., color, Fire Prevention Through Films, Inc., TV. 1971. (B-1)

Overhead Transparencies

0-31 Automatic Sprinkler Systems (Fire Fighting Practices, Unit 5)

Covers the basic principles of wet and dry pipe automatic sprinkler systems and their operations during a fire. Shows risers, branch, and supply lines; explains location and function of control, check, and drain valves. Illustrates sprinkler heads and their operations, gravity and pressure tank water supplies, fire main and fire department water supply to the system, and the dry pipe valve prior to and during operation. Incorporates recommended inspection and maintenance procedures throughout the course. Instructor's guide included.

8 color transparencies, 11 overlays, Robert J. Brady Co. 1969. (B-1)

0-32 Electrical Hazards and Fires (Fire Fighting Practices, Unit 9)

Covers in detail outdoor electrical emergencies. Stresses action fire fighters should take to afford maximum protection for themselves, the victim, and equipment. Covers basic electrical terminology, recommended safety precautions for downed wires, removal of victim in contact with wires, and high tension tools and their utilization. Instructor's guide included.

12 color transparencies, Robert J. Brady Co. 1969. (B-1)

Overhead transparencies continued

0-33 Fire Pumps (Fire Fighting Practices, Unit 8, Section 1)

Objectives are to teach the theory on which fire department pumps operate, familiarize the pump operator with fire department pump construction, show the relation of fire department accessories to the pump proper, develop ability to recognize mechanical failures in the pump, and illustrate the height the pump can lift the water. Instructor's guide included.

14 color transparencies, Robert J. Brady Co. 1969. (B-1)

0-34 Fire Stream Practices (Fire Fighting Practices, Unit 4, Section 1)

Covers basic laws of physics relating to heat and water, stream requirements for Class A, B, and C fires, principles and kinds of pressure, and friction loss and fire stream reach. This set is a pre-requisite for sets 0-35, 0-36, and 0-37. Instructor's guide included.

28 color transparencies, 28 overlays, Robert J. Brady Co. 1968. (B-1)

0-35 Fire Stream Practices, Producing or Developing Fire Streams (Fire Fighting Practices, Unit 4, Section 2)

Covers elements of fire ground hydraulics, supplying hose of various sizes and numbers, rule of thumb calculation of friction loss, relaying of water supply, and supplying private fire protection. Instructor's guide included.

28 color transparencies, 43 overlays, Robert J. Brady Co. 1968. (B-1)

0-36 Fire Stream Practices, Related Information (Appendix) (Fire Fighting Practices, Unit 4, Section 4)

Covers computation of water flow and available water supplies, use of Pitot gauge, mechanical principles of solid stream and fog nozzles, selection of hydrants for flow tests, and discharge tables for circular outlets. Instructor's guide included.

10 color transparencies, 9 overlays, Robert J. Brady Co. 1968. (B-1)

0-37 Fire Stream Practices, Selection and Application of Fire Streams (Fire Fighting Practices, Unit 4, Section 3)

Covers selection of fire streams, water applications, handling and advancing the nozzle, water fog for ventilation, and solid streams from hand lines. Instructor's guide included.

10 color transparencies, 13 overlays, Robert J. Brady Co. 1968. (B-1)

0-38 Forcible Entry (Fire Fighting Practices, Unit 2)

Discusses various types of building construction. Focuses on key entry points into a building. Discusses forcible entry procedures for each type of building, window, or door. Instructor's guide included.

12 color transparencies, Robert J. Brady Co. 1968. (B-1)

0-39 Hose Fittings and Appliances (Fire Fighting Practices, Unit 7)

Demonstrates the common fittings used by fire departments; describes situations and solutions along with the use of hose rollers, hose bridges, hose clamps, and hose jackets. Instructor's guide included.

7 color transparencies, Robert J. Brady Co. 1969. (B-1)

0-40 Hose Layout Practices (Fire Fighting Practices, Unit 6)

Illustrate basic hose layouts for supply and attack lines, and straight lays, reverse lays, and various hydrant hookups for achieving maximum water supply for deluge units and relay of water. Designed so the instructor can indicate hose size, length, type, and size of nozzle and operations pertaining to hose stretches by writing on the transparency with a marking pencil. Useful for teaching simple hydraulics and "rule of thumb" applications. Instructor's guide included.

