Instructional Materials

"Over 50 Years of Service"

Vocational Agriculture Service
College of Agriculture
University of Illinois
1401 South Maryland Drive
Urbana, Illinois 61801
217/333-3871
NOTICE

For all billing, the University Business Office requires a FEDERAL EMPLOYER’S IDENTIFICATION NUMBER (F.E.I.N.) for schools and companies, or a SOCIAL SECURITY NUMBER for individuals. The University has established these as personalized customer numbers for accounting purposes. Your F.E.I.N. may be obtained from the person who prepares your payroll tax for the Federal government. It will be necessary to include this information on all orders to be billed.

GENERAL INFORMATION

Instructional materials in Agriculture listed in this catalog have been developed primarily for use in high schools, junior and community colleges, and universities.

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Checks for prepaid orders should be made payable to the UNIVERSITY OF ILLINOIS, but sent to Vocational Agriculture Service, 1401 S. Maryland Drive, Urbana, Illinois 61801.

Telephone Orders

Orders may be placed by calling Vocational Agriculture Service. Please have an authorized purchase order number and Federal Employer’s Identification or Social Security Number before placing your order by telephone. Call 217/333-3871.

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Vocational Agriculture Service provides equal opportunities for programs and employment.
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DESCRIPTION OF INSTRUCTIONAL MATERIALS

Subject-Matter Units

Units cover a particular subject and are designed for use as a text by every student in the class. They are 8 1/2" by 11" in size and punched for three-ring notebook.

Slidefilms

Slidefilms are single-frame, 35mm color films used on a standard filmstrip projector. Some text material is generally shown on each frame so that a separate script may be unnecessary. However, most slidefilms are accompanied by a study guide or script that is included in the slidefilm price. Cassette tapes narrating study guide text are listed when available for the slidefilms.

Slide Sets

Standard 2" x 2" color slides usually include material identical to the slidefilm of the same title and number. Slide sets may have an accompanying study guide which is included in the slide set price. Cassette tapes narrating study guide text are listed for slide sets when available.

Transparencies

These are 8 1/2" x 11" instructional illustrations printed on clear plastic for overhead projection. Each transparency is accompanied either by a printed paper copy, usually with some text on the back, or by a study guide with text. Some transparencies have cassette tapes for narration. Each set is packaged in a manila pocket folder with the title of the set stamped on the tab.

Study Guides

Study guides are 8 1/2" x 11" printed booklets that may accompany slidefilms, slide sets, or transparency sets of the same title and number. They include reduced-size black and white picture frames adjacent to the narration or script for the frame. Study guides are used for narration, to review the presentation, and for independent study. They may be purchased separately, but are included in the price of slidefilms, slide sets, and transparency sets and are listed with accompanying visuals when available.

Cassette Tapes

Cassette tapes fit a standard cassette tape player and are used to narrate slidefilms, slide sets, or transparency sets of the same title and number. The information in the cassette is the same as contained in the study guide or script.

Color Photo Sheets and Booklets

Color photo sheets, 8 1/2" x 11", consist of detailed close-up pictures on one side and concise descriptions on the reverse side. Weed Plants, Crop Plants, Horticulture Plant Diseases, and Field Crop Plant Diseases are booklets with photo sheets, 8 1/2" x 11", spiral bound.

Diseases of Soybeans and Corn, Insect Pest Identification of Corn, Soybeans, and Alfalfa, and Vegetative Identification of Common Row-Crop Weeds are pocket sized spiral-bound booklets. These informative color booklets are useful for identification purposes in the classroom or in the field.

Color Flash Cards

Flash cards have color photographs on one side and identification and a brief description on the reverse side. Cards may be used for individual or classroom instruction.

Oxyacetylene Series

This series consists of 12 slidefilms, or 12 slide sets on oxyacetylene processes. Individual slidefilms or slide sets may be purchased with or without cassettes. By combining the 12 tape recordings on 6 cassettes, a complete set is offered at considerable savings. The slidefilm set only is packaged in an attractive storage box.

Please write or call for further information

VOCATIONAL AGRICULTURE SERVICE
College of Agriculture
University of Illinois
1401 S. Maryland Drive
Urbana, Illinois 61801

Telephone: 217/333-3871
BEEF CATTLE

Subject-Matter Units, Test Questions & Teacher's Keys

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<tr>
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<td>Managing the Beef Cow Herd, 16p</td>
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<tr>
<td>Q1010b</td>
<td>Test Questions, pkg. of 10</td>
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<td>K1010b</td>
<td>Teacher’s Key for Q1010b</td>
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<td>U1054</td>
<td>Health Problems With the Beef Cow Herd, 12 p</td>
<td></td>
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<td>U1056</td>
<td>The Beef Breeding Enterprise, 8p</td>
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<td>Q1056</td>
<td>Test Questions, pkg. of 10</td>
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<td>U1057</td>
<td>The Feeder Cattle Enterprise, 8p</td>
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<td>Q1057</td>
<td>Test Questions, pkg. of 10</td>
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<td>K1057</td>
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Slidefilms, Slide Sets, Study Guides, Cassette Tapes

Selecting Beef Breeding Animals

This 75-frame slidefilm illustrates and discusses the factors that should be considered when selecting beef breeding animals.

F100a Slidefilm, 75 fr. $ 14.85

Breeds of Beef Cattle

This 26-frame slide set (or slidefilm) illustrates and describes the following eight breeds of beef cattle: Aberdeen Angus, Red Angus, Hereford, Polled Hereford, Shorthorn, Polled Shorthorn, Red Poll, and Charolais.

F102 Slidefilm, 26 fr. $ 5.15
S102 Slide Set, 26 fr. 8.60

New and Exotic Breeds of Beef Cattle

This 64-frame slide set (or slidefilm) illustrates and describes twenty new and exotic breeds of beef cattle.

F104 Slidefilm, 64 fr. $ 12.65
S104 Slide Set, 64 fr. 21.10

Aberdeen Angus Judging Classes, Part I

This 33-frame slide set (or slidefilm) includes one ring each of Angus bulls and heifers. Three views of each animal are presented as well as group pictures along with placings and official reasons.

F103-1.1 Slidefilm, 33 fr. $ 6.55
S103-1.1 Slide Set, 33 fr. 10.90

Aberdeen Angus Judging Classes, Part II

This 31-frame slide set (or slidefilm) includes one ring each of yearling heifers and crossbred steers. Two views of each animal are presented as well as group pictures along with placings and official reasons.

F103-1.2 Slidefilm, 31 fr. $ 6.15
S103-1.2 Slide Set, 31 fr. 10.25

Additional Judging Materials on page 46.

Additional study guides are available at a cost of $1.40 each.
Hereford Judging Classes: Yearling Bulls and Yearling Heifers

This 31 frame slide set (or slidefilm) includes one ring each of Hereford yearling bulls and Hereford yearling heifers. Two views of each animal are presented as well as group pictures along with placings and official reasons.

F103-2.1 Slidefilm, 31 fr. $ 6.15
S103-2.1 Slide Set, 31 fr. 10.25

Cattle Handling Facilities

This 38-frame slide set (or slidefilm) illustrates and describes cattle handling facilities such as corrals, working chutes, and blocking gates.

F187 Slidefilm, 38 fr., w/study guide $ 8.90
S187 Slide Set, 38 fr., w/study guide 13.90

Transparencies, Study Guides, Cassette Tapes

Cattle Transparencies

This is a set of 63 overhead transparencies printed in colored ink on clear plastic. It includes many different aspects of beef cattle production. Also included is a white paper copy of each frame with text on the back.

T100 Transparency Set, 63 fr. $ 25.90

BREEDING AND SELECTION

Subject-Matter Units, Test Questions & Teacher’s Key

U1002c Artificially Inseminating Livestock, 12p $ .90
U1009a Improving Animals Through Breeding, 16p .90
Q1009a Test Questions, pkg. of 10 1.10
K1009a Teacher’s Key for Q1009a .55
U1019a Judging Livestock, 2p 1.10
Q1019a Test Questions, pkg. of 10 1.10
K1019a Teacher’s Key for Q1019a .55
U1061 Using Livestock Production Records, 12p .70

Transparencies, Study Guides, Cassette Tapes

Animal Genetics and Breeding Transparencies

This is a set of 53 overhead transparencies printed in colored ink on clear plastic. It includes many different facts and information on the topic of animal genetics and breeding. Also included is a white paper copy of each frame with text on the back.

T130 Transparency Set, 53 fr. $ 22.05

DAIRY CATTLE

Subject-Matter Units, Test Questions & Teacher’s Keys

U1020b Feeding Dairy Cattle, 16p $ .90
U1022 Raising Dairy Heifers and Bulls, 8p .45
U1025 The Cow’s Udder and How It Functions, 12p .70
U1046 Dairy Cattle Breeds, 12p .70
Q1046 Test Questions, pkg. of 10 1.10
K1046 Teacher’s Key for Q1046 .55

* Cassette Tapes of study guides are available at an additional cost of $3.85.
ANIMAL SCIENCES

### Slidefilms, Slide Sets, Study Guides, Cassette Tapes

#### Breeds of Dairy Cattle

This 38-frame slide set (or slidefilm) illustrates and discusses six breeds of dairy cattle: Ayrshire, Brown Swiss, Guernsey, Holstein, Jersey, and Milking Shorthorn.

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<td>F210</td>
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<td>S210</td>
<td>Slide Set, 38 fr.</td>
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#### Holstein Judging Classes

This 32-frame slide set (or slidefilm) includes two rings of mature Holstein cows. Two views of each animal are presented as well as group pictures along with placings and official reasons.

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#### Guernsey Judging Classes

This 32-frame slide set (or slidefilm) includes two rings of Guernsey cows. Two views of each animal are presented as well as group pictures along with placings and official reasons.

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<tr>
<td>S211-2.1</td>
<td>Slide Set, 32 fr.</td>
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#### Selecting Dairy Cattle

This 61-frame slide set (or slidefilm) illustrates in detail and discusses how to select dairy cows and heifers based on type, production records, and production pedigrees. It also illustrates and describes desirable breed characteristics for Ayrshire, Brown Swiss, Guernsey, Holstein, and Jersey Breeds.

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<td>F207a</td>
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#### The Cow’s Udder and How It Functions

This 48-frame slidefilm illustrates and explains the functions of the various parts of the cow’s udder. It also explains how the cow “lets down” her milk and what happens to milk “let down” when a cow is frightened or injured.

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#### Clipping and Trimming Dairy Cattle

This 34-frame slidefilm illustrates and discusses the step-by-step procedure involved in clipping dairy cattle.

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### FEEDS AND FEEDING

#### Subject-Matter Units, Test Questions & Teacher’s Keys

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<td>General Facts on Livestock Feeding, 8p</td>
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<td>Test Questions, pkg. of 10</td>
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<td>U1063</td>
<td>Feed Additives and Hormone Implants in Animal Agriculture, 32p</td>
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Additional study guides are available at a cost of $1.40 each.
Transparencies, Study Guides, Cassette Tapes

Animal Nutrition Transparencies

This is a set of 72 transparencies with study guide covering ruminant and nonruminant digestive systems, the "feed groups," nutrient requirements of livestock, how to formulate a ration, sample rations for beef, swine, sheep, and horses, and other topics. This is one of the most complete sets of transparencies available on animal nutrition.

T131 Transparency Set, 72 fr., w/study guide $ 29.35

HORSES

Subject-Matter Units, Test Questions & Teacher's Keys

U1041 Caring for the Brood Mare and Foal, 8p $ .45
Q1041 Test Questions, pkg. of 10 1.10
K1041 Teacher's Key for Q1041 .55
U1047 Horses and Horsemanship, 44p 2.45
Q1047 Test Questions, pkg. of 10 1.10
K1047 Teacher's Key for Q1047 .55

Slidefilms, Slide Sets, Study Guides, Cassette Tapes

Good Horsemanship

This 43-frame slide set (or slidefilm) illustrates and discusses various points to check before mounting the horse, how to mount properly, best positions for the hands and feet, and the proper rider position in the saddle for various gaits.

F150 Slidefilm, 43 fr. $ 8.55
S150 Slide Set, 43 fr. 14.20

Preparing the Horse for Riding

This 52-frame slide set (or slidefilm) illustrates and discusses proper clipping, grooming, checking the feet and shoes, and checking and adjusting riding equipment.

F151 Slidefilm, 52 fr. $ 10.30
S151 Slide Set, 52 fr. 17.15

Horse Feeding and Nutrition

This 79-frame slide set (or slidefilm) with study guide illustrates many of the common factors that should be considered in good horse nutrition. Techniques for developing a proper horse feeding program are stressed that are based on common sense applications of nutritional needs. Topics discussed include the nonruminant digestive system, nutrient requirements and their sources, specific feeding techniques, suggested life stage feed rations, and the various grains and hays used as horse feed. Techniques for monitoring potential health problems and using protein supplements are also included.

F152 Slidefilm, 79 fr., w/study guide* $ 17.05
S152 Slide Set, 79 fr., w/study guide* 27.45

*Cassette Tapes of study guides are available at an additional cost of $3.85.
ANIMAL SCIENCES

Transparencies, Study Guides, Cassette Tapes

Horse Transparencies

This is a set of 40 overhead transparencies printed in colored ink on clear plastic. It includes many different aspects of caring for horses. Also included is a white paper copy of each frame with text on the back.

T150 Transparencies, Study Guides, Cassette Tapes $ 17.05

MEATS

Slidefilms, Slide Sets, Study Guides, Cassette Tapes

Complete Series on Meat Identification

These slidefilms or slide sets identify and discuss wholesale cuts for beef, pork and lamb, and how to determine whether a given piece of meat is beef, pork, veal or lamb. They also identify and discuss the retail cuts for beef, pork and lamb.

SLIDEFILMS

F180-1 Identification of Retail Meat Cuts, 110 fr. $ 21.70
F181a Identification of Kinds of Meat, 33 fr. 6.55
F182a Identification of Pork Cuts, 81 fr. 16.05
F183a Identification of Beef Cuts, 96 fr. 19.05
F185a Identification of Lamb Cuts, 47 fr. 9.30

SLIDE SETS

S180-1 Identification of Retail Meat Cuts, 110 fr. $ 36.30
S181a Identification of Kinds of Meat, 33 fr. 10.90
S182a Identification of Pork Cuts, 81 fr. 26.75
S183a Identification of Beef Cuts, 96 fr. 31.70
S185a Identification of Lamb Cuts, 47 fr. 15.50

MF180-1 Meat Identification Series (5 slidefilms) $ 58.20
MS180-1 Meat Identification Series (5 slide sets) 96.90

Beef Slaughtering

This 81-frame slide set (or slidefilm) with study guide pictorially shows and describes the beef slaughtering process as taught at the University of Illinois Meat Science Laboratory. All aspects of the slaughtering process are illustrated from the time the animal is unloaded from the truck until the dressed carcass is rolled into a cooler.

F261 Slide film, 81 fr., w/study guide* $ 17.45
S261 Slide Set, 81 fr., w/study guide* 28.10

Pork Slaughtering

This 75-frame slide set (or slidefilm) with study guide pictorially shows and describes the pork slaughtering process as taught at the University of Illinois Meat Science Laboratory. All aspects of the slaughtering process are illustrated from the time the animal is unloaded from the truck until the dressed carcass is rolled into a cooler.

F263 Slide film, 75 fr., w/study guide* $ 16.25
S263 Slide Set, 75 fr., w/study guide* 26.15

Additional study guides are available at a cost of $1.40 each.
### Beef Carcass Cutting and Processing

This 75-frame slide set (or slidefilm) with study guide pictorially shows and describes the complete fabrication process of a beef carcass beginning with the chilled carcass and resulting in the common retail cuts of beef. Detailed photographs show the fabrication of each cut.

