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New!

Small Farm Handbook, Second Edition

Since its publication in 1994, the Small Farm Handbook has been an essential resource for California’s small farmers and the agricultural professionals advising them—selling over 4300 copies. Now this invaluable reference has been updated and expanded for today’s small-scale producers.

What’s new in the second edition?

- background skills and knowledge, the business and the farming side
- requirements for successful farming
- farm and financial management
- marketing and product sales
- postharvest handling and safety
- growing crops
- raising animals
- labor management

Also included are profiles of six small farm operators representing a sample of California’s diverse agriculture.

Throughout you’ll get a look at emerging trends and issues for California agriculture and innovative methods for better production and management, all of which can lead to better farm performance.

Drawing upon the knowledge of 32 experts from the University of California, no other publication covers topics, issues, and facets of California’s small-scale agriculture with this depth or level of expertise.

From the basics to risk management, specialty crops to marketing and product sales, this guide covers it all. 2011. 188 pp.

3526 ISBN 978-1-60107-698-4 $25.00

Farmstead and Artisan Cheese
A Guide to Building a Business

There is nothing like taking fresh, sweet milk and turning it into a lovely wheel of nutty, aged Gouda or a wonderful, tangy chèvre with herbs—but can you make a living as a cheesemaker? Navigating the start-up of any business is hard work, but cheese making has its own special challenges. This new manual walks the beginning cheesemaker through the steps necessary to decide if cheesemaking as a business is for them.

3522 Coming Summer 2011
Grapes

Wine Grape Varieties in California
This beautifully illustrated book is a “must-have” for growers, vintners, and enthusiasts.
Inside you’ll find information on ripening periods for 53 varieties grown in California, ripening dates of varieties by period and growing district, detailed illustrations of grapevine structure, a glossary, and a bibliography. The star of the show is the discussion of the 36 major wine grape varieties grown in the state, covering synonyms, source, physical characteristics (such as clusters, berries, and leaves), harvest periods and methods, and winery use. Each variety is highlighted by close-up photography of its clusters, leaves, and leaf shoots—107 lush color photos in all. 2003. 188 pp.
3419 ISBN 978-1-879906-63-1 $30.00

Making Table Wine At Home
If you’ve ever thought about making your own zinfandel, pinot noir, chenin blanc, or any other table wine at home, this manual can get you started. Organized into eight short chapters that discuss the ingredients and practices that make a good table wine, you will learn how to bring those elements together in a home winery. Individual chapters cover red wines, white wines, spoilage and stability problems, juice and wine analysis, wine quality, and the wine-making facility. Rev 2004. 44 pp.
21434 ISBN 978-1-879906-66-2 $15.00

Mealybugs in California Vineyards
This new identification guide covers six mealybug species that are of concern to California vineyard managers. Illustrated with over 30 color photos, the booklet contains detailed descriptions of each species to help you identify the mealybugs found in your vineyard. You’ll learn how they cause damage and how to take action with suggested biological, cultural, and chemical controls for each species. 2002. 16 pp.
21612 ISBN 978-1-60107-362-4 $7.00

Vineyard Pest Identification Cards
This set of 50 sturdy, pocket-size laminated cards are easy to carry as a field reference to identify and monitor vineyard diseases and pests including insects, mites, spiders, nematodes, vertebrates, and weeds, as well as natural enemies. An essential tool for you and your vineyard management team.
3532 Coming soon 2011

Songbird, Bat and Owl Boxes
Vineyard Management with an Eye toward Wildlife
See page 8
Fruit and Nut Crops

Walnut Production Manual, Second Edition
The only comprehensive guide available covering all aspects of English walnut culture. Applicable worldwide, the book provides growers and researchers with basic understanding of the walnut tree and its fruit, practical considerations on harvesting and handling, and pest management. Over 50 color photos. 1997. 328 pp.
3373   ISBN 978-1-879906-27-3  $35.00

IPM for Almonds, Second Edition
Covers 120 different pest problems including diseases, insects and mites, nematodes, vertebrate pests, and weeds. Pests discussed include anthracnose, Alternaria leaf blight, rust, tenlined June beetle, and leafhoppers.
Contains revised and expanded chapters on vertebrate pest management and vegetation management, including recommendations for control techniques where endangered species occur and detailed information on cover crops. You’ll also find revised sections on navel orangeworm and peach twig borer along with revised and updated tables on the susceptibility of rootstocks and scion cultivars to major pests. Illustrated with 259 photos, 69 line drawings and tables, and a detailed index. Rev. 2002. 199 pp.
3308   ISBN 978-1-879906-52-5  $32.00

IPM for Walnuts, Third Edition
Includes comprehensive information on walnut crop pests, including identification tips, monitoring methods, treatment thresholds, biological controls, and other management techniques.
■ 215 photos
■ covers more than 90 pest problems, 24 more than the previous edition
■ the updated section on codling moth includes information on pheromone confusion, release of the Trichogramma egg parasite, and the kairomone lure that attracts both male and female moths
■ expanded chapters on vertebrate pests and weed management

See all of our IPM Manuals on pages 18 and 19!
Bestseller!
Tree Fruit Pest Identification and Monitoring Cards

Carry these pocket-sized laminated cards in the field as handy references for identifying and monitoring major insect and mite pests and several important diseases in California deciduous tree fruits and nuts. Cards identifying important natural enemies are also included.