8 color transparencies, Robert J. Brady Co. 1969. (B-1)

0-41 Portable Fire Extinguishers (Fire Fighting Practices, Unit 3)

Illustrates procedures and effectiveness of commonly found portable fire extinguishers. Discusses the Fire Triangle, classification of fires, and occupancy based on the hazard involved. The rating of each extinguisher is discussed while the student is given an in-depth presentation of the inner mechanics of each extinguisher. Includes the capacity, the applicability to different classes of fires, the normal stream reach, the normal discharge time, the operating principle, suggested servicing, and method of operation. Instructor's guide included.

15 color transparencies, Robert J. Brady Co. 1968. (B-1)

Overhead transparencies continued

0-42 Rope (Fire Fighting Practices, Unit 1)

Covers all knots and hitches for use in rescue, raising tools, roping off areas, lashing and anchoring, first aid, tying ropes together, and pulling and dragging. Also covers effective methods for care and maintenance of the rope. Instructor's guide included.

12 color transparencies, Robert J. Brady Co. 1968. (B-1)

0-43 Simplified Fireground Pump Operations (Fire Fighting Practices, Unit 8, Section 2)

Teaches pump operators simplified methods for determining pressure requirements. Illustrates supply problems for booster lines, 1½ and 2½-inch lines, pre-connected lines, siamesed lines, deluge sets, and relay pumping. Includes transparencies for calculating water supply from the pumper to standpipe and automatic sprinkler systems. Instructor's guide included.

9 color transparencies, 8 overlays, Robert J. Brady Co. 1971. (B-1)

0-44 Transportation Fires, Automobile Fires (Fire Fighting Practices, Unit 12, Section 1)

Illustrates and discusses fires in a typical passenger car such as engine fires, fires in the rear seat, and fires in the trunk and seat. Stresses safety procedures. Shows how to plan a proper attack in different emergency situations. Instructor's guide included.

12 color transparencies, 20 overlays, Robert J. Brady Co. 1970. (B-1)

0-45 Transportation Fires, Gasoline Tank Truck Fires (Fire Fighting Practices, Unit 12, Section 2)

Explores the theory and techniques used in the control of tank truck fire emergencies. Designed to train the fire fighter for a tank truck emergency. Instructor's guide included.

15 color transparencies, 33 overlays, Robert J. Brady Co. 1970. (B-1)

0-46 Ventilating Practices, Theory and Practice (Fire Fighting Practices, Unit 13, Section 1)

Defines and illustrates what is meant by ventilations, mushrooming, and backdraft. Explains the methods and techniques of vertical and horizontal ventilation. The work slides included allow the instructor to design his own fire situations in structures characteristic of the local area. Instructor's guide included.

23 color transparencies, 46 overlays, Robert J. Brady Co. 1970. (B-1)

0-47 Ventilation Theory and Practices, Mechanical Ventilation (Fire Fighting Practices, Unit 13, Section 2)

Illustrates the principles and proper placement of mechanical ventilators in all standard fire situations along with ventilation with the aid of smoke ejectors or exhaust fans. Instructor's guide included.

10 color transparencies, 8 overlays, Robert J. Brady Co. 1970. (B-1)

Slide Sets

825 Consider the Soil First

Describes soil surveys. Illustrates misuses of soil for buildings, roads, septic tanks, etc. Points out how the soil should be the first consideration before construction begins and land is developed for roads, buildings, and other land uses.

73 slides, color, USDA. 1972. (B)

599 Development of Soil Fertility Practices

Reviews how soil fertility practices have changed since man began growing crops for his food. Uses simple explanations to show why some of these practices succeeded while others failed.

34 slides, color, George D. Holcomb, area extension agent, Minnesota. 1967. (B)

827 Efficient Fertilizer Placement

Shows problems of fertilizer application on several crops. Includes urea damage to small grain, phosphorus problems with flax, and ammonia damage on corn. Gives advice on avoiding such problems. Shows the proper application techniques for legumes, grasses, and row crops. Also discusses weather-related problems.

38 slides, color, Curtis J. Overdahl, extension specialist, soils, University of Minnesota. 1972. (B)

714 How Scientists Study Root Growth

Shows root growth study of field crops at the University of Minnesota Lamberton Experiment Station. Includes examples of corn, soybean, and alfalfa root growth.