<table>
<thead>
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<tr>
<td>F262</td>
<td>Slidefilm, 75 fr., w/study guide*</td>
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<tr>
<td>S262</td>
<td>Slide Set, 75 fr., w/study guide*</td>
<td>26.15</td>
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### Pork Carcass Cutting and Processing, Part I and Part II

These two slide sets (or slidefilms) with study guides pictorially show and describe the complete fabrication process of a pork carcass. Part I (97 frames) begins with the chilled carcass and shows the step-by-step procedure resulting in retail pork cuts. Part II (64 frames) shows and describes how to cure and smoke pork.

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<td>F264-1</td>
<td>Slidefilm, 97 fr., w/study guide*</td>
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<td>F264-2</td>
<td>Slidefilm, 64 fr., w/study guide*</td>
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<td>S264-1</td>
<td>Slide Set, 97 fr., w/study guide*</td>
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<tr>
<td>S264-2</td>
<td>Slide Set, 64 fr., w/study guide*</td>
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### Quality and Yield Grading of Beef Carcasses

This 80-frame slide set (or slidefilm) with study guide illustrates, through the use of photographs, drawings, and charts, the detailed step-by-step procedure used when quality grading and yield grading beef carcasses. Each step is well illustrated and described in easy to understand terms.

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<tr>
<td>F260</td>
<td>Slidefilm, 80 fr., w/study guide*</td>
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<td>S260</td>
<td>Slide Set, 80 fr., w/study guide*</td>
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### Meat Evaluation Classes, Part I: Beef

This 100-frame slide set (or slidefilm) with study guide illustrates through photographs and discussion, the following rings: beef carcasses (head-on, side, and internal views), ribeyes, pelvic and kidney area, chucks (arm-end, blade-end, top view), ribs (loin end, blade-end, top views) loins (rib-end, sirloin-end, top views), and rounds (sirloin-end, top view and rear view). This is a good introductory presentation of what to look for when evaluating beef on the rail.

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<td>F270-1</td>
<td>Slidefilm, 100 fr., w/study guide*</td>
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<tr>
<td>S270-1</td>
<td>Slide Set, 100 fr., w/study guide*</td>
<td>34.40</td>
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### Meat Evaluation Classes, Part II: Pork & Lamb

This 85-frame slide set (or slidefilm) with study guide illustrates through photographs and discussion, the following rings: pork carcasses (side, head-on, loin-eye views), hams (buttock, top, back views), lamb carcasses (head-on, side, rib-cage, internal, rib eye views). This is a good introductory presentation of what to look for when evaluating pork and lamb on the rail.

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<tr>
<td>F270-2</td>
<td>Slidefilm, 85 fr., w/study guide*</td>
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<tr>
<td>S270-2</td>
<td>Slide Set, 85 fr., w/study guide*</td>
<td>29.45</td>
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*Cassette Tapes of study guides are available at an additional cost of $3.85.*
Flash Cards

This set of 125 flash cards includes color photographs of over 70 retail cuts of meat as used in the state and national meat judging contests. Cuts are identified and described on the back. Also includes wholesale cuts of beef, pork, and lamb. This flash card set correlates with the VAS Meat Judging and Grading handbook and with a slide set entitled Identification of Retail Meat Cuts.

X180-1 Flash Cards (Rev. 1984), 125 cards $ 27.50

SHEEP

Subject-Matter Units, Test Questions & Teacher's Keys

U1031a The Sheep Enterprise, 4p $ .25
U1044 Blocking and Trimming Sheep, 8p .45
U1049 Breeds of Sheep, 20p 1.10
U1060 Feeding & managing Sheep & Lambs, 16p .90

Slidefilms, Slide Sets, Study Guides, Cassette Tapes

Selecting Breeding Sheep

This 72-frame slidefilm illustrates and discusses the parts of a sheep, desirable physical characteristics, and selection procedures based on production ability.

F143a Slidefilm, 72 fr. $ 14.25

Breeds of Sheep

This 58-frame slide set (or slidefilm) illustrates and discusses twelve common breeds of sheep.

F145 Slidefilm, 58 fr. $ 11.50
S145 Slide Set, 58 fr. 19.15

Hampshire Sheep Judging Classes: Part I

This 36-frame slide set (or slidefilm) presents one ring each of Hampshire yearling ewes and ewe lambs. Three views of each animal are shown as well as group pictures along with placings and official reasons.

F146-1.1 Slidefilm, 36 fr. $ 7.15
S146-1.1 Slide Set, 36 fr. 11.90

Hampshire Sheep Judging Classes: Part II

This 35-frame slide set (or slidefilm) presents two rings of market lambs. Three views of each animal are shown as well as group pictures along with placings and official reasons.

F146-1.2 Slidefilm, 35 fr. $ 6.95
S146-1.2 Slide Set, 35 fr. 11.55

MF145 Sheep Series (4 slidefilms) $ 31.85
MS145 Sheep Series (3 slide sets, 143a not included) 34.05

Special series price

Additional study guides are available at a cost of $1.40 each.
Shearing Sheep

This 73-frame slidefilm illustrates and discusses the step-by-step procedure of shearing sheep.

F141a Slidefilm, 73 fr. $ 7.20

Blocking and Trimming Sheep

This 42-frame slidefilm illustrates the equipment needed and discusses the step-by-step procedure used to block and trim sheep for showing.

F144 Slidefilm, 42 fr. $ 4.15

Transparencies, Study Guides, Cassette Tapes

Blocking and Trimming Sheep Transparencies

This is a set of 31 overhead transparencies printed in colored ink on clear plastic. It includes illustrations of the proper procedures to use in blocking and trimming sheep. Also included is a white paper copy of each frame with text on the back.

T144 Transparency Set, 31 fr. $ 10.75

Sheep Transparencies

This is a set of 50 overhead transparencies printed in colored ink on clear plastic. It includes many different aspects of sheep production. Also included is a white paper copy of each frame with text on the back.

T140 Transparency Set, 50 fr. $ 16.70

SMALL ANIMALS AND COMPANION ANIMALS

Subject-Matter Units, Test Questions & Teacher’s Keys

U1050 Rabbit Raising, 12p $ .70
U1052 Caring for the Small Laying Flock, 8p .45
U1062 Feeding and Care of Dogs, 16p .90

Slidefilms, Slide Sets, Study Guides, Cassette Tapes

Breeds of Dogs: Part I and Part II

Two dog breed identifications slidefilms (or slide sets) are available. In addition to color photographs, origin, height, weight, and desirable color markings are given for each breed. Part I (76 frames) includes sporting dogs, hounds and terriers. Part II (80 frames) includes working dogs, herding dogs, toy dogs, and nonsporting dogs.

F190-1 Slidefilm, Part I, 76 fr., w/study guide $ 16.45
F190-2 Slidefilm, Part II, 80 fr., w/study guide 17.20
S190-1 Slide Set, Part I, 76 fr., w/study guide 26.45
S190-2 Slide Set, Part II, 80 fr., w/study guide 27.80
MFI190-1 Breeds of Dogs (Parts I & II) $ 26.90
MS190-1 Breeds of Dogs (Parts I & II) 43.35

Special series price

* Cassette Tapes of study guides are available at an additional cost of $3.85.
SWINE

Subject-Matter Units, Test Questions & Teacher's Keys

U1029a  The Swine Enterprise, 8p  $ .45
Q1029a  Test Questions, pkg. of 10  1.10
K1029a  Teacher's Key for Q1029a  .55
U1033b  Selecting and Purchasing Hogs, 8p  .45
Q1033b  Test Questions, pkg. of 10  1.10
K1033b  Teacher's Key for Q1033b  .55
U1034a  Caring for the Swine Herd During Breeding & Gestation, 4p  25
U1036a  Caring for the Sow & Litter at Farrowing Time, 8p  45
U1037a  Swine Feeds and Feeding, 16p  1.10
U1037b  Test Questions, pkg. of 10  1.10
K1037a  Teacher's Key for Q1037a  .55
K1037b  Teacher's Key for Q1037b  .55
U1039a  Caring for the Swine Herd During Breeding & Gestation, 4p  1.10
U1045a  Swine Feeds and Feeding, 16p  1.10
U1054  Feed Rations for Swine, 28p  1.55

Slidefilms, Slide Sets, Study Guides, Cassette Tapes

Breeds of Swine

This 52-frame slide set (or slidefilm) illustrates and briefly discusses the following nine breeds of swine: Berkshire, Chester White, Duroc, Hampshire, Landrace, Poland China, Spotted Poland China, Tamworth, and Yorkshire

F164a  Slidefilm, 52 fr.  $ 10.30
S164a  Slide Set, 52 fr.  17.15

Duroc Swine Judging Classes

This 30-frame slide set (or slidefilm) illustrates and discusses two rings of Duroc hogs. It presents two views of each animal as well as group pictures along with placings and official reasons.

F171-1.1  Slidefilm, 30 fr.  $ 5.95
S171-1.1  Slide Set, 30 fr.  9.90

Digestion in Swine

This 47-frame slidefilm illustrates the step-by-step digestion process taking place in swine beginning with the mouth and ending with the large intestine.

F170 Slidefilm, 47 fr.  $ 9.30

Swine Transparencies

This is a set of 40 overhead transparencies printed in colored ink on clear plastic. It includes many different aspects of swine production. Also included is a white paper copy of each frame with text on the back.

T160  Transparency Set, 40 fr.  $ 17.05

Additional study guides are available at a cost of $1.40 each.
Swine Rations

This is a set of 40 transparencies with study guide covering the major aspects of feeding swine. Included are the basic factors used in formulating rations for different classes of swine, suggested baby pig, growing, finishing, and sow rations, and a step-by-step procedure for balancing rations.

T161  Transparency Set, 40 fr., w/study guide  $ 17.05

MISCELLANEOUS

Subject-Matter Units, Test Questions & Teacher's Keys

U1026a  Digestion in Animals, 4p  $ .25
U1032  Castrating, Docking & Dehorning, 8p  .45
U1053  Using Rope in Animal Agriculture, 12 p  .70
U1058  Animals in World Agriculture, 20p  1.10
U1059  Livestock Waste Management, 20 p  1.10

Slidefilms, Slide Sets, Study Guides, Cassette Tapes

Preventing Transportation Losses of Livestock

This 33-frame slidefilm illustrates and discusses, through cartoons, the causes and means of preventing bruises on livestock due to transportation.

F186a  Slidefilm, 33 fr.  $ 6.55

Introduction to Livestock Waste Management

This comprehensive packet of materials includes a discussion of the following topics: livestock waste overview, livestock waste terminology, livestock waste collection and storage, livestock waste field applications, waste handling systems available, and personal safety. The following items are individually available.

F1109  Slidefilm, 83 fr., w/study guide*  $ 17.80
S1109  Slide Set, 83 fr., w/study guide*  28.75
U1109  Booklet, 24p  1.30
Q1109  Test Questions, pkg. of 10  1.65
K1109  Teacher's Key for Q1109, 8p  1.10

Good Animal Waste Management Prevents Pollution

F1103  Slidefilm, 29 fr., w/study guide*  $ 6.95

OTHER MATERIALS

Approved Practices

A100  Approved Practices for Beef, 8p  $ .45
A140  Approved Practices for Sheep, 8p  .45
A160  Approved Practices for Swine, 8p  .45
A200  Approved Practices for Dairy, 8p  .45

*Cassette Tapes of study guides are available at an additional cost of $3.85.
# AGRIBUSINESS MANAGEMENT

## Subject-Matter Units, Test Questions, Teacher's Keys

<table>
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<th>Code</th>
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<th>Pages</th>
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<tr>
<td>U6004</td>
<td>Agricultural Business Procedures, 32p</td>
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<td>U6006</td>
<td>Simplifying Work in an Agricultural Business, 28p</td>
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<td>U6007</td>
<td>Agricultural Credit Instruments, 12p</td>
<td></td>
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<tr>
<td>U6008</td>
<td>Customer Credit Management in Agricultural Business, 12p</td>
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<td>U6009</td>
<td>What Factors Affect Prices of Agricultural Products?, 12p</td>
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<td>U6010</td>
<td>Inventory Management &amp; Control, 8p</td>
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<td>U6012</td>
<td>Planning to Meet Cash Requirements, 8p</td>
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<td>U6014</td>
<td>Common Ways of Organizing a Business, 8p</td>
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<td>U6018</td>
<td>Establishing Prices for Meat Animals, 12p</td>
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## Slidefilms, Slide Sets, Study Guides, Cassette Tapes

### Managing for Profit Series

This 6-slidefilm series outlines the major points in managing an agricultural business in a sequential order. F301-1 presents an overview of the management process and discusses the various types of organizational structures. F301-2 identifies management styles and looks at tasks involved in directing the business. F301-3 outlines planning procedures and policies and the steps in planning. F301-4 deals with the management needed to coordinate the activities of the business. F301-5 discusses the communication necessary to motivate employees to achieve business goals. F301-6 explains the principles of control, including delegating of duties, eliminating unneeded reports and paperwork, and evaluating progress toward goal achievement.

<table>
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<td>F301-1</td>
<td>Organizing the Business, 65 fr., w/study guide*</td>
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<td>F301-2</td>
<td>Directing the Business, 40 fr., w/study guide*</td>
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<td>F301-3</td>
<td>Planning the Business, 49 fr., w/study guide*</td>
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<td>F301-4</td>
<td>Coordination, 51 fr., w/study guide*</td>
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<td>F301-5</td>
<td>Communication and Motivation, 58 fr., w/study guide*</td>
<td>12.90</td>
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<td>F301-6</td>
<td>Business Control, 61 fr., w/study guide*</td>
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**Special series price**

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<tr>
<td>MF301-1</td>
<td>Managing for Profit Series (6 slidefilms)*</td>
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### Agribusiness Selling Series

This series of 6 slidefilms outlines the steps necessary to determine a competitive price for products sold by agricultural businesses. F383 outlines the features to consider about the product itself. F384 discusses evaluating the competition for your product. F385 explains customer buying habits, pricing the product, and identifying the market for the product. F386 outlines the basic principles of display, design, and good arrangement when displaying the product. F387 discusses personal and nonpersonal selling, forms of advertising, and elements of an advertisement, including layout, headline, illustration, copy, and signature line. F388 explains how to do a cost analysis for a product and how to decide on a price.

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<td>F384</td>
<td>Product Competition, 43 fr., w/study guide*</td>
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<td>F385</td>
<td>A Market for Your Product, 44 fr., w/study guide*</td>
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<td>F386</td>
<td>Displaying Merchandise, 55 fr., w/study guide*</td>
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<td>F387</td>
<td>Advertising Your Product, 74 fr., w/study guide*</td>
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<td>F388</td>
<td>Product Cost Analysis/Pricing, 56 fr., w/study guide*</td>
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**Special series price**

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<tr>
<td>MF383</td>
<td>Agribusiness Selling Series (6 slidefilms)*</td>
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Additional study guides are available at a cost of $1.40 each.
HUMAN RELATIONS AND SALESMAINSHIP
Subject-Matter Units, Test Questions, Teacher’s Keys

| U6001b       | Applying for a Job, 12p | $ .70  |
| U6002       | Salesmanship in an Agricultural Business, 24p | 1.35  |
| U6003       | Human Relations in Agricultural Business, 12p | .70  |
| U6016       | Motivating Workers in an Agricultural Business, 8p | .45  |
| U6021       | International Agriculture Exchange & Work Opportunities, 16p | .90  |
| U6026       | Marketing Products and Merchandise in Agricultural Business, 28p | 1.55  |

Slidefilms, Slide Sets, Study Guides, Cassette Tapes
Salesmanship in Agricultural Business

This slidefilm deals with important aspects of selling in agricultural business. Topics include: Some Opportunities in Agricultural Business, The Salesman’s Role in Our Economy, Personal Qualities That Are Important, What a Salesman Must Know to Perform His Job, Opening a Sales Interview, Handling Objections Raised by a Prospect, and Closing a Sale.

