ITCS Instructional Materials Catalog

Producing educational resources for agriculture teachers, students, and you!

ITCS Instructional Materials
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College of Agricultural, Consumer and Environmental Sciences

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**Description of Instructional Materials**

**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; some are punched for a three-ring binder.

**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. Each set is packaged in a manila pocket folder with the title of the set stamped on the tab.

**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. Crop Plants, Horticulture Diseases, Pests, and More, and Diseases and Pests of Field Crop Plants 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 pocketbooks. These informative color pocketbooks are useful for identification purposes in the classroom or in the field.

**Agriscience Curricula and mAGic Kits**
Agriscience kits include lesson plans with handouts, activities, and exercises. Each kit contains a binder with a printed curriculum; a CD-ROM with a PDF version of the curriculum and PowerPoint slides; and most materials needed to complete the lab exercises. Kits are appropriate for junior high and high school.

The mAGic kits are developed to meet learning standards in English, math, science, and social studies for grades 4 to 8. They contain a binder with lesson plans, handouts and activities, a CD-rom with a PDF version of the curriculum, and all materials needed for lab exercises.

**Digital Slide Sets**
Digital slide sets are distributed on CD-ROM and have the catalog number prefix of MDS. These Microsoft PowerPoint presentations work equally well on Windows and Macintosh machines.

Digital slide sets have colored backgrounds and are intended for onscreen use (computer display or projected via a data projector).

**Digital Transparency Sets**
Digital transparency sets are distributed on CD-ROM and have the catalog number prefix of DT. These Microsoft PowerPoint presentations work equally well on Windows or Macintosh machines.

Digital transparency sets differ from digital slide sets in that the digital transparency sets have uncolored backgrounds and are suitable for printing to transparency film for overhead projection.

**Quiz Packs**
The quiz packs are developed in Microsoft PowerPoint and should run well on PCs and Macs. They are designed to be distributed to students as they review for specific topic areas at individual work stations, including a school computer lab, classroom computers, or home and laptop computers. Quiz packs consist of 10 CD-ROMs containing the practice quizzing sessions and interactive quizzing sessions from resource CD-ROMs. The quiz packs are ideal for students that need review sessions that provide immediate feedback during quizzing, interactive quiz sessions, and for preparing students to participate in Career Development Events.

**Flash Cards**
Flash cards are boxed sets of cards with images on the front and descriptions on the back. They also include table of contents and section cards. They are designed for identification, study, and practice for career development events. Cards measure 5” x 7”.
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Instructional materials in agriculture listed in this catalog have been developed primarily for use in high schools, junior and community colleges, and universities. Prices for materials are calculated to cover development and production costs on a nonprofit basis. This catalog supersedes all previous Instructional Materials catalogs; prices are subject to change without notice. Unless specifically stated otherwise, these materials are copyrighted by the Board of Trustees, University of Illinois.

Instructional materials for agriculture are distributed by Information Technology and Communication Services (ITCS) in the College of Agricultural, Consumer and Environmental Sciences at the University of Illinois at Urbana-Champaign. Preview copies are not provided.

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Agribusiness Management, Farm Planning, and Marketing

Units ..............................................................................................................

U6026a
Price: $6.50

U6026a
Price: $60.00

This guide provides an introduction to personal selling in agricultural businesses. It covers topics such as prospecting, conducting sales interviews, handling objections, closing the sale, and following up after the sale. Includes student activities and exercises; color photos and illustrations throughout.

U6036
Agricultural Facts and Resources, 28p
Price: $3.50

Measurements and conversions, commodity weights and measures, production charts and equations, and financial equations assist agricultural production and agribusiness problem solving.

U310
Farm Management Manual, 24p
Price: $3.25

U2040a
Agricultural Business Management–Principles That Affect Production, 24p
Price: $3.25
Ag Mechanics Lab

Units

U3022a  
**Safety in the Shop**, 32p  
Price: $4.00

Q3022  
**Student Safety Tests**, 32p  
Price: $4.00

K3022  
**Teachers’ Key for Q3022**  
Price: $4.00

Transparencies

T457  
**Shop Tool Identification**, 24 fr., w/guide  
Price: $25.00

171 shop tools are divided into 6 categories: carpentry and woodworking, engine and machinery, metalworking, various construction skills, hand power, and horticulture.

Other Materials

MZ490  
**Charts on Safety Rules**, Set of 27 Charts on Safety Rules  
Price: $55.00

27 laminated 8 1/2” × 11” charts constantly remind students of the importance of working safely. Heavy black print is highly visible on bright yellow paper. Special lists of safety rules should be posted in every work area.

Z490.1  General Shop  
Z490.2  Everyone Must Wear Safety Glasses at all Times in Shop  
Z490.3  Think Safety to be Safe  
Z490.4  No Horseplay or Running in Shop  
Z490.5  Tools Must be Returned & Shop Cleaned After Each Class  
Z490.20  Hand Tool
Z490.21  Electrical Equipment
Z490.22  Vehicle and Machinery Repair
Z490.23  Soldering and Sheet Metal Work
Z490.30  Portable Circular Saw
Z490.31  Tilting Arbor Saw
Z490.32  Radial Arm Saw
Z490.33  Saber and Reciprocating Saw
Z490.34  Band Saw
Z490.35  Power Metal-Cutting Saw
Z490.40  Jointer
Z490.41  Router and Planer
Z490.42  Sander
Z490.43  Stationary Grinder
Z490.44  Portable Grinder
Z490.45  Drill Press
Z490.46  Portable Drill
Z490.60  Shielded Metal Arc Welder
Z490.61  Oxyfuel Welder
Z490.62  Inert Gas Shielded Arc Welder
Z490.63  Spot Welder
Z490.70  Gas Forge

CD-ROMS

MDS320
Hardware and Fastener Identification CD-ROM
Price: $110.00

This CD-ROM instructional resource provides PowerPoint slides for hardware and fastener items in the following categories:

- Bolts
- Braces, Brackets, and Hinges
- Miscellaneous Fasteners
- Nails
- Nuts
- Other Hardware
- Screws
- Washers

Each hardware category presents a set of images with names, a practice set with images-only, and an interactive quiz that allows the user to identify the item among three choices. Quizzes (including printed quizzes and keys) are provided for each category. The CD-ROM includes more than 1,650 slides.

MDS320-10
Hardware and Fastener Identification Quiz Pack
Price: $220.00

This is a set of 10 identical CD-ROMs. Each contains a collection of quizzes from the Hardware and Fastener Identification CD-ROM. This product is designed to be distributed to students as they review hardware and fastener identification at individual workstations in a computer lab, classroom computer, or on home and laptop computers.
MDS340
Hand Tool Identification
$120.00

MDS320 is an onscreen instructional resource that provides digital images for approximately 300 hand tools. The tools are divided into 18 categories, including Clamps, Cutting and Scraping Tools, Drilling and Boring Tools, Files, Hammers and Striking Tools, Leveling Tools, Measuring Tools, Miscellaneous Tools, Planes, Pliers, Pry Bars, Punches and Chisels, Saws, Screwdrivers, Small Gas Engine Tools, Squares, Threading Tools, Wrenches, and a single set containing all of the tools in a single presentation. The presentation includes a set of images with names, a practice set that includes only the image, a set of images with a description that includes use, size and maintenance, and the a set that includes an interactive quizzing session which allows the user to identify a predetermined hand tool among three choices. Also on the CD-ROM are quizzes and keys for each hand tool category. In total, this CD-ROM contains over 2,100 slides.

MDS340-10
Hand Tool Identification Quiz Pack
Price: $250.00

MDS340-10 Hand Tool Identification Quiz Pack is a collection of quizzes from the MDS340 CD-ROM (Hand Tool Identification). This product is packaged as 10 CD-ROMs and is designed to be distributed to students as they review hand tool identification at individual work stations in a school computer lab, classroom computer, or on home and laptop computers. The quiz packs are ideal for students who need review sessions that provide immediate feedback and who are preparing to participate in Career Development Events. The quiz packs are developed in Microsoft PowerPoint.

Carpentry & Construction

Units..........................

U3009a
Using the Carpenter’s Square, 20p
Price: $2.50

U3045
Metal Roofing & Siding for Farm Structures, 16p
Price: $2.00

U3051b
Planning a Construction Project, 24p
Price: $4.50

This instructional unit is designed to provide instruction to beginners as they learn to plan and construct a wood or metal project. The unit provides step-by-step instruction for developing a project plan, creating a bill of materials, and making a stock cutting list. Additionally the unit provides instruction on developing a procedure for constructing the project. Determining material lists and purchasing materials is discussed with some information on pricing project materials. Example pages for each project planning step are included in the unit. Blank pages for student use are also included in the unit. Sample student evaluation pages are provided in addition to a sample instructor evaluation form.
A chainsaw can be a great laborsaving tool, but it can also be dangerous if you do not know how to operate it correctly. This publication describes how to use a chainsaw for felling, limbing and bucking trees. It also provides detailed information about chainsaw maintenance and safety. Illustrated throughout with color photos and drawings; includes tables on safety guidelines and firewood ratings. Covers the following topics: Preparing to use a chainsaw; Saw operation; Maintenance; Safety; Firewood selection.

Transparencies .................................................................

T426  
Lumber–Buying, Grading, Selecting, Storing and Using, 50 fr., w/guide  
Price: $45.00

Use with the unit U3055 with the same title. Features illustrations, examples, and tables about lumber.

CD-ROMS ...........................................................................

DT422a  
Rafter Marking, 62 fr:  
Price: $55.00

Rafter Marking is a 62-frame PowerPoint revision of the Rafter Marking transparency set with a teacher supplement. This set provides step-by-step directions for marking gable and shed rafters using a framing square. The PowerPoint presentation is supplemented with internal navigation and is designed to work in cooperation with U3009a Using the Carpenter's Square. Building parts are identified and defined as part of this colorful presentation. Teacher supplemental materials include two quizzes and four practice problems, each with a key included on the CD-ROM.

DT423a  
The Steel Square  
Price: $55.00

This presentation provides general information about square types, scales, and tables plus step-by-step directions are provided for marking a brace and stair stringers. Also included are images of roof types and rafter types as they apply to different roof styles. Teacher supplemental materials include a test, 2 quizzes, and 7 practice problems, each with a key.
**Electricity**

**Units, Exercises, Teacher’s Key .................................................................**

- **U3003c**
  - **Planning for Electrical Wiring**, 48p
  - Price: $6.50

- **U3016a**
  - **Electrical Wiring Procedures**, 28p
  - Price: $3.75

- **Z3016b**
  - **Electrical Wiring Exercises**, 28p
  - Price: $3.75

- **U3038**
  - **Using Three-Phase Electrical Power on the Farm**, 8p (bundle of 10)
  - Price: $10.00

- **U3057**
  - **Electrical Controls in Agriculture**, 20p
  - Price: $2.75

- **U3058**
  - **Selecting Electric Motors for Use in Agriculture**, 24p
  - Price: $3.25

- **U3059**
  - **Installing and Caring for Electric Motors in Agriculture**, 28p
  - Price: $3.75

- **U3061**
  - **Selecting Equipment for Electrical Installations**, 24p
  - Price: $3.25

**Transparencies ..........................................................................................................................**

- **T400a**
  - **Wiring Exercises**, 55 fr., w/guide
  - Price: $50.00

The illustrations and diagrams for 48 electrical wiring exercises are clearly drawn and easy to follow. The 32-page study guide discusses and explains each transparency in detail.