24 slides, color, James B. Swan, extension specialist, soils, University of Minnesota. 1970. (B)

595 Minimum Tillage

Discusses the advantages of reduced or minimum tillage and the conditions desired in the seedbed. Illustrates several common types of minimum tillage. For adolescent or adult audience.

23 slides, color, University of Minnesota. 1966. (B)

803 Organic Soil Conditioners and Soil Builders

Explains the practical application of organic soil conditioners and soil builders in the farming business.

10 slides, color, Curtis J. Overdahl, extension specialist, soils, University of Minnesota. 1972. (B)

594 Potassium for Agriculture

Gives basic information on potassium fertilizer. Explains where it is mined, factors affecting need, its availability in soils, how it acts in soils, and its use in plants.

66 slides, color, American Potash Institute. 1966. (B)

713 Roots Respond to the Environment

Contains root pictures from research conducted at the University of Minnesota Lamberton Experiment Station investigating the effect of soil physical and chemical environment on root growth. Shows the effect of nutrient availability, soil temperature, soil water, soil air, and soil compaction on root growth of field crops.

51 slides, color, James B. Swan, extension specialist, soils, University of Minnesota. 1970. (B)

854 Tillage Alternatives

Discusses no-till and minimum tillage systems and methods of planting. Shows new developments in machinery and chemical weed control that permit a minimum of soil manipulation for planting seeds and controlling erosion.

48 slides, color, USDA. 1972. (B)

728 Washout

Demonstrates how sediment that washes away from construction projects becomes a water pollutant.

50 slides, color, USDA. 1969. (B)

589 Watershed Projects for Protection and Profit

Discusses watershed projects and illustrates water pollution, erosion, siltation, and flood damage. Discusses watershed protection by land treatment and structural improvements.

55 slides, color, USDA. 1966. (B)

810 What Lime Does and How it Works

Discusses crops needing lime, benefits derived from lime use, effect on roots, effect of nitrogen on soil pH, effect of plowing depth, effect of irrigation on rate of lime reaction, quality, purity, and the use of buffers.

40 slides, color, Curtis J. Overdahl, extension specialist, soils, University of Minnesota. 1972. (B)

Films

3031 Arteries of Life

Points out the importance of water and forests in providing and regulating the flow of moisture in top soil. Explains the water cycle and water table and describes nature's methods of distributing life-giving water.

9 min., color, Encyclopedia Britannica, not TV. 1949. (C)

3703 Conservation Tillage

Illustrates the effectiveness of conservation tillage in controlling soil erosion due to water. For adolescent or adult audience.

8 min., color, University of Illinois, TV. 1975. (C)

3099 Cotton Root Growth

Shows with time-lapse photography the nature of root growth in soil with various kinds of soil conditions, fertilizers, types of soil layers, and levels of moisture.

14 min., color, Auburn University, TV. 1967. (D)

3105 Current Facts on Fertilizer Use: Part I

A question and answer program with questions submitted from fertilizer dealers throughout Minnesota. The panel includes Harvey Meredith, agriculturist with the Tennessee Valley Authority; Curtis J. Overdahl, University of Minnesota extension specialist in soils; and Robert Munson, Midwest director of the American Potash Institute.

28½ min., b/w, kinescope, University of Minnesota, TV. 1970. (E)

3106 Current Facts on Fertilizer Use: Part II

University of Minnesota extension specialists present current aspects of soil fertility: soil structure and chemical properties, high lime soils, fall versus spring application of nitrogen, forms of nitrogen, sulfur needs in the state, and fertilizing alfalfa.

28 min., b/w, kinescope, University of Minnesota, TV. 1970. (D)

3130 The Dust is Dying

Shows how people are battling to prevent disaster when the next drought comes to the Great Plains.

13½ min., color, USDA, TV. 1961. (D)

3157 Erosion: Leveling the Land

Illustrates chemical and mechanical weathering and downstream deposition. For adolescent or adult audience.

14 min., color, Encyclopedia Britannica, not TV. 1972. (D)

3227 Gift From the Clouds

Traces water from mountain reservoirs to points where it can be used by industry and agriculture. Shows several types of irrigation systems with emphasis on delivery control and application of water to different crops. Although made in western U.S., the film is applicable to Minnesota.