F391 Slidefilm, 58 fr.  $ 9.20

Human Relations in Agricultural Business


F392 Slidefilm, 57 fr.  $ 9.00

COMPUTERS AND COMPUTER SOFTWARE
Subject Matter Units, Test Questions, Teacher’s Keys

| U6023       | Introduction to Computers in Agriculture, 12p | $ .70  |
| U6025       | Selecting Agricultural Computer Software, 12p | .70  |

Computer Programs

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<tr>
<td>CI02</td>
<td>Grain Information Program</td>
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<td>CI03</td>
<td>NUTRI-SWINE</td>
<td>195.00</td>
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<td>CI04</td>
<td>Fertilizer Templates, set of 3 (set includes Agricultural Plant Food Automatic Calculator, Turf Fertilization, Greenhouse Fertilizer Program)</td>
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<td>CI05</td>
<td>Agricultural Economic Programs (includes Crop Budget, Grain Price Projection, Feeding Livestock Budget, and Machinery Economic Decisions)</td>
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<td>CI06</td>
<td>Crops and Soils Programs (includes Crop Budget, Fertilizer Cost, Corn Nitrogen, Calibration of Field Sprayers, Grain Price Projection, and Soil Loss)</td>
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<td>CI07</td>
<td>Horticulture Programs (includes Lawn Planning and Greenhouse Heating)</td>
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<tr>
<td>CI08</td>
<td>Livestock Programs (includes Feeding Livestock Budget, Calf Weaning Weights, Pearson Square Instructions, Pearson Square Calculations, and Random Order of Sale)</td>
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<tr>
<td>MCP105</td>
<td>Complete set of CI05, CI06, CI07, CI08</td>
<td>160.00</td>
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Special series price

* Cassette Tapes of study guides are available at an additional cost of $3.85.
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<td>CP304</td>
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<th>IBM</th>
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<td>MCP405</td>
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| CP409            | Supervised Occupational Experience Programs | 62.50  |

NOTE: Additional copies of documentation for CP105, CP106, CP107, CP108, CP405, CP406, CP407, CP408, and CP409 are available at a cost of $1.40 each.

**MISCELLANEOUS**

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<tr>
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<tr>
<td>U6015 Using Arithmetic in Agriculture, 20p</td>
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<td>K6015 Teacher's Key to U6015</td>
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<tr>
<td>U6017 Using Insurance in the Farm Business, 12p</td>
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<td>U6024 Illinois Agriculture and Its Implications in the Economy, 28p</td>
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**AGRICULTURAL ECONOMICS**

**CREDIT AND FINANCIAL MANAGEMENT**

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<td>U2024b Using Credit to Increase Farm Earnings, 12p</td>
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<tr>
<td>U2025b Determining Credit Needs on the Farm, 12p</td>
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<td>Q2025b Test Questions, pkg of 10</td>
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<td>K2025b Teacher's Key for Q2025b</td>
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<td>U2026b Planning for Repayment of Loans, 20p</td>
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<td>U2027b Sources of Farm Credit, 12p</td>
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<td>K2027b Teacher's Key for Q2027b</td>
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<td>U2028b Factors Involved in the Borrowing Process, 8p</td>
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<td>Q2028b Test Questions, pkg. of 10</td>
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<td>U2033a Using Farm Real Estate Loans, 8p</td>
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Additional study guides are available at a cost of $1.40 each.
# FARM PLANNING

Subject-Matter Units, Test Questions, Teacher's Keys

<table>
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<tr>
<th>Code</th>
<th>Title</th>
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<tr>
<td>U2001b</td>
<td>Planning a Profitable Farm Business</td>
<td>4p</td>
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<tr>
<td>U2002b</td>
<td>Inventory Resources for Farm Planning</td>
<td>12p</td>
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<td>U2003b</td>
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<td>Field Arrangement Principles</td>
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<td>Choosing Specific Crops to Grow and Estimating Production</td>
<td>16p</td>
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<td>U2010b</td>
<td>The Soil Fertility Program--Economic Considerations</td>
<td>16p</td>
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<td>U2011a</td>
<td>Choosing the Type of Farm</td>
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<td>Balancing the Labor Supply and the Farm Business</td>
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<td>U2039a</td>
<td>Fitting Machinery and Equipment to the Farm</td>
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<td>U2043</td>
<td>Income Possibilities for Your Farm</td>
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Other Materials

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<tr>
<td>U310</td>
<td>Farm Management Manual</td>
<td>24p</td>
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<td>Z371</td>
<td>Income Possibilities on Your Farm</td>
<td>4p, form</td>
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<td>U371</td>
<td>Planning Your Farm Business</td>
<td>36p</td>
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<td>Q371</td>
<td>Problem Illustration for Planning Your Farm Business</td>
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<td>Z333-1</td>
<td>Key to Problem -- Planning Your Farm Business</td>
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<tr>
<td>Z353-1</td>
<td>Annual Financial Budget and Farm Income Statement</td>
<td>4p</td>
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<td>Q353</td>
<td>Annual Financial Planning Problem</td>
<td>pkg. of 10</td>
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<td>Z353-2</td>
<td>Net Worth Statement</td>
<td>4p, form</td>
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<td>Z372</td>
<td>Partial Budget Forms</td>
<td>set of 4</td>
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<td>Q372</td>
<td>Partial Budgets &amp; Break-Even Problems</td>
<td>8p</td>
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<td>K372</td>
<td>Key for Q372, 4p</td>
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# MARKETING AND BUSINESS MANAGEMENT

Subject-Matter Units, Test Questions, Teacher’s Keys

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<td>U2023a</td>
<td>Marketing Dairy Products</td>
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<td>Agricultural Business Management--Principles That Affect Production</td>
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<td>Calculating the Cost of Producing and Storing Corn</td>
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<td>U2046</td>
<td>Fundamentals of Marketing Agricultural Products</td>
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Slidefilms, Slide Sets, Study Guides, Cassette Tapes

Insurance in the Farm Business

This slidefilm discusses the major kinds of insurance coverages needed by farm operators, including life, fire, crop, liability, and hospitalization.

<table>
<thead>
<tr>
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<tr>
<td>F380a</td>
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</table>

Transparencies, Study Guides, Cassette Tapes

Grain Futures Transparencies

This set of 51 transparencies discusses how farmers can use futures markets. Major topics include: Essentials of Futures Contracts, Delivery Months, Settlement, Cash Markets, Futures Markets, and Margins and Commissions. Problems in the set illustrate pricing stored grains, growing crops and feed grains, and projecting prices.

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>T321</td>
<td>Transparency Set, 51 fr.</td>
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</tbody>
</table>

*Cassette Tapes of study guides are available at an additional cost of $3.85.
AGRICULTURAL ECONOMICS

RECORDS

Subject-Matter Units, Test Questions, Teacher’s Keys

U2008c  Record Keeping on the Farm, 12p  $ .70
U2009c  Using the Illinois Farm Record Book, 20p  1.10
U2037a  Setting Up Farm Records to Provide for Analysis, 12p  .70
Q2037a  Test Questions, pkg. of 10  1.10
K2037a  Teacher’s Key for Q2037a  .55
U2041a  Keeping Records of the Supervised Farming Program, 28p  1.55

Other Materials

Z315  Machine Hire Rates Based on Costs, 6p  $ .20
Q351  Problem for use with Illinois Farm Record Book (1982)  .20
K351  Key to Record Problem (1982)  .95
Z351-1  Practice Record Book for use with Problem Q351  1.55
Z352-1  Livestock Package, Analysis chart, 10 blank charts, tabulation sheet  .55
Z352-2  Crops Package, Analysis chart, 10 blank charts, tabulation sheet  .55
Z354  Standards for Measures of Efficiency for 1988, 8p  .45
  This item, based on FBFM records, provides standards for use in analyzing and evaluating student records.
Q358  Practice Problem for Use with the Record Book "Records of My supervised Experience Program," 13p  .85
K358  Teacher’s Key for Q358  1.10
Z373  Hedging Worksheet, pkg. of 10, with Key  1.65
Q398  Record Keeping Problem for Agribusiness Placement  .20
K398  Teacher’s Key for Q398  .85

MISCELLANEOUS

Subject-Matter Units, Test Questions, Teacher’s Keys

U2018d  Law for the Farmer, 28p  $ 1.55
Q2018d  Test Questions, pkg. of 10  1.10
K2018d  Teacher’s Key for Q2018d  .55
U2042  Land Surveys and Descriptions, 8p  .45
Q2042  Test Questions, pkg. of 10  1.10
K2042  Teacher’s Key for Q2042  .55
U2045  Water Use and Allocation Laws, 8p  .45

Other Materials

Q375  Review Questions for a Farm Business Management Contest, 32p  $ 1.65
K375  Instructor’s Key for Farm Business Management Contest
  Review Questions, 32p  1.65

Additional study guides are available at a cost of $1.40 each.
AGRICULTURAL MECHANICS

AGRICULTURAL MECHANICS SHOP

Subject-Matter Units, Test Questions, Teacher's Keys

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<td>U3005</td>
<td>Sharpening Hand Tools, 16p</td>
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<td>U3015</td>
<td>Spray Painting, 28p</td>
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<td>U3018</td>
<td>Air Compressors, 20p</td>
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<td>U3022a</td>
<td>Safety in the Shop, 32p</td>
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<td>Q3022</td>
<td>Student Safety Tests, 32p</td>
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<td>K3022</td>
<td>Teachers' Key for Q3022</td>
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<tr>
<td>U3023</td>
<td>Micrometers &amp; Related Measuring Tools, 8p</td>
<td>.45</td>
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<tr>
<td>U3044</td>
<td>A Color Code for Shop Safety, 12p</td>
<td>.70</td>
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<td>U3051a</td>
<td>Planning a Woodworking Project, 20p</td>
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<td>Q3051</td>
<td>Test Questions, pkg. of 10</td>
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<td>K3051</td>
<td>Teacher's Key for Q3051</td>
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Slidefilms, Slide Sets, Study Guides, Cassette Tapes

How To Use It Safely Slidefilm Series

These 7 slidefilms show how to safely use 6 of the most common power tools in the shop plus power lawn mowers. Safe operation is stressed along with instruction on how to perform the most common and useful operations with each tool. These are useful for every shop orientation class and as a refresher for more advanced students.

<table>
<thead>
<tr>
<th>Code</th>
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<tr>
<td>F460</td>
<td>The Jointer, 35 fr.</td>
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<td>F461</td>
<td>The Drill Press, 48 fr.</td>
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<td>F462</td>
<td>The Circular Saw, 57 fr.</td>
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<td>F463</td>
<td>The Power Grinder, 48 fr.</td>
<td>9.50</td>
</tr>
<tr>
<td>F464</td>
<td>The Radial Arm Saw, 61 fr.</td>
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<tr>
<td>F465</td>
<td>The Portable Electric Saw, 57 fr.</td>
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<tr>
<td>F498</td>
<td>Using the Power Lawn Mower Safely, 78 fr.</td>
<td>15.45</td>
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Transparencies, Study Guides, Cassette Tapes

Shop Tool Identification

This set of 24 transparencies includes artist's sketches of 171 common shop tools. The tools are arranged in 6 different categories: carpentry and woodworking, engine and machinery, metalworking, various construction skills, hand power, and horticulture. Detailed transparencies are included on Nail Hammers, Hand Saws, Brace and Bits, and Bench Planes. A 12-page study guide provides additional information about each tool identified.

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>T457</td>
<td>Transparency Set, 24 fr., w/study guide</td>
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</table>

Charts on Safety Rules

This set of 27 laminated 8 1/2 x 11" charts are designed to be placed at those strategic places in the shop where students need to be constantly reminded of the importance of working safely in the shop. Heavy black print is highly visible on bright yellow paper.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>Z490.1</td>
<td>General Shop</td>
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<tr>
<td>Z490.2</td>
<td>Everyone Must Wear Safety Glasses at all Times in Shop</td>
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<tr>
<td>Z490.3</td>
<td>Think Safety to be Safe</td>
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<tr>
<td>Z490.4</td>
<td>No Horseplay or Running in Shop</td>
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<tr>
<td>Z490.5</td>
<td>Tools Must be Returned &amp; Shop Cleaned After Each Class</td>
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<tr>
<td>Z490.20</td>
<td>Hand Tool</td>
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<tr>
<td>Z490.21</td>
<td>Electrical Equipment</td>
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<tr>
<td>Z490.22</td>
<td>Vehicle and Machinery Repair</td>
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<tr>
<td>Z490.23</td>
<td>Soldering and Sheet Metal Work</td>
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<tr>
<td>Z490.30</td>
<td>Portable Circular Saw</td>
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<td>Z490.31</td>
<td>Tilting Arbor Saw</td>
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<td>Z490.32</td>
<td>Radial Arm Saw</td>
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<td>Z490.33</td>
<td>Saber and Reciprocating Saw</td>
<td>1.10</td>
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* Cassette Tapes of study guides are available at an additional cost of $3.85.
AGRICULTURAL MECHANICS

Z490.34 Band Saw 1.10
Z490.35 Power Metal-Cutting Saw 1.10
Z490.40 Jointer 1.10
Z490.41 Router and Planer 1.10
Z490.42 Sander 1.10
Z490.43 Stationary Grinder 1.10
Z490.44 Portable Grinder 1.10
Z490.45 Drill Press 1.10
Z490.46 Portable Drill 1.10
Z490.60 Shielded Metal Arc Welder 1.10
Z490.61 Oxyfuel Welder 1.10
Z490.62 Inert Gas Shielded Arc Welder 1.10
Z490.63 Spot Welder 1.10
Z490.70 Gas Forge 1.10

Special series price  
M2490 Set of 27 Charts on Safety Rules $ 23.75

CARPENTRY AND CONSTRUCTION

Subject-Matter Units, Test Questions, Teacher’s Keys

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<th>Code</th>
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<tr>
<td>U3007a</td>
<td>Concrete Improvements for Farm &amp; Home, 28p</td>
<td>$1.55</td>
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<td>Test Questions, pkg. of 10</td>
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<td>K3007a</td>
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<td>U3009a</td>
<td>Using the Carpenter’s Square, 20p</td>
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<td>U3042</td>
<td>Recommended Practices for Building with Concrete Masonry, 16p</td>
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<td>U3035</td>
<td>Applying Asphalt Roofing &amp; Siding, 24p</td>
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<td>U3039</td>
<td>Glazing, 8p</td>
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<td>U3042</td>
<td>Plywood Applications in Farm Construction, 28p</td>
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<td>Metal Roofing &amp; Siding for Farm Structures, 16p</td>
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<td>How Can I Save Money and Energy by Insulating My Home?, 16p</td>
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<td>Paints and Painting, 20p</td>
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<td>U3055</td>
<td>Lumber: Grading, Selecting, Buying, Using, and Storing, 20p</td>
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<td>U3066</td>
<td>Designing, Installing, Maintaining and Repairing Plumbing Systems, 40p</td>
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<tr>
<td>U3060</td>
<td>Collecting and Using Solar Energy, 32p</td>
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Slidefilms, Slide Sets, Study Guides, Cassette Tapes

Electrical Wiring in Livestock Confinement Buildings

This program discusses the electrical wiring materials and techniques which must be used in this hostile environment. Equipment is discussed from the service entrance panel and wiring to the receptacles, switch boxes, and lights. This material is suitable for anyone interested in modern livestock buildings and electrical wiring materials, equipment, and practices.

F406 Slidefilm, 70 fr., w/study guide* $ 15.25
S406 Slide Set, 70 fr., w/study guide*  24.50

Additional study guides are available at a cost of $1.40 each.
AGRICULTURAL MECHANICS

Truss Construction—A Farm Shop Project

This 63-frame slidefilm presents a step-by-step procedure for constructing a truss in the shop which is properly designed to support the roof of the building.