**CD-ROMS .................................................................................................................................**

- **DT400a**
  - **Electric Wiring Diagramming – Steps and Examples**
  - Price: $66.00

This on-screen instructional tool of over 430 PowerPoint frames provides a sequential, step-by-step procedure to sketch 20 electric wiring diagrams. The material is organized as 5 PowerPoint units, each with 4 sample exercises. The CD-ROM also contains 9 practice problems, 2 quizzes, and keys for all supporting materials.
Ag Mechanics

MDS300
Electric Wiring Hardware Identification
Price: $119.00

This on-screen instructional resource provides more than 1,200 PowerPoint slides detailing over 170 electric wiring hardware items. In addition to the complete set, the hardware is subdivided into 9 categories: boxes, cable and conduit, connectors and couplings, cord equipment and covers, knockout plugs and lampholders, miscellaneous hardware, receptacles and service equipment, switches and wall plates, and tools. The presentations include a set of images with names, a practice set with only images, and an interactive quiz format that lets the user identify an image among three choices.

MDS300-10
Electric Wiring Hardware Identification Quiz Pack
Price: $250.00

A collection of quizzes-only from the electric wiring identification CD-ROM. The quiz pack is 10 CD-ROMs for distribution to students at individual workstations (school computer lab, classroom computers, home and laptop computers). The quiz packs are ideal for preparing students to participate in Career Development Events.

Machinery

Transparencies..........................................................T440
Basic Principles of Hydraulics, 59 fr., w/guide
Price: $50.00

Emphasis is on hydraulic principles, basic formulas, pistons, pumps, valves, and design functions of hydraulic systems.

Small Engines

Units..........................................................................
U3014
Small Engines–Principles of Operation, Trouble-Shooting & Tune-Up, 16p
Price: $2.00

U3019
Small Engines–Repair and Overhaul, 20p
Price: $2.50

U3020
The Two-Cycle Engine, 20p
Price: $2.50
Ag Mechanics

U3072
Small Gasoline Engine Maintenance, 20p  
Price: $5.50
This unit covers preventative maintenance, 25-hour maintenance, 100-hour maintenance, and storage. Written in an easy-to-understand format, it provides detailed instructions to help students learn basic maintenance tasks. Includes detailed drawings of engines and engine parts. The unit also provides background information regarding oil, air filters, and blade speed, and it explains how to develop a procedure for keeping records on engine maintenance.

SETU3072  
Small Gasoline Engine Maintenance – bundle of 10  
Price: $50.00

CD-ROMS ........................................................................................................................................................................

DT486
Small Gas Engine Parts Identification  
Price: $85.00
This instructional resource provides an introduction to small gas engine parts. It contains a series of PowerPoint presentations covering two-cycle engines, four-cycle engines, two-cycle carburetors, and four-cycle carburetors. Each category includes a presentation with photos and names of engine parts; a presentation with photos and a description of each part and how it functions within an engine; a practice set with photos of engine parts and no names; an evaluation quiz for checking student progress, and a key for the quiz. The engine images include parts from L-head, overhead valve, two-cycle mower engines, and fixed jet carburetors.

DT486-10
Small Gas Engine Parts Identification, Quiz Pack  
Price: $250.00
This is a set of 10 identical CD-ROMs that accompany the Small Gas Engine Parts Identification CD-ROM. Interactive quizzes are developed in PowerPoint to create immediate feedback for students. The quiz sets are ideal for drills and practice, as well as preparation for career development events.

DT488
Small Gas Engine Operating Principles  
Price: $99.00
This instructional resource is designed as an introduction to engine operation. The CD contains eight PowerPoint presentations with over 400 slides describing various engine parts and systems, and how they work in an operating engine. Presentation categories include principles of operation; compression; cooling; fuel systems; governor system; solid-state and battery ignition, and magneto ignition.

Transparencies..........................................................................................................................................................

T489
Small Gas Engines, 50 fr.  
Price: $45.00
Basic principles of small engine operation, repair and overhaul, and maintenance are included.
Units, Test Questions, Other Materials

U2042
Land Surveys and Descriptions, 8p (bundle of 10)
Price: $10.00

Q2042
Test Questions, pkg. of 10 plus key
Price: $2.50

U3010b
Surveying in Agriculture, 44p
$5.50

Z436
Field Book for Surveying Notes
Price: $2.00

CD-ROM

DT310
Introduction to Surveying
Price: $99.00

This instructional resource is designed to introduce the skills used in surveying. The materials are divided into land measurement and instrument surveying. Each category contains several PowerPoint presentations focusing upon skills and accepted practices. The land measurement presentations include: Introduction to Taping, Procedure for Taping, Angles and Perpendiculars, and Measuring Area. The instrument surveying presentations are: Calculations and Formulas, Hand Levels, Field Notebook Entries, Reading the Target Rod, and Setting Up the Instrument. Additionally the CD-ROM contains 15 practice problems, 5 tests, set of keys for all, a printable set of tables, and a blank field notebook page.

Tractors & Large Engines

Transparencies

T485a
Tractor Safety, 50 fr., w/guide
Price: $45.00

Safety rules and procedures presented apply to all sizes of tractors. The 24-page study guide includes information about each transparency.
Welding & Metalwork

Units

U3001a
**Oxyacetylene Welding and Cutting**, 28p
Price: $3.75

U3004a
**Shielded Metal-Arc Welding**, 48p
Price: $6.00

U3027
**Soldering for Home, Farm and Shop Applications**, 24p
Price: $3.00

U3036
**Tungsten Inert Gas (TIG) Welding**, 32p
Price: $4.00

U3037
**Metal Inert Gas (MIG) Welding**, 44p
Price: $5.50

U3080
**Plasma Cutters**, 12p
Price: $3.50

SETU3080
**Plasma Cutters – bundle of 10**
Price: $32.00

This unit provides a detailed introduction to the use of plasma cutters. It includes a description of plasma and plasma cutting, and it covers plasma cutter operation, selection, use, and safety. Illustrated throughout with photos and line drawings; an ideal resource for anyone who needs a basic understanding of plasma cutting and how to operate a plasma cutter.
**Circular** .................................................................

C1396  
*Forest Trees of Illinois*, 340p  
Price: $12.00

This book is the ultimate field guide for outdoor enthusiasts in Illinois. It is a great resource for naturalists, homeowners, landowners, hunters, weekend campers, students, teachers, and natural resources professionals. It provides a comprehensive overview of almost 150 native and introduced tree species that are found in Illinois. Species are presented by common and scientific name. Descriptions include detailed information on growth form, bark, leaves, twigs, buds, flowers, fruit, wood, uses, habitat, range, and distinguishing features. Each description is illustrated with a photo of the bark, drawings of leaves, twigs, and fruit, and an Illinois range map.

**Transparencies** ..........................................................

T780  
*Forest Tree Identification*, 92 fr.  
Price: $70.00

Over 90 native forest species are illustrated with 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.

**CD-ROMS** ................................................................

CD1008  
*Introduction to Arboriculture: Pruning*  
Price: $77.00

This CD contains lessons on how to prune trees for tree health and human safety. Lesson one introduces the principles of pruning. Lesson two covers practices and strategies.

CD1009  
*Introduction to Arboriculture: Tree Identification and Selection*  
Price: $77.00

This resource covers information on plant classification and scientific names; plant characteristics for tree identification; right tree, right place; and selecting healthy, vigorous planting stock.
Agronomy

CD101p
**Diagnosis and Disorders**
Price: $77.00

Learn key factors and strategies of diagnosis. Covers the following topics: Systematic approach to diagnostic process; biotic and abiotic disorders; signs and symptoms of tree disorders; and effects of stress on tree health. There are three lessons on this CD. Lesson one is on general diagnosis. Lesson two is on abiotic disorders. Lesson three is on biotic disorders.

CD1011
**Planting and Early Care**
Price: $77.00

Discover the basics of successful tree planting. Includes information on stock selection, young tree training, planting specifications, and establishment techniques and procedure.

CD1012
**Tree Maintenance**
Price: $77.00

This CD contains three major sections: tree support systems, fertilization, and lightning protection systems.

System requirements for CD1008, CD1009, CD1010, CD1011, and CD1012: Windows 2000 or XP; Pentium III or better; 24X CD-ROM or better; sound

MDS780
**Forest Tree Identification: Leaves and Buds**
Price: $85.00

This unit is designed to teach identification of forest tree leaves and buds. It includes all trees on the Illinois and National FFA Career Development reference lists at the time of production. The CD contains PowerPoint presentations with images of leaves and buds, as well as descriptions of leaf shape, bark characteristics, mature tree size and shape, uses, and native environment. The CD also includes practice sets with no text and interactive quizzes for student drills and exercise.

Chart

**X780 Tree Identification Chart**
Price: $3.50

This double-sided chart is designed to use sequential steps to identify trees from leaves and buds. It includes both broadleaved and coniferous trees commonly found in forests during summer months. Used along with Forest Trees of Illinois, the chart is perfect for training a forestry judging team. The chart is a tri-fold product printed on waterproof and tear-resistant paper for long life and usability.
Grain Production

Units

AU8011
Crop Breeding: Corn, 28p
Price: $3.75

Describes the importance of the corn crop, its breeding history, taxonomic relationships, crop characteristics, and breeding objectives. It includes a glossary and shows the steps in making a controlled cross for the crop.

U4027b
Growing Wheat, 28p
Price: $3.75

U4039b
Corn Production, 20p
Price: $2.75

U4055a
Growing Grain Sorghum, 20p
Price: $2.75

Soils

Units

AU8040
Managing Soil pH: Agronomic Crops, 24p
$3.25

Various sections of this publication discuss soil pH adjustment and include pH and limestone problems to be solved. Activities are comparing pH testing technologies, measuring the pH of the water; and a classroom study of the effect of limestone on field soil.