27 min., color, Union Pacific Railroad, not TV. 1962. (E)

3234 The Great Difference

Stresses the importance of soil fertility and the value of soil testing. Shows the manufacture of the three basic fertilizer ingredients, NPK; bulk distribution and field application methods of granular, liquid, and gas forms; and irrigation and harvesting methods for various types of crops.

28 min., color, Union Pacific Railroad, not TV. 1960's. (E)

3239 Growing Alfalfa Successfully

Covers the value and uses of alfalfa and its origin and introduction into North America. Features the soil and nutrient requirements of alfalfa as well as cultural methods. Discusses management techniques including fertilization, liming, seeding, inoculation, cutting, pests, and weed control. Time-lapse photography is used to show how the plant feeds and grows.

25 min., color, American Potash Institute, TV. 1961. (E)

3255 Heritage of the Plains

The story of how four families in the Great Plains have used special USDA help — through the Soil Conservation Service and in cooperation with the region's soil and water conservation districts — in making land and income more stable and their environment more livable.

19½ min., color, USDA, TV. 1968. (D)

3270 How Scientists Study the Soil

Explains research methods used in studying soils. Valuable in career explanation for people of high school age.

19 min., color, University of Wisconsin, TV. 1963. (D)

3308 It's Time to Irrigate

Shows methods of determining a crop's need for water, new methods of application, and how to get full value from a given amount of water. Although made in western U.S., the film is applicable to Minnesota.

10 min., color, Union Pacific Railroad, not TV. 1962. (C)

Films continued

3324 The Land — Legacy and Promise

Stresses soil conservation, good seed, and weed and insect control. Gives a good picture of training and background of research teams, breeders, plant disease specialists, and soil scientists.

28 min., color, Audio Productions, Inc. and National Plant Food Institute, TV. 1965. (E)

3341 The Living Filter

Shows how Penn State scientists began experimenting with spray irrigation in 1963, how the system works, advantages obtained in enriched crop and tree growth, effects on animals, and laboratory techniques used to analyze water samples. A spin-off of the projects demonstrates that the soil, the living filter, can rejuvenate strip-mine spoil, getting lush growth of grasses and trees in one growing season on the strip-mined areas.

17 min., color, Pennsylvania State University, not TV. 1972. (D)

3342 Living Soil

Covers soil pests of several crops. Portrays the problems of control and eradication. Describes the research efforts to understand biology, damage, and control of pests. For adolescent or adult audience.

20 min., color, Shell Oil Co., TV. 1970. (E)

3352 Making the Most of a Miracle

Explains how plants manufacture food. Shows in graphic form the various nutrients needed by plants — some from the soil and others from the air. Pictures deficiency symptoms in growing plants. Suggests that commercial fertilizers can be used to hold and raise the fertility levels.

27 min., color, Audio Productions, Inc. and the Fertilizer Institute, not TV. 1968. (E)

3380 Mud

Shows problems of gully erosion and destructive lake siltation caused by the inept or careless developer, road builder, or local government agency who scalps the land without taking adequate precautions. Presents simple erosion control procedures and devices used by the developer to save money for himself and the community and to conserve natural resources.

20 min., color, Stuart Finley Films, not TV. 1968. (E)

3400 New Life for the Great Plains

Promotes the Great Plains Soil Conservation Program by showing the progress made in soil and water conservation in Baca County, Colorado.

12 min., color, USDA, TV. 1965. (D)

3467 Problems of Conservation — The Soil

This brief survey of soil formation, erosion, and depletion provides a quick introductory and non-technical review of problems in soil conservation. Dramatizes the need for erosion control through scenes of top soil loss caused by water and wind. Especially useful to those just beginning their studies of soil conservation.

14 min., color, Encyclopedia Britannica, not TV. 1969. (D)

3480 Raindrops and Soil Erosion

Through close-up photography, shows raindrops to be the cause of much of our erosion problems. Teamed with surface flow, they become a destructive force which must be considered when determining the right land use and treatment, the foundation of effective soil and water conservation. Presented in a simple, interesting, non-technical fashion.