F425 Slidefilm, 63 fr. $12.50

Transparencies, Study Guides, Cassette Tapes

Carpentry Transparency Series

These 2 sets of transparencies relate to the use of the steel square in the shop or on the job. Students who are planning a woodworking project in the shop will want to study these.

T422 Rafter Marking, 21 fr., w/study guide* $13.60
T423 Steel Square, 25 fr. 11.30

Lumber—Buying, Grading, Selecting, Storing and Using

This set of 50 transparencies is accompanied by a 20-page study guide. These transparencies may be used as a single resource or used with the related subject-matter unit U3055 which has the same title. Important definitions, illustrations, examples, and tables provide information the student needs to learn about lumber.

T426 Transparency Set, 50 fr., w/study guide* $20.90

Planning a Woodworking Project

This set of 34 transparencies is accompanied by a 12-page study guide. These transparencies are designed to supplement the related subject-matter unit, U3051a. All the important illustrations, tables, forms, and plans explained in the unit are included in the transparencies. These transparencies are especially useful when working with the beginning student.

T427 Transparency Set, 34 fr., w/study guide* $14.75

Collecting and Storing Solar Energy

This set of 45 transparencies is accompanied by a 16-page study guide. The material is based on U3060, Collecting and Using Solar Energy. T428 provides transparencies of the many illustrations in the first half of the unit. Among the topics discussed are types of collectors, how they work, how to store heat, how to position the collectors, and efficiency of solar collection.

T428 Transparency Set, 45 fr., w/study guide* $18.95

Using Solar Energy

This set of 34 transparencies, based on U3060, Collecting and Using Solar Energy, is accompanied by a 16-page study guide. Topics discussed include solar systems commonly used in homes and buildings, construction of solar collectors, and sources of additional information on this subject. This transparency set complements the set T428, Collecting and Storing Solar Energy.

T429 Transparency Set, 34 fr., w/study guide* $14.75

* Cassette Tapes of study guides are available at an additional cost of $3.85.
AGRICULTURAL MECHANICS

ELECTRICITY

Subject-Matter Units, Test Questions, Teacher's Keys

<table>
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<td>U3003b</td>
<td>Planning for Electrical Wiring</td>
<td>44p</td>
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<tr>
<td>U3012a</td>
<td>Electrical Hazards in Home, Farm, and Business</td>
<td>40p</td>
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<tr>
<td>U3016a</td>
<td>Electrical Wiring Procedures</td>
<td>28p</td>
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<td>Electrical Wiring Exercises</td>
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<td>U3038</td>
<td>Using Three-Phase Electrical Power on the Farm</td>
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<td>Applying Electrical Controls in Farm Production</td>
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<td>Z3057</td>
<td>Student Exercises for Controls Kit</td>
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<td>U3058</td>
<td>Selecting Electric Motors for Use in Agriculture</td>
<td>24p</td>
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<tr>
<td>U3059</td>
<td>Installing and Caring for Electric Motors in</td>
<td>28p</td>
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                                                                 Agriculture |

Slidefilms, Slide Sets, Study Guides, Cassette Tapes

Identification of Electrical Wiring Items

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<tr>
<td>F404c</td>
<td>Slidefilm, 66 fr.</td>
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Electric Motors Slidefilm Series

This series of 6 slidefilms includes basic scientific principles of magnetism and electricity related to both DC and AC electric motors. Practical procedures for testing, connecting, reversing, troubleshooting, cleaning, and maintaining electric motors are included in these slidefilms.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Pages</th>
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<tr>
<td>F412a</td>
<td>Magnetism and the DC Motor, 34 fr.</td>
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<tr>
<td>F413a</td>
<td>Induction and the AC Motor, 36 fr.</td>
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<td>F414a</td>
<td>Testing and Identifying Leads, Connecting and Reversing, 39 fr.</td>
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<td>F415a</td>
<td>Trouble Shooting, 64 fr.</td>
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<td>F416</td>
<td>Cleaning Electrical Motors, 46 fr.</td>
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<td>F417</td>
<td>Practical Maintenance of Electric Motors, 55 fr.</td>
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Transparencies, Study Guides, Cassette Tapes

Electricity Transparency Series

These 2 sets of transparencies are designed for use in a class involving electric wiring and electric motors. T400 contains 48 wiring exercises.

<table>
<thead>
<tr>
<th>Code</th>
<th>Item</th>
<th>Pages</th>
<th>Price</th>
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<tbody>
<tr>
<td>T400</td>
<td>Wiring Exercises, 52 fr.</td>
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<tr>
<td>T410</td>
<td>Electric Motors, 60 fr.</td>
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Other Materials

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<th>Item</th>
<th>Pages</th>
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<tbody>
<tr>
<td>Z401</td>
<td>Suggestions for Wiring 100-Amp. Service Entrance Box, 8p</td>
<td></td>
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<tr>
<td>Z3058</td>
<td>Suggestions to Teachers for Electrical Controls Kit</td>
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MACHINERY

Subject-Matter Units, Test Questions, Teacher's Keys

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tr>
<td>U3021a</td>
<td>Row-Crop Planters</td>
<td>48p</td>
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<tr>
<td>U3047</td>
<td>Introduction to Combines</td>
<td>12p</td>
<td>0.70</td>
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<tr>
<td>U3048</td>
<td>Combines—Selecting and Servicing</td>
<td>16p</td>
<td>0.90</td>
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<tr>
<td>U3049</td>
<td>Combines—Reducing Harvesting Losses</td>
<td>28p</td>
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Additional study guides are available at a cost of $1.40 each.
**AGRICULTURAL MECHANICS**

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### Slidefilms, Slide Sets, Study Guides, Cassette Tapes

**Calibration of Pesticide Application Equipment Series**

These slidefilms are also available as slide sets and each is accompanied by a study guide. Also available is a reference manual, a booklet of sample problems, an instructor's key, and a cassette tape of each study guide. Topics stressed are determining amounts of pesticides to apply per acre, selection of nozzles and tip size, calibration, measuring ground speed, determining the amount of pesticide to add to the spray tank, and safety.

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**SLIDEFILMS — with study guides**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tr>
<td>F444-1</td>
<td>Calibration of Low-Pressure Field Sprayers, 80 fr.*</td>
<td>$17.20</td>
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<tr>
<td>F444-2</td>
<td>Calibration of Granular Applicators, 62 fr.*</td>
<td>13.65</td>
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<tr>
<td>F444-3</td>
<td>Calibration of High-Capacity Flotation Sprayers, 80 fr.*</td>
<td>17.20</td>
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<tr>
<td>F444-4</td>
<td>Calibration of Commercial Pesticide Application Equipment for Ornaments &amp; Turfgrass, 80 fr.*</td>
<td>17.20</td>
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<tr>
<td>F444-5</td>
<td>Calibration of Homeowner Chemical Application Equipment, 74 fr.*</td>
<td>16.05</td>
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<tr>
<td>F444-6</td>
<td>Calibration of Equipment for Applying Pesticides on Rights-of-Way and Other Noncrop Areas, 62 fr.*</td>
<td>13.65</td>
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<td>F444-7</td>
<td>Calibration of Air-Carrier Sprayers, 41 fr.*</td>
<td>9.55</td>
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**SLIDE SETS — with study guides**

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<td>S444-1</td>
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**MANUALS**

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<td>Calibration of High-Capacity Flotation Sprayers</td>
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<td>M444-4</td>
<td>Calibration of Commercial Pesticide Application Equipment for Ornaments and Turfgrass</td>
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<tr>
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<td>Calibration of Homeowner Chemical Application Equipment</td>
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<td>Calibration of Equipment for Applying Pesticides on Rights-of-Way and Other Noncrop Areas</td>
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<tr>
<td>M444-7</td>
<td>Calibration of Air-Carrier Sprayers</td>
<td>1.40</td>
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</table>

**NOTE:** Test Questions and Teacher's Keys for each of the above titles are available at an additional cost of $1.40 each.

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### Transparencies, Study Guides, Cassette Tapes

**Basic Principles of Hydraulics**

These 59 transparencies and an information packed 16-page study guide provide an excellent teaching tool. Emphasis is on hydraulic principles, basic formulas, pistons, pumps, valves, and design functions of hydraulic systems. This teaching aid is especially valuable in providing the student with an understanding of the basic principles of hydraulics.

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<thead>
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<td>T440</td>
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**Other Materials**

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<tr>
<td>Z3049.1</td>
<td>Measuring Harvesting Losses—Corn, pkg. of 10</td>
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<td>Z3049.2</td>
<td>Measuring Harvesting Losses—Soybeans, pkg. of 10</td>
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</tr>
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<td>Z3049.3</td>
<td>Measuring Harvesting Losses—Small Grain, pkg. of 10</td>
<td>$0.90</td>
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* Cassette Tapes of study guides are available at an additional cost of $3.85.
SMALL ENGINES

Subject-Matter Units, Test Questions, Teacher's Keys

U3014 Small Engines—Principles of Operation, Trouble-Shooting & Tune-Up, 16p $ 90
U3019 Small Engines—Repair and Overhaul, 20p 1.10
U3020 The Two-Cycle Engine, 20p 1.10

Slidefilms, Slide Sets, Study Guides, Cassette Tapes

Small Engine Parts and Functions—FUEL AIR INDUCTION

These 80 frames, available either as a slide set or slidefilm, are accompanied by a 16-page study guide. The parts of the small engine which are used in the process of fuel-air induction are pictured and their function in the process is explained. The last section of the program consists of pictures of the parts for identification by the students with an answer key provided in the final frames. This material should be especially useful for introducing beginning students to small engine fuel-air induction.

F486-1 Slidefilm, 80 fr., w/study guide* $ 17.20
S486-1 Slide Set, 80 fr., w/study guide* 27.80

Small Engine Parts and Functions—COMPRESSION

These 80 frames, available either as a slide set or slidefilm, are accompanied by a 16-page study guide. The parts of the small engine which are associated with compression are pictured and their function in the process is explained. The format is the same as the material on the fuel-air induction in 486-1, with pictures provided for identification by the students, and the last frames providing an answer key. This material should be especially useful for introducing beginning students to small engine compression.

F486-2 Slidefilm, 80 fr., w/study guide* $ 17.20
S486-2 Slide Set, 80 fr., w/study guide* 27.80

Transparencies, Study Guides, Cassette Tapes

Small Gas Engines

This transparency set explains basic principles of small engine operation, repair and overhaul, and maintenance.

T489 Transparency Set, 50 fr. $ 20.90

SURVEYING

Subject-Matter Units, Test Questions, Teacher's Keys

U2042 Land Surveys and Descriptions, 8p $ .45
Q2042 Test Questions, pkg. of 10 1.10
K2042 Teacher's Key for Q2042 .55
U3010a Agricultural Surveying, 24p 1.35

Additional study guides are available at a cost of $1.40 each.
AGRICULTURAL MECHANICS

Slidefilms, Slide Sets, Study Guides, Cassette Tapes

Surveying Series

This series of 4 films presents information in color photographs, illustrations, and diagrams on using the steel tape, the level, taking field notes, and staking out a building.

SLIDEFILMS

F436a Using the Steel Tape in Surveying, 36 fr. $7.15
F437a Recording Field Notes for Surveying, 41 fr. 8.15
F438a Using the Level in Farm Surveying, 79 fr. 15.60
F439a Staking Out a Building Site, 33 fr. 6.55

SLIDE SETS

S436a Using the Steel Tape in Surveying, 36 fr. $11.90
S437a Recording Field Notes for Surveying, 41 fr. 13.55
S438a Using the Level in Farm Surveying, 79 fr. 26.05
S439a Staking Out a Building Site, 33 fr. 10.90

Other Materials

Z436 Field Book for Surveying Notes $0.55

TRACTORS AND LARGE ENGINES

Subject-Matter Units, Test Questions, Teacher’s Keys

U3008 Farm Tractor Tune-Up, 12p $0.70
U3013a Storing, Handling, and Using Fuels Safely, 16p .90
U3025 Engine Compression & Cylinder Leakage Testing, 16p .90
Q3025 Test Questions, pkg. of 10 1.10
K3025 Teacher’s Key for Q3025 .55
U3028 The Ignition System—Testing and Analyzing Test Results, 28p 1.55
U3030 The Engine Cooling System, 24p 1.35
U3032 Electrical Fundamentals Useful in Engine Analysis, 20p 1.10
U3040 Preventing Tractor Overturns, 20p 1.10

Slidefilms, Slide Sets, Study Guides, Cassette Tapes

Operator Responsibility for Diesel Engine Maintenance

These 62 frames, available as either a slidefilm or as a slide set, offer information on diesel fuel selection and storage and use of starting aids. Lubrication, air filter, and fuel system servicing procedures are examined. Also included is a section on proper diesel tractor operation.

F485 Slidefilm, 62 fr. $12.25
S485 Slide Set, 62 fr. 20.45

Diesel Engine Pump and Injection nozzle Series

Four slide programs on diesel injector nozzles are available. These are useful for any class involved in the study of diesel engines.

S486.12 Removing Diesel Injection Nozzles, 20 fr. $6.60
S486.13 Servicing Diesel Injection Nozzles, 29 fr. 9.55
S486.14 Testing Diesel Injection Nozzles, 24 fr. 7.90
S486.15 Types of Diesel Injection Nozzles, 14 fr. 4.60

* Cassette Tapes of study guides are available at an additional cost of $3.85.
AGRICULTURAL MECHANICS

Transparencies, Study Guides, Cassette Tapes

Tractor Safety

This set of 40 transparencies may be used with any class studying tractor safety.

T485 Transparency Set, 40 fr. $17.05

WELDING AND METALWORK

Subject-Matter Units, Test Questions, Teacher’s Keys

U3001a Oxyacetylene Welding and Cutting, 28p $1.55
U3002a Cold Metal Work, 24p 1.35
Q3002a Test Questions, pkg. of 10 1.10
K3002a Teacher’s Key for Q3002a .55
U3004a Shielded Metal-Arc Welding, 48p 2.65
U3027 Soldering for Home, Farm and Shop Applications, 24p 1.35
U3086 Tungsten Inert Gas (TIG) Welding, 32p 1.80
U3087 Metal Inert Gas (MIG) Welding, 44p 2.45
U3041 Ferrous Metals—Properties, Identification, and Treatment, 28p 1.55
U3043 Hot Metal Work, 20p 1.10

Slidefilms, Slide Sets, Study Guides, Cassette Tapes

Oxyacetylene Welding Series

This is a series of 12 programs available either as slidefilms or slide sets. They may be purchased separately or as a complete teaching package for oxyacetylene welding and cutting instruction.

SLIDEFILMS -- Oxyacetylene
F454a Equipment and Processes, 61 fr.* $12.10
F455a Equipment and Safe Practices, 93 fr.* 18.45
F456a Equipment Setting Up, 57 fr.* 11.30
F471 Lighting and Adjusting the Flame, 42 fr.* 8.30
F472 Manual and Machine Cutting, 70 fr.* 13.85
F473 Bronze Welding, 63 fr.* 12.50
F474 Fusion Welding Steel, 74 fr.* 14.70
F475 Hard Facing, 50 fr.* 9.90
F476 Using Powder Braze Torch, 43 fr.* 8.55
F477 Aluminum Welding, 49 fr.* 9.70
F478 Silver Brazing, 52 fr.* 10.30
F479 Equipment Maintenance, 58 fr.* 11.50

SLIDE SETS -- Oxyacetylene
S454a Equipment and Processes, 61 fr.* $20.15
S455a Equipment and Safe Practices, 93 fr.* 30.70
S456a Equipment Setting Up, 57 fr.* 18.80
S471 Lighting and Adjusting the Flame, 42 fr.* 13.85
S472 Manual and Machine Cutting, 70 fr.* 23.10
S473 Bronze Welding, 63 fr.* 20.80
S474 Fusion Welding Steel, 74 fr. 24.40
S475 Hard Facing, 50 fr.* 16.50
S476 Using Powder Braze Torch, 43 fr.* 14.20
S477 Aluminum Welding, 49 fr.* 16.15
S478 Silver Brazing, 52 fr.* 17.15
S479 Equipment Maintenance, 58 fr.* 19.15

MF454a Oxyacetylene Welding Series (12 slidefilms, 6 cassettes) 112.75
MS454a Oxyacetylene Welding Series (12 slide sets, 6 cassettes) 176.00

Additional study guides are available at a cost of $1.40 each.
Arc Welding Slidefilm Series

The first 3 of these 4 slidefilms are available only as a complete set. Safety of operation is stressed while covering the welding equipment and processes for shielded metal arc welding (SMAW). Flat, vertical, horizontal, and overhead welding positions are introduced, explained, and illustrated.