U4001a
Collecting and Preparing Soil Samples for Testing, 16p
Price: $2.25

U4002a
pH Test for Soil Acidity, 8p (bundle of 10)
Price: $10.00

U4003c
Phosphorus Management, 16p
Price: $2.25

U4004b
Determining Available Potassium in Soils, 12p
Price: $2.00

U4006a
Soil Liming–A Key to Better Farming, 8p (bundle of 10)
Price: $10.00
Agronomy

U4008b
**Potassium Management**, 12p
Price: $1.75

U4009b
**Planning the Nitrogen Program**, 16p
Price: $2.00

U4010a
**Planning a Fertilizer Program**, 8p (bundle of 10)
Price: $10.00

U4011b
**Hunger Signs in Crops**, (with color insert), 12p
Price: $1.65

U4052b
**Understanding Soils**, 24p
Price: $6.50

U4052b-PK
**Understanding Soils**, bundle of 10
Price: $60.00

This is an excellent unit for an introductory course on soil in Illinois. Topics include soil basics; how soils were formed; inherent characteristics of soils; associated land features; other soil components; and urban soils. Use this publication to help your students understand soils and how to evaluate them.

U4053b
Price: $5.50

U4053b-PK
Price: $45.00

This unit features an Illinois land-use scorecard and includes detailed descriptions of each section of the card. The unit describes landscape characteristics; soil profiles; associated soil features; and soil use and management.

**Digital Products**

MDS405
**Introduction to Soil Science CD-ROM**
Price: $55.00

USB405
**Introduction to Soil Science USB Flash Drive**
Price: $55.00

This resource provides an overview of practical soil science. Three slide sets, created in Microsoft PowerPoint, cover soil color; soil texture, and soil structure. The presentations contain a total of more than 160 slides. Also included are quizzes and keys for each session, and a student handout describing how to estimate soil texture by feel.

Available on CD-ROM or USB Flash Drive.
**Transparencies.................................................................**

**T701**  
**Soil Science**, 32 fr.  
Price: $25.00

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

**T702**  
**Soil Testing and Fertility**, 57 fr., w/guide  
Price: $50.00

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.

**Soybeans**

**Unit .................................................................**

**U4033b**  
**Soybean Production**, 20p  
Price: $2.75

**Weeds**

**Units.................................................................**

**U4073**  
**The Weed Factor**, 8p (bundle of 10)  
Price: $10.00

Discusses how weeds and their seeds impact agriculture. Lists primary noxious, secondary noxious, and common weeds that are likely to occur in corn, soybeans, wheat, and oats in Illinois.

**Transparencies .................................................................**

**T700**  
**How Herbicides Work**, 46 fr.  
Price: $40.00

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

**CD-ROMS**

- **MDS707b**
  - **Weed Identification**
  - Price: $85.00
  - This resource includes all the weeds on the IAVAT weed identification list (2007 revision). Presentations include a regular set with images and text descriptions of the weeds; a practice set without weed names appearing by the images, and an interactive quiz presentation which allows the user to choose an image to answer a question. In all, there are nearly 700 frames on this CD.

- **MDS707b-10**
  - **Weed Identification Quiz Pack**, (10 identical CD-ROMs for drill and practice)
  - Price: $225.00

**Miscellaneous**

- **AGRON-13**
  - **Agronomy CDE Resources Set**
  - Price: $700.00
  - Get your CDE agronomy resources in this comprehensive set. We’ve compiled all the materials available from ITCS Instructional Materials to help you train a team for these agronomy CDE areas:
    * Written exam
    * Weed ID
    * Crop ID
    * Placing classes
    * Practicums–insects and soils
  - The set contains 21 resources, including the Field Crop Scouting Manual, the Crop Sciences Laboratory Manual, agronomic crop identification and weed identification CDs, and crop and weed seed samples.

- **Z7003a**
  - **Crop Seed Samples**
  - Price: $45.00
  - This identification set contains 41 crop seeds used in the Illinois Agronomy Career Development Event. Includes a key to the numbered samples.

<table>
<thead>
<tr>
<th>Crop Name</th>
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</thead>
<tbody>
<tr>
<td>Alfalfa</td>
</tr>
<tr>
<td>Alsike clover</td>
</tr>
<tr>
<td>Barley</td>
</tr>
<tr>
<td>Birdsfoot trefoil</td>
</tr>
<tr>
<td>Broccoli</td>
</tr>
<tr>
<td>Bromegrass</td>
</tr>
<tr>
<td>Canola</td>
</tr>
<tr>
<td>Corn</td>
</tr>
<tr>
<td>Cotton</td>
</tr>
<tr>
<td>Cucumber</td>
</tr>
<tr>
<td>Fescue</td>
</tr>
<tr>
<td>Grain sorghum</td>
</tr>
<tr>
<td>Kentucky bluegrass</td>
</tr>
<tr>
<td>Ladino clover</td>
</tr>
<tr>
<td>Lespedeza</td>
</tr>
<tr>
<td>Lettuce</td>
</tr>
<tr>
<td>Lima bean</td>
</tr>
<tr>
<td>Muskmelon</td>
</tr>
<tr>
<td>Oats</td>
</tr>
<tr>
<td>Orchardgrass</td>
</tr>
<tr>
<td>Pea</td>
</tr>
<tr>
<td>Peanut</td>
</tr>
<tr>
<td>Perennial ryegrass</td>
</tr>
<tr>
<td>Popcorn</td>
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<tr>
<td>Pumpkin</td>
</tr>
<tr>
<td>Red clover</td>
</tr>
<tr>
<td>Redtop</td>
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<tr>
<td>Rice</td>
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<tr>
<td>Rye</td>
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<tr>
<td>Safflower</td>
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<tr>
<td>Soybean</td>
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<tr>
<td>Sudangrass</td>
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<tr>
<td>Sugar beet</td>
</tr>
<tr>
<td>Sunflower</td>
</tr>
<tr>
<td>Sweet clover</td>
</tr>
<tr>
<td>Sweet corn</td>
</tr>
<tr>
<td>Timothy</td>
</tr>
<tr>
<td>Tomato</td>
</tr>
<tr>
<td>Vetch</td>
</tr>
<tr>
<td>Watermelon</td>
</tr>
<tr>
<td>Wheat</td>
</tr>
</tbody>
</table>
Z7004a
**Weed Seed Samples**

**Price:** $120.00

This identification set includes 42 weeds listed in the Illinois Association of Vocational Agriculture Teachers (IAVAT) Agronomy Career Development Event rules.

<table>
<thead>
<tr>
<th>Barnyardgrass</th>
<th>Fall panicum</th>
<th>Large crabgrass</th>
</tr>
</thead>
<tbody>
<tr>
<td>Buckhorn plantain</td>
<td>Field bindweed</td>
<td>Musk thistle</td>
</tr>
<tr>
<td>Burdock</td>
<td>Field pennycress</td>
<td>Peppergrass</td>
</tr>
<tr>
<td>Chicory</td>
<td>Giant foxtail</td>
<td>Prickly sida</td>
</tr>
<tr>
<td>Common cocklebur</td>
<td>Giant ragweed</td>
<td>Purslane</td>
</tr>
<tr>
<td>Common lambsquaters</td>
<td>Green foxtail</td>
<td>Quackgrass</td>
</tr>
<tr>
<td>Common mallow</td>
<td>Horseweed (marestail)</td>
<td>Redroot pigweed</td>
</tr>
<tr>
<td>Common milkweed</td>
<td>Ivyleaf morningglory</td>
<td>Shattercane</td>
</tr>
<tr>
<td>Common mullein</td>
<td>Jimsonweed</td>
<td>Shepherd’s-purse</td>
</tr>
<tr>
<td>Common ragweed</td>
<td>Johnsongrass</td>
<td>Velvetleaf</td>
</tr>
<tr>
<td>Curly dock</td>
<td>Ladysthumb smartweed</td>
<td>Waterhemp</td>
</tr>
<tr>
<td>Dandelion</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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**Units**

**Integrated Pest Management Series**

IPM I, Ecology, Crops, and Pests introduces students to management techniques to keep insect and other pest populations at acceptable levels without harm to the environment. IPM II, Why IPM? demonstrates that indiscriminate pesticide use leads to serious problems.

**AU8004**

**Integrated Pest Management I, Ecology, Crops, Pests,** 36p

**Price:** $4.50

**AU8005**

**Integrated Pest Management II, Why IPM?** 36p

**Price:** $4.50

**U4071**

**Nontraditional Crops,** 28p

**Price:** $3.75

Describes several nontraditional crops, including kenaf, guayule, rapeseed, crambe, castor, lesquerella, milkweed, and others. An introductory section lists factors to consider when evaluating nontraditional crops.

**U4074**

**Precision Agriculture,** 28p

**Price:** $5.25

**SETU4074** (bundle of 10)

**Price:** $42.50

This unit provides a basic outline of precision agriculture and its components. The major sections of the publication are Introduction, Soil Sampling, Remote Sensing, Global Positioning Systems, Yield Monitors, Geographic Information Systems, Variable Rate Technology, and The Future.

**U4086**

**Introduction to Plant Biotechnology,** 28p

**Price:** $3.75
Transparencies

T730
**Practical Agronomy**, 40 fr.
Price: $35.00

Provides general illustrations and reference tables for agronomy. Can be used to supplement lectures and talks or for projection during student lab exercises. Major categories are Breeding, Growth and Development, Soils and Nutrition, and Miscellaneous.

Booklets, Manuals, Pocketbooks, and More

**Agronomy Diseases and Pests Picture Sheets**
Price per Bundle: $16.50 (Titles sold only in bundles of 25)

- X798.03 Grain Molds and Vertebrate Storage Pests
- X798.30 Corn Insects–Above Ground
- X798.31 Corn Insects–Below Ground
- X798.40 Soybean Insects
- X799.35 Sorghum Diseases I
- X799.36 Sorghum Diseases II
- X799.41 Soybean Diseases II
- X799.60 Clover Diseases I
- X799.61 Clover Diseases II
- X799.62 Forage Grass Diseases I
- X899.18 Herbicide Injury–Meristematic Inhibitors II

**X830**
**Diseases of Soybeans and Corn**, Pocketbook
Price: $6.50

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.
X840a  
**Vegetative Identification of Common Row Crop Weeds**, Pocketbook  
Price: $12.00  
This spiral-bound pocketbook describes 48 weeds that are common in Midwestern row crops. Color photos throughout.

Z840.1  
**Broadleaf and Grass and Grasslike Weed Vegetative Identification Keys**, Two keys, 8p  
Price: (bundle of 25) $41.00  
These keys describe 27 broadleaf and 20 grass or grasslike weed seedlings found in corn and soybeans. They focus primarily on characteristics of leaf arrangements, true leaves, grass ligules, and cotyledons. Sketches are used to determine proper identification.

X855  
**Waterhemp Management in Agronomic Crops**, 12p Color Booklet  
Price: $3.00  
In 12 pages, this color booklet describes the biology and identification of waterhemp, considers its increased prevalence, and details interactions with soil-applied and postemergence herbicides in corn and soybean fields. Contains color photographs.