The information on these 32 cards will help pest control advisers and growers understand how and when to look for these pests—both in growing and dormant seasons. References are provided to the appropriate UC IPM Pest Management Guidelines and IPM Manuals for management information.

Everyone involved in pest management in tree crops will want a set of these handy cards. Rev. 2005. 32 cards.

3426 $15.00

Bestseller!
Integrated Pest Management for Stone Fruits

The most complete guide available for managing pest problems in apricots, cherries, nectarines, peaches, plums, and prunes.

An indispensable guide to establishing a pest management program, diagnosing pest problems, identifying and using beneficial insects, and establishing new orchards.

Includes information on training and pruning, irrigation scheduling, scheduling management activities, soil and tissue sampling, pheromone mating disruption, relative toxicity of pesticides to natural enemies and honey bees, organically acceptable pest control options, and vertebræ pest control options within the ranges of endangered species. 1999. 264 pp.

3389 ISBN 978-1-879906-36-5 $35.00


This is the definitive guide to olive production in California. Fully illustrated with 40 tables, 19 line drawings, 36 charts, and 100 color and black and white photos. Includes a new chapter on olive oil production and coverage of four new pests, including the olive fly. 2005. 180 pp.

3353 ISBN 978-1-879906-14-7 $35.00

Organic Olive Production Manual

This manual provides detailed information on production issues, plant nutrition, economics, pest and weed control, management of olive wastes, the conversion process, and organic certification and registration. You’ll learn about orchard site selection, irrigation, terrain, temperature, soil, and damage from the olive fruit fly, and how these may vary for table fruit versus fruit for oil production. 2007. 112 pp.

3505 ISBN 978-1-60107-440-9 $18.00
Fruit and Nut Crops

Pear Production and Handling Manual
Covers orchard management, varieties, propagation, rootstock selection, irrigation and fertilization, training, pruning, and orchard floor management for pears. Includes extensive sections on pest management, and fruit harvesting, storage and handling. 2007. 215 pp.
3483 ISBN 978-1-879906-65-5 $25.00

Asian Citrus Psyllid
The Asian citrus psyllid, Diaphorina citri Kuwayama (Homoptera: Psyllidae) (ACP) is a pest of citrus and close relatives of citrus that damages plants. While direct damage is serious, there is even greater concern that the psyllid is an efficient vector of the bacterium that causes the economically devastating disease citrus greening, or Huanglongbing. About the size of an aphid ACP poses a serious threat to California’s citrus trees, including those grown in home gardens and on farms.

Learn to identify and manage this pest by downloading free publication 8502 Asian Citrus Psyllid and the free Pest Note for Home and Landscape 74155 on ACP at www.anrcatalog.ucdavis.edu

Organic Apple Production
If you are a current organic apple grower, are considering the transition to organic production, or are a conventional grower concerned with the use of pesticides, this guide is for you.

Chapters include orchard management, disease and pest management, harvest and postharvest operations, marketing considerations, and economic performance. This manual covers the methods legally available for organic apple production in California and includes a bibliography of publications useful to the organic grower.

Organic and conventional growers alike will find that this volume is an essential reference for any grower with concerns about pesticide resistance, postharvest residues, farmworker health and safety, and regulatory restrictions.

3403 ISBN 978-1-879906-48-8 $18.00

IPM for Apples and Pears, Second Edition
3340 ISBN 978-1-879906-42-6 $30.00

IPM for Strawberries, Second Edition
This newly revised manual is the ultimate guide for strawberry growers and pest control professionals. Contains over 100 pages of color photographs; 56 line drawings and charts that will help you identify over 90 important pests and disorders. 2008. 176 pp.
3351 ISBN 978-60107-489-8 $30.00
Small Grains

New!

Rice Quality Handbook

Winner 2010 Certificate of Excellence in Educational Materials from the American Society of Agronomy

This manual provides a step-by-step guide to producing high-quality rice from planting to postharvest. Inside this 141-page guide you’ll find information on:

- rice quality considerations in the global market
- choosing the correct variety
- cultural practices
- harvest procedures
- effects of weather conditions at harvest
- drying methods
- effects of temperature and moisture content on quality
- controlling insects during storage
- controlling the growth of molds and bacteria

While written with the California's Sacramento Valley in mind, growers, buyers, and operators of dryers, warehouses, and processing operations worldwide will benefit from this handbook. Illustrated with 39 color photographs, 58 graphs, and 35 line drawings, and a measurement conversion chart. 2009. 141 pp.