21 min., color, USDA, TV. 1947. (E)

3482 Range of Grazing

Stresses the importance of planning livestock grazing in order to conserve the soil.

4 min., blw, USDA, TV. 1969. (C)

3545 Soil Test

Explains soil sample tests in a state college laboratory and what fertilizer recommendations mean to the farmer. For adolescent audience.

22 min., color, Iowa State University, TV. 1955. (E)

3571 This Land is Ours

Shows how land and water resources can be rebuilt and strengthened as individuals and communities utilize financial and technical help offered by the Agricultural Conservation Program (ACP). Of special interest to young adults.

28 min., color, USDA, TV. 1966. (E)

3591 Topsoil and Teamwork

Explains why soil conservation districts were organized in Minnesota and gives a brief history of their development. Shows soil conservation practices.

23 min., color, Minnesota Soil Conservation Committee, TV. 1955. (E)

3622 Water for Farm and City

Portrays the effect of water upon the land and its people. Shows areas which never have had enough water and those which have more water than they can use. Presents farmers and ranchers from Maryland to Washington who join forces with nature to help sustain everyone.

13 min., blw, USDA, TV. 1959. (D)

Films continued

3623 Water Movement in the Soil

Shows how and why water moves in the soil. Special attention is given to infiltration, effect of soil layers, and action resulting from various kinds of mulch. Time-lapse photography traces molecules of water as they move in the soil. For adolescent or adult audience.

27 min., color, Washington State University, not TV. 1962. (E)

3660 Wind Erosion — Economic Problems

Indicates ways to solve the problems of drought survival, damage to the land, and operating capital. Points out important facts to remember in a wind erosion program. Adapted for use in the western tier of Minnesota counties. One of a series of four films on wind erosion.

6 min., color, USDA, TV. 1950's. (C)

3661 Wind Erosion — Stubble Mulch Farming

Shows details of stubble mulch farming and explains advantages of this practice. Answers arguments of those who may question the value of stubble mulch. One of a series of four films on wind erosion.

6 min., color, USDA, TV. 1950's. (C)

3662 Wind Erosion — Tillage Practices

Shows equipment needed and methods used in strip cropping and emergency tillage measures. Useful for any county with present or potential wind erosion. One of a series of four films on wind erosion.

6 min., color, USDA, TV. 1950's. (C)

3663 Wind Erosion — Tree Windbreaks

Shows benefits of windbreaks and discusses various kinds. Includes suggestions for planning windbreaks. One of a series of four films on wind erosion.

6 min., color, USDA, TV. 1950's. (C)

3669 The World at Your Feet

Deals with soil substance and the multitude of types of animal life in the soil. Illustrates the importance of a healthy soil to both plants and animals. Gives excellent basic material that can be worked into a program of soil care. For farm audiences of almost any age.

25 min., color, National Film Board of Canada, not TV. 1954. (E)

Slide Sets

743 Antibiotic Residues — Hidden Risks

Explains that certain antibiotics can cause allergic reactions to sensitive individuals exposed to antibiotic residues. Also examines the potential hazard which could develop from the reported resistance of certain micro-organisms to the effects of antibiotics. For adolescent or adult audience.

38 slides, color, Food and Drug Administration. 1970. (B)

32 Internal Parasites of Horses (4-H Horse Project)

Presents the major internal parasites of horses and shows clinical and postmortem conditions. Suggests three management programs based on horse population and age. Brings an awareness to the horse owner of the danger of internal parasites and what to do about them.

43 slides, color, cassette tape (both audible tones and automatic, inaudible 1000 Hz pulses, time 11:00), 4-H Service Dept. 1975. (B)

923 Mastitis Treatment Guidelines for Dairymen

Gives step-by-step instructions on mastitis treatment in lactating cows, selection of remedies for treatment, duration of treatment, drug sensitivity, and basic steps in effective treatment of mastitis.

73 slides, color, cassette tape (both audible tones and automatic, inaudible 50 Hz pulses, time 20:00), National Mastitis Council, Inc. 1974. (B)

921 Money Returns From an Effective Mastitis Control Program

Aids dairy farmers in better understanding the economic impact of mastitis. Gives specific suggestions for treatment and prevention of the disease.