X860  
**Crop Plants**, 82p Book  
Price: $15.50  
Each 8 1/2” x 11” booklet has 40 sheets with clear color photographs that help identify plants quickly and accurately. Each crop plant is shown in 4 stages—seed, seedling, mature plant, and flower.
**Agronomy**

**X880e**  
*Field Crop Scouting Manual*, Sixth edition, 240p (manual only)  
Price: $75.00

**CDR880e**  
*Field Crop Scouting Manual CD-ROM* (CD-ROM only)  
Price: $75.00

**SETX880e**  
*Field Crop Scouting Manual Set* (manual + CD-ROM)  
Price: $140.00

This manual is designed to aid in identification and evaluation of common problems in the field. It describes nutrient deficiencies, herbicide injuries, insects, diseases, weeds, and other agronomic crop problems. Filled with color photos, line drawings, and scouting worksheets and guidelines. Revised 2010.

The CD-ROM recreates the printed manual as Adobe Acrobat documents for onscreen viewing, with the added benefit of easy navigation. All the content is fully indexed and searchable by keywords.

**X900**  
*Crop Sciences Laboratory Manual*, 234p  
Price: $65.00

Written by Patricia Stoller, Department of Crop Sciences, University of Illinois at Urbana-Champaign, this manual is a good reference for the agriculture classroom. High school agriculture instructors may find the manual useful for supplementing their class laboratory activities. College and University classes can use it as a class text.

There are color illustrations and color photographs throughout the manual. Each of the 14 chapters has a notes-taking section at the end of the chapter, and there is a multipage laboratory exercise for each chapter.

**CDR900**  
*Instructor Guide to Crop Sciences Laboratory Manual*  
Price: $35.00

The guide contains suggestions to help the instructor coordinate lab activities. These suggestions include a list of potential plants and other materials that can be used for exercises. Lab preparations are outlined and sample answers to lab exercise questions are presented. Bookmark navigation is provided to the 14 chapter exercises. Th CD contains a 46-page Adobe Acrobat document.

Order online @ pubsplus.illinois.edu

ITCS Instructional Materials
Learn how to identify the growth stages of common crops in the Midwest. This publication is intended to assist anyone who needs to scout fields for problems such as weeds, diseases, and insect pests that may interfere with crop growth and yields. The publication covers alfalfa, corn, soybean, sorghum, and small grains (barley, oats, rye, and wheat) with detailed illustrations of every stage of crop growth. Features more than 200 color photos and illustrations, labeled with plant parts and characteristics. Includes a comprehensive glossary of terms used in the publication.

**Pocket Magnifier**  
*Price: $40.50*

Soybean rust lesions are small and good magnification is required for proper examination. This high-quality, 20X folding pocket magnifier with lanyard and carry case is recommended by scouting experts as an essential part of your scouting tools.

**Insect Identification CD-ROM**  
*Price: $35.00*

If you’re looking for the right tool to teach your students about insects, this CD ROM has it all. Insect Identification includes all the insects on the Illinois Association of Vocational Agriculture Teachers Agronomy Career Development Event insect identification list (2007). Presentations include a set with images and text descriptions of the insect, a practice set without insect names, and an interactive quiz set. The CD Rom also includes a short presentation on insect anatomy, insect life cycles, and economic injury. Teachers will like the Quiz Planner for creating multiple quizzes for classroom use. In all, there are more than 150 PowerPoint frames on this CD.

**Agronomic Crop Identification CD-ROM**  
*Price: $80.00*

This resource is designed to help you learn to identify crop plants. The CD contains over 650 PowerPoint frames featuring more than 50 crops. It contains two presentations that include all the crops on the IAVAT (Illinois Association of Vocational Agriculture Teachers) list and the National Crop List used by the National FFA. The presentations include detailed photos of each plant, as well as additional photos of plant parts. Also included are plant descriptions and vocabulary terms.

The CD contains two presentation sets, two practice sets with no names, and two interactive quizzes. A set of definitions are linked to terms in the presentations. Please notice that crops identified by seed only are not included on this CD. Use Crop Seed Samples (Z7003a) to practice crop seed identification.

**Agronomic Crop Identification Quiz Pack**  
*Price: $200.00*

This quiz pack is a set of 10 identical CD-ROMs for student drill and practice. Each CD contains a practice set of crop images without names and an interactive quiz that allows the user to choose a crop image to identify the crop. Provides a great tool for students to use for self-study in the classroom, the school computer lab, or at home.
Advanced Animal Science

**CD-ROMS**

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**ANSC-CD1**

**Introduction to Animal Sciences**  
Price: $75.00  
This DVD includes lecture materials for the “Introduction to Animal Sciences” course (ANSC 100) at the University of Illinois. The materials include 115 modules with PowerPoint slides and audio, presented by the University of Illinois professors. That’s over 20 hours of lecture! This DVD also includes handouts as PDF files.

Topics include beef, companion animals, dairy, horses, poultry, swine, animal behavior, environmental psychology, genetics, meats, microbiology, nutrition, and reproduction.

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**ANSC-CD2**

**Advanced Dairy Nutrition**  
Price: $50.00  
This resource includes lecture material used for Advanced Dairy Nutrition (AnSc 423) at the University of Illinois. Information is presented in 67 training modules, providing 14 hours of lecture. Includes handouts as PDF files.

Topics include energy considerations; protein application; minerals, vitamins, and additives; phase feeding concept; ration formulation; transition feeding; transition health; feeding forages; and feeding systems.

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**ANSC-CD3**

**Advanced Dairy Management**  
Price: $50.00  
This resource contains materials from the Advanced Dairy Management class (AnSc 405) at the University of Illinois. Information is presented in 53 training modules, providing 13 hours of lecture. Includes handouts as PDF files.

Topics include calves and heifers; genetics and matings; business records and management; facilities; nutrient management; forage production; pasture systems; and health, including hoof health, vaccinations, biosecurity, and diseases.

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**ANSC-CD4**

**Milk Secretion, Mastitis, and Quality**  
Price: $50.00  
This resource includes lecture material used for Milk Secretion, Mastitis, and Quality (AnSc 499) at the University of Illinois. Topics include mammary gland anatomy, hormonal control, causes and control of mastitis, milk harvesting, and milk quality. Includes handouts as PDF files.
Managing transition cows is one of the most important but also least understood aspects on dairy farms across the United States. Getting fresh cows off to a healthy start after calving is critical to achieving high milk production, getting cows rebred, and avoiding metabolic disorders.

To assist dairy managers, veterinarians, nutritionists, consultants, and educators; the Four State Dairy Extension Group (University of Illinois, University of Wisconsin, Iowa State University, and University of Minnesota) and Monsanto Dairy co-sponsored and developed a CD ROM providing state-of-the-art information on managing transition cow allowing them reach their genetic potential.

The CD contains more than eight hours of lecture and listening time with Power Point visuals and streaming video. Listen to experts discuss nutrition, health, and housing areas plus cow side techniques to monitor and evaluate results (tool box section). The CD contains 48 modules ranging from 8 to 19 minutes in length.

This educational tool is an interactive case study in which you can visit a virtual dairy farm, look at reports, listen to training modules, and determine what problems are occurring on the farm.

This resource includes lecture material used for Advanced Reproductive Management (AnSc 437) at the University of Illinois. Information is presented in 43 training modules; includes handouts as PDF files.

Topics include: Anatomy and physiology; basics of reproduction; insemination and fertilization; estrus synchronization; pregnancy diagnosis; infertility; reproductive health; nutritional relationships; advanced and emerging technologies; and beef reproductive management.

This resource contains all lectures from the class Principles of Dairy Production, taught by Dr. David Miller, Dr. Mike Hutjens, and other specialists at the University of Illinois.

The objective of the class is to provide a broad overview of dairy production principles and practices in Illinois, the United States, and the world. All major disciplines are discussed, including nutrition, reproduction, genetics, milk secretion, health, heifer growth, milk marketing, housing, waste handling, biotechnology, and international agriculture.
**Units**

U1002c  
**Artificially Inseminating Livestock**, 16p  
Price: $2.00

U1019a  
**Judging Livestock**, 20p  
Price: $2.75

U1061  
**Using Livestock Production Records**, 12p  
Price: $2.00

**Transparencies**

T130a  
**Animal Genetics and Breeding**, 47 fr., w/guide  
Price: $33.90

**CD-ROMS**

MDS130a  
**Expected Progeny Differences and Performance Data**  
Price: $65.00

This on-screen instructional resource helps users understand expected progeny differences (EPDs) and performance data and apply them to the animal breeding industry. The slide sets, created in Microsoft PowerPoint, have been completely updated with the most current information at the time of publication (2015).

This CD includes in-depth explanations of beef, swine, and sheep terminology; introduction to the methods and applications of data; genetic transfer of abnormal traits; practice classes designed to interpret data; and step-by-step recommendations for sorting through a class of production animals. Also included are printable practice problems, livestock standards, term quizzes (with keys), and forms to create student worksheets. All forms can be printed, duplicated and distributed to students. Use this resource for teaching EPDs and performance data; it is also a handy tool for preparing a livestock judging team for performance classes.
MDS103  
**Beef Breed Identification**  
Price: $97.00

Beef Breed Identification CD-ROM is an updated version that includes nearly 60 of the most common beef breeds found in North America. The new images are excellent and slides include breed characteristics as well as breed history. The CD-ROM is an onscreen presentation composed in PowerPoint. It is designed in an organized format for classroom instruction and includes student handouts for note taking. In all the CD-ROM includes over 500 PowerPoint slides.

MDS164c  
**Swine Breed Identification**  
Price: $50.00

Swine Breed Identification CD-ROM is an updated version that includes the 12 most common swine breeds found in the United States. The new images are excellent and slides include breed characteristics as well as breed history. The CD-ROM is an onscreen presentation composed in PowerPoint. It is designed in an organized format for classroom instruction and includes student handouts for note taking. In all the CD-ROM includes over 200 PowerPoint slides.

MDS210a  
**Dairy Breed Identification**  
Price: $50.00

Dairy Breed Identification CD-ROM is an updated version that includes 14 dairy breeds. The new images are excellent and slides include breed characteristics, breed history, average production data, and latest imported breeds. The CD-ROM is an onscreen presentation composed in PowerPoint. It is designed in an organized format for classroom instruction and includes student handouts for note taking. In all the CD-ROM includes nearly 200 PowerPoint slides.

MDS104-10  
**Beef, Dairy, and Swine Breed Identification Quiz Pack**  
Price: $250.00

MDS104-10 Beef, Dairy, and Swine Breed Identification Quiz Pack is composed in the same navigational format as the three instructional CD-ROMs of the updated breed series. Included on each of the 10 CD-ROMs of the quiz pack are the quizzing and interactive sessions only for each species. They can be distributed to students for review or self quizzesing at a classroom workstation, computer lab, or home system. The CD-ROMs are ideal for students in need of review sessions with immediate feedback. In all, each of the 10 CD-ROMs includes nearly 650 slides.