3514 ISBN 978-1-60107-622-9 $40.00

Irrigated Alfalfa Management for Mediterranean and Desert Zones

This is the ultimate guide to irrigated alfalfa production. This manual will guide you through the many considerations in producing alfalfa successfully, drawing upon detailed, comprehensive, and scientifically accurate information. Growers, farm workers, managers, consultants, and advisors in irrigated regions will find this to be an indispensable guide.

A diagnostic key to common problems, an index, 298 color photographs, 34 illustrations, 65 tables, and 72 graphs round out this essential guide. 2008. 372 pp.

3512 ISBN 978-1-60107-608-3 $65.00

Rice Nutrient Management in California

As a flooded crop, rice presents unique fertility management problems. Although fertilizer application benefits plant health and grain quality, misuse of fertilizers can damage crops, contaminate the environment, and waste money.

With increasing fertilizer prices, the need to focus on careful nutrient management is greater than ever. This guide walks you through the steps needed to analyze your situation so you can make better-informed decisions about nutrient management for your crop.

Chapters cover the basics from soil types and how flooding affects soil fertility to an in-depth discussion of seven nutrients along with salinity, pH and other toxicities. Also included is a chapter on nutrient management for organic rice.

This full-color manual is illustrated with 74 figures, illustrations, and photographs, and 23 tables. Includes a measurement conversion table, a glossary, and extensive references. 2010. 136 pp.

3516 ISBN 978-1-60107-643-4 $25.00
Irrigation and Water

California Dairies: Protecting Water Quality

This handy guide primer for consultants, local agencies, and lending institutions that summarizes practical approaches and technologies that have been implemented by progressive dairy producers to protect surface and groundwater quality.

Since each dairy is different, practices must be tailored to each situation. This guide discusses three types of dairies—dairies with irrigated cropland, dairies with non-irrigated pasture and hay fields, and dairies with limited cropland—and outlines a variety of management measures for each. It also summarizes four critical components that progressive dairy producers have successfully implemented to protect water quality. 2006. 16 pp.

21630 ISBN 978-1-60107-426-3 $10.00

Watersheds, Groundwater and Drinking Water

This handy guide is a “must-have” for the environmental scientists, water technicians, educators and students. Developed for those who are interested in water resources, it can easily be used as text material for educational short courses.

Chapters include fundamentals as watershed and groundwater hydrology, water quality, and water contamination. Additional chapters will help you with tools and background information to assess and protect individual water sources. Includes 104 figures, 36 tables, and an English-Metric conversion appendix. 2008. 274 pp.

3497 ISBN 978-1-879906-81-5 $40.00

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**Postharvest Technology**

**Bestseller!**

**Postharvest Technology of Horticultural Crops, Third Edition**

This is the definitive manual on postharvest technology! Applicable worldwide, this is an invaluable resource for research professionals, quality control personnel, and postharvest biology students—anyone involved in the technology for handling and storing fresh fruits, vegetables, and ornamentals.

Chapters cover harvesting systems, preharvest factors affecting fruit and vegetable quality, maturity indices, waste management and cull utilization, safety factors, preparation for fresh market, packaging, cooling systems, modified atmospheres, use of ethylene, diseases, insect control, processing and inspection methods, handling at destination markets, and consumer issues in quality and safety.

Specific chapters on postharvest handling systems of crops including stone fruits, berries and grapes, tropical and sub-tropical fruits, vegetables, root vegetables, fresh-cut fruit and vegetables and more provide valuable information specific to each crop.


3311 ISBN 978-1-879906-51-8 $65.00

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**Commercial Cooling of Fruits, Vegetables, and Flowers**


21567 ISBN 978-1-60107-619-9 $15.00

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**English language PDF**

3529 ISBN 978-1-60107-743-1 $52.00

**Spanish language PDF**

Tecnología postcosecha de cultivos hortofrutícolas

3530 ISBN 978-1-60107-744-8 $52.00

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www.anrcatalog.ucdavis.edu
Garden and Landscape

**Bestseller!**

**The California Master Gardener Handbook**

This is the definitive guide to gardening in California! At over 700 pages, no other California gardening guide contains this depth of information. The *California Master Gardener Handbook* is an invaluable reference tool for all California gardeners.

Chapters cover soils and fertilizers, water management, plant propagation, plant physiology, weeds and pests, home vegetable gardening, and garden crops including grapes, berries, temperate fruits and nuts, citrus, and avocados. Also included is information on lawns, woody landscape plants, landscape design, and developing problem-solving skills. 2002. 702 pp.

“Now there’s a new bible on the block for home gardeners....”

—San Jose Mercury News

**3382** ISBN 978-1-879906-54-9 $30.00

**Bestseller!**

**The Home Orchard: Growing Your Own Deciduous Fruit and Nut Trees**

Developed especially for use by backyard orchardists, rare fruit growers, and small-scale growers, *The Home Orchard* offers a comprehensive look at standard growing methods, as well as innovative practices that enthusiasts have developed in recent years, some of which are uniquely suited to the small-scale grower.