- F450 Process, Equipment and Safety, 45 fr.
- F451 Flat Position Welding, 63 fr.
- F452 Vertical, Horizontal, and Overhead Position, 34 fr.
- MF450 Complete set of above 3 slidefilms $ 28.10
- F470 Care and Maintenance of Arc Welding Equipment, 56 fr. 11.10

Transparencies, Study Guides, Cassette Tapes

Arc Welding Transparencies

- T450 Shielded Metal-Arc Welding, 80 fr. $ 32.45
- T454 Inert Gas Welding, 65 fr. 26.70

MISCELLANEOUS

Slidefilms, Slide Sets, Study Guides, Cassette Tapes

Energy Challenges and Choices, Part I: Energy Use and Supply

The 46 frames are available either as a slidefilm or slide set and are accompanied by a 12-page study guide. Present sources and potential future sources of energy are explored in this film. The student is introduced to the concepts of energy conservation and energy management. The study guide contains a checklist which may be used to review the home for energy efficiency.

- F411-1 Slidefilm, 46 fr., w/study guide* $ 10.50
- S411-1 Slide Set, 46 fr., w/study guide* 16.55

Energy Challenges and Choices, Part II: Home Energy Management

These 80 frames are available either as a slidefilm or slide set and are accompanied by a study guide. The primary focus of this program is efficient use of energy in the home from design features, construction practices, and appliance selection and use.

- F411-2 Slidefilm, 80 fr., w/study guide* $ 17.20
- S411-2 Slide Set, 80 fr., w/study guide* 27.80

CONTEST MATERIALS

Agricultural Mechanics Contest registration cards are listed in the MISCELLANEOUS section under Judging Materials.

*Cassette Tapes of study guides are available at an additional cost of $3.85.
FLORICULTURE

Subject-Matter Units, Test Questions, Teacher’s Keys

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<tr>
<td>U5006a</td>
<td>Producing Plants by Asexual Propagation</td>
<td>20p</td>
<td>$1.10</td>
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<tr>
<td>U5007</td>
<td>Growing Plants Indoors</td>
<td>12p</td>
<td>$.70</td>
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<tr>
<td>U5010a</td>
<td>Growing Flowering Annuals</td>
<td>24p</td>
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<tr>
<td>Q5010a</td>
<td>Test Questions, pkg. of 10</td>
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<td>K5010a</td>
<td>Teacher’s Key for Q5010a</td>
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<tr>
<td>U5011</td>
<td>Poinsettias, Care and Propagation</td>
<td>8p</td>
<td>$.45</td>
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<td>U5013</td>
<td>Producing Poinsettias Commercially</td>
<td>12p</td>
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<td>U5017a</td>
<td>Careers in the Retail Flower Shop Business</td>
<td>8p</td>
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<td>Care of Flowering Pot Plants in the Home</td>
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<td>Reblooming Flowering Gift Plants</td>
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<td>U5023</td>
<td>Soils for Plant Growth--Amendments for Container Soils</td>
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<tr>
<td>U5024</td>
<td>Soils for Plant Growth--Standardized Growing Media</td>
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<td>Preparing Plant Materials for Dried Arrangements</td>
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Slidefilms, Slide Sets, Study Guides, Cassette Tapes

Identifying Coniferous Trees

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<tr>
<td>F504</td>
<td>Slidefilm, 59 fr.</td>
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Introduction to Plant Propagation by Tissue Culture

Introduces the viewer to the concept of growing plants by tissue culture, a relatively new plant propagation method. Supplies, equipment, and techniques used in tissue culture are described. Conditions required to maintain established cultures are also discussed. Film and script explain in common terminology various aspects of these innovative procedures used by plant propagators and researchers.

<table>
<thead>
<tr>
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<tr>
<td>F600-1</td>
<td>Slidefilm, 61 fr., w/study guide*</td>
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<td>Slide Set, 61 fr., w/study guide*</td>
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Garden Flowers, Annuals--Part I and Part II

Shows annual garden flowers in color and gives cultural information. Practice sets are useful for review and testing.

<table>
<thead>
<tr>
<th>Code</th>
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<td>F601</td>
<td>Slidefilm, Part I, 50 fr.</td>
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<tr>
<td>MF601</td>
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<td>MS601</td>
<td>Garden Flowers--Annuals (2 slide sets)</td>
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Diseases of Garden Flowers

Provides information needed for identification and control of common diseases of garden flowers.

<table>
<thead>
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<th>Price</th>
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<tr>
<td>F604</td>
<td>Slidefilm, 78 fr., w/study guide*</td>
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<td>S604</td>
<td>Slide Set, 78 fr., w/study guide*</td>
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</table>

Additional study guides are available at a cost of $1.40 each.
Design Materials: Cut Flowers and Foliage

In 64 frames, the viewer is introduced to popular cut flowers and foliage by common and scientific names. The script gives information on colors, sizes, seasons of availability, and keeping or lasting quality.

F605 Slidefilm, 64 fr., w/study guide* $14.05
S605 Slide Set, 64 fr., w/study guide* 22.50

Design Techniques: Rose Corsage Construction

This 41-frame film describes in detail the construction of a rose (or carnation) corsage, from selection of plant material and supplies to preparing components and assembly of the corsage. Wiring and taping, plus flower and bow placement are illustrated.

F606-1 Slidefilm, 41 fr., w/study guide* $9.50
S606-1 Slide Set, 41 fr., w/study guide* 14.95

Wiring and Taping Flowers and Foliage

In 33 frames, methods are explained for replacing or reinforcing natural plant stems with artificial ones. Common wire sizes, special wiring aids, wiring techniques, taping, and using picking machines are illustrated as common techniques used by floral designers when arranging plant materials.

F606-2 Slidefilm, 33 fr., w/study guide* $7.90
S606-2 Slide Set, 33 fr., w/study guide* 12.30

Preserving Flowers and Foliage

Several methods of drying and processing flowers and foliage are described; included are pressing, air drying, burying, and glycerinating. The microwave oven is featured as an aid to burying-type drying. Photographs of flowers and foliage that preserve well are accompanied by a guide to appropriate drying methods.

F607 Slidefilm, 65 fr., w/study guide* $14.25
S607 Slide Set, 65 fr., w/study guide* 22.85

Foliage Plant Identification Series

Illustrates foliage plants with color photos and identifies them by common and scientific names. Includes cultural details such as light, temperature, location, soil, and watering. Practice sets are suitable for review and testing.

F610 Slidefilm, Part I, 49 fr. $9.70
F610(Supp) Slidefilm—practice set for F610, 39 fr. 7.70
F611 Slidefilm, Part II, 49 fr. 9.70
F611(Supp) Slidefilm—practice set for F611, 39 fr. 7.70
F612 Slidefilm, Part III, 55 fr. 10.90
F612(Supp) Slidefilm—Practice set for F612, 39 fr. 7.70
S610 Slide Set, Part I, 49 fr. 16.15
S611 Slide Set, Part II, 49 fr. 16.15
S612 Slide Set, Part III, 55 fr. 18.15

MF610 Foliage Plant Identification Series (6 slidefilms) 43.55
MS610 Foliage Plant Identification Series (3 slide sets) 40.35

* Cassette Tapes of study guides are available at an additional cost of $3.85.
House Plant Care Series

Describes sound horticultural practices for care of hanging baskets and flowering plants. Perfect for introducing students to indoor horticulture.

SLIDEFILMS

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<tr>
<td>F613</td>
<td>Planting and Care of Hanging Baskets, 66 fr.</td>
<td>$13.10</td>
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<td>F614-1</td>
<td>Care of Flowering Plants, 82 fr.</td>
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SLIDE SETS

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<td>S613</td>
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<td>S614-1</td>
<td>Care of Flowering Plants, 82 fr.</td>
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Herbaceous Perennials

Includes habit photographs of 30 herbaceous perennials, plus close-up photos of flowers. Notes on culture and use of plants are provided.

F655 Slidefilm, 77 fr., w/study guide $16.65
F655(Supp) Slidefilm—practice set for F655, 47 fr. 9.30
S655 Slide Set, 77 fr., w/study guide 26.80
S655(Supp) Slide Set—practice set for S655, 47 fr. 15.50

Greenhouses—Uses and Design

Shows various types of greenhouses, including even-span and lean to. Greenhouse coverings and bench arrangements are described.

F680 Slidefilm, 44 fr. $8.70

Soils for Plant Growth Series

Explains the physical characteristics of soil and how they affect plant growth, in the field and in containers. Describes soil amendments to improve soil physical properties so optimum plant growth conditions are achieved.

SLIDEFILMS — with study guides

<table>
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<td>F690-1</td>
<td>Air and Water in Soils, 39 fr.*</td>
<td>$9.15</td>
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<tr>
<td>F690-2</td>
<td>Container Soils, 42 fr.*</td>
<td>9.70</td>
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<td>F690-3</td>
<td>Modifying Container Soils, 35 fr.*</td>
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MF690-1 Soils for Plant Growth Series (3 slidefilms)* 21.65

Transparencies, Study Guides, Cassette Tapes

The Principles of Floral Design Transparencies

Explains design elements used in every good floral design. Emphasized are various major floral design principles, including Proportion, Balance, Rhythm, and Dominance. Radiation, repetition, transition, variety, and contrast are explained as minor design principles. Principles and techniques are illustrated by floral drawings, as well as abstract shapes and forms.

T620 Transparency Set, 42 fr., w/study guide $17.80

Special series price

Additional study guides are available at a cost of $1.40 each.
FRUITS

Subject-Matter Units, Test Questions, Teacher's Keys

U4043   Pruning Fruit Trees, 8p                           $  .45
U5026   Growing Raspberries and Blackberries in the Midwest, 16p        .90
U5027   Growing Strawberries, 28p                              1.55
U5027(Suppl)   Strawberry Cultivars, 8p (color)           1.40
U5028   Growing Blueberries, 20p                             1.10
U5029   Growing Grapes, 24p                                  1.35

Slidefilms, Slide Sets, Study Guides, Cassette Tapes

Strawberry Production

A thorough overview of strawberry production. Choosing and ordering of plants, choosing a training system, site selection, and soil preparation are described. Planting, first growing season operations, second growing season care, and renovation are depicted by 40 photos and many line drawings.

F692   Slidefilm, 76 fr., w/study guide*                   $ 16.45
S692   Slide set, 76 fr., w/study guide*                   26.50

LANDSCAPING AND LANDSCAPE MATERIALS

Subject-Matter Units, Test Questions, Teacher's Keys

U5001a  Trees for Landscaping (with 8-page color insert), 44p    $  3.30
U5002a  Transplanting Trees, 16p                             .90
U5003   Fertilizing and Watering Shade and Ornamental Trees, 12p  .70
U5004a  Controlling Plant Growth, 20p                        1.10
U5005b  Controlling Tree and Shrub Insects, 28p              1.55
Q5005b  Test Questions, pkg. of 10                          1.10
K5005b  Teacher's Key for Q5005b                           .55
U5014   Growing Lilies, 20p                                 1.10
U5021   Identifying Tree and Shrub Insects, 16p              .90
Q5021   Test Questions, pkg. of 10                          1.10
K5021   Teacher's Key for Q5021                            .55
U5022   Using Coniferous Evergreens in a Landscape, 32p      1.80
U5034   Vines for Landscaping, 40p                           2.20
U5037   Plant Hardiness, 12p                                .70

Slidefilms, Slide Sets, Study Guides, Cassette Tapes

Objectives of Pruning Deciduous Trees

Gives reasons and specific directions for pruning many common landscape plants.

F615   Slidefilm, 58 fr., w/study guide*                     $ 12.85
S615   Slide Set, 58 fr., w/study guide*                     20.55

Introduction to Landscape Design

First in a three-part series, this 80-frame film introduces a step-by-step procedure for developing a good landscape plant. The film is arranged in 4 major subtopics: Site Analysis, Design Concepts, Design Elements, and Design Mechanics.

F621-1  Slidefilm, 80 fr., w/study guide*                    $ 17.20
S621-1  Slide Set, 80 fr., w/study guide*                    27.80

*Cassette Tapes of study guides are available at an additional cost of $3.85.
Creating a Design

This 81-frame film uses background information from 621-1 to lead the student into developing a design. Drawing mechanics are given special emphasis, as is Designing Walks and Driveways, Patios and Construction Materials, Patio Construction, Designing Planting Beds and Lawn Areas, Designing Fences and Storage, Maintaining Design Lines on the Ground, and Flowers and Roses in the Garden.

- F621-2 Slidefilm, 81 fr., w/study guide* $17.45
- S621-2 Slide Set, 81 fr., w/study guide* 28.10

Putting Plants Into the Design

In 81 frames, correct procedures for putting plants into the design are presented. Bed staking, edging, bed preparation, planting hole excavation, top pruning, root pruning, mulching, boulder and rock incorporation, tree staking and guying, bricks and pavers, and retaining walls are featured.

- F621-3 Slidefilm, 81 fr., w/study guide* $17.45
- S621-3 Slide Set, 81 fr., w/study guide* 28.10

Landscape Construction Series

A convenient collection of slide sets detailing construction of landscape components. From bed edging to patios, these films give practical and useful diagrams to aid in landscape construction.

- S626 Plan Interpretation, Surveying, Edging, Planning, Bed Preparation, 77 fr., w/study guide $26.80
- S627 Planting, Protecting Existing Features, 71 fr., w/study guide 24.80
- S628 Walks, Steps, Retaining Walls, 80 fr., w/study guide 27.80
- S629 Fencing, Patios, 73 fr., w/study guide 25.90
- S630 Mounds, Boulders, Statuary, Lighting, 74 fr., w/study guide 25.80
- S631 Structures, Seating, Play Areas, Containers, 81 fr., w/study guide 28.10
- S632 Water Features, Irrigation, Materials, 81 fr., w/study guide 28.10

MS626 Landscape Construction Series (7 slide sets) 149.50

Landscape Planting Plan Series

Each set in this series presents a landscape plan for a particular type of home, illustrates the plants recommended by the plan, and gives an alternative planting list.

SLIDEFILMS -- with study guides
- F642 Landscaping--Dos and Don'ts, 86 fr.* $18.40
- F625-1.1 Split-Level Home, 57 fr. 12.65
- F625-1.2 Two-Story Victorian Style Home, 21 fr. 5.55
- F625-1.3 One-Story Ranch Style Home, 29 fr. 7.15
- F625-1.4 Two-Story Cape Cod Home, 42 fr. 9.70
- F625-1.5 Early American Restored Home, 21 fr. 5.55
- F625-1.6 Two-Story Ranch Home, 37 fr. 8.70
- F625-1.7 Two-Story Colonial Home, 30 fr. 7.30

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- S625-1.4 Two-Story Cape Cod Home, 42 fr. 15.25
- S625-1.5 Early American Restored Home, 21 fr. 8.30
- S625-1.6 Two-Story Ranch Home, 37 fr. 13.60
- S625-1.7 Two-Story Colonial Home, 30 fr. 11.30

MF625-1.1 Landscape Planting Plan Series (8 slidefilms) 60.00

MS625-1.1 Landscape Planting Plan Series (8 slide sets) 94.00

Additional study guides are available at a cost of $1.40 each.
Tree Identification

Shows tree identification characteristics as line drawings, habit illustrations, and color photos. Includes information on culture and growth rate, as well as highlighting landscape potential.