MDS150  
**Practice Judging Livestock**  
Price: $55.00

Practice Judging Livestock is an onscreen resource that utilizes both PowerPoint and Word to instruct students how to judge cattle, swine, and sheep classes. The CD-ROM includes four heifer classes, four steer classes, one bull class, two gilt classes, two market hog classes, one Duroc barrow class, and six market lamb classes. Each class includes a side view, front view, rear view, and top view for swine and sheep. At the conclusion of each class are the official placing and cuts. Oral reasons can be printed as a Word document for each class. One heifer class includes data and a scenario to consider when placing the animals. The image quality is excellent and is appropriate for high school and college livestock evaluation training.
MDS151
Evaluating Beef Cattle
Price: $39.00
Evaluating Beef Cattle is an onscreen resource that utilizes both PowerPoint and Word to instruct students how to properly evaluate bulls, steers, and heifers. The CD-ROM includes two PowerPoint presentations and five resource documents composed in Word. The introductory presentation includes a teacher guide, or script, to instruct students on points of evaluation, desirable and undesirable characteristics with example images, and a wealth of beef cattle judging information. The second presentation includes images of two heifer classes and three steer classes with official placings and cuts. The images are of side, front, and rear views of the animals. The CD-ROM also includes a terminology guide for presenting reasons, an EPD example, data for a heifer class, and reasons for five classes of beef animals. The image quality is excellent and is appropriate for high school and college instruction.

MDS152
Practice Judging Beef Cattle
Price: $35.00
Practice Judging Beef Cattle is an onscreen resource that features five heifer classes, four steer classes, and one bull class. The Simmental heifer class includes data and a scenario to consider when evaluating the animals. All classes have official placings and cuts. Reasons for each class can be printed from the CD-ROM in Word. The practice beef cattle classes are built in PowerPoint and have excellent image quality. Animals can be evaluated from the side and rear. This resource is appropriate for high school and college instruction.

MDS153
Practice Judging Swine
Price: $28.00
Practice Judging Swine is an onscreen resource that features two market hog classes, one crossbred breeding gilt class, one Hampshire gilt class, and one Duroc barrow class. The swine can be viewed from the side, top, and rear for appropriate evaluation. All classes have official placings and cuts. Reasons for each class can be printed from the CD-ROM in Word. The practice swine judging classes are built in PowerPoint and have excellent image quality. This resource is appropriate for high school and college instruction.

MDS154
Practice Judging Market Lambs
Price: $28.00
Practice Judging Market Lambs is an onscreen resource that includes seven market lamb classes. The lambs can be evaluated from the side, front, rear, and top. All classes have official placings, cuts, and printable reasons composed in Word. The practice judging market lambs classes are built in PowerPoint and have excellent image quality. This CD-ROM is appropriate for high school and college instruction.

MDS155
Horse Conformation
Price: $28.00
Horse Conformation is comprised of two presentations built in PowerPoint to instruct students how to evaluate horses and identify them by colors and markings. The evaluation presentation covers balance, quality, muscling, and horse structure. The CD-ROM also includes images of acceptable and unacceptable characteristics. The color and marking presentation identifies the different colors and terms used to describe horses when giving reasons. Images are utilized to distinguish between the colors and unique markings. This resource is appropriate for high school and college instruction.
MDS156
**Practice Judging Halter**
Price: $28.00

Practice Judging Halter is an onscreen instructional material that includes five classes. The classes include yearling Quarter Horse stallions, yearling Quarter Horse fillies, two-year-old Quarter Horse geldings, aged Quarter Horse geldings, and yearling stallions. The horses can be evaluated from the side, front, and rear. All classes have official placings, cuts, and printable reasons composed in Word. The practice judging halter classes are built in PowerPoint and have excellent image quality. This CD-ROM is appropriate for high school and college instruction.

**Feeds & Feeding**

**Unit**

U1013a
**General Facts on Livestock Feeding.** 8p (bundle of 10)
Price: $10.00

**Transparencies**

T131
**Animal Nutrition,** 72 fr., w/guide
Price: $65.00

**Kit**

AK-19
**Feedstuff Education Kit,** complete kit with CD
Price: $165.00

AK-19.2
**Feedstuff Education,** CD-ROM only
Price: $38.50

Feedstuff Education Kit is designed to assist in the instruction of feeds and animal nutrition. This instructional material includes 27 commonly used feed ingredients and 6 processed feeds packaged in protective plastic jars.

The kit includes an instructor’s CD-ROM. The CD-ROM is an onscreen instructional material composed in PowerPoint. Information included on the CD-ROM is feedstuff sources, feed processing, nutritional composition, and terminology. Term quizzes, keys, and student handouts are also included.

**Horses**

**Units**

U1042
**Horse Management,** 20p
Price: $2.75

An introduction to horse care that touches on anatomy, breeds, facilities, equipment, feeding, and health care.
U1043  
**Horse Reproduction**, 12p  
Price: $2.00

Learn the basics about breeding, foaling, and care of the mare, stallion, and foal.

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**Transparencies**

T150  
**Horse Transparencies**, 40 fr.  
Price: $35.00

T151  
**Approved Practices for Horses**, 40 fr.  
Price: $27.35

This material has information on parts of the horse, parts of the hoof, common hoof and legs problems, and conformation tips. It touches on genetics, health, reproduction, and management topics.

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**Meats**

**CD-ROMS**

MDS100a  
**Retail Meat Cut Identification and Technology**  
Price: $99.00

This instructional resource is designed to teach students how to identify retail cuts of meat as well as other practices utilized in meat judging career development events. The CD contains PowerPoint presentations featuring the same images as those on the Retail Meat Cut Flash Cards. The slides provide information on beef, pork, and lamb retail cut identification, location of cut on the carcass, and cooking methods, as well as primal cut identification and definitions of the different types of cuts. Tables are used to demonstrate how to properly identify each cut.

Presentations include a regular set with images and text descriptions of the cuts, a practice contest that includes a combination of 25 images, and an interactive quizzing presentation that allows the user to identify the proper cut among three. It also includes presentations on grading and meat formulation, as well as worksheets to calculate yield grades, preliminary yield grades, formulation word problems, and measuring of the rib eye area. In all, the CD contains over 650 slides.

MDS100a-10  
**Retail Meat Cut Identification and Technology Quiz Pack**, 10 CD-ROMs containing practice set, practice contest, and interactive quizzes from MDS100a  
Price: $250.00
Other

X180c
Retail Meat Cut Flash Cards
Price: $75.00

These flashcards will help students learn to identify retail cuts of meat. The sturdy box contains 175 cards featuring beef, lamb, pork, and variety meat cuts, including all available retail cuts on the National FFA and 4-H meat judging lists.

Each card has a high-quality color photo of the cut on the front side and a brief description, as well as identification for FFA and 4-H contests, on the back. The box also includes detailed section cards with reference photos of each cut of meat. Measures 24” x 36”.

X181
Cuts of Beef/Variety Cuts Poster
Price: $7.00

This poster features the beef and variety cuts from the Retail Meat Cut Flash Cards. Get it with the Cuts of Pork/Lamb Poster and hang them on your classroom wall to use as a quick reference guide for your students. Printed on sturdy, high-quality paper; measures 24” x 36”.

X182
Cuts of Pork/Lamb Poster
Price: $7.00

This poster features the pork and lamb cuts from the Retail Meat Cut Flash Cards. Get it with the Cuts of Pork/Lamb Poster and hang them on your classroom wall to use as a quick reference guide for your students. Printed on sturdy, high-quality paper; measures 24” x 36”.

X183
Set of Two Posters (Beef/Variety and Pork/Lamb)
Price: $12.00

This set includes two posters (Cuts of Beef/Variety Cuts and Cuts of Pork/Lamb). Together, the two posters feature all available retail cuts on the National FFA and 4-H meat judging lists. Use these attractive 24” x 36” posters as a supplement to the Flash Cards.
Sheep

Transparencies

T140
Sheep Transparencies, 50 fr.
Price: $45.00

T141
Sheep Health Management Calendar, 15 fr.
Price: $15.00

Small Animals & Companion Animals

Transparencies

T155
Raising Rabbits, 21 fr., with guide
Price: $25.00

Miscellaneous

Units

U1005
Common Livestock Diseases, 20p
Price: $2.75

U1026b
Digestion in Animals, 8p
Price: $3.00

Learn about the basics of animal digestion. The publication features color illustrations throughout; covers digestion in the mouth, stomach, small and large intestine, as well as absorption of digested foodstuffs.

U1026b-PK
Digestion in Animals, bundle of 10
Price: $27.00

U1032
Castrating, Docking & Dehorning, 8p (bundle of 10)
Price: $10.00

U1053
Using Rope in Animal Agriculture, 12p
Price: $1.35
U1065
**Caring for Animals**, 16p
Price: $1.75

Presents an overall view of humane animal care, from the goals of an animal project to its well-being, quality assurance, and show ring ethics.

U1066
**The Basics of Aquaculture Production**, 24p
Price: $6.25

SETU1066
**The Basics of Aquaculture Production**, bundle of 10
Price: $60.00

This publication provides an overview of commercial and noncommercial fish production. The unit is composed for both the classroom setting and as a resource for the information-seeking individual.

The 24-page publication is filled with colored images, illustrations in each section, and is composed in an easy-to-read, nontechnical format.

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**CD-ROMS**

MDS250
**Dairy Foods**
Price: $35.00

This CD-ROM is an excellent tool to teach dairy food quality and evaluation, and to prepare students for the Dairy Foods Career Development Event. PowerPoint presentations with images and descriptions cover the following topics: introduction to dairy foods; milk samples and how to evaluate defects; cheese identification; milker units; California mastitis test; and dairy vs. non-dairy foods. The CD contains 142 slides.

MDS255
**Dairy Cattle Resources**
Price: $65.00

This instructional resource is a comprehensive training tool to prepare students for skillathon activities related to dairy cattle. It includes six training sessions commonly found when testing student skills in the dairy industry. The sessions are created in PowerPoint for easy classroom presentation. More than 200 slides cover dairy breeds, cow health, dairy herd information (DHI), digestion, feedstuffs and nutrition, and parts of the cow. Includes student handouts, worksheets, quizzes and keys.
Floriculture

Units

AU8020
Growing Plants from Seeds, 44p
Price: $5.50

This publication contains information about germination requirements, special treatments, and planting procedures. Activities include Calculating, Learning about Monocotyledons and Dicotyledons, Germinating Lettuce in Light and Dark, Eliminating Germination Inhibitors, Performing the Warm Germination Test, Performing the Tetrazolium Test for Seed Viability, Making a Seed Storage Chamber, Building a Fluorescent Light Garden, and Building a Cold Frame.