47 slides, color, cassette tape (both audible tones and automatic, inaudible 50 Hz pulses, time 12:00), National Mastitis Council, Inc. 1974. (B)

844 Pig Stress and Pork Quality

Illustrates visual symptoms of the stress-prone pig and shows pigs that are afflicted with porcine stress syndrome (PSS). Includes updated information regarding testing methods that indicate the presence of PSS susceptibility.

24 slides, color, Charles J. Christians, extension animal husbandman, University of Minnesota. 1976. (B)

922 Procedures for Handling the Mastitis Problem Herd

Suggests uniform guidelines and a systematic approach for defining the nature and extent of the mastitis herd problem, evaluating the management and environment of the herd to identify causes, and resolving the crisis as rapidly and efficiently as possible.

78 slides, color, cassette tape (both audible tones and automatic, inaudible 50 Hz pulses, time 20:00), National Mastitis Council, Inc. 1974. (B)

924 Rules for Good Milking Techniques

Helps milking machine operators appreciate more fully the important relationship between good milking techniques, the efficient harvesting of milk, and prevention of mastitis.

24 slides, color, cassette tape (both audible tones and automatic, inaudible 50 Hz pulses, time 5:00), National Mastitis Council, Inc. 1974. (B)

Films

3007 African Horse Sickness

Presents the story of this infectious disease which has caused widespread losses of horses in Africa. Shows progress of the disease from infection to death, and the development, manufacture, and administration of preventive vaccines. For meetings where veterinarians are available to help with discussion.

28½ min., color, USDA, not TV. 1958. (E)

3032 Artificial Insemination of Swine

Dr. R. J. Dzuik, University of Illinois, presents the importance and use of artificial insemination of swine. Demonstrates collection, dilution, and analysis of boar semen and shows the sow reproduction technique. For adolescent or adult audience.

8 min., color, University of Illinois, TV. 1970. (C)

3057 Blue Tongue

Shows the history, symptoms, and characteristics of this disease of sheep. Explains transmission and suggests means of prevention and control. For use in schools of veterinary medicine and for practicing veterinarians.

9 min., color, USDA, not TV. 1954. (C)

Films continued

3060 Bovine Contagious Pleuropneumonia

Reports incidence of this disease and shows tissues and organs of affected animals. Describes control by vaccination and other measures in Australia. For use by veterinary regulatory officials and other professional veterinarians.

28 min., color, USDA, not TV. 1956. (E)

3097 Co-Ral

Demonstrates the cattle grub life cycle. Shows control methods of lice and screwworms and materials used. Also covers the economics of parasite control.

20 min., color, Chemagro Corp., not TV. 1967. (E)

3123 DNA: Molecule of Heredity

Explains why DNA (deoxyribonucleic acid), a giant molecule of the cell's chromosomes, is the basis of growth and reproduction and the mechanism for transporting hereditary "specifications" from one generation to the next.

16 min., blw, Encyclopedia Britannica, not TV. 1964. (D)

3154 Epidemic Foot-and-Mouth Disease

Shows how the 1952 outbreak of foot-and-mouth disease in Saskatchewan was brought under control. Describes how the disease affects cloven-hoof animals. Shows the destruction and burial of all infected or exposed animals and the strict quarantine measures. For meetings where veterinarians are available to help with discussion.

16 min., color, National Film Board of Canada, not TV. 1957. (D)

3165 Exotic Newcastle Disease

Illustrates the steps taken to prevent and control exotic newcastle disease threatening poultry in southern California.

21½ min., color, USDA, TV. 1972. (E)

3164 Exposed

Gives the case history of a "hidden brucellosis shedder," and shows how this cow was located in a brucellosis problem herd. Shows the battery of tests available for detection of the disease.

15½ min., color, USDA, TV. 1962. (D)

3250 Heartwater in Farm Animals (Rickettsia Ruminantium Infection)

Heartwater is a septicemic infectious, noncontagious disease of sheep, goats, and cattle. Shows distribution of the disease, symptoms, means of diagnosis, and control measures. For meetings where veterinarians are available to help with discussion.

15 min., color, USDA, not TV. 1959. (D)

3259 Hog Cholera and African Swine Fever, A Comparison

Shows autopsies of swine affected with cholera, and explains some of the characteristics. Shows lesion and pathologic changes of organs and tissues. Describes African swine fever, a highly fatal disease. For meetings where veterinarians are available to help with discussion.

