ITCS Instructional Materials Catalog

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

ITCS Instructional Materials
http://www.itcs.uiuc.edu
College of Agricultural, Consumer and Environmental Sciences

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Table of Contents

Agribusiness
Agribusiness Management, Farm Planning, Marketing and Business Management 1

Ag Mechanics
Ag Mechanics Lab 2
Carpentry & Construction 4
Electricity 5
Machinery 7
Small Engines 7
Surveying 8
Tractors & Large Engines 8
Welding & Metalwork 9

Agronomy
Forestry 11
Grain Production 13
Pesticides 14
Soils 14
Soybeans 16
Weeds 16
Miscellaneous 17

Animal Sciences
Breeding & Selection 24
Feeds & Feeding 27
Horses 27
Meats 28
Sheep 30
Small Animals & Companion Animals 30
Miscellaneous 30

Horticulture
Floriculture 32
Fruits 35
Landscaping & Landscape Materials 35
Turfgrass 37
Vegetables 37
Miscellaneous 38

Instructional Kits
mAGic Kits, Horticulture Kits 41
Agilearning 46

Miscellaneous
FFA, SOEP, FFA, SOEP, Record Books 48
Judging Materials 51
Natural Resources 54
# 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 and 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.

## Study Guides
Study guides are 8 1/2" x 11" printed booklets that may accompany transparency sets of the same title and number. They include reduced-size black and white picture frames adjacent to the narration or script for the frame. Study guides are used for narration, to review the presentation, and for independent study. They are included in the price of transparency sets.

## 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.

## AgriLearning and mAGic Kits
AgriLearning kits are designed for grades K to 6 and they help reinforce language arts, reading, mathematics, social science, and agriculture.

The mAGic kits are developed to meet learning standards in English, math, science, and social studies for grades 4 to 8. All materials are packaged in each kit.

## 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.
NOTICE

For all billing, the University Business Office requires a FEDERAL EMPLOYER’S IDENTIFICATION NUMBER (F.E.I.N.) for schools and companies, or a SOCIAL SECURITY NUMBER for individuals. The University has established these as personalized customer numbers for accounting purposes. Your F.E.I.N. may be obtained from the person who prepares your payroll tax for the Federal government. It will be necessary to include this information on all orders to be billed. Orders of $10.00 or more, including shipping, may be billed.

GENERAL INFORMATION

Instructional materials in agriculture listed in this catalog have been developed primarily for use in high schools, junior and community colleges, and universities. Prices for materials are calculated to cover development and production costs on a nonprofit basis. This catalog supersedes all previous Instructional Materials catalogs; prices 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.

Ordering Information

Orders which meet minimum totals are accepted without payment in advance from schools and other recognized educational institutions and businesses when accompanied by official purchase orders and F.E.I.N. or Social Security numbers as previously stated. Orders may be placed online (via secure server) at pubsplus.illinois.edu.

Orders under $20.00 will be shipped media rate, so those customers should allow approximately three weeks for shipping; other orders will be shipped UPS.

Shipping Rates

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Orders may be placed by calling Information Technology and Communication Services. Please have an authorized purchase order number and Federal Employer’s Identification or Social Security number before placing your order by telephone. For orders or information call 1-800-345-6087 (toll-free) or 217-333-2007, or fax 217-333-3917.

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Payment is due upon receipt of invoice. We accept payment by MasterCard, Visa, Discover, American Express, purchase order, and business/personal check. Checks must be drawn upon a U.S. bank and payable in U.S. currency. Prices are subject to change without notice. University policy states that accounts that are unpaid after 30 days will be charged a 1% or $1.00 minimum monthly charge on the amount that is 30 days or more past due. Charges over 120 days old will be sent to a collection agency by the Accounts Receivable Section of the Accounting Division of the University.

Returns for Credit

Our return policy allows return of print publications only. We will not accept returns of kits, CD-ROMs, EZ Records subscriptions, seed sets, or other materials. Credit will be issued ONLY if material is listed in the current catalog, is in original condition, and you have our permission to return the item. Material must be returned prepaid within 90 days of the date of purchase. The invoice number on which the materials were billed must be included with the return. Returned items must be in original condition or they will be sent back to purchaser without credit.

