**Forestry**

**Circular** .................................................................

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

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

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

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

Over 90 native forest species are illustrated with leaf, flower and/or fruit, and leaf arrangement characteristics. An enlarged twig illustration shows terminal buds and leaf scars in sufficient detail to teach identification features.

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

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

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

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

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

Order online @ pubsplus.illinois.edu

ITCS Instructional Materials
CD101p  
**Diagnosis and Disorders**  
Price: $77.00

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

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

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

CD1012  
**Tree Maintenance**  
Price: $77.00

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

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

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

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

Chart  

**Tree Identification Chart**  
Price: $3.50

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

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

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

**U4027b**  
**Growing Wheat,** 28p  
Price: $3.75

**U4039b**  
**Corn Production,** 20p  
Price: $2.75

**U4055a**  
**Growing Grain Sorghum,** 20p  
Price: $2.75

### Soils

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

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

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

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

**U4003c**  
**Phosphorus Management,** 16p  
Price: $2.25

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

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

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

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

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

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

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

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

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

U4053b
Price: $5.50

U4053b-PK
Price: $45.00

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

**Digital Products**

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

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

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

Available on CD-ROM or USB Flash Drive
**Agronomy**

**Transparencies**

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

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

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

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

**Soybeans**

**Unit**

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

**Weeds**

**Units**

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

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

**Transparencies**

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

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

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

MDS707b
Weed Identification
Price: $85.00

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

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

Miscellaneous

AGRON-13
Agronomy CDE Resources Set
Price: $700.00

Get your CDE agronomy resources in this comprehensive set. We’ve compiled all the materials available from ITCS Instructional Materials to help you train a team for these agronomy CDE areas:

* Written exam
* Weed ID
* Crop ID
* Placing classes
* Practicums–insects and soils

The set contains 21 resources, including the Field Crop Scouting Manual, the Crop Sciences Laboratory Manual, agronomic crop identification and weed identification CDs, and crop and weed seed samples.

Z7003a
Crop Seed Samples
Price: $45.00

This identification set contains 41 crop seeds used in the Illinois Agronomy Career Development Event. Includes a key to the numbered samples.

Alfalfa
Alsike clover
Barley
Birdsfoot trefoil
Broccoli
Brome grass
Canola
Corn
Cotton
Cucumber
Fescue
Grain sorghum
Kentucky bluegrass

Ladino clover
Lespedeza
Lettuce
Lima bean
Muskmelon
Oats
Orchardgrass
Pea
Peanut
Perennial ryegrass

Popcorn
Pumpkin
Red clover
Redtop
Rice
Rye
Safﬂower
Soybean
Sudangrass
Sugar beet

Sunflower
Sweet clover
Sweet corn
Timothy
Tomato
Vetch
Watermelon
Wheat
Weed Seed Samples

Price: $120.00

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

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

Units

Integrated Pest Management Series

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

AU8004
Integrated Pest Management I, Ecology, Crops, Pests, 36p
Price: $4.50

AU8005
Integrated Pest Management II, Why IPM?, 36p
Price: $4.50

U4071
Nontraditional Crops, 28p
Price: $3.75

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

U4074
Precision Agriculture, 28p
Price: $5.25

SETU4074 (bundle of 10)
Price: $42.50

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

U4086
Introduction to Plant Biotechnology, 28p
Price: $3.75
**Transparencies**

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

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

**Booklets, Manuals, Pocketbooks, and More**

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

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

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

This 3” x 5 1/2” booklet (spiral-bound) is a guide to help identify diseases of soybeans and corn quickly and accurately. It assists in early, in-the-field identification when control measures are generally more effective. Over 50 different diseases are illustrated with color photos.
**X840a**

**Vegetative Identification of Common Row Crop Weeds**, Pocketbook  
Price: $12.00

This spiral-bound pocketbook describes 48 weeds that are common in Midwestern row crops. Color photos throughout.

**Z840.1**

**Broadleaf and Grass and Grasslike Weed Vegetative Identification Keys**, Two keys, 8p  
Price: (bundle of 25) $41.00

These keys describe 27 broadleaf and 20 grass or grasslike weed seedlings found in corn and soybeans. They focus primarily on characteristics of leaf arrangements, true leaves, grass ligules, and cotyledons. Sketches are used to determine proper identification.

**X855**

**Waterhemp Management in Agronomic Crops**, 12p Color Booklet  
Price: $3.00

In 12 pages, this color booklet describes the biology and identification of waterhemp, considers its increased prevalence, and details interactions with soil-applied and postemergence herbicides in corn and soybean fields. Contains color photographs.

**X860**

**Crop Plants**, 82p Book  
Price: $15.50

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

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

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

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

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

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

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

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

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

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

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

X905

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

**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 (2007). Presentations include a set with images and text descriptions of the insect, a practice set without insect names, and an interactive quiz set. The CD 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 CD-ROM**  
Price: $80.00

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

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

**MDS709**  
**Agronomic Crop Identification Quiz Pack**  
Price: $200.00

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