23 min., color, USDA, not TV. 1956. (E)

3260 Hog Cholera — Its Diagnosis

Aids the professional veterinarian in understanding the hog cholera disease and its diagnosis. Discusses diagnostically significant items: herd history, clinical signs, post-mortem lesions, and laboratory findings. Useful to veterinary associations, regulatory workshops, and veterinary students and trainees.

29 min., color, USDA, TV. 1965. (E)

3287 Infectious Disease and Their Preventions

Discusses infectious diseases of horses including signs and symptoms, their prevention, and vaccination programs. For adolescent or adult audience.

29 min., blw, kinescope, University of Minnesota, TV. 1967. (E)

3295 The Inside Story

Shows the life cycle of worms in hogs and explains control measures. Excellent drawings of life cycles of worms. Suggests good management practices for swine raising.

23 min., color, Elanco Products, not TV. 1966. (E)

3322 Lameness of Horses

Explores the common lamenesses in horses including signs and symptoms. For adolescent or adult audience.

29 min., blw, kinescope, University of Minnesota, TV. 1967. (E)

3371 Miscellaneous Diseases of Horses

Discusses common miscellaneous diseases of horses including dental diseases and care. For adolescent or adult audience.

29 min., blw, kinescope, University of Minnesota, TV. 1967. (E)

3389 Nagana, African Trypanosomiasis of Animals

Shows the distribution of this disease in Africa. Describes the symptoms, means of diagnosis, and control measures. For meetings where veterinarians are available to help with discussion.

20 min., color, USDA, not TV. 1959. (E)

Films continued

3416 One Bug is Too Many

Shows the complacency of people toward tuberculosis in cattle. Points out the lack of concern in areas that have been declared modified accredited over a period of years. Slaughter house scenes show damage to carcasses of affected cattle.

21½ min., color, USDA, TV. 1964. (E)

3435 Parasite Diseases and Their Control

Discusses the common parasitic diseases of horses including charts showing life cycles of parasites. Outlines the control of parasitic disease in detail. For adolescent or adult audience.

29 min., blw, kinescope, University of Minnesota, TV. 1967. (E)

3473 Psoroptic Sheep and Cattle Scabies

A presentation of clinical scabies as seen in sheep and cattle before eradication programs were initiated. Discusses clinical signs, diagnostic procedures, and control measures.

12 min., color, USDA, TV. 1956. (D)

3489 Reproduction Among Mammals

Easily understood diagrams make this film a good teaching aid in the reproduction process of mammals. It is good background information for the layman.

11 min., blw, Encyclopedia Britannica, not TV. 1965. (C)

3495 Rinderpest

Shows the history and geographical distribution of rinderpest, a disease of cattle, sheep, and goats. Designed for veterinarian training.

20 min., color, USDA, not TV. 1954. (E)

3503 The Rumen Story

The story of what goes on inside a cow's rumen. Gives a good description of the first step in the digestive process. Pictures bacterial action and the part microorganisms play.

25 min., color, Jam Handy Originals and Ralston Purina Co., TV. 1953. (E)

3522 Scrapie

Reviews the history of scrapie, an obscure disease of sheep. Shows key symptoms, methods of diagnosis, and ways of combating the disease. For schools of veterinary medicine and practicing veterinarians.

8 min., color, USDA, TV. 1954. (C)

3534 Sign of Profit

Shows the profit and other advantages to be obtained by the hog producer by establishing a validated brucellosis-free herd. Instructs farmers to test the entire breeding herd, and shows the plan best suited to the commercial or purebred producer.

20 min., color, USDA, TV. 1964. (E)

3559 Teschen Disease

A disease of swine affecting the nervous system. Discusses similarities with other diseases and deficiencies. For meetings where veterinarians are available to help with discussion.

15 min., blw, USDA, not TV. 1953. (D)

3573 Threat of the Cattle Fever Tick

A historical and practical account of cattle tick fever (Texas fever) and its eradication from our country. Discusses control of the tick and its entry from Mexico.

14½ min., color, USDA, TV. 1954. (D)

3597 Traumatic Injuries in Horses and Their Preventions

Discusses the common traumatic injuries of horses. Covers emergency care and prevention. For adolescent or adult audience.