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A statement of total cost of material ordered and shipping charges will be submitted before shipment. Orders must be prepaid, including surface or airmail charges. Payment must be made to the University of Illinois either in the form of U.S. currency money order, or by check drawn on a U.S. bank in U.S. currency. Payment by MasterCard, Visa, Discover, or American Express is accepted.
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Agribusiness Management, Farm Planning, Marketing and Business Management

Units

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

27 laminated 8 1/2” x 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
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.

This unique teaching resource of more than 1,650 slides is designed with a master navigation slide to make it easy to find the desired file for viewing. Internal navigation links the table of contents with each item and permits the user an efficient method of viewing this large collection of information.

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

This product is 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.

The quiz packs provide helpful review sessions for students by providing immediate feedback. The quiz packs are also ideal for anyone preparing to participate in career development events.

The quiz packs are developed in Microsoft PowerPoint and will run well on PC or Mac computer platforms. A Master Navigation file is provided to view the files on the quiz pack.

This is a set of 10 identical CD-ROMs.
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 and the presentations have been developed using Microsoft PowerPoint and should run well on PCs or Macs. The hand tool categories include 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 final set of presentations 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 and should run well on PC or Mac computers. There are over 1,070 frames of PowerPoint on this CD-ROM. A Master Navigation file is provided to view the many files on the Quiz Pack.

**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.
Ag Mechanics

U3055
Lumber: Grading, Selecting, Buying, Using, and Storing, 20p
Price: $2.50

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
**Ag Mechanics**

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 material.

MDS300  
**Electric Wiring Hardware Identification**  
Price: $120.00

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.
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

CD-ROM

DT486
Small Gas Engine Parts Identification
Price: $85.00

This on-screen 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.
Ag Mechanics

Transparencies

T489
Small Gas Engines, 50 fr:
Price: $45.00

Basic principles of small engine operation, repair and overhaul, and maintenance are included.

Surveying

Units, Test Questions, Teacher’s Key, Other Materials.....

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

Q2042
Test Questions, Land Surveys and Descriptions, 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
$99.00

This on-screen 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, procedures for taping, angles and perpendiculars, and measuring area. The instrument surveying presentations include 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
$3.50

SETU3080
**Plasma Cutters**, Set of 10
$32.00

This unit provides a detailed introduction to the use of plasma cutters. It includes a description of plasma and plasma cutting, and covers plasma cutter operation, selection, use, and safety. Illustrated throughout with photos and line drawings, this unit is an ideal resource for anyone who needs a basic understanding of plasma cutting and how to operate a plasma cutter. Also sold in bundles of 10.
**Circular**

C1396  
**Forest Trees of Illinois**, 340p  
$10.00

Since 1927 Forest Trees of Illinois has been the definite introductory field guide for native and introduced trees of the Prairie State. The 10th edition is updated and revised with new illustrations and new information, including the addition of two native tree species. The book 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, 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 Series**  
Price: $77.00

These interactive CD-ROMs were developed as an educational resource for arborists. In the horticulture or forestry classroom, they will have the same benefits.

1. Instructional strategies that simulate job tasks  
2. A high level of interactivity  
3. Self-paced instruction (can accommodate multiple users)  
4. Emphasis on visuals, including video and other graphics  
5. Digital audio that enhances text  
   A system of instant feedback that engages the learner  
6. Quiz questions  
7. Glossary of key terms with definitions and pronunciations

CD1008 Pruning 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

Tree Identification and Selection has these objectives:
1. Understand how all plants are classified and how scientific names are based on the classification system.
2. Explain what scientific names are, why they are used, and how they are written.
3. Explain how plant characteristics, such as growth habit, texture, and color, can be used in tree identification.
4. Describe how leaf arrangement is used to help identify trees.
5. Become familiar with the various leaf shapes and types of leaf margins, bases, and apices.
6. Learn to use bud and twig characteristics to identify trees without leaves.

CD1010
**Diagnosis and Disorders**
Price: $77.00

Objectives:
1. Understand the principles of a systematic approach to the plant diagnostic process.
2. Explain how stress can weaken a tree, predisposing it to secondary problems.
3. Learn to recognize the signs and symptoms of tree disorders.