You’ll learn how trees grow; which species grow best in the different regions and soils; varieties from which to select; preparing the soil, planting, watering and fertilizing; pruning and grafting; thinning the fruit diagnosing problems; controlling pests; and harvesting.

You’ll also find special attention given to organic and non-toxic pest management and fertilization methods. Key pests and diseases are identified, and natural control methods are emphasized.

Irrigation methods for the backyard grower are discussed, and the difficult task of how often and how much water to apply is simplified. The focus is on giving the trees enough water but doing so in an efficient, water-saving manner.

Included are hundreds of photographs and diagrams that show clearly how to produce the best crops. Photos of several practices, such as key budding and grafting methods, are depicted in step-by-step photos. No other publication provides this breadth and depth of coverage. 2007. 202 pp.

**3485** ISBN 978-1-879906-72-3 $25.00

**Pests of the Garden and Small Farm**


Our convenient handbook for home gardeners and small-scale farmers covers insects, mites, plant diseases, nematodes, and weeds of fruit and nut trees and vegetables. Ninety-five common pests are described in individual sections; crop-by-crop symptom identification tables guide you quickly to the information you need. More than 250 color photos and 118 drawings help you diagnose problems and find solutions. 1998. 276 pp.

**3332** ISBN 978-1-879906-40-2 $35.00

See all of our free Pest Notes for Home and Landscape on pages 30 and 31
Healthy Roses,
Second Edition
Environmentally Friendly Ways to Manage Pests and Disorders in Your Garden and Landscape

This best-selling guide for the rose enthusiast has been revised. New in the second edition is an expanded section on cultural practices, including new information on establishment, irrigation, soil and nutritional requirements, and pruning. Also new is a discussion of the mossy rose gall and an expanded reference section.

By using this guide, you’ll learn how to identify problems, take action when appropriate, and recognize beneficial insects.

You’ll get sound advice on how to adapt Integrated Pest Management practices to the home garden—methods of controlling pests and diseases using alternatives such as beneficial insects, traps and barriers, and less-toxic pesticides such as soaps, oils, and microbials. You’ll also learn about how to take preventative measures like careful selection of varieties, site selection and planting, proper watering, how and when to prune, and weed management.

This 35-page guide is profusely illustrated with 50 color photographs and includes handy tables on soil pH and nutrient levels. 2009. 35 pp.

21589 ISBN 978-1-60107-672-4 $10.00

Wildlife Pest Control around Gardens and Homes, Second Edition

Our indispensable guide to wildlife pests has been completely revised! Operating under the premise that it is the activity, not the species, that defines the pest, this handy guide will help you determine whether a control method is necessary—and then offers management and control options. The information presented is in keeping with the principles of integrated pest management and offers the widest range possible of both preventive and population reduction methods for common bird, mammal and reptile pests. From cliff swallows to rattlesnakes, bats to voles, deer to woodpeckers, this volume will help you identify, appraise, and monitor your wildlife pest situation. 2006. 122 pp.


Recognizing Tree Hazards: A Photographic Guide for Homeowners

Protect your landscape investment by learning how to recognize tree hazards. This photographic color guide illustrates seven of the most common structural tree defects that often lead to tree failure, including lean, multiple trunks, weakly attached branches, decay, and cracks. With this guide in hand, you should be able to conduct a basic inspection to determine whether any of your trees is a hazard. Includes 27 color photographs. 1999. 10 pp.

21584 ISBN 978-1-60107-350-1 $4.00

Also available in Spanish
Cómo reconocer peligros potenciales de los árboles

21604 ISBN 978-1-60107-356-3 $4.00

Urban Pest Management of Ants in California
See page 20

Asian Citrus Psyllid
See page 6
More Gardening and Landscape

**Specialty and Minor Crops Handbook, Second Edition**

Handy for commercial producers as well as backyard gardeners, this useful guide for growers and sellers of niche-market produce provides detailed information about growing specialty crops that are increasing in popularity among consumers. Includes 63 crop sheets—from arugula to radicchio, basil to thyme, prickly pear to tomatillos, variety and heirloom tomatoes. Includes market information, resources, a glossary of Asian vegetable names, and an updated bibliography. 1998. 184 pp.

3346 ISBN 978-1-879906-38-9 $35.00

**Songbird, Bat and Owl Boxes**

**Vineyard Management with an Eye toward Wildlife**

Explore the benefits of the biodiversity and the beauty of songbirds, bats, and owls with this handy guide.

You’ll learn about “win-win” ideas and methods for integrating nest boxes with vineyard management, biology and habitat requirements, details on construction and maintenance, literature sources, and online resources where you can get more information.

While written with grape growers and vineyard managers in mind, anyone interested in learning about nest boxes will find this guide useful—from vineyards to the backyard.

Illustrated with 30 color photographs, 14 figures, and tables. Includes patterns for building your own boxes and advice on where to place your boxes for best results. 2008. 51 pp.

21636 ISBN 978-1-60107-485-0 $15.00

**Tree Fruit Pest Identification and Monitoring Cards**

Carry these handy, pocket-size laminated cards in the field as handy references for identifying and monitoring major insect and mite pests and several important diseases in California deciduous tree fruits and nuts. A description and close-up photographs of important life stages identify each pest. Cards identifying important natural enemies are also included. The information on these 32 cards will help pest control advisers and growers know how and when to look for these pests—both in growing and dormant seasons. Rev. 2005. 32 cards.

3426 $15.00

**Bestseller!**
Landscape Professionals

New!

Oaks in the Urban Landscape

This handsome book is a comprehensive guide to the management of oaks in urban areas. As development moves into oak woodland areas, more and more oaks are becoming “urban” oaks.

Oaks are highly valued in urban areas for their aesthetic, environmental, economic, and cultural benefits. However, urban encroachment has caused significant impacts to the health and structural stability of oaks. Changes in environment, incompatible cultural practices, and pest problems can lead to the early demise of these stately, valued trees.

Using this book you’ll learn how to effectively select, plant, manage, and protect oaks in urban areas. You’ll also learn how cultural practices, pest management, risk management, preservation during development, and genetic diversity play a role in preserving urban oaks.

Fully illustrated with over 700 color photographs, this will be an invaluable reference guide for arborists, urban foresters, landscape architects, planners and designers, golf course superintendents, academics, and Master Gardeners alike.

Working together we can help assure that oaks will be a robust and integral component of the urban landscape for years to come.

Chapters cover:
- species
- genetic diversity
- health, growth, aging, and decline
- roots and soils
- cultural practices
- planting
- biotic and abiotic disorders
- structural failures, defects, and risk assessment
- fire
- oak preservation during development
- ordinances for tree protection


3518  ISBN 978-1-60107-680-9  $55.00

Bestseller!

Landscape Pest Identification Cards

Modeled after our bestselling Tree Fruit Pest Cards, these pocket-size laminated cards can be easily carried with you for handy references to insect and mite pests as well as important diseases in landscape plants. These 43 cards cover 19 common insects and mites, 7 diseases, 4 natural enemies, and a variety of other disorders and invertebrate pests.

2009. 43 cards.

3513  ISBN 978-1-60107-613-7  $20.00

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Landscape Professional

**Bestseller!**

**Pests of Landscape Trees & Shrubs:**

This is the ultimate guide to managing landscape pests! With this manual in hand you will be able to diagnose and manage hundreds of insect, mite, weed, plant disease, and nematode pests.

Inside you’ll find updated information on using environmentally safe, ecologically-based IPM methods; landscape designs that prevent pests; selecting resistant varieties; choosing and using less-toxic pesticides such as botanicals, oils, and soaps; and planting, irrigating, and other plant-care cultural activities that help in avoiding problems.

Contains over 100 pages of easy-to-use tree and shrub pest tables that are invaluable in helping you identify common pest problems—now on over 200 types of ornamental trees and shrubs. Includes 432 color photographs, 117 drawings and tables, references, glossary, and an index. 2004. 501 pp.

“An indispensable resource for professional landscape managers and home gardeners alike.”

—Arborists News

3359 ISBN 978-1-879906-61-7 $42.00

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**Abiotic Disorders of Landscape Plants: A Diagnostic Guide**

This manual contains a wealth of information to help you diagnose abiotic disorders in landscape plants—disorders caused by environmental, physiological or other nonbiological factors.

You’ll learn how to diagnose injury symptoms from over 20 abiotic agents including water deficit, nutrient deficiencies, salinity, pH, sunburn, air pollution, herbicide and other chemical phytotoxities, mechanical injuries, lightning, wind, and hail. You’ll also learn how to develop a step-by-step diagnostic strategy.

Included are strategies, techniques, and tools you can use in diagnosing plant problems, common injury symptoms and their abiotic causes, and plant traits that can resemble abiotic disorders.

Illustrated with 319 color photographs and 38 tables, this book is a “must-have” for the library of every landscape professional. 2003. 242 pp.

3420 ISBN 978-1-879906-58-7 $35.00
Floriculture and Turfgrass

Greenhouse and Nursery Management Practices to Protect Water Quality

Specifically developed for managers interested in preventing runoff contamination and groundwater leaching, these suggested management practices will help guide you through your own successful plan of action.

Also included is an environmental audit checklist to guide you through management practices that impact the environment, increase your awareness of practices that lessen runoff and leaching, and help you identify areas that may require improvements.

Chapters cover:
- protecting water quality
- management goals and practices to mitigate runoff and leaching
- irrigation practices
- nutrients
- pest managements
- pesticide use and water quality protection
- erosion and runoff
- water recycling
- environmental audit


3508 ISBN 978-1-60107-571-0 $20.00

Integrated Pest Management for Floriculture and Nurseries

Learn how to recognize and prevent damage to bulbs, cut flowers, potted flowering plants, foliage plants, bedding plants, and ornamental trees and shrubs the IPM way!

Handy crop tables give you a symptom-based guide for accurately diagnosing problems and selecting the recommended controls for problems affecting 120 major flower and foliage species. Loaded with outstanding color photos and diagrams, references, suppliers, and a comprehensive index, this is an indispensable guide for anyone in the green industry. 2001. 422 pp.

3402 ISBN 978-1-879906-46-4 $45.0

Weeds

Aquatic and Riparian Weeds of the West

Lavishly illustrated with over 560 photographs and weighing in at 442 pages, this is a “must-have” reference and field manual for weed control specialists, land managers, water system managers, rice growers, golf course superintendents, and landscape professionals.

Includes:
- descriptions of 171 aquatic plant species—consisting of 58 plant groups, including a full description of 82 species and another 96 plants compared as similar species
- 17 shortcut identification tables to groups that share similar, unusual, or relatively uncommon characteristics
- keys to floating-leaved and submerged aquatic weeds, pondweeds, and grasses or grasslike species
- comparison tables for difficult-to-identify groups
- appendix of federally listed noxious weeds in aquatic habitats
- indices to common and scientific names and synonyms

3421 ISBN 978-1-879906-59-4 $40.00

Bestseller!

Weeds of California and Other Western States

This encyclopedic yet easy-to-use guide covers 262 individual entries, including a full description of 451 species and another 361 plants compared as similar species, representing 63 plant families.

- 13 shortcut identification tables for groups that share similar, unusual, or relatively uncommon characteristics
- 2 grass identification keys
- 67 tables comparing characteristics of difficult-to-distinguish weedy species
- color photos of over 700 weeds including seeds, seedlings, flowers, and mature plants
- CD of all of the photographs from the book suitable for use in presentations—over 3,000 images
- appendix of non-native plants rarely or occasionally naturalized in California
- glossary of botanical terms
- index to common names, scientific names, and synonyms

Each entry gives the plant's family name, common name, and synonyms along with a summary of the important aspects of the plant's life cycle, size, growth form, impact, method of introduction, toxicity, and problem sites. You'll also find a description of the seedling, mature plant, roots and underground structures, flowers, fruits and seeds, spikelets and florets, spore-bearing structures, and post-senescence characteristics for each entry.

Rounding out each entry is a description of the methods of reproduction, seed dispersal, germination requirements and conditions, seed survival and longevity, early establishment characteristics and requirements, cultural practices and management options for controlling infestations. 2007. Vol. 1 848 pp. Vol. 2 912 pp.

3488 ISBN 978-1-879906-69-3 $80.00

Weeds of the West

This easy-to-use, encyclopedic guide includes 900 color photographs that illustrate and describe more than 350 weed species found in the West. Ninth Edition. 2000. 628 pp.

3350 ISBN 978-0-941570-13-8 $35.00
Pest Management Guidelines

Pest Management Guidelines are available on our Web site, [www.ucanr.org/pmg](http://www.ucanr.org/pmg), as free downloadable publications. You may access a free online copy of a guideline or purchase a printed copy. Printed guidelines are also available for sale through your local UC Cooperative Extension office. Web-based versions of the guidelines—some of which include color photos—can also be accessed on the UC IPM Web site at [www.ipm.ucdavis.edu](http://www.ipm.ucdavis.edu).

Each guideline covers insect, mite, and disease pests for one crop or group of crops. Most also cover nematode and weed pests. These are the official UC-approved guidelines for pest monitoring techniques, pesticide use, and nonpesticide alternatives for agricultural crops. They are regularly revised and updated—make sure that you have the most current version of the guidelines. On the Web, changes made within the past year to the guidelines are listed on the UC IPM Web site at [www.ipm.ucdavis.edu/PMG](http://www.ipm.ucdavis.edu/PMG).

Guidelines are available for:

- Alfalfa
- Almond
- Apple
- Apricot
- Artichoke
- Asparagus
- Avocado
- Bermudagrass Seed Production
- Canebries
- Carrot
- Celery
- Cherry
- Citrus
- Cole Crops
- Corn
- Cotton
- Cucurbits
- Dry Beans
- Eggplant
- Fig
- Floriculture and Ornamental Nurseries
- Grape
- Kiwifruit
- Lettuce
- Nectarine
- Olive
- Onion/Garlic
- Peach
- Pear
- Pecan
- Peppermint
- Peppers
- Pistachio
- Plum
- Potato
- Prune
- Rice
- Small Grains
- Spinach
- Strawberry
- Sugarbeet
- Tomato
- Turfgrass
- Walnut
Integrated Pest Management Manuals

IPM Manuals

Integrated Pest Management Manuals are indispensable tools for growers, consultants, and pest management instructors. Each book presents an ecologically sound IPM approach to solving pest problems.

Inside each volume you’ll find comprehensive chapters on insects and mites, pathogens, weeds, nematodes, and vertebrates. We cover each significant pest’s identification, biology, and management, along with monitoring methods, treatment thresholds, biological controls, cultural practices, and the selective use of pesticides. You’ll also find important information on crop growth and development. The concepts presented are thoroughly explained and illustrated with detailed line drawings and charts and hundreds of the brilliant, high quality, color photographs that users of these manuals have come to expect.

“...the highly acclaimed IPM series from the Univ. of California statewide IPM program . . . practical, profusely illustrated, ‘must-have’ reference.”

—IPMnet News

Integrated Pest Management
for Alfalfa Hay
3312 ISBN 978-0-931876-48-6 $22.00

Integrated Pest Management
for Almonds, Second Edition
3308 ISBN 978-1-879906-52-5 $32.00

Integrated Pest Management
for Apples & Pears, Second Edition
3340 ISBN 978-1-879906-42-6 $30.00

Integrated Pest Management
for Avocados
3503 ISBN 978-1-60107-420-1 $35.00

Integrated Pest Management
for Citrus, Second Edition
3303 ISBN 978-0-931876-98-1 $32.00

Integrated Pest Management for
Cotton in the Western Region of the
United States, Second Edition
3305 ISBN 978-1-879906-30-3 $30.00
Written in clear, succinct language with a minimum of technical terms...
—Bulletin of the Entomological Society of America

Integrated Pest Management for Floriculture and Nurseries
3402 ISBN 978-1-879906-46-4 $45.00

IPM for Potatoes, Second Edition
3316 ISBN 978-1-879906-77-8 $32.00

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Integrated Pest Management for Small Grains
3333 ISBN 978-0-931876-91-2 $22.00

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Integrated Pest Management for Strawberries, Second Edition
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Integrated Pest Management for Tomatoes, Fourth Edition
3274 ISBN 978-1-879906-32-7 $30.00

Integrated Pest Management for Walnuts, Third Edition

Beautifully illustrated . . . the color plates alone are worth the price!
—CAPCA Newsletter
Pesticide Use, Safety & Training

UC Pesticide Application Compendium
These study and reference manuals belong on the bookshelf of anyone who routinely uses pesticides, supervises their use, or instructs others in the proper use of pesticides. Originally written for professionals studying for licensing and certification exams, everyone will find them to be invaluable reference tools.

The Safe and Effective Use of Pesticides, Second Edition
If you use pesticides, supervise the use of pesticides, or instruct others in the proper use of pesticides, this new book is for you. Here you'll find detailed information on training employees to select, use, handle, store, and dispose of pesticides safely and properly. Emphasizes worker protection, prevention of groundwater contamination, protection of endangered species and wildlife, and reduction of environmental problems. The principles described in this volume apply to all areas of pest control, including agricultural, structural, landscape, greenhouse, and public health applications. Volume 1 of the Compendium. 2000. 342 pp.

This is recommended study material for all categories of the California Department of Pesticide Regulation’s Qualified Pesticide Applicator License (QAL) and Qualified Pesticide Applicator Certificate (QAC) exams.

Residential, Industrial, and Institutional Pest Control, Second Edition
Volume 2 focuses on managing structural, food, and fabric pests, and on rodents, birds, and weeds. This is a helpful reference for anyone solving institutional or household pest problems - from pest control operators to building managers or homeowners. New information is included for those carrying out school IPM programs - including how to select appropriate pesticides for school buildings, focusing on herbicides and safe and effective cockroach and ant baits. Includes review questions and answers to help you as you study for the exams. 2006. 242 pp.

This is recommended study material for the DPR Health Related and Residential, Industrial, and Institutional categories (QAL and QAC) and the Structural Pest Control Board (Branch 1, 2, and 3).

Wood Preservation
Volume 3 focuses on safe techniques for using the minimum amount of wood preservation chemicals necessary to protect wood from rot and insect damage, whether in the mill, at local construction sites, or on boats. 1992. 92 pp.

This volume is recommended study material for QAL and QAC exams in the Wood Preservation category. DPR test material (QAL and QAC).

Field Fumigation
Volume 9 in the Pesticide Application Compendium. This is the official study guide for the field fumigation Qualified Applicator License (QAL) and Qualified Applicator Certificate (QAC) exams conducted by the California Department of Pesticide Regulation. 2009. 121 pp.

Available only by download from www.anrcatalog.ucdavis.edu

Urban Pest Management of Ants in California
See page 20

New!
Forest and Right-of-Way Pest Control

Volume 4 is a comprehensive guide to using pesticides and other pest control methods in forest and right-of-way situations. It is extremely useful for anyone who is responsible for pest control in forests, tree nurseries, or Christmas tree farms, or along roads, railways, utility rights-of-way, bike paths, and hiking trails. 1995. 248 pp.

This volume is recommended study material for QAL and QAC exams in the Forest and Right-of-Way categories. DPR test material (QAL and QAC).

3336 ISBN 978-1-879906-19-8 $30.00

Aquatic Pest Control

Volume 5 is a comprehensive, easy-to-use reference manual covering diverse aquatic environments. Profusely illustrated with 54 illustrations and over 100 photographs, this reference manual also has 8 tables and 31 sidebars that expand on important points and provide calculation formulas. A helpful glossary and thorough index round out this study tool. 2001. 168 pp.

This is the recommended study guide for the DPR exams in the Aquatic Pest Control category. At the end of each chapter you’ll find review questions similar to those found on the DPR examinations.

3337 ISBN 978-1-879906-53-2 $30.00

Demonstration and Research Uses of Pesticides

Volume 6 is a thorough guide to using pesticides and pesticide application equipment in a demonstration or research setting, where chemicals generally are applied in much smaller quantities than in commercial use. This is an extremely useful book for anyone who works in pest control research, whether in education, government, or the private sector. 2003. 152 pp.

Available only by download from www.anrcatalog.ucdavis.edu

9001 ISBN 978-1-879906-64-8 $5.00

Landscape Maintenance Pest Control

Volume 7 is a complete guide to using pesticides safely in turf, landscape, and interiorscape situations ranging from parks and golf courses to indoor malls. More than 200 photos, line drawings, graphs, and sidebars illustrate key concepts and procedures. Review questions similar to those on the exams are included at the end of each chapter to help you as you study. 2006. 257 pp.

This is recommended study material for DPR Landscape Maintenance category, QAL, and QAC exams.

3493 ISBN 978-1-879906-71-6 $30.00

Lawn and Residential Landscape Pest Control: A Guide for Maintenance Gardeners

Volume 8 is a comprehensive guide for all maintenance gardeners who mow lawns and maintain yards. It will help you prepare for the DPR test because it includes practice questions and answers similar to the questions that will be on the test. Contains 250 photographs, 104 drawings, and 22 tables help you understand the ideas presented in the book. 2009. 219 pp.

This is the recommended study guide for the DPR test for the Q category.

3510 ISBN 978-1-60107-560-4 $20.00
Pesticide Applicator & PCA Exam Preparation

**QAL & QAC**
Laws, Regulations, and Basic Principles, & All Categories

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<td>H. HEALTH RELATED</td>
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<td>Q. MAINTENANCE GARDENER</td>
<td>Lawn and Residential Landscape Pest Control: A Guide for</td>
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Study materials for the California Department of Pesticide Regulation’s Pest Control Adviser, Qualified Pesticide Applicator License (QAL), and Qualified Pesticide Applicator Certificate (QAC) examinations.

For a complete list of DPR’s recommended study materials go to www.cdpr.ca.gov/docs/license/lictypes.htm

**PCA**
Laws, Regulations, and Basic Principles, and Integrated Pest Management Principles & All Categories

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<td>Wildlife Pest Control around Gardens and Homes, 2nd Ed.</td>
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<td>E. WEED CONTROL</td>
<td>Weeds of California and Other Western States</td>
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<td>F. DEFOILIATION</td>
<td>Harvest Aid Materials and Practices for California Cotton</td>
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<td>G. PLANT GROWTH REGULATORS</td>
<td>Plant Growth Regulators</td>
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For more information on the DPR exams, including a complete list of suggested study materials (some available elsewhere), or for information on how to apply for the exams, contact your County Agricultural Commissioner (www.cdpr.ca.gov/docs/county/comenu.htm) or DPR’s Licensing and Certification Program:

**Web**: www.cdpr.ca.gov  
**Phone**: (916) 445-4038  
Department of Pesticide Regulation  
Licensing and Certification Program  
1001 “I” Street, Third Floor  
Sacramento, CA 95814
Structural Pest Control Board Exam Preparation

Study materials for the California Structural Pest Control Board's examinations available from ANR.

BRANCH 2 STRUCTURAL PEST CONTROL OPERATOR AND/OR FIELD REPRESENTATIVE
3324  The Safe and Effective Use of Pesticides, 2nd Ed.  $35.00

BRANCHES 1 OR 3 STRUCTURAL PEST CONTROL OPERATOR AND/OR FIELD REPRESENTATIVE
3334  Residential, Industrial, and Institutional Pest Control, 2nd Ed.  $30.00
3324  The Safe and Effective Use of Pesticides, 2nd Ed.  $35.00

BRANCHES 2 OR 3 APPLICATOR LICENSE
3334  Residential, Industrial, and Institutional Pest Control, 2nd Ed.  $30.00
3324  The Safe and Effective Use of Pesticides, 2nd Ed.  $35.00

The Structural Pest Control Board licenses structural pest control professionals:
www.pestboard.ca.gov
(916) 561-8704

Structural Pest Control Board Licensing
1418 Howe Avenue, Suite 18
Sacramento, CA 95825

SUPPLEMENTAL READING