29 min., blw, kinescope, University of Minnesota, TV. 1967. (E)

3611 Venezuelan Equine Encephalomyelitis, A National Emergency

Covers the history of VEE; the 1971 Texas epidemic; public health significance of Vee; control measures of quarantine, vaccination, and mosquito spraying; evaluation of the vaccine; signs of VEE; differential diagnosis (VEE vs. Eastern and Western equine encephalomyelitis); and owner initiative and concern in continued control of the disease. For general audience.

10½ min., color, USDA, TV. 1972. (C)

3613 Veterinarian

Covers the topic of public and animal health protection. Uses seemingly unrelated events to explain the role of USDA veterinarians in safeguarding the health of both man and animal. The spread and control of tuberculosis and Johne's disease are used as models.

28½ min., color, USDA, TV. 1966. (E)

Films continued

3614 Vicious Circle

The story of how a farm couple eradicated tuberculosis from their poultry and hogs. Stresses selling old hens and keeping only pullets for laying. Presents information about avian TV.

24 min., color, USDA, TV. 1954. (E)

3617 Visual Defects Related to Unsoundness in Horses

Discusses unsoundnesses and lameness of horses using both still and action photography. Covers most unsoundnesses and demonstrates methods of lameness detection. For adolescent or adult audience.

30 min., color, E.K. Edwards and Sons, TV. 1971. (H)

3666 Wisconsin Mastitis Test

Useful in training laboratory technicians to do this widely used test. Explains one phase of the mastitis control program currently underway in Minnesota and around the nation.

11 min., color, University of Wisconsin, TV. 1960's. (C)

Slide Sets

816 Careers in Resource Conservation

Shows technical and professional people at work in fields of resource conservation including air pollution, fish and wildlife, law, forestry, economics, soil, water and range conservation, pollution control of waterways, and the landscape. For adolescent audience.

58 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 7:00), Soil Conservation Society of America. 1972. (B)

952 Education in Agriculture in Minnesota Through Area Vocational Technical Institutes and Technical Colleges

Shows the training and type of instruction taking place at these schools and points out job opportunities for graduates.

133 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 17:00), Post Secondary Division of MVAIA. 1974. (B)

951 Educational Opportunities at the University's College of Agriculture and State Community Colleges

Explains the University's College of Agriculture and the two-year community colleges in the state. Describes opportunities to study agriculture in a curriculum that will lead to a bachelor's degree.

66 slides, color, cassette tape (automatic, inaudible 1000 Hz pulses, time 14:00), University of Minnesota. 1974. (B)

545 A New Challenge in Vocational Agriculture

Shows a number of agriculturally related careers for which students can be trained in either a high school vocational agriculture program or a college agriculture curriculum.

30 slides, color, Ohio State University. 1965. (B)

Films

3009 Agricultural Engineering — The Profession With a Future

Describes the work of engineers who seek practical solutions to the problems of producing and processing food and fiber. Presents the career of agricultural engineering to high school students and describes the basic pre-college courses needed. Includes pineapple and cotton plantations as well as corn and grain harvesting activities in the Upper Midwest.

14 min., color, USDA, TV. ND. (D)

3075 Challenging Careers in Chemistry

Shows chemists creating new products for industry from agriculture's bounty. Demonstrates how research develops new plastics from animal fats, new paper products from cereal grains, and creates new fabrics that mean better business for a nation.

23½ min., color, USDA, TV. 1961. (E)

3131 Dynamic Careers Through Agriculture

Presents the opportunities open to young people in agribusiness which involves nearly half of our national production.

28 min., color, Farm Film Foundation, not TV. 1967. (E)

3701 Providers of Plenty

Promotes agriculture. Attempts to convince a college boy to return to agriculture. Shows many aspects of farming. (Pushes credit through use of Federal Land Bank and Production Credit Association.)

28 min., color, Federal Land Banks, not TV. 1967. (E)

3493 Rewarding Careers in a Dynamic Industry

A fast moving, broad coverage orientation film portraying agricultural occupations in the U.S. Shows people involved largely in off-farm occupations.

28 min., color, Cargill, Inc., not TV. 1969. (E)

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