U5006a
Producing Plants by Asexual Propagation, 20p
Price: $2.75

U5041
Herbaceous Perennials for Landscaping, 56p
Price: $7.00

Contains an extensive chart of plant features, plus sections on propagation, designing, planting, maintaining, and shopping for perennials.

CD-ROMS

CD-HO-3
Plant Propagation
Price: $60.00

This CD can help you learn to grow your new plants from seeds or from established plants. This browser-based CD contains hundreds of photos, 52 videos of propagation techniques, and almost 50 detailed drawings and animations. In addition, there are 32 quizzes, many with interactive graphics that allow for testing knowledge hands-on. Includes links out to horticulture resources on the Web.

The three main sections of the CD cover botanical and horticultural basics of propagation; seed propagation; and plant propagation using stems, leaves, and roots (vegetative propagation). Information is clearly presented and is easy to navigate. The glossary has definitions and pronunciations of terms.
MDS641
Floral Design 1: Plant Material ID
Price: $75.00

This PowerPoint CD-ROM is composed of several sections.

- Flower Profiles details 54 cut flowers, with photographs, pronunciations, and information on colors, availability, vase life, care/handling, and design tips.
- Foliage Profiles details 36 foliages (including some you can harvest locally) with information on availability, vase life, care/handling, and design tips.
- Dried Materials illustrates 18 different plant materials that dry well and are useful in designs; also shows designs constructed entirely with dried plant materials.
- Quizzes on flowers and foliages contain all the photographs without names--useful for drill and practice. Each photograph has a sound file so you can get immediate feedback on ID by listening to the pronunciation.
- Interactive Quizzes let the viewer answer onscreen questions by choosing among three photographs. Immediate audio and text feedback is provided.
- Handling Techniques gives detailed instructions on the 5 major ways cut flowers and foliages are stored.

Every cut flower and foliage from the Illinois and national cut flower and foliage ID lists is covered in MDS641.

MDS641-10
Floral Design 1: Plant Material ID Quiz Pack
Price: $250.00

Quiz Pack is a set of 10 identical CD-ROMs with only the quizzes and interactive quizzes. Useful to issue to students for self study in the horticulture classroom, the school computer lab, or at home.

MDS642
Floral Design 2: Principles and Practices
Price: $75.00

Need help teaching the techniques of floral design? Need help with organizing and teaching student design projects? MDS642 can help.

MDS642 is a PowerPoint CD-ROM that is composed of several sections.

- Design principles with script
- The color wheel, with specific examples of color combinations
- Techniques, including wiring, taping, working with floral foam, and transporting designs, and more
- Container styles and designs that work in them
- Identification of tools and supplies; quizzing sections are provided

Step-by-step instructions (including supply lists) are shown for

- a line design in a coffee mug
- a triangle design
- a carnation corsage
- a round centerpiece
- an evergreen wreath
**DVD102**

**Floral Design Techniques**

Price: $100.00

Dianne Noland, floral design instructor at the University of Illinois, presents beginner-level floral techniques and classroom-friendly design projects on this DVD.

The first part of this presentation shows basic techniques, such as wiring flowers and foliage (6:08), working with floral foam (10:10), and packaging and moving designs (4:41).

The second part shows how to construct these five designs:

- a line design in a coffee mug (10:31)
- a triangle design (6:36)
- a carnation corsage (10:13)
- a round centerpiece (14:48)
- an evergreen wreath (18:47)

**MDS641-PK**

**Floral Design Bundle**

Price: $240.00

Order this floral design bundle and save:

1. MDS641 Floral Design 1: Plant Material ID CD-ROM
2. MDS642 Floral Design 2: Principles and Practices CD-ROM
3. DVD102 Floral Design Techniques DVD

**MDS669**

**Poinsettia Production**

Price: $61.00

This CD-ROM is a series of PowerPoint presentations about growing poinsettias. This CD-ROM includes:

- A PowerPoint file with content identical to filmstrip/slide set with the title Poinsettia Production, 78 frames
- An Adobe Acrobat file that is the 17-page script (study guide) for Poinsettia Production
- A hyperlinked series of PowerPoint presentations called A 21-week Poinsettia Crop Album. In all, this series contains 235 digital photos (with comments) taken during the production of a poinsettia crop. This extensive collection of photos can be used as is, or it can be used to create a customized PowerPoint show.
- The freely distributable Adobe Acrobat Reader and PowerPoint Viewer are included on the CD

**Transparencies..........................**

**T620**

**The Principles of Floral Design, 42 fr., w/guide**

Price: $40.00

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.
**Horticulture**

**Other**

X190  
**Horticulture Plant Identification Flash Cards**  
Price: $120.00

This resource is ideal for teaching horticulture plant identification and help your students prepare for horticulture career development events. A sturdy box contains 272 cards featuring all plants on the national and Illinois FFA horticulture judging lists (at the time of printing). Each card shows the plant in full color on one side and provides a description, plant characteristics, and growing conditions on the back.

Section cards describe the 12 plant categories, which include bulbs, underground stems or plants; bedding plants; foliage plants; flowering container plants; cut flowers and foliage; herbs; herbaceous perennials; ground covers and vines; deciduous shrubs; deciduous trees; broadleaf evergreens; and coniferous plants.

Cards measure 5” x 7”; box dimensions are 5.5” x 7.5” x 3.5”.

MDS690  
**Horticulture Plant Identification – Digital Flash Card Set**  
Price: $99.00

This CD-ROM was created as a supplement to the Horticulture Plant Identification Flash Cards. The CD contains the complete set of cards in digital format, as well as a practice set with no names and an interactive quiz.

SETX190  
**Horticulture Plant Identification Set**  
Price: $199.00

Buy the Horticulture Plant Identification Flash Cards and CD-ROM together and save 10%.

**Fruits**

**Units**

U5027  
**Growing Strawberries, 28p**  
Price: $3.75

U5027(Supp)  
**Strawberry Cultivars, 8p (color)**  
Price: $2.00
**DVD**

**DVD101 Pruning and Grafting Fruit Plants**
Price: $100.00

Reveals the what, when, and how of several important horticultural operations. This DVD has more than 81 minutes of video divided into 7 sections, which can be navigated from a menu screen.

- Pruning and Renovating Small Fruits
  - Pruning Grapes (7:45)
  - Pruning Blueberries (11:20)
  - Renovating Strawberries (10:50)

- Tree Grafting
  - Cleft Graft (10:30)
  - Repair Grafts (11:50)
  - T-Bud Graft (14:40)
  - Whip and Tongue Graft (14:10)

**Landscaping & Landscape Materials**

**Units**

**AU8031 Managing Landscape Waste, 28p**
Price: $4.00

This unit explains the scientific aspects of decomposition and outlines strategies for recycling landscape wastes. Includes plans for a 3-bin composting center and an in-class activity that demonstrates best composting techniques.

**U5001a Trees for Landscaping (with 8-page color insert), 44p**
Price: $6.25

**U5003 Fertilizing and Watering Shade and Ornamental Trees, 12p**
Price: $2.00

**U5021 Identifying Tree and Shrub Insects, 16p**
Price: $2.00
Horticulture

U5037
**Plant Hardiness**, 12p
Price: $2.00

U5040
**Pruning and Care of Trees and Shrubs**, 60p
Price: $12.00

Transparencies

T617.1
**Landscape Construction Accessories**, 74 fr
Price: $60.00

T617.2
**Landscape Construction**, 86 fr
Price: $65.00

T617.3
**Landscape Planting and Bed Preparation**, 30 fr
Price: $30.00

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.

MT617.1
**Landscape Construction Transparency Series**
Price: $115.00

Turfgrass

Units

U5008a
**Turfgrass Selection and Establishment**, 28p
Price: $4.00

U5009
**Turfgrass Maintenance in the Midwest**, 32p
Price: $4.50

This unit describes important maintenance principles for lawns. Mowing, Fertilizing, Irrigating, Cultivating and Dethatching, Renovating, Reestablishing, and Other Practices are the major topics. Helpful cultivation, seeding, sodding, and fertilization schedules simplify planning maintenance operations.
**Booklets**

C1393
**Identifying Turf and Weedy Grasses in the Northern United States**
Price: 6.75

C1393-PK
**Identifying Turf and Weedy Grasses in the Northern United States: Value Pack**
(package of 10 copies)
Price: 60.00

This pocket ID booklet can help you identify weedy grass problems in your turf. C1393 Identifying Turf and Weedy Grasses in the Northern United States is a 3.5” x 5”, 64-page booklet that shows 23 turfgrasses and grassy weeds. C1393 includes a convenient key to grasses and illustrations of grass morphology. Each grass or grassy weed has text descriptions and 4 to 5 full-color photos to aid in identification.

C1397
**Identifying Weeds in Midwestern Turf and Landscapes**
Price: 8.50

C1397-PK
**Identifying Weeds in Midwestern Turf and Landscapes: Value Pack**
(package of 10 copies)
Price: 75.00

This easy-to-use guide identifies 37 common weeds in lawns across the Midwest. Each weed is identified with several color photos and brief descriptions of leaves, flowers, stems, and more. Look-alike are also listed so you can learn to spot the difference.

**Vegetables**

**Units**

AU8010
**Crop Breeding: Tomato, 24p**
Price: $2.75

This publication describes the importance of the tomato crop, its breeding history, taxonomic relationships, crop characteristics, and breeding objectives. It includes a glossary and shows the steps in making controlled cross for the crop.
Growing vegetables takes work, but the results are well worth the effort if you plan your garden carefully. Learn how to choose the best location, determine the size of your garden, and select the right garden tools. You will also learn how to prepare the soil and take soil samples for testing.

This publication helps you select vegetable crops, featuring a list of common vegetables and their characteristics. The unit also includes information on handling vegetable seeds and transplants, how to determine the layout of your garden, and how to decide when to plant.

Once your vegetables are planted, you need to know how to care for them to ensure your efforts are fully rewarded. Learn how to cultivate the soil, irrigate, fertilize and control pests. You’ll also find information to help you decide when and how to harvest your vegetables. Includes glossary of common terms. Publication helps you select vegetable crops, featuring a list of common vegetables and their characteristics. The unit also includes information on handling vegetable seeds and transplants, how to determine the layout of your garden, and deciding when to plant.

Set of Preparing for the Vegetable Garden, Planting the Vegetable Garden, and Caring for the Vegetable Garden; one of each publication.
**Horticulture**

U5033
**Growing and Harvesting Herbs, 40p**
Price: $5.00

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**Miscellaneous**

U5038
**Horticultural Plant Names, 12p**
Price: $2.00

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**Transparencies**

T630
**Practical Horticulture, 51 fr.**
Price: $45.00

Provides general illustrations and reference tables for horticulture. Use to supplement lectures and talks or for projection during student lab exercises. Major categories are Growth and Development, Landscaping, Soils and Nutrition, and Miscellaneous.