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

Objectives:
Planting
1. Learn the techniques and procedures used to plant trees.
2. Understand how using proper techniques can improve survival and accelerate establishment.
3. Be familiar with the various types of nursery stock.
4. Understand that each stock has its advantages, limitations, and proper planting techniques.

Early Care
1. Understand the special requirements of newly transplanted trees and become familiar with early-care procedures.
2. Understand the nutrient requirements of newly planted trees and learn which types of fertilizers are acceptable and which could be potentially detrimental to an establishing tree.
3. Understand the benefits associated with proper mulching techniques.
4. Learn the techniques used for, as well as the advantages and disadvantages of, staking or guying newly planted trees.
5. Learn how to prune a newly planted tree and how to train a young tree to develop a strong branch structure.
6. Become familiar with which information should be included when writing or accepting written planting specifications.

CD1012
**Tree Maintenance**
Price: $77.00

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

Tree Support Systems
1. Determine when a tree might be helped by the installation of cables, guys, or bracing rods.
2. Discuss the limitations of cabling and bracing systems.
3. Explain the different ways trees can be cabled, braced, or guyed.
4. Illustrate the techniques and materials used for cabling and bracing.
5. Recognize the fact that trees that have been cabled, braced, or guyed should be inspected periodically to ensure proper functioning of the tree support system.

Fertilization
1. Become familiar with the essential elements that trees require and how these elements are absorbed.
2. Understand the rationale for fertilizing urban trees.
3. Explain the advantages and disadvantages of some fertilizers.
4. Describe the different methods of fertilizer application and the advantages and disadvantages of each.
5. Discuss the problems that can be associated with excessive fertilization and leaching.
6. Explain why determining nutritional requirements and availability is the first step prior to developing fertilization recommendations.

Lightning Protection Systems
1. Discuss the basic principles of lightning-strike physics.
2. Present the circumstances under which a lightning protection system may be recommended for trees.
3. Discuss the probability of lightning damage to trees based on their size, species, and location.
4. Describe the design of a basic lightning protection system and some of the installation procedures.
5. Understand the limitations of tree 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

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
Pesticides

Units

**Safe Use of Farm Chemicals Series**
Safety in the use, storage, and application of agricultural chemicals is a common goal of agriculturists and the general public.

**U4080**
*Pesticide Use: A Benefit/Risk Analysis*, 20p
Price: $2.75

**U4081**
*Reading Chemical Container Labels*, 16p
Price: $2.25

**U4082**
*Using Farm Chemicals Safely*, 24p
Price: $3.25

**U4083**
*Managing the Environmental Impact of Pesticides*, 24p
Price: $3.25

**U4084**
*Pesticide Application: Equipment & Calibration*, 28p
Price: $3.75

**U4085**
*Glossary of Pesticide Terms*, 8p (bundle of 10)
Price: $10.00

Transparencies

**T790**
*Safe Use of Pesticides*, 40 fr., w/guide
Price: $35.00

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

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.
Agronomy

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

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)
$10.00

U4011b
Hunger Signs in Crops, (with color insert), 12p
Price: $2.00

U4052b
Understanding Soils, 24p
Price: $6.50

U4052b-pk
Understanding Soils, bundle of 10
$60.00

The revised edition of this unit is updated with new information and color throughout, as well as a new section on urban soils. Topics include soil basics; how soils were formed; inherent characteristics of soils; associated land features; other soil components; and urban soils. This is an excellent unit for an introductory course on soils in Illinois. Use this publication to help your students understand soils and how to evaluate them. Sold individually or in bundles of 10.
Agronomy

U4053b
**Soil Judging in Illinois. Using the Illinois Land-Use Scorecard**
$5.50

This newly revised unit features an updated Illinois land-use scorecard, and it includes detailed descriptions of each section of the scorecard. The unit describes landscape characteristics, soil profiles, associated soil features, and soil use and management. Sold individually or in bundles of 10.

**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

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

Weeds

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.

**CD-ROMS**

**MDS707b**  
*Weed Identification*, In all, there are nearly 700 frames on this CD.  
Price: $85.00

This is a PowerPoint CD-ROM for teaching weed identification. It includes all the weeds on the IAVAT weed identification list (2007 revision). Presentations include 1) the regular set with images and text descriptions of the weeds, 2) a practice set without weed names appearing by the images, and 3) a set that is an interactive quiz presentation which allows the user to choose an image to answer a question.

**MDS707b-10**  
*Weed Identification Quiz Pack*, (10 identical CD-ROMs for drill and practice)  
Price: $250.00

**Miscellaneous**

**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.

- Alfalfa
- Alsike clover
- Barley
- Birdsfoot trefoil
- Broccoli
- Bromegrass
- Canola
- Corn
- Cotton
- Cucumber
- Fescue
- Grain sorghum
- Kentucky bluegrass
- Ladino clover
- Lespedeza
- Lettuce
- Lima bean
- Muskmeion
- Oats
- Orchardgrass
- Pea
- Peanut
- Perennial ryegrass
- Popcorn
- Pumpkin
- Red clover
- Redtop
- Rice
- Rye
- Safflower
- Soybeans
- Sudangrass
- Sugar beet
- Sunflower
- Sweet clover
- Sweet corn
- Timothy
- Tomato
- Vetch
- Watermelon
- Wheat
**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. Color illustrations appear throughout the unit, and a companion Web site of precision agriculture Web links has been prepared.

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**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.
**Agronomy**

**U4086**

*Introduction to Plant Biotechnology*, 28p  
Price: $3.75

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**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.

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**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*
- X799.60  *Clover Diseases I*
- X799.61  *Clover Diseases II*
- X799.62  *Forage Grass Diseases I*
- X799.80  *Oat Diseases*
- X899.07  *Soybean Herbicide Injury II*
- X899.16  *Injury Symptoms from Selected Herbicides*
- X899.18  *Herbicide Injury—Meristematic Inhibitors II*

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**X780**

*Tree Identification Chart*  
$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 Tree Identification Chart is a tri-fold product printed on waterproof and tear-resistant paper for long life and usability.
**Diseases and Pests Binder**
A 3-ring binder containing all 74 color photo sheets is organized with 25 tab dividers. Major divisions of the binder include diseases, herbicide injury, pests, and weeds of agronomic and horticultural crops.

MX800
3-ring binder with 25 tab dividers and 74 color photo sheets
Price: $45.00

X800
3-ring binder with 25 tab dividers
Price: $15.00

**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: $11.00

This spiral-bound pocketbook has been revised and expanded. Describes 48 weeds.

**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.

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

CDR880e, CD-ROM only  
Price: $75.00

SETX880e, 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. The freely distributable Adobe Acrobat Reader is included on the CD-ROM.
X900, manual only  
**Crop Sciences Laboratory Manual**, 234p  
Price: $60.50

CDR900, CD-ROM only  
Price: $30.25

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.

An instructor guide CD-ROM consists of a 46-page Adobe Acrobat document. 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. A freely distributable Adobe Reader is included on the CD-ROM.

X905  
**Growth Stages of Agronomic Crops**, 68p  
Price: $19.00

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 original color photos and illustrations, labeled with plant parts and characteristics. Includes a comprehensive glossary of terms used throughout the publication.

X882  
**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.
MDS708  
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 (the Illinois list is a subset of the national Agronomy CDE list of 38 insects). Presentations include:

- a set with images and text descriptions of the insects
- a practice set without insect names by the images
- a set that is an interactive quiz presentation, which allows the user to choose an image to answer a question.

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.

MDS709  
Agronomic Crop Identification  
$80.00

This resource is designed to help the user learn to identify crop plants. The CD contains more than 650 PowerPoint frames featuring over 50 crops. It includes all of the crops on both the IAVAT (Illinois Association of Vocational Agriculture Teachers) list and the National Crop List used by the National FFA. Presentations feature detailed photos of each plant with additional photos of plant parts, as well as plant descriptions and vocabulary terms. The CD includes National and Illinois crop ID list sets; two practice sets without names; keys to practice sets; and two interactive quizzes that allow students to click on a crop image to identify the crop. A set of definitions are linked to terms in the presentations. Please notice that crops that are identified by seed only are not included on this CD. Use Crop Seed Samples (Z7003a) to practice crop seed identification.

MDS709-10  
Agronomic Crop Identification quiz Pack  
$200.00

Designed for student drill and practice, this quiz pack is a set of 10 identical CD-ROMs. Part 1 of the CD is a practice set of crop images without names and part 2 is an interactive quizzing presentation, which allows the user to choose a crop image to answer an identification question. Provides a great tool...
Breeding & Selection

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: $45.00

CD-ROMS

MDS130
Expected Progeny Differences and Performance Data Interpretation
Price: $55.00

An onscreen instructional material designed to assist users to understand EPDs (expected progeny differences) and performance data. This set is composed in Microsoft PowerPoint and includes PC or Mac version.

This CD includes in-depth explanations of beef, swine, and sheep terminology, explanation of EPD calculations, 28 practice classes designed to interpret data, and an introductory session with step-by-step recommendations to sort through a class of production animals. The CD also includes printable student handouts, practice problems, livestock standards, term quizzes, and forms to create student worksheets. All forms can be printed, duplicated, and distributed to students. Keys are provided for the term quizzes.

This resource would be appropriate when teaching EPDs and performance data, or a beneficial tool to prepare a livestock judging team for performance classes. The presentation includes over 300 slides.
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 quizzing 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.
Animal Sciences

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.
Animal Sciences

U1043
Horse Reproduction, 12p
Price: $2.00
Learn the basics about breeding, foaling, and care of the mare, stallion, and foal.

Transparencies

T150
Horse Transparencies, 40 fr:
Price: $35.00

T151
Approved Practices for Horses, 40 fr:
Price: $35.00
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.

Meats

CD-ROM

MDS100
Retail Meat Cut Identification and Technology
Price: $91.00
Retail Meat Cut Identification and Technology is an onscreen instructional material composed in Microsoft PowerPoint and should run well on PCs or Macs. Image quality is excellent. This CD includes a wide array of information on beef, pork, and lamb cut identification, location of cut on the carcass, and cooking methods. Also included in the CD is an orientation session that includes primal cut identification and definitions of the different types of cuts. Presentations include a regular set with images and text descriptions of the cuts, a practice set that includes only the identification features without the names of the cuts, a practice contest that includes a combination of 30 images, and an interactive quizzing presentation which allows the user to identify the proper cut among three. In all, this CD includes over 700 slides.

MDS100-10
Retail Meat Cut Identification and Technology Quiz Pack, 10 CD-ROMs containing practice set, practice contest, and interactive quizzes from MDS100
Price: $250.00
X180c
**Retail Meat Cut Flash Cards**
$75.00

These flashcards will help students quickly learn to identify retail cuts of meat. 175 cards featuring beef, lamb, pork, and variety meat cuts include all available retail cuts on the National FFA and 4-H meat judging lists. High-quality color photo on the front side of each card and a brief description of the cut on the back of the card, as well as identification for FFA and 4-H contests on each card. The box also includes detailed section cards with reference photos of each cut of meat.

X181
**Cuts of Beef/Variety Cuts Poster**
$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 in your classroom to use as a quick reference guide for your students. 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.

X182
**Cuts of Pork/Lamb Poster**
$7.00

This poster features the pork and lamb cuts from the Retail Meat Cut Flash Cards. Get it with the Cuts of Beef/Variety Cuts Poster and hang both in your classroom to use as a quick reference guide for your students. 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.

X183
**Set of Two Posters (Beef/Pork/Lamb)**
$12.00

This set includes two posters (Cuts of Beef/Variety Cuts; Cuts of Pork/Lamb Poster), together featuring all available retail cuts on the National FFA and 4-H meat judging lists. Each poster measures 24” x 36”.

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**Animal Sciences**

**Miscellaneous**

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Order Online @ pubsplus.illinois.edu
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., w/guide
Price: $25.00

Miscellaneous

Units

U1005  
Common Livestock Diseases, 20p
Price: $2.75  

U1026a  
Digestion in Animals, 4p (bundle of 10)
Price: $10.00  

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

U1053  
Using Rope in Animal Agriculture, 12p
Price: $2.00
U1065

**Caring for Animals**, 16p
Price: $2.00

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.

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U1066

**The Basics of Aquaculture Production**
Price: $6.25/single copy

**SETU1066**
Price: $60.00  (bundle of 10)

The Basics of Aquaculture Production is 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.

Topics covered in The Basics of Aquaculture Production include:

- Introduction to Aquaculture
- History of Aquaculture
- Methods of Production
- Types of Aquaculture Production
- Feeding
- Water Quality
- Fish Anatomy
- Life Cycle of a Fish
- Aquatic Plants
- The Aquatic Food Chain

Each subject area includes a descriptive approach to understanding and managing an aquaculture system. The 24-page publication is filled with colored images, illustrations in each section, and is composed in an easy-to-read, nontechnical format.
Floriculture

Units

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

Has 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 f oliages (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
Horticulture

**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: $250.00

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.
**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 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.
Horticulture

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

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.

Booklet

C1393  
_Identifying Turf and Weedy Grasses in the Northern United States_  
Price: 6.25

C1393-PK, (package of 10 copies)  
Price: 55.00

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.

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.

U5030  
_Preparing for the Vegetable Garden_, 12p  
Price: $2.00

U5031  
_Planting the Vegetable Garden_  
Price: $2.50
**Horticulture**

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<th>Code</th>
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<th>Pages</th>
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<td>U5032</td>
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<td>16p</td>
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<td>U5033</td>
<td><em>Growing and Harvesting Herbs</em></td>
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**CD-ROM**

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<th>Code</th>
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<tr>
<td>CD-HO-2</td>
<td><em>A Beginner's Guide to Vegetable Gardening</em></td>
<td>$19.00</td>
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</table>

Illustrated with more than 100 photographs, color graphics, and video clips, this is an excellent resource for introducing the topic of vegetable gardening in a horticulture class. Web links and a quiz are included in the content. This CD guides you through planning a vegetable garden, planting seeds and seedlings, and growing 30 of the most popular vegetables.

**Miscellaneous**

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<tr>
<td>U5038</td>
<td><em>Horticultural Plant Names</em></td>
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**Transparencies**

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<tr>
<td>T630</td>
<td><em>Practical Horticulture</em></td>
<td>51fr</td>
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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.
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
- X699.01 Flower & Houseplant Diseases I
- X699.02 Flower & Houseplant Diseases II
- X699.03 Flower & Houseplant Diseases III
- X699.04 Flower & Houseplant Diseases IV
- X699.05 Flower & Houseplant Diseases V
- X699.06 Flower & Houseplant Diseases VI
- X699.10 Interiorscape Diseases I (Disorders)
- X699.11 Interiorscape Diseases II (Disorders)
- X699.16 Tree Diseases I
- X699.17 Tree Diseases II
- X699.18 Tree Diseases III
- X699.30 Woody Ornamental Diseases I
- X699.31 Turfgrass Diseases I
- X699.35 Turfgrasses for the Midwest
- X699.36 Turfgrass Establishment in the Midwest
- X699.46 Apple Diseases I
- X699.47 Apple Diseases II
- X699.48 Cherry & Plum Diseases I
- X699.49 Cherry & Plum Diseases II
- X699.50 Grape Diseases I
- X699.51 Peach Diseases I
- X699.52 Peach Diseases II
- X699.53 Bramble Fruit Diseases I
- X699.54 Strawberry Diseases I
- X699.55 Strawberry Diseases II
- X699.56 Blueberry Diseases I
- X699.61 Vegetable Diseases I
- X699.62 Vegetable Diseases II
- X699.63 Vegetable Diseases III
- X699.64 Vegetable Diseases IV

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. All the sheets are rendered as Adobe Acrobat files, so the color images can easily be viewed on screen. The entire content of the CD is searchable and navigation is fully integrated. Pages can be printed directly from the CD. The freely distributable Adobe Acrobat Reader (for Windows 95/98 and Windows 2000/XP) is bundled on the CD-ROM for convenient installation on machines that need it. A readme file is included, giving directions about where to start, viewing and printing pages, and using the CD-ROM most effectively.
SETMX600, (CD-ROM + book)
Price: $100.00
**Poultry mAGic**  
*ILAK-20  
Price: $144.00

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: $35.00

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**Insect mAGic**  
*ILAK-21  
Price: $335.00

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

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**Soil mAGic**  
*ILAK-22  
Price: $385.75

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.

**Activity Guide, (CD-ROM Only)**  
AK-22.2  
Price: $35.00
**Instructional Kits**

**Dairy mAGic**
*ILAK-23
Price: $299.75

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

**Plant mAGic**
*ILAK-24
Price: $367.50

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

**Machine mAGic**
*ILAK-25
Price: $336.50

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
Horticulture Science Kit
*ILAK-26, Price: 214.50

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.

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

The CD-ROM recreates the printed curriculum guide in the Horticulture Science Kit as an Adobe Acrobat document. The 73-page document can be viewed on screen, printed by section or the entire document, including student worksheets and transparency masters. Included are 5 lessons on plant taxonomy, growing media, plant pests, plant breeding and genetics, and biotechnology. The freely distributable Adobe Acrobat Reader is included on the CD-ROM.

Horticulture Careers Kit
*ILAK-27, Price: 154.00

AK-27, Price: $177.25

What are the career opportunities if you like to work with plants or landscaping? 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.

The Horticulture Careers 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.

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

The CD-ROM recreates the printed curriculum guide in the Horticulture Careers Kit as an Adobe Acrobat document. The 53-page document can be viewed on screen, printed by section or the entire document, including student worksheets and transparency masters. Included are 9 lessons on careers in horticulture, ranging from landscape design to retail, marketing, and research.
Instructional Kits

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 recreates the printed curriculum guide in the Illinois mAGic Kit as an Adobe Acrobat document. The 470-page document can be viewed on screen, printed by section or the entire document, including student worksheets and transparency masters. Included are 8 math lessons, 10 English language arts lessons, 11 social studies lessons, and 7 science lessons. The freely distributable Adobe Acrobat Reader is included on the CD-ROM.

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

Teach your students 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 content and materials are appropriate for high school science classes. 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. Lab kit replenishment materials are also available.

AK-29.2
Biodiesel Kit Refill Pack
$40.00

This refill pack contains additional materials for the Biodiesel Basics production kit. The refill pack includes 1/2 gallon of soybean oil; 370 mL of methanol; six 2.5 g potassium hydroxide pellets packets; three replacement fine discard stones; and one roll of paper towel. This provides materials for six batches of biodiesel.
**AK-30**

**Plant Breeding Curriculum and Kit**

$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. The curriculum is appropriate for 7-12 grades. Lesson topics 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.

**AK-30.2**

**Plant Breeding Curriculum and CD-ROM**

Price: $199.00

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

**AK-12**

**Biotechnology Applications in Agriculture**

Price: $345.00 (includes CD-ROM)

This kit provides teachers and students an opportunity to get “hands-on” learning experiences with one of today’s hottest topics—biotechnology. The kit contains all the materials needed to conduct each activity of the kit. A teacher’s guide outlines each lesson and activity, and correlates the lessons with Illinois Learning Standards in Science, Social Studies, English and Language Arts, and Mathematics. This kit contains a CD-ROM (can be purchased separately) with multiple PowerPoint presentations.

**AK-12.3**

**Biotechnology Applications in Agriculture CD-ROM, version 1.1**

Price: $45.00

This revised CD-ROM includes 10 Microsoft PowerPoint presentations illustrating the applications of biotechnology in agriculture. It contains a copy of the 67-page activity guide as a Microsoft Word document and in Adobe Acrobat pdf format. The directions for conducting an electrophoresis lab activity are provided using PowerPoint to demonstrate the lab procedures and illustrate the anticipated results. Copies of the pretest, posttest and keys are included along with the activity sheet masters and keys to activity sheets. Bundled on the CD-ROM is a useful readme file and the free Acrobat Reader program. Designed for grades 7 to 10.

**AK-12.1**

**Biotechnology Applications in Agriculture—Consumable Replacement Pack**

Price: $135.00
AgriLearning Kits (appropriate for grades K to 6).............

AK-13
Pondering Pizza: A Slice of Agriculture
Price: $337.75

First in a series of agriLearning kits designed to reinforce language arts, reading, mathematics, social science, and agriculture for grades K to 6. Pondering Pizza provides a unique way to learn about food, plants, and animals. By looking at a slice of pizza, users will learn how all the ingredients begin on farms, are processed, distributed, and made into a tasty meal. Students will explore Planet Pizza via video and visit a real “pizza farm.” Includes a pizza fractions game and many other resources.

AK-14
Dairy Cow Capers: Exploring Dairy Farming and Nutrition
Price: $260.25

Explore dairy farming in action. Through videos and books, experience the life of dairy cows on the farm and see a veterinarian at work. Follow the path milk takes as it travels from cow to you. Learn about the nutritional value of dairy products and try your hand at making butter. This kit may be used alone or as a perfect supplement to agriscience kit AK-07 Dairy Delights—Good Nutrition from Milk. Activities can accommodate up to 30 students.

AK-15
Getting to the Core: Apples and Orchards
Price: $340.00

How do apples grow? Where do all the varieties of apples come from? Learn the answers to these questions and more. Take an inside look at apples and their history. Getting to the Core: Apples and Orchards includes hands-on activities and games, things to make and things to eat, videos, posters, and books.
AK-17

**Eggsploring Poultry: Cracking the Egg**

Price: $265.00

Crack the mystery of eggs and see a miracle in 21 days! Eggsploring Poultry is filled with books on embryology, videos, poultry facts, games and other hands-on activities.

AK-18

**Pumpkin Patch: A Vine Through Time**

Price: $283.00

Discover the wonders of pumpkins. Watch tiny seeds grow into several varieties of pumpkins in a time-lapse video and learn how to prepare the soil for next year’s crop. The Pumpkin Patch contains posters, books, hands-on activities, recipes, and fascinating pumpkin facts.

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
**FFA, SOEP, Record Books**

**Unit**
U7001a

**History of the Illinois FFA**, 16p
Price: $2.00

This 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 the following browsers:

- Firefox 1.0 and above
- Internet Explorer 6.0 and above
- Mozilla 1.7 and above
- Netscape 7.0 and above
- Opera 7.0 and above
- Safari 1.2 and above

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_help@aces.uiuc.edu or (866) 289-5468.
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: $3.00

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
Miscellaneous

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

Practice Problems for R9800 Record Book
R9815, Price: $6.7
R9815bl (bundle of 10), Price: $60.00

R9816 under revision
Key to Practice Problem, (R9815)
(inquire about availability)

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 presents 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 PowerPoint 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.
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
**Miscellaneous**

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

**Judging Samples**

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

Z7003  
**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
- Alike clover
- Barley
- Birdsfoot trefoil
- Bromegrass
- Canola
- Corn
- Cotton
- Fescue
- Grain sorghum
- Kentucky bluegrass
- Ladino clover
- Lespedeza
- Musk melon
- Oats
- Orchard grass
- Perennial ryegrass
- Popcorn
- Pumpkin
- Red clover
- Redtop
- Rice
- Rye
- Soybeans
- Sudangrass
- Sugar beet
- Sunflower
- Sweet clover
- Sweet corn
- Timothy
- Tomato
- Vetch
- Watermelon
- Wheat
Z7004
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  Giant foxtail  Lambsquarters  Shattercane
Buckhorn plantain  Giant ragweed  Large crabgrass  Tall morningglory
Cocklebur  Green foxtail  Musk thistle  Velvetleaf
Common milkweed  Horseweed (Marestail)  Peppergrass  Wild carrot
Common ragweed  Ivyleaf morningglory  Purslane  Wild mustard
Curled dock  Jimsonweed  Quackgrass  Yellow foxtail
Fall panicum  Johnsongrass  Red sorrel
Field pennycress  Ladysthumb smartweed  Redroot pigweed

Soil Judging

J700a pkg. of 25
Land-Use Scorecards (Prod.-Ag) 100 pt.
Price: $5.00

J701a pkg. of 25
Land-Use Scorecards (non-Ag. Use) 116 pt.
Price: $5.00

J702b pkg. of 10
Tables for Soil Judging Scorecards
Price: $2.00


AG1941
Price: $2.00

AG1941-PK (bundle of 100)
Price: $75.00

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.
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, croplands, 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.