S636  Slide Set, 200 fr.  $ 66.00

Dwarf Conifers

Describes the origin of dwarf conifers and their use in landscaping. Twenty-six dwarf conifers are illustrated and described in cultural terms.

F637  Slidefilm, 58 fr., w/study guide*  $ 12.85
S637  Slide Set, 58 fr., w/study guide*  20.55

Major Pruning of Trees

Describes pruning techniques such as repairing a broken leader and a split crotch. Emphasis is placed on pruning plant parts which have been damaged by ice, wind, insects, disease, and crossed branches.

F639  Slidefilm, 53 fr., w/study guide*  $ 11.90
S639  Slide Set, 53 fr., w/study guide*  18.90

Pruning Series

Gives reasons and specific directions for pruning many common landscape plants.

SLIDEFILMS – w/study guides
F643  Pruning Evergreens, 79 fr.*  $ 17.05
F644  Pruning Deciduous Shrubs, 45 fr.*  10.30
F645  Pruning Flowering Trees, 46 fr.*  10.50

SLIDE SETS – w/study guides
S643  Pruning Evergreens, 79 fr.*  $ 27.45
S644  Pruning Deciduous Shrubs, 45 fr.*  16.25
S645  Pruning Flowering Trees, 46 fr.*  16.50

MS643 Complete Series: 643, 644, 645*  30.30

Ground Covers and Their Uses

Suggests ground covers appropriate for specific areas or sites. Fifty ground covers are illustrated with photographs and their culture is described in detail. An excellent film to increase awareness of ground covers.

F646  Slidefilm, 60 fr., w/study guide  $ 13.25
S646  Slide Set, 60 fr., w/study guide  21.20

Establishing a Rhododendron Planting

Rhododendrons and azaleas are sometimes excluded from landscapes because they require special site preparations and cultural care. This film dispels some of the mysteries surrounding Rhododendron and give pointers for establishing and maintaining a vigorous planting. Soil amendments, planting guidelines, mulching, and post-planting care are described. Recommended cultivars for midwestern gardeners are listed.

F648-1  Slidefilm, 43 fr., w/study guide*  $ 9.90
S648-1  Slide Set, 43 fr., w/study guide*  15.60

* Cassette Tapes of study guides are available at an additional cost of $3.85.
Nursery/Landscape Plant Identification

These films are adapted from the VAS flash card set by the same name. On each frame, a color photograph and original line drawing depict habit and identification characteristics. Each plant is identified by scientific and common names. Sets marked Supp have no identifying names and are suitable for review or testing.

| NEW | F664  | Slidefilm, 116 fr. | $23.10 |
|     | F664(Supp) | Slidefilm, practice set for F664, 116 fr. | 23.10 |
| NEW | S664  | Slide Set, 116 fr. | 38.40 |
|     | S664(Supp) | Slide Set, practice set for S664, 116 fr. | 38.40 |

Plant Anatomy Series

Illustrates various types of pods, fruits, nuts, flowers, and inflorescences, using familiar examples. A basic introduction to floral and fruit structures.

SLIDEFILMS -- with study guides
F670-1 Identification of Pods, Fruits, and Nuts, 70 fr.* $15.25
F670-2 Identification of Flowers and Inflorescences, 73 fr.* 15.85

SLIDE SETS -- with study guides
S670-1 Identification of Pods, Fruits, and Nuts, 70 fr.* $24.50
S670-2 Identification of Flowers and Inflorescences, 73 fr.* 25.50

Special series price
MF670-1 Plant Anatomy Series (2 slidefilms)* 24.85
MS670-1 Plant Anatomy Series (2 slide sets)* 39.95

Landscape Design Series

Introduces aspects of good design, elements of design, considerations in planning, and specific types of design.

SLIDEFILMS -- with study guides
F620-1 Fundamental Aspects of Good Design, 99 fr.* $21.10
F620-2 Moods, Seasons, Soil and Water, 65 fr.* 14.25
F620-3 Considerations in Planning, 66 fr.* 14.45
F620-4 Small Properties, Naturalistic Landscapes and Patios, 67 fr.* 14.65

SLIDE SETS -- with study guides
S620-1 Fundamental Aspects of Good Design, 99 fr.* $34.10
S620-2 Moods, Seasons, Soil and Water, 65 fr.* 22.85
S620-3 Considerations in Planning, 66 fr.* 23.20
S620-4 Small Properties, Naturalistic Landscapes and Patios, 67 fr.* 23.50

Special series price
MF620-1 Landscape Design Series (4 slidefilms)* 51.50
MS620-1 Landscape Design Series (4 slide sets)* 82.85

Nursery Management Series

An overall view of nursery management, this series illustrates typical nursery operations, including mechanical and hand digging, transplanting, propagation, and packaging.

SLIDEFILMS
F641-1 Mechanical Digging of Trees and Shrubs, 74 fr. $14.65
F641-2 Hand Digging of Trees and Shrubs, 45 fr. 8.90
F641-3 Proper Transplanting of Trees, 55 fr., w/study guide* 12.25
F641-4 Care of Newly Planted Trees, 45 fr., w/study guide* 10.30
F684 Container Production of Nursery Stock, 66 fr. 13.10
F685-1 Propagation of Evergreens for Nursery Production, 53 fr. 10.50
F685-2 Propagation of Deciduous Shrubs for Nursery Production, 39 fr. 7.70
F686 Packaging of Trees and Shrubs, 77 fr. 15.25

Additional study guides are available at a cost of $1.40 each.
SLIDE SETS
S641-1 Mechanical Digging of Trees & Shrubs, 74 fr. $24.40
S641-2 Hand Digging of Trees & Shrubs, 45 fr. 14.85
S641-3 Proper Transplanting of Trees, 55 fr., w/study guide* 19.55
S641-4 Care of Newly Planted Trees, 45 fr., w/study guide* 16.25
S684 Container Production of Nursery Stock, 66 fr. 21.80
S685-1 Propagation of Evergreens for Nursery Production, 53 fr. 17.50
S685-2 Propagation of Deciduous Shrubs for Nursery Production, 39 fr. 12.85
S686 Packaging of Trees and Shrubs, 77 fr. 25.40

S641-2 Hand Digging of Trees & Shrubs, 45 fr. 14.85
S641-3 Proper Transplanting of Trees, 55 fr., w/study guide* 19.55
S641-4 Care of Newly Planted Trees, 45 fr., w/study guide* 16.25
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S685-1 Propagation of Evergreens for Nursery Production, 53 fr. 17.50
S685-2 Propagation of Deciduous Shrubs for Nursery Production, 39 fr. 12.85
S686 Packaging of Trees and Shrubs, 77 fr. 25.40

MF641-1 Nursery Management Series (8 slidefilms) 74.90
MS641-1 Nursery Management Series (8 slide sets) 122.05

Transparencies, Study Guides, Cassette Tapes

Landscape Construction Transparencies
A comprehensive series that shows construction details for fences, walls, earth features, driveways, sidewalks, patios lighting, and beds. Clear illustrations explain surveying, protecting existing features during construction, and tree planting procedures.

T617.1 Landscape Construction Accessories, 74 fr. $30.15
T617.2 Landscape Construction, 86 fr. 34.75
T617.3 Landscape Planting and Bed Preparation, 30 fr. 13.20

MT617.1 Landscape Construction Transparency Series (3 transparency sets) 62.50

Flash Cards

Nursery/Landscape Plant Identification
This set of 116 cards features glossy color photographs of 111 plants common to the nursery and landscape trades in the United States. On each card, an original line drawing illustrates branch, leaf, flower, and fruit characteristics so important in choosing the right plant for horticultural uses. Plants are identified and described on the back of each card. Practical cultural and landscape use information has been compiled from numerous references and authorities.

X664 Flash Cards, 116 cards $55.00

TURFGRASS

Subject-Matter Units, Test Questions, Teacher's Keys

U5008 Establishing A Lawn, 8p $0.45
U5015 Turfgrass Diseases and Their Control, 28p 1.55
U5016a Identifying and Controlling Lawn Insects, 20p 1.10
U5036 Maintaining a Weed-Free Lawn, 16p 90

Slidefilms, Slide Sets, Study Guides, Cassette Tapes

Lawn and Turfgrass Series
Reviews all basic steps in establishing and maintaining a healthy, attractive lawn. Identification of turfgrass and weeds, plus weed control are key features of this film series.

SLIDEFILMS -- with study guides
F650 Lawn Weeds—Identification and Control, 39 fr.* $9.15
F651a Steps to a Better Lawn, 85 fr.* 18.20
F652 Identifying Illinois Turfgrasses, 63 fr. 13.85

* Cassette Tapes of study guides are available at an additional cost of $3.85.
### HORTICULTURE

**SLIDE SETS — with study guides**
- S650  Lawn Weeds—Identification and Control, 39 fr.*  $14.30
- S651a Steps to a Better Lawn, 85 fr.*  $29.45
- S652  Identifying Illinois Turfgrasses, 63 fr.  $22.20
- S653  Seed Structure and Identification of Cool Season Turfgrasses, 61 fr.  $21.50

**MF650  Lawn and Turfgrass Series (3 slidefilms)**  $32.95
**MS650  Lawn and Turfgrass Series (4 slide sets)**  $69.85

### VEGETABLES

**Subject-Matter Units, Test Questions, Teacher’s Keys**
- U5030  Preparing for the Vegetable Garden, 12p  $ .70
- U5031  Planting the Vegetable Garden, 20p  $1.10
- U5032  Caring for the Vegetable Garden, 16p  $ .90
- U5033  Growing and Harvesting Herbs, 40p  $2.20

**Slidefilms, Slide Sets, Study Guides, Cassette Tapes**

**Diseases of the Vegetable Garden**
- F1108-2.3  Slidefilm, 72 fr., w/study guide*  $15.60
- S1108-2.3  Slide Set, 72 fr., w/study guide*  $25.15

### MISCELLANEOUS

**Subject-Matter Units, Test Questions, Teacher’s Keys**
- U5025  Careers in Horticulture, 16p  $ .90
- U5038  Horticultural Plant Names, 12p  $ .70

**Slidefilms, Slide Sets, Study Guides, Cassette Tapes**

**Insect Identification and Control Series**

Common household and horticultural pests are illustrated in this new series. Each pest is identified by photograph; life cycle and habits are described (including damage); and chemical and nonchemical controls are listed.

**SLIDEFILMS — with study guides**
- F654.1  Household Insects: Identification & Control, 80 fr.*  $17.35
- F654.2  Turf Insects: Identification & Control, 39 fr.*  $9.15
- F654.3  Vegetable Insects: Identification & Control, 80 fr.*  $17.35
- F654.4  Shade Tree & Woody Shrub Insects: Identification & Control, 78 fr.*  $16.95
- F654.5  Houseplant, Flower, & Fruit Insects: Identification & Control, 56 fr.*  $12.55

**SLIDE SETS — with study guides**
- S654.1  Household Insects: Identification & Control, 80 fr.*  $27.80
- S654.2  Turf Insects: Identification & Control, 39 fr.*  $14.30
- S654.3  Vegetable Insects: Identification & Control, 80 fr.*  $27.80
- S654.4  Shade Tree & Woody Shrub Insects: Identification & Control, 78 fr.*  $27.15
- S654.5  Houseplant, Flower, & Fruit Insects: Identification & Control, 56 fr.*  $19.90

**Special series price**
- MF654.1  Insect Identification & Control Series (5 slidefilms)*  $58.70
- MS654.1  Insect Identification & Control Series (5 slide sets)*  $93.55

Additional study guides are available at a cost of $1.40 each.

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Plant Diseases: Horticultural Plants

This 8 1/2" x 11" spiral bound booklet has 26 photo identification sheets, each of which has one side filled with 20 to 25 detailed color photos; the other side has concise descriptions. Disorders of indoor plants, turf, landscape plants, and fruits and vegetables are illustrated. Simplifies identification of many horticultural plant diseases.

MX699.96  Spiral bound booklet, 26 disease sheets          $ 11.25

MX699.95  Fruit & Vegetable Plant Diseases (8 1/2 x 11"")

12 sheets which include: Apple Diseases I & II, Cherry and Plum Diseases I & II, Grape Diseases I, Bramble Fruit Diseases I, Peach Diseases I & II, Vegetable Diseases I, II, III, & IV

*Cassette Tapes of study guides are available at an additional cost of $3.85.
FORAGES

Subject-Matter Units, Test Questions, Teacher’s Keys

U4014a Improving Permanent Pastures, 20p  $1.10
U4032b Producing High Alfalfa Yields, 20p  1.10

Slidefilms, Slide Sets, Study Guides, Cassette Tapes

Efficient Alfalfa Production

F748 Slidefilm, 52 fr.  $10.30
S748 Slide set, 52 fr.  17.15

Diseases of Alfalfa

F749 Slidefilm, 42 fr., w/study guide*  $9.70
S749 Slide Set, 42 fr., w/study guide*  15.25

Diseases of Clovers

F750 Slidefilm, 40 fr., w/study guide*  $9.30
S750 Slide Set, 40 fr., w/study guide*  14.60

FORESTRY

Subject-Matter Units, Test Questions, Teacher’s Keys

U4018 Farmstead Windbreaks, 8p  $ .45
U4024 Planting and Care of Farm Forests, 16p  .90

Transparencies, Study Guides, Cassette Tapes

Forest Tree Identification

Over 90 native forest species are illustrated in this transparency set. Each 8 1/2” x 11” frame shows leaf, flower and/or fruit, and leaf arrangement characteristics. An enlarged twig illustration shows terminal buds and leaf scars in sufficient detail to teach identification features. Each frame is headed by common and scientific names. Since many native trees are used in landscape situations, this transparency set will be useful for horticulturists as well as foresters.

T780 Transparency Set, 92 fr.  $36.20

GRAIN PRODUCTION

Subject Matter Units, Test Questions, Teacher’s Keys

U4023b Growing Oats, 16p  $ .90
U4027b Growing Wheat, 28p  1.55
U4056 Wheat Diseases, 20p  1.10
U4039b Corn Production, 20p  1.10
U4040a Corn Insects and Their Control, 20p  1.10
U4055a Growing Grain Sorghum, 20p  1.10

Additional study guides are available at a cost of $1.40 each.
Slidefilms, Slide Sets, Study Guides Cassette Tapes

Planting Corn

Covers basic procedures in planting corn, including early planting, hybrid selection, seedbed preparation, fertilization, and weed and insect control.

- F731a Slidefilm, 70 fr. $13.85
- S731a Slide Set, 70 fr. 23.10

Corn Problems Series

Illustrates many of the insects, diseases, and other problems that interfere with the normal growth and development of the corn plant.

- SLIDEFILMS -- with study guides
  - F732-1 Planting to Knee High, 66 fr.* $14.45
  - F732-2 Knee High to Tasseling, 41 fr.* 9.50
  - F732-3 Tasseling to Maturity, 45 fr.* 10.30

- SLIDE SETS -- with study guides
  - S732-1 Planting to Knee High, 66 fr.* $23.20
  - S732-2 Knee High to Tasseling, 41 fr.* 14.95
  - S732-3 Tasseling to Maturity, 45 fr.* 16.25

- MF732-1 Corn Problems Series (3 slidefilms)* 27.40
- MS732-1 Corn Problems Series (3 slide sets)* 43.45

Recognizing Corn Herbicide Injury

- F798-1 Slidefilm, 57 fr. $11.30
- S798-1 Slide Set, 57 fr. 18.80

PESTICIDES

Subject-Matter Units, Test Questions, Teacher's Keys

Safe Use of Farm Chemicals Series

Safety in the use, storage, and application of agricultural chemicals is a common goal of agriculturists and the general public. Safe practices result from awareness of what agricultural chemicals are, how they can be used, how they are supplied, and how to respond to emergency situations. This series of 5 manuals and glossary covers the major aspects of agricultural pesticides and their safe use.