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**Manuals, Disease Sheets and CD-ROMS**

**Horticulture Diseases and Pests Picture Sheets**

Price: $16.50 per bundle (Sold only in bundles of 25)

- X698.01  **Flower Pests I**
- X698.05  **Houseplant Pests I**
- X698.10  **Interiorscape Pests I**
- X698.11  **Interiorscape Pests II**
- X698.16  **Ornamental Insects**
- X698.17  **Tree & Shrub Pests I**
- X698.31  **Turf Pests I**
- X698.46  **Fruit Pests I**
- X698.61  **Vegetable Pests I**
- X698.76  **Household Pests I**
- X698.77  **Household Pests II**
Horticulture Diseases, Pests, and More

MX600, Book only
Price: $45.00

Spiral-bound booklets of photo identification sheets; each page has one side filled with 20 to 25 detailed color photos; the other side has concise descriptions. Simplifies identification of many horticultural plant diseases. 41 sheets which include: Flower & House Plant Diseases I-VI, Tree Diseases I-III, Woody Ornamental Diseases I, Turfgrass Diseases I, Apple Diseases I & II, Cherry & Plum Diseases I & II, Grape Diseases I, Peach Diseases I & II, Bramble Fruit Diseases I, Strawberry Diseases I & II, Blueberry Diseases I, Vegetable Diseases I-IV, Flower Pests I, Houseplant Pests I, Interiorscape Pests I & II, Fruit Pests I, Ornamental Insects, Tree and Shrub Pests I, Turf Pests I, Vegetable Pests I, Interiorscape Diseases I (Disorders), and Interiorscape Diseases II (Disorders), Turfgrasses for the Midwest, Turfgrass Establishment in the Midwest, Household Pests I & II.

CDR600, (CD-ROM only)
Price: $60.00

CDR600 Horticulture Diseases, Pests, and More is a CD-ROM containing these 41 color photo sheets dedicated to horticultural topics. Each sheet has the front filled with multiple, labeled images of problems and the back of each sheet describes problems.

SETMX600, (CD-ROM + book)
Price: $100.00
**mAGic Kits, Horticulture Kits**

### Poultry mAGic

*ILAK-20

Price: $144.00 (Special Illinois customer price subsidized by Illinois State Board of Education).

AK-20

Price: $180.00

Students will uncover interesting facts about U.S. poultry production through exercises and hands-on experiments. They’ll learn about the anatomy and nutritional value of an egg. They’ll also learn about the history of egg production and find out how poultry dishes are prepared around the world. Kits include a printed activity guide in a 3-ring binder.

**Activity Guide, (CD-ROM Only)**

AK-20.2

Price: $30.00

The CD-ROM contains the printed curriculum guide as an Adobe Acrobat document.

### Insect mAGic

*ILAK-21

Price: $335.00 (Special Illinois customer price subsidized by Illinois State Board of Education).

AK-21

Price: $385.50

Students will learn about the impact of insects on crop production through a variety of lessons and activities. Mapping exercises let students follow butterflies on migration patterns. Students track a day in the life of an insect and learn about wingspan, life cycles, anatomy, and social hierarchy patterns of common insects. Kits include a printed activity guide in a 3-ring binder.

**Activity Guide, (CD-ROM Only)**

AK-21.2

Price: $35.00

The CD-ROM contains the printed curriculum guide as an Adobe Acrobat document.

### Soil mAGic

*ILAK-22

Price: $385.75 (Special Illinois customer price subsidized by Illinois State Board of Education).

AK-22

Price: $444.00

Soils are alive, as students will discover through the lessons in this kit. Students will learn to conduct experiments in soil pH, create soil profiles, and understand the components of soils. They will also unveil the history of crop rotation and dig into the Dust Bowl. Kits include a printed activity guide in a 3-ring binder.

Order online @ pubsplus.illinois.edu
**Activity Guide, (CD-ROM Only)**
AK-22.2
Price: $35.00

The CD-ROM contains the printed curriculum guide as an Adobe Acrobat document.

**Dairy mAGic**
*ILAK-23
Price: $299.75 (Special Illinois customer price subsidized by Illinois State Board of Education).

AK-23
Price: $345.00

Hands-on exercises let students explore the processes of using milk, acids, enzymes, and bacteria to make cottage cheese, yogurt, and ice cream. Students will find out how much milk one cow produces in its lifetime. They'll also dive into history, and they'll learn about issues of supply and demand in the dairy industry. Kits include a printed activity guide in a 3-ring binder.

**Activity Guide, (CD-ROM Only)**
AK-23.2
Price: $35.00

The CD-ROM contains the printed curriculum guide as an Adobe Acrobat document.

**Plant mAGic**
*ILAK-24
Price: $367.50 (Special Illinois customer price subsidized by Illinois State Board of Education).

AK-24
Price: $422.75

This kit offers problem-solving activities in plant propagation, production, and processing. Students will conduct experiments to learn about plant differences and plant ecosystems. They'll also sequence plant products, research the discoveries of George Washington Carver, and look at the impact of crops on the national economy. Kits include a printed activity guide in a 3-ring binder.

**Activity Guide, (CD-ROM Only)**
AK-24.2
Price: $35.00

The CD-ROM contains the printed curriculum guide as an Adobe Acrobat document.
**Machine mAGic**  
*ILAK-25  
Price: $336.50 (Special Illinois customer price subsidized by Illinois State Board of Education).

**AK-25**  
Price: $386.75

Students will learn about the history of farm machinery and the impact of modern farming techniques on families and communities. They’ll also learn how inventors John Deere and Cyrus McCormick helped shape modern agriculture. Hands-on exercises let students identify machinery parts and estimate farm machinery costs.

**Activity Guide, (CD-ROM Only)**  
AK-25.2  
Price: $35.00

The CD-ROM contains the printed curriculum guide as an Adobe Acrobat document.

**Horticulture Science Kit**  
*ILAK-26, Price: $214.50 (Special Illinois customer price subsidized by Illinois State Board of Education).

**AK-26, Price: $247.50**

What’s the role of science in horticulture? The materials in this kit are designed to teach students in grades 7 to 12 about science and how it impacts today’s horticulture industry.

The curriculum covers the major aspects of horticultural science. Students will become familiar with plant taxonomy, and they’ll learn how to grow plants in soil and in soil-less media. They’ll get introduced to plant pests and how to control them. Lab exercises help students understand plant breeding and genetics. A section is devoted to the impact of biotechnology on ornamental horticulture, and students will learn how to conduct DNA analysis to match offspring to parents.

The Horticulture Science Kit includes lesson plans, exercises, student handouts, and quizzes. Each kit is sold as a complete package with printed curriculum and a CD-ROM-version, as well as necessary components for activities and exercises. A CD-ROM with all printed materials may also be purchased separately.

**AK-26.2**  
**Horticulture Science Curriculum CD-ROM**  
Price: $35.00

The CD-ROM contains the printed curriculum guide as an Adobe Acrobat document.

**Horticulture Careers Kit**  
*ILAK-27, Price: $154.00 (Special Illinois customer price subsidized by Illinois State Board of Education).

**AK-27, Price: $177.25**

This kit introduces students to the different areas of the horticulture field. Through hands-on exercises and activities, students learn about a variety of careers in horticulture, including landscape design, turf management, retail industry, marketing, and new product development.

Activities and lessons are designed to help students understand how they can apply skills and interests they already have in today’s horticulture industry. The students will become familiar with the culture, terms, and responsibilities in each employment area. The materials are appropriate for students in grades 7 to 12.
IANSHON KIATS

AK-27.2
Horticulture Careers Curriculum CD-ROM
Price: $35.00

The CD-ROM contains the printed curriculum guide as an Adobe Acrobat document.

AK-28
Illinois mAGic Kit
Price: $550.00

This kit is a multidisciplinary, all-inclusive curriculum that is designed to teach students about agriculture through active discovery. Students learn about a variety of topics ranging from the prairie landscape to the Chicago stockyards, the Lincoln-Douglas debates, and the forests of Southern Illinois.

The kit includes 8 math, 10 English language arts, 11 social studies, and 7 science lessons focused on the state of Illinois. Lessons can be selected to match your region of the state. The lessons meet Illinois State learning standards for grades 4 to 8.

The Illinois mAGic Kit is sold as a complete package that includes necessary components for each lesson, as well as a printed curriculum manual and a CD-ROM version. The CD-ROM version of the manual may also be purchased separately.

AK-28.2
Illinois mAGic Curriculum CD-ROM
Price: $35.00

The CD-ROM contains the printed curriculum guide as an Adobe Acrobat document.

AK-29
Biodiesel Basics: Curriculum and Production Kit
Price: $499.00

Learn about biodiesel production in the context of global energy issues. This hands-on curriculum includes lesson plans and a complete starter kit to produce biodiesel in the science lab. The curriculum contains four lesson plans: introduction to energy; the need for alternative energy sources; the soybean; and biodiesel. Each lesson plan includes a PowerPoint Presentation, handouts, lab exercises, and student quizzes and keys.

The production kit includes a complete set of materials and supplies to produce 200 ml of biodiesel from raw soybean oil. Very specific instructions and clear safety guidelines are also provided. The content and materials are appropriate for high school science classes.

AK-29.2
Biodiesel Kit Refill Pack
Price: $40.00

The refill pack contains additional materials for the Biodiesel Basics: Curriculum and Production Kit. With a refill pack you will be able to make biodiesel six additional times.
**Instructional Kits**

**AK-30**  
**Plant Breeding Curriculum and Kit**  
Price: $325.00

This curriculum introduces students to the field of plant breeding through lessons, activities, and hands-on lab exercises. The curriculum contains four lessons plans, each including student handouts, activities, lab exercises, PowerPoint slides, and student exams with keys.

Lessons include: Plant Breeding Introduction, History and Practice; Reproduction in Plants; Plant Genetics; and Biotechnology. The kit comes with a printed workbook, a CD with a PDF of the workbook and PowerPoint slides, as well as most supplies needed to complete the labs.

The curriculum is appropriate for high school and junior high school students.

**AK-30.2**  
**Plant Breeding Curriculum and CD-ROM**  
Price: $199.00

Printed workbook and CD-ROM only; does not include lab supplies.

**AK-19**  
**Feedstuff Education**  
Price: $165.00 (complete kit)

Feedstuff Education Kit is designed to assist in the instruction of feeds and animal nutrition. This instructional material includes 27 commonly used feed ingredients and 6 processed feeds packaged in protective plastic jars.

The kit includes an instructor’s CD-ROM. The CD-ROM is an onscreen instructional material composed in PowerPoint. Information included on the CD-ROM is feedstuff sources, feed processing, nutritional composition, and terminology. Term quizzes, keys, and student handouts also are included.