- U4080 Pesticide Use: A Benefit/Risk Analysis, 20p $1.10
- U4081 Reading Chemical Container Labels, 16p .90
- U4082 Using Farm Chemicals Safely, 24p 1.35
- U4083 Managing the Environmental Impact of Pesticides, 24p 1.35
- U4084 Pesticide Application: Equipment & Calibration, 28p 1.55
- U4085 Glossary of Pesticide Terms, 8p .45

* Cassette Tapes of study guides are available at an additional cost of $3.85.
Slidefilms, Slide Sets, Study Guides, Cassette Tapes

Safe Use of Farm Chemicals Series

This series of films is designed to reinforce the information presented in the Safe Use of Farm Chemicals series of manuals. Together with those manuals, they are a thorough overview of agricultural pesticides and their safe selection, use, storage, and application.

SLIDEFILMS — with study guides
F780  Pesticide Use: A Benefit/Risk Analysis, 48 fr.*     $ 10.95
F781  Reading Chemical Container Labels, 42 fr.*       9.70
F782  Using Farm Chemicals Safely, 54 fr.*             12.15
F783  Managing the Environmental Impact of Pesticides, 36 fr.*  8.55
F784  Pesticide Application: Equipment & Calibration, 52 fr.*  11.70

SLIDE SETS — with study guides
S780  Pesticide Use: A Benefit/Risk Analysis, 48 fr.*     $17.25
S781  Reading Chemical Container Labels, 42 fr.*       15.25
S782  Using Farm Chemicals Safely, 54 fr.*             19.20
S783  Managing the Environmental Impact of Pesticides, 36 fr.*  13.30
S784  Pesticide Application: Equipment & Calibration, 52 fr.*  18.55

MF780 Safe Use of Farm Chemicals Series (5 slidefilms)*        42.10
MS780 Safe Use of Farm Chemicals Series (5 slide sets)*       66.30

Assaying for Herbicide Residue

Presents steps involved in the biological assay, an alternative to laboratory analysis. Uses readily available supplies and common test plants. This test will indicate if enough herbicide residue is present to harm sensitive crops.

F797  Slidefilm, 28 fr., w/study guide*     $ 6.95
S797  Slide Set, 28 fr., w/study guide*      10.65

Pests and Pesticides Series

SLIDEFILMS — with study guides
F1108-2.1 Safe Use of Pesticides Around the Home, 37 fr. $ 8.70
F1108-2.2 Identifying Common Insect Pests, 73 fr.* 15.65
F1108-2.3 Diseases of the Vegetable Garden, 72 fr.* 15.60

SLIDE SETS — with study guides
S1108-2.1 Safe Use of Pesticides Around the Home, 37 fr. $13.60
S1108-2.2 Identifying Common Insect Pests, 73 fr.* 25.50
S1108-2.3 Diseases of the Vegetable Garden, 72 fr.* 25.15

MF1108-2.1 Pests and Pesticides Series (3 slidefilms)*
MS1108-2.1 Pests and Pesticides Series (3 slide sets)*

Transparencies, Study Guides, Cassette Tapes

Safe Use of Pesticides

Pesticide types, formulations, classification, labels, and warnings are described in detail. Protective clothing and equipment and safe practices are illustrated.

T790  Transparency Set, 40 fr., w/study guide*     $ 13.65

Additional study guides are available at a cost of $1.40 each.
AGRONOMY

SOILS

Subject-Matter Units, Test Questions, Teacher's Keys

U4001a Collecting and Preparing Soil Samples for Testing, 16p $ .90
U4002a pH Test for Soil Acidity, 8p .45
U4003c Phosphorus Management, 16p .90
U4004b Determining Available Potassium in Soils, 12p .70
U4005 Nature of Soil Acidity and Major Plant Nutrients, 4p .25
U4006a Soil Liming—A Key to Better Farming, 6p .45
U4008b Potassium Management, 12p .70
U4009b Planning the Nitrogen Program, 16p .90
U4010a Planning a Fertilizer Program, 8p .70
U4011a Hunger Signs in Crops (with color insert), 12p 1.35
U4021a Grassed Waterways, 24p 1.35
U4028 Soil Structure, 8p .45
U4029 Soil Color, 8p .45
U4030 Soil Texture, 8p .45
U4050 Nitrates in Water Supplies, Field Crops, & Ruminant Nutrition, 12p .70
U4052a Understanding Soils, 20p 1.10
U4053a Using the Illinois Land-Use Scorecard, 28p 1.55
U4054b Using the Universal Soil Loss Equation to Estimate Soil Loss, 20p 1.10
U4058 Using Conservation Tillage Systems, 16p .90
Q4058 Test Questions, pkg. of 10 1.10
K4058 Teacher's Key for Q4058 .55
U4060 Soil Erosion—The Silent Enemy of Soil—Our Precious Resource, 36p 2.00

Slidefilms, Slide Sets, Study Guides, Cassette Tapes

Collecting and Preparing Soil Samples for Testing

Since soil testing is so important to making the best decisions for proper application of fertilizers, this film is basic to introducing soil management principles.

F703a Slidefilm, 36 fr. $ 7.15
S703a Slide Set, 36 fr. 11.90

Soil Color

Compares and contrasts soil colors and relates differences to soil origins and management practices.

F708 Slidefilm, 47 fr. $ 9.30

Soil Erosion Series

This set of 3 films describes various aspects of soil erosion and how they affect farmland and water quality.

SLIDEFILMS — with study guides
F722 Agriculture: Soil Erosion and Water Quality, 82 fr.* $ 17.60
F723a Soil Erosion—The Silent Enemy of the Soil—Our Precious Resource, 44 fr.* 10.10
MF724 Meet the Speck: The Erosion Crisis, 67 fr. & Cassette Tape 18.50

SLIDE SETS — with study guides
S722 Agriculture: Soil Erosion and Water Quality, 82 fr.* $ 28.45
S723a Soil Erosion—The Silent Enemy of the Soil—Our Precious Resource, 44 fr.* 15.90
MS724 Meet the Speck: The Erosion Crisis, 67 fr. & Cassette Tape 27.35

MF722 Soil Erosion Series (3 slidefilms)* 36.95
MS722 Soil Erosion Series (3 slide sets)* 57.30

Special series price

* Cassette Tapes of study guides are available at an additional cost of $3.85.
Land and Water Series

This series (cooperatively developed by several agencies) deals with soil-erosion loss, soil conservation, and promoting specific soil conservation practices.

SLIDEFILMS — with study guides
F725-1  From Dust Bowl to Mud Bowl—The Erosion Problem, 82 fr.*  $ 17.80
F725-2  T by 2000—State Erosion-Control Goals, 72 fr.*  15.85
F725-3  Raindrops and Bombs—The Erosion Process, 77 fr.*  16.85
F725-4  How to Measure What’s Missing—The Universal Soil Loss Equation, 79 fr.*  17.05
F725-5  A Plan for the Land—Erosion Control Alternatives, 82 fr.*  17.80
F725-6  Declaring War on Weeds and Erosion—Weed Control for Conservation Tillage, 81 fr.*  17.45
F725-7  Returning to Grass Roots—Hay and Pasture Establishment, 81 fr.*  17.45

SLIDE SETS — with study guides
S725-1  From Dust Bowl to Mud Bowl—The Erosion Problem, 82 fr.*  $ 28.45
S725-2  T by 2000—State Erosion-Control Goals, 72 fr.*  25.15
S725-3  Raindrops and Bombs—The Erosion Process, 77 fr.*  26.80
S725-4  How to Measure What’s Missing—The Universal Soil Loss Equation, 79 fr.*  27.45
S725-5  A Plan for the Land—Erosion Control Alternatives, 82 fr.*  28.45
S725-6  Declaring War on Weeds and Erosion—Weed Control for Conservation Tillage, 81 fr.*  28.10
S725-7  Returning to Grass Roots—Hay and Pasture Establishment, 81 fr.*  28.10

MF725-1  Land and Water Series (7 slidefilms)*  96.20
MS725-1  Land and Water Series (7 slide sets)*  154.65

Conservation Systems Workshop Material

These materials will help teach the fundamentals of conservation planning. Users will learn how to use aerial photos and soils maps to identify highly erodible fields. They also will learn how to estimate water and wind erosion, identify resource problems, and select economical solutions. Includes information on leaving enough residue to reduce soil erosion and comply with state and federal erosion guidelines.

SLIDEFILMS — each includes study guide and cassette tape
F726-1  Conservation Planning: A Tool for Better Resource Management, 80 fr.  $ 17.35
F726-2  The Water Erosion Process, 80 fr.  17.35
F726-3  Controlling Water Erosion with Conservation Planning, 80 fr.  17.35
F726-4  The Wind Erosion Process, 80 fr.  17.35
F726-5  Controlling Wind Erosion with Conservation Planning, 80 fr.  17.35
F726-6  Managing Residue to Reduce Erosion, 77 fr.  17.35

SLIDE SETS — each includes study guide and cassette tape
S726-1  Conservation Planning: A Tool for Better Resource Management, 80 fr.  $ 27.65
S726-2  The Water Erosion Process, 80 fr.  27.65
S726-3  Controlling Water Erosion with Conservation Planning, 80 fr.  27.65
S726-4  The Wind Erosion Process, 80 fr.  27.65
S726-5  Controlling Wind Erosion with Conservation Planning, 80 fr.  27.65
S726-6  Managing Residue to Reduce Erosion, 77 fr.  27.65

Transparencies, Study Guides, Cassette Tapes

Soil Testing and Fertility

Shows equipment, procedures, and test results of soil testing. Explains how nutrients are held in soils and how soil environmental conditions affect added nutrients. Charts point out the benefits of nutrient application.

T702  Transparency Set, 57 fr., w/study guide*  $ 23.60

Additional study guides are available at a cost of $1.40 each.
Soil Science

Introduces the science of classifying and managing soils. Graphically illustrates soil particle size, textural classes, and common types of soil structure.

T701  Transparency Set, 32 fr.  $ 14.00

SOYBEANS

Subject-Matter Units, Test Questions, Teacher's Keys

U4033b  Soybean Production, 20p  $ 1.10
U4057  Common Problems of Soybeans, 20p  1.10

Slidefilms, Slide sets, Study Guides, Cassette Tapes

Soybean Problems Series

Illustrates many of the insects, diseases, and other problems that interfere with the normal growth and development of the soybean plant.

SLIDEFILMS -- with study guides
F751  Planting to Emergence, 42 fr.  $ 9.70
F732  Emergence to Flowering, 64 fr.*  14.05
F733  Flowering to Maturity, 54 fr.*  12.10

SLIDE SETS -- with study guides
S751  Planting to Emergence, 42 fr.*  $ 15.25
S752  Emergence to Flowering, 64 fr.*  22.50
S753  Flowering to Maturity, 54 fr.*  19.20

MF751  Soybean Problems Series (3 slidefilms)*  28.65
MS751  Soybean Problems Series (3 slide sets)*  45.55

Growing Soybeans Series

A useful series on soybean management that describes high-yield narrow row planting, controlling soybean diseases, and recognizing herbicide injuries.

SLIDEFILMS
F755  Growing Soybeans in Narrow Rows, 28 fr., w/study guide  $ 6.95
F756  Soybean Disease Management, 37 fr., w/study guide  8.70
F798-2  Recognizing Soybean Herbicide Injury, 57 fr.  11.30

SLIDE SETS
S755  Growing Soybeans in Narrow Rows, 28 fr., w/study guide  $ 10.65
S756  Soybean Disease Management, 37 fr., w/study guide  13.60
S798-2  Recognizing Soybean Herbicide Injury, 57 fr.  18.80

MF755  Growing Soybeans Series (3 slidefilms)  21.50
MS755  Growing Soybeans Series (3 slide sets)  34.45

Transparencies, Study Guides, Cassette Tapes

Soybeans—Planting to Harvest

An excellent set for illustrating various phases in the life of a soybean. Line drawings clearly show seeds, germination, and plant parts. Equipment used in soybean culture is illustrated, as are insects and charts regarding various cultural practices.

T740  Transparency Set, 50 fr., w/study guide*  $ 20.90

* Cassette Tapes of study guides are available at an additional cost of $3.85.
WEEDS

Subject-Matter Units, Test Questions, Teacher's Keys

U4020  Plants Poisonous to Livestock, 16p  $ .90
U4042a Controlling Weeds, 16p  .90
Q4042a Test Question, pkg. of 10  1.10
K4042a Teacher's Key for Q4042a  .55

Slidefilms, Slide Sets, Study Guides, Cassette Tapes

Weed Identification Series

Illustrates vegetative and floral characteristics used to identify weeds. Seeds, seedlings, and mature plants of broadleaf and grassy weeds are shown. Practice sets have no identifying labels, so they can be used for review and testing.

SLIDEFILMS
F791b Weed Identification, 117 fr.  $23.15
F791b(Supp) Practice Set for F791b, 61 fr.  12.10
F793 Identification of Weed Seeds, 68 fr.  13.50
F793(Supp) Practice Set for F793, 70 fr.  13.85
F800 Identification of Weed Seedlings, Broadleaves, Pt. I, 45 fr.  8.90
F801 Identification of Weed Seedlings, Broadleaves, Pt. II, 45 fr.  8.90
F802-1 Weed Seedlings and Vegetative Identification—Grass Weeds, 42 fr., w/study guide*  9.70
F802-2 Weed Seedlings and Vegetative Identification—Broadleaf Weeds, 102 fr., w/study guide*  21.55
F803 Identification of Weed Seedlings, Grasses, 42 fr.  8.30
F811 The Wicked World of Weeds, 77 fr.  15.25

SLIDE SETS
S791b Weed Identification, 117 fr.  $38.60
S791b(Supp) Practice Set for S791b, 61 fr.  20.15
S793 Identification of Weed Seeds, 68 fr.  22.45
S793(Supp) Practice Set for S793, 70 fr.  23.10
S800 Identification of Weed Seedlings, Broadleaves, Pt. I & Pt. II, 83 fr.  27.40
S802-1 Weed Seedlings and Vegetative Identification—Grass Weeds, 57 fr.  18.80
S802-2 Weed Seedlings and Vegetative Identification—Broadleaf Weeds, 146 fr.  48.20
S803 Identification of Weed Seedlings, Grasses, 42 fr.  13.85
S811 The Wicked World of Weeds, 77 fr.  25.40
MF791b Weed Identification Series (10 slidefilms)  108.15
MS791b Weed Identification Series (9 slide sets)  190.35

Transparencies, Study Guides, Cassette Tapes

How Herbicides Work

Shows how weeds reduce crop yields and why good control is important. Illustrates life cycles of annuals, biennials, and perennials. Describes different kinds of herbicides and how they work. Briefly reviews application equipment and its use.

T700 Transparency Set, 47 fr.  $19.35

Additional study guides are available at a cost of $1.40 each.
AGRONOMY

MISCELLANEOUS

Slidefilms, Slide Sets, Study Guides, Cassette Tapes

Seed Quality—A Major Factor in Crop Yields

F796  Slidefilm, 39 fr.  $ 7.70

Crop Disease Series

Illustrates the diseases which can affect crops and reduce yields. Also shows some noninfectious disorders. Promotes recognition of disease as the first step of proper control.

SLIDEFILMS — with study guides
F773  Disease of Wheat, 50 fr.*  $ 11.30
F747a  Diseases of Soybeans, 45 fr.*  10.30
F749  Diseases of Alfalfa, 42 fr.*  9.70
F750  Diseases of Clovers, 40 fr.*  9.30
F754  The Soybean Cyst Nematode Problem, 55 fr.*  12.25

SLIDE SETS — with study guides
S773  Diseases of Wheat, 50 fr.*  $ 17.90
S747a  Diseases of Soybeans, 45 fr.*  16.25
S749  Diseases of Alfalfa, 42 fr.*  15.25
S750  Diseases of Clovers, 40 fr.*  14.60
S754  The Soybean Cyst Nematode Problems, 55 fr.*  19.55

Special series price

Approved Practices

A730a  Approved Practices of Corn  $ .45
A740a  Approved Practices of Soybeans  .45
A750  Approved Practices of Alfalfa  .45
A770a  Approved Practices of Wheat  .45
A780  Approved Practices of Oats  .45

Soil Judging and Testing Materials

J700  Land-Use Scorecards (Prod.-Ag) 100 pt., pkg. of 25  $ 1.40
J701  Land-Use Scorecards (non-Ag. Use) 116 pt., pkg. of 25  1.40
J702  Tables for Soil Judging Scorecards, pkg. of 10  .90

Herbicide Injury Identification Picture Sheets

X899.01  Corn I  $ .25
X899.02  Corn II  .25
X899.06  Soybeans I  .25
X899.07  Soybeans II  .25
X899.16  Injury Symptoms from Selected Herbicides  .25

Field Crop Insect Picture Sheets

X798.30  Corn Insects—Above Ground  $ .25
X798.31  Corn Insects—Below Ground  .25
X798.40  Soybean Insects  .25
X798.01  Stored Grain Insects and Molds  .25

* Cassette Tapes of study guides are available at an additional cost of $3.85.
Field Crops Disease Picture Sheets

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<td>Sorghum Diseases I</td>
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<td>Forage Grass Diseases I</td>
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<td>Oats</td>
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<tr>
<td>X799.81</td>
<td>Barley and Rye</td>
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Plant Diseases: Field Crop Plants

An 8 1/2" x 11" spiral bound booklet with 26 photo identification sheets, each of which has one side filled with up to 25 detailed color photos and the other side with descriptions of the illustrated disorders. Major categories of disorders include diseases, herbicide injuries, and insect pests. A useful reference for agronomists.

<table>
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<tr>
<td>MX799.91</td>
<td>Spiral bound booklet</td>
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Diseases and Pests Notebook

A 3-ring notebook organized with tab dividers for storing diseases and pests color photo sheets. There is additional room for other information in each section. Major divisions of the notebook include diseases, herbicide injury, pests, and weeds of agronomic and horticultural crops.

<table>
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<td>X800</td>
<td>Notebook, with tabbed dividers</td>
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Diseases of Soybeans and Corn

This 3" x 5 1/2" booklet (spiral bound) is a guide to help identify diseases of soybeans and corn quickly and accurately. It assists in early, in-the-field identification when control measures are generally more effective. Over 50 different diseases are illustrated with color photos.

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<td>X830</td>
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Vegetative Identification of Common Row Crop Weeds

In pocket booklet size (3" x 5 1/2", spiral bound), this guide features 38 of the most common weeds in row crops in the Midwest, including perennials, annual grasses, and annual broadleaves. Key vegetative parts of each species are presented along with a color photo. A convenient aid to being a knowledgeable row crop manager.

<table>
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Additional study guides are available at a cost of $1.40 each.
Weed Plants
Crop Plants

Each 8 1/2" x 11" booklet has 40 sheets with clear color photographs that help identify plants quickly and accurately. Each weed or crop plant is shown in 4 stages—seed, seedling, mature plant, and flower.

X850 Weed Plants booklet, 82 p $15.00
X860 Crop Plants booklet, 82 p $15.00

Insect Pest Identification of Corn, Soybeans, and Alfalfa

A handy 3" x 5" pocket booklet with 25 color photographs of insect pests. Describes damage, scouting procedures, and guidelines for control.

X870 Spiral bound pocketbook, 52 p $4.50

Field Crop Scouting Manual

Designed to aid in identification and evaluation of common pest problems in the field. Contains basic scouting procedures for insects, diseases, and weeds. Describes nutrient deficiencies, herbicide injury, and other agronomic crop problems (includes 19 color sheets).

Revision available in early 1989. Description and price will be published in Vo-Ag News & Notes.

X880 Spiral bound book, 136 p $11.00

Judging Booklet

Crop Judging

A manual designed to aid in preparing students to judge crops. For wheat, oats, soybeans, corn, hay and corn silage, listings of quality factors ranked in order of importance are presented. Sample completed scorecards are included—these match sample judge's reasons and placing. Illustrations include crop seed photographs and diagrams.

J790 Manual $3.85

Additional Judging Materials on page 46.

Crop Science: A Laboratory Manual

Provides a well-balanced blend of fundamental principles of plant science and practical material relating to field crop production. Each chapter includes learning objectives, text, and laboratory exercises. Hands-on exercises develop the skills and confidence essential to preparing students for careers in the agronomic sciences. Written for the introductory level college class. An excellent resource for high school agriculture instructors.

NEW X890 Spiral bound book, 296p (No Illinois discount) $20.00

* Cassette Tapes of study guides are available at an additional cost of $3.85.
CAREERS

Slidefilms, Slide Sets, Study Guides, Cassette Tapes

Careers in Agriculture

The need for trained people to work in agriculture is outlined in this slidefilm/slide set. Workers representing a variety of agricultural jobs explain what they do at work and comment on the outlook and training needed for those jobs. Each slidefilm or slide set is packaged with a study guide and a cassette recording of that study guide.

- MF1008 Slidefilm, 144 fr., w/study guide & cassette: $33.70
- MS1008 Slide Set, 144 fr., w/study guide & cassette: $52.75

FFA, SOEP, RECORD BOOKS

Subject-Matter Units, Test Questions, Teacher’s Keys

- U7001 The History of the Illinois FFA, 12p: $0.70
- Q7001 Test Questions, pkg. of 10: 1.10
- K7001 Teacher’s Key for Q7001: 0.55
- U7003 SOE Programs in Agriculture, 24p: 1.35

Slidefilms, Slide Sets, Study Guides, Cassette Tapes

- F1112 Exploring Supervised Occupational Experience Programs (SOEP), 46 fr.: $9.15
- S1112 Exploring Supervised Occupational Experience Programs (SOEP), 46 fr.: 15.15

Transparencies, Study Guides, Cassette Tapes

- T1007 FFA Facts, 16 fr.: $7.80

Record Books for FFA Foundation Awards

- R401 Agricultural Electrification: $0.85
- R402 Agricultural Mechanics: 0.85
- R403 Safety: 0.85
- R501 Fish and Wildlife: 0.85
- R502 Forestry: 0.85
- R601 Floriculture: 0.85
- R602 Fruit or Vegetable Production: 0.85
- R603 Home and Farmstead Beautification: 0.85
- R604 My Plant Diary: 0.30
- R605 Nursery Operations: 0.85
- R606 Turf and Landscape Management: 0.85
- R701 Soil and Water Management: 0.85
- R1001 Outdoor Recreation: 0.85
- R1002 Product Processing: 0.85

Supplemental Material for Record Books

- Z404 Sales and Service Self-Employment Supplement: 0.30
- Q602 Problem for Use with Fruit or Vegetable Production Record Book, 4p: 0.20
- K602 Teacher’s Key to Q602, 12p: 0.65

Additional study guides are available at a cost of $1.40 each.
MISCELLANEOUS

JUDGING MATERIALS

Computing Slide

J1001 Hormel Computing Slide $9.90

(Price subject to change following notice in Vo-Ag News & Notes)

Other Judging Materials

NEW J100a Judging Beef Cattle $3.85
J120a Judging and Grading Poultry and Eggs 3.85
J140 Judging Sheep .85
J150 Judging Light Horses 1.10
NEW J160a Judging Swine 3.85
J180 Meat Judging and Grading 2.20
J200 Judging Dairy Cattle 1.10
NEW J250a Judging & Identifying Dairy Products 3.85
J790 Crop Judging 3.85
Z7001 Crop Seed Samples (30 crops) 14.50
Z7002 Sample Grain Classes (Corn, soybeans, oats, and wheat; includes placings and reasons) 19.50

Judging Cards Used in Illinois State Contests

Specify type and color (salmon, green, pink, blue, yellow)

Agricultural Management—sample contest questions
(see Z374, Ag. Economics section)
Agricultural Mechanics—No judging cards used.

CROPS CONTEST
J999.100 Regular Placing $ .04
J999.107 Crop Seed Identification .04
J999.108 Weed Identification .04

DAIRY CONTEST
J999.100 Regular Placing .04
J999.101 Production Ring .04

DAIRY PRODUCTS CONTEST
J999.113 Scoring and Criticizing Milk Samples .04
J999.114 Scoring and Criticizing Milker Unit Heads .04
J999.115 Identification of Cheeses .04
J999.117 California Mastitis Test .04
J999.118 Real Versus Artificial Dairy Foods/Products .04

HORSE CONTEST
J999.100 Regular Placing .04

LIVESTOCK CONTEST
J999.100 Regular Placing .04
J999.102 Female Selection Class (Keep—Cull) .04
J999.103 Beef Cattle Grading (Slaughter Cattle) .04
J999.104 Swine Grading .04

MEATS CONTEST
J999.100 Regular Placing .04
J999.105 Beef Carcass Quality Grading .04
J999.106 Beef Carcass Yield Grading .04
J181 Meat Identification (pink, yellow, green) .04

HORTICULTURE CONTEST
J999.100 Regular Placing .04
J690 Horticulture Identification Ring (4 pages) .20

POULTRY CONTEST
J999.100 Regular Placing .04
J999.109 Dressed Market Bird Grading .04
J999.110 Egg Grading — Exterior Quality .04
J999.111 Egg Grading — Interior Quality .04
J999.112 Identification of Chicken Parts .04

*Cassette Tapes of study guides are available at an additional cost of $3.85.
Registration Cards

Registration cards come in sets: one for the team coach and one for officials.

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<td>Manila Cards for Scoring</td>
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<td>J999.5</td>
<td>Summary Sheets (set of 2)</td>
<td>$0.08</td>
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PARLIAMENTARY PROCEDURE

Slidefilms, Slide Sets, Study Guides, Cassette Tapes

Introduction to Parliamentary Procedure

This slidefilm/slide set explains why parliamentary procedures were developed and discusses the classes of motions. It would make an excellent lead-in to a series of lessons on parliamentary procedure.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tr>
<td>F1006</td>
<td>Slidefilm, 49 fr.</td>
<td>$9.70</td>
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<tr>
<td>S1006</td>
<td>Slide Set, 49 fr.</td>
<td>16.15</td>
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Transparencies, Study Guides, Cassette Tapes

Parliamentary Procedure Transparencies

Classes and ranking of motions used in parliamentary procedure are explained in this set of transparencies.

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<tr>
<td>T1006</td>
<td>Transparency Set, 14 fr.</td>
<td>$7.05</td>
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Other Parliamentary Procedure Materials

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<tr>
<td>P270</td>
<td>A Guide to Parliamentary Practices</td>
<td>$1.10</td>
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<tr>
<td>P271</td>
<td>Beginning Steps in Parliamentary Procedure</td>
<td>.55</td>
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<td>P272</td>
<td>The Teacher’s Guide to Parliamentary Procedure</td>
<td>.30</td>
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<td>Q272</td>
<td>Test Questions for P272</td>
<td>.40</td>
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<td>K272</td>
<td>Teacher’s Key for Q272</td>
<td>.55</td>
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<tr>
<td>P273</td>
<td>Characteristics of Motions, 12p</td>
<td>.65</td>
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CALENDAR, REPORT PADS, NOTEBOOKS

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<tr>
<td>Z1001</td>
<td>Calendar of Events, Set of monthly calendars, August through July, 8 1/2&quot; x 11&quot;, printed on heavy paper with space for writing in events</td>
<td>$0.90</td>
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<tr>
<td>Z1002</td>
<td>Report of Ag. Instructor Activities, pad of 50</td>
<td>1.10</td>
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<tr>
<td>Z1003</td>
<td>Notebooks, 3-ring, sturdy, white with clear plastic shield on front cover and spine for title inserts</td>
<td>5.00</td>
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<tr>
<td>Z1004</td>
<td>1-inch ring</td>
<td>6.00</td>
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<tr>
<td>Z1005</td>
<td>1 1/2-inch ring</td>
<td>6.50</td>
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Additional study guides are available at a cost of $1.40 each. 47
Vocational Agriculture Service, University of Illinois, 1401 S. Maryland Drive, Urbana, Illinois 61801

Please send to:

Name_________________________________________ Date __________

School

Address ___________________________________________ Zip Code ______

Billing Instructions

FEI No. ___________________________________________ OR Social Security No: ____________________________

(For schools and companies) (For individuals)

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If payment is sent with this order, please add the following for postage and handling:

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Vocational Agriculture Service
University of Illinois
1401 S. Maryland Drive
Urbana, Illinois 61801

(tape or staple)
Agriculture Releases

Agriculture Releases are a series of packets assembled periodically, October through April, containing miscellaneous new or revised agricultural materials. Subscribers to this service automatically receive a copy of each new circular, most new bulletins, various newsletters and releases from departments of the University of Illinois College of Agriculture; proceedings of conferences, seminars, and field days; each new printed publication from VAS; and other items of interest. Occasionally materials are obtained from the USDA and other state universities. Many of these items are provided free to VAS Releases subscribers, while others are distributed at cost.

Releases charges are accumulated and billed at the end of the school year. Maximum charge for this service for 1989-90 is $80.00 for Illinois subscribers, and $95.00 for out-of-state subscribers (plus shipping). If the total charge is less than the maximum, the lesser amount (plus shipping) will be billed. Also included with each packet are a reference sheet and a set of 3" x 5" cards indexed according to the categories used in the VAS filing system. (The filing system is sent free to new subscribers.)

Horticulture Releases

Horticulture Releases include current printed materials of interest to Horticulture teachers. Each Releases packet contains recent University of Illinois Extension publications, new and revised Vocational Agriculture Service publications, plus additional relevant information. Free items are often included; most items are sent at cost. Releases packets are issued periodically from October through April.

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ADVANCE ORDER SERVICE

Advance Order Program

Those who subscribe to the Advance Order Program receive an additional 10% discount under the regular price paid for new materials. All new and revised subject-matter units, slidefilms, slide sets, study guides, and transparencies released by Vocational Agriculture Service during the school year are distributed in this program.

The program is divided into two separate categories: Agriculture/Agribusiness, and Horticulture. Four types of materials are offered under each category—slidefilms, slide sets, transparencies, and sets of subject-matter units.

Slidefilms/Slide Sets — The advance order for slidefilms/slide sets includes one print of each slidefilm or slide set released during the school year and a study guide or script if one is produced. For Illinois residents, the guaranteed maximum cost for 1989-90 Agriculture/Agribusiness slidefilms is $80.00; for slide sets the guaranteed maximum is $130.00. For out-of-state residents, the guaranteed maximum cost is $95.00 for slidefilms and $165.00 for slide sets.

For Illinois residents, the guaranteed maximum cost for 1989-90 Horticulture slidefilms is $60.00; for slide sets the guaranteed maximum is $100.00. For out-of-state residents, the guaranteed maximum cost is $70.00 for slidefilms and $115.00 for slide sets. You may subscribe to either format, or both, at the prices listed.

Transparencies — The advance order for transparencies includes one set of each packet of overhead projection transparencies released during the school year. Each packet includes transparencies printed on clear plastic, paper copies, and related text material, all in a manila pocket folder with the title stamped on the tab. The 1989-90 guaranteed maximum price for transparencies in Agriculture/Agribusiness is $30.00 for Illinois subscribers, and $35.00 for out-of-state subscribers. The 1989-90 guaranteed maximum price for transparencies in Horticulture is $25.00 for Illinois subscribers, and $30.00 for out-of-state subscribers.

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NOTE:

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