**AK-19.2**  
**Feedstuff Education, (CD-ROM only)**  
Price: $38.50

Order online @ pubsplus.illinois.edu  
ITCS Instructional Materials
**FFA, SOEP, Record Books**

**Unit**

U7001b  
**History of the Illinois FFA, 24p**  
Price: $5.75

U7001b-PK  
**History of the Illinois FFA – bundle of 10**  
Price: $55.00

This newly revised unit is a full-color publication covering the history of the Illinois FFA from its creation in 1929 through 2015. It is the first revision since the early 1990s and includes an additional 25 years of new milestones and highlights of the membership.

This is a great introduction for new FFA members, an officer candidate training tool, and a helpful resource for quiz bowl questions. Information in this unit is a great resource for telling the FFA story to current members and alumni. Unit covers the history of the Illinois FFA from the beginning to the 1990s.

**Electronic and Printed Record Book**

R2006  
**EZ Records®, one-year subscription**  
Price: $6.00

A web-based electronic record book for SAE programs in agricultural education. EZ Records® is an SAE record-keeping system designed to record enterprise records, FFA participation, leadership activities, skills learned, and enterprise efficiencies. EZ Records® is rich with features, including autocalculations, inventory records, customized content, unlimited enterprise options, and password protection for file data. Help files are available for each record book page, as well as support by calling (866)289-5468. Access EZ Records® on the Web using most browsers.

Access EZ Records® home page at [http://ezrecords.aces.uiuc.edu](http://ezrecords.aces.uiuc.edu) for additional purchasing information and system requirements. Price is for a one-year subscription for a single user.

R2006T  
**EZ Records Teacher View, one-year subscription**  
Price: (Contact ITCS)

EZ Records Teacher View enables teachers to evaluate and comment on student records, using specialized software. The teacher view permits teachers to evaluate and score individual record book pages, as well as make comments on the record book pages. Records book scores are totaled by enterprise and summarized as a percentile score, with an additional percentile score determined summarizing the entire record book. Individual comments may be viewed and printed. The teacher view is a one-year subscription that must be renewed annually.

To order R2006T EZ Records Teacher View, contact us at ezrecords@aces.illinois.edu.
R9800 Series of SAE Records – 1998

This SAE record book is designed for use in a 3-ring binder. All record book pages are 3-hole punched. The basic book consists of 12 white pages and a gold-colored cover. Each student with a Supervised Agriculture Experience Program needs the basic book. To this basic book, each student will need to add a special section for each Animal, Business and Crop Enterprise in that student's SAE. Certain extra pages are available in pads of 25 sheets for those students who need additional pages for their records. Also, an attractive 3-ring binder with gold-colored cover and spine inserts is available. A practice problem for student use was developed from two previous practice problems. A key to the problem is available.

Sections for Basic Book

R9800
Records of My Supervised Agriculture Experience Program, basic book with cover, 12 white pages, bright yellow cover
Price: $3.75

R9801
Animal Enterprise, 16 yellow pages
Price: $3.00

R9802
Business Enterprise, 14 blue pages
Price: $3.00

R9803
Crop Enterprise, 14 green pages
Price: $3.00

Extra Pages, padded bundles of 25, 3-hole punched

R9804
Record of Experiences – Animal, p. 5AX, yellow
Price: $3.50

R9805
Receipts – Animal, p. 9AX, yellow
Price: $3.50

R9806
Cash and Noncash Expenses – Animal, p. 11AX, yellow
Price: $3.50

R9807
Training Agreement/Training Plan – Business, p. 3BX, blue
Price: $3.50

R9808
Record of Experiences – Business, p. 5BX, blue
Price: $3.50

R9809
Wage/Labor Summary – Business, p. 7BX, blue
Price: $3.50

R9810
Receipts – Business, p. 9BX, blue
Price: $3.50
R9811
Cash and Noncash Expenses – Business, p. 11BX, blue
Price: $3.50

R9812
Record of Experiences – Crop, p. 5CX, green
Price: $3.50

R9813
Receipts – Crop, p. 9CX, green
Price: $3.50

R9814
Cash and Noncash Expenses – Crop, p. 11CX, green
Price: $3.50

**Supplemental Materials**

R9815
Practice Problems for R9800 Record Book
Price: $6.75

R9815bl
Practice Problems for R9800 Record Book–bundle of 10
Price: $60.00

R9817
3-ring Binder for Student SAE Records, (Includes gold-colored cover and spine inserts)
Price: $7.50

DT200b
Record Book Resource Package
Price: $40.00

This CD-ROM provides PowerPoint slides for SAEP record book insert pages in the categories of animals, agriscience, agribusiness, crops, and core. Each presentation contains a set of images with blank record book pages. This instructional resource contains 31 mini-problems for selected pages. The mini problems may be printed, duplicated, and distributed for student use. Each mini-problem is used with a specific student worksheet. The worksheets are record book pages with modifications for worksheet use. Each mini problem has a teacher key. The CD-ROM also contains evaluation suggestions in the form of scorecards. The content can be modified by teachers to meet individual department objectives. The material is designed to blend student activities into classroom presentations and to create a baseline to evaluate SAEP record books.
DT201
**EZ Records User’s Manual**
Price: $75.00

This comprehensive tutorial takes you step by step through all the pages in the EZ Records online record book. You’ll learn what all the entries mean and how to enter, change, and delete data in the book. The material is organized in six PowerPoint presentations with a total of almost 1500 frames. Each presentation opens from a master navigation slide.

### Judging Materials

#### Unit

U1070
**Marking Animal Sciences Contest Cards, 20p**
Price: $2.75

#### Judging Manuals

J100a
**Judging Beef Cattle, 24p**
Price: $5.00

J120b
**Judging and Grading Poultry and Eggs, 48p**
Price: $5.00

J140a
**Judging Sheep, 18p**
Price: $5.00

J150a
**Judging Horses, 32p**
Price: $5.00

J160a
**Judging Swine, 20p**
Price: $5.00
J180f  
**Meat Judging and Grading**, 40p  
Price: $5.00

J250c  
**Judging, Identifying, and Scoring Dairy Products**  
Price: $5.00

This manual is designed to support the preparation of the Dairy Foods CDE. Includes real vs. artificial, sediment discs, milk sample preparation, cheese identification, and more. Manual is used as a resource for test questions.

J790  
**Crop Judging**, 24p  
Price: $5.00

MDS250  
**Dairy Foods**  
Price: $35.00

This CD was created to teach dairy food quality and evaluation, and to help prepare students for the Dairy Foods Career Development Event. PowerPoint presentations with images and descriptions cover the following topics: milk samples, cheese identification, milker units, dairy vs. nondairy, and the California mastitis test. This comprehensive resource with a total of 142 slides is an excellent tool to introduce dairy foods to your classroom and prepare a team for competition.
Judging Samples

Z7002
**Sample Grain Rings** *(available August to December while quantities last)*
Price: $46.75

Z7003a
**Crop Seed Samples**
Price: $45.00

This identification set contains crop seeds used in the Illinois Agronomy Career Development Event. Includes a key to the numbered samples.

- **Alfalfa**
- **Alsike clover**
- **Barley**
- **Birdsfoot trefoil**
- **Bromegrass**
- **Canola**
- **Corn**
- **Cotton**
- **Fescue**
- **Grain sorghum**
- **Kentucky bluegrass**
- **Ladino clover**
- **Lupines**
- **Musk melon**
- **Oats**
- **Orchardgrass**
- **Perennial ryegrass**
- **Popcorn**
- **Pumpkin**
- **Red clover**
- **Redtop**
- **Rice**
- **Rye**
- **Soybeans**
- **Sudangrass**
- **Sugar beet**
- **Sunflower**
- **Sweet clover**
- **Sweet corn**
- **Timothy**
- **Tomato**
- **Vetch**
- **Watermelon**
- **Wheat**

Z7004a
**Weed Seed Samples**
Price: $120.00

This identification set includes the majority of weeds listed in the Illinois Association of Vocational Agriculture Teachers (IAVAT) Agronomy Career Development Event rules.

- **Barnyardgrass**
- **Buckhorn plantain**
- **Cocklebur**
- **Common milkweed**
- **Common ragweed**
- **Curled dock**
- **Fall panicum**
- **Field pennycress**
- **Giant foxtail**
- **Giant ragweed**
- **Green foxtail**
- **Horseweed (Marestail)**
- **Ivy leaf morning glory**
- **Jimsonweed**
- **Johnson grass**
- **Ladysthumb smartweed**
- **Lambsquarters**
- **Large crabgrass**
- **Musk thistle**
- **Peppergrass**
- **Purslane**
- **Quack grass**
- **Red sorrel**
- **Redroot pigweed**
- **Shattercane**
- **Tall morning glory**
- **Velvet leaf**
- **Wild carrot**
- **Wild mustard**
- **Yellow foxtail**

Soil Judging

J700 pkg. of 25
**Land-Use Scorecards** *(Prod.-Ag) 100 pt.*
Price: $5.00

J701 pkg. of 25
**Land-Use Scorecards** *(non-Ag. Use) 116 pt.*
Price: $5.00

J702 pkg. of 10
**Tables for Soil Judging Scorecards**
Price: $2.00
U4053b
Price: $5.50

U4053b-PK
Price: $45.00

**Color Chart for Estimating Organic Matter in Mineral Soils in Illinois**

AG1941
Price: $2.00

AG1941-PK (bundle of 100)
Price: $99.00

This chart helps you get an accurate estimate of the amount of organic matter in your soil. Chart is also sold in money-saving packets of 100.

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**Natural Resources**

DNR01
**Creating Habitats and Homes for Illinois Wildlife**
Price: $27.50

What’s your interest in wildlife? Do you like bird watching, hunting, conservation, or maybe photography? Or do you simply enjoy the beauty of the natural world?

This book can help you find new ways to appreciate and interact with the many forms of wildlife on your land or in your own backyard.

Creating Habitats and Homes for Illinois Wildlife will inspire, instruct, and encourage you to enjoy and conserve the rich wildlife legacy of the Prairie State. It will give you the know-how and the confidence to plan projects that provide habitats and homes for wildlife and to sustain your work once it’s complete.

The help is here to guide your management of grasslands, woodlands, wetlands, croplands, or your own backyard for the benefit of wildlife.

Stunning color photos of wildlife and habitats.
Background information about Illinois wildlife and the natural world.
Practical information on how to create habitats to attract and benefit wildlife.
Guidelines for grasslands, woodlands, wetlands, cropland, and backyards.
Written by specialists from the University of Illinois and the Illinois Department of Natural Resources, this beautiful coffee table book is chock-full of practical ideas to help you create and maintain an environment that will attract and support wildlife on your property.

If you are teaching a course in Natural Resources Conservation Management or Environmental Science, this book is a natural addition to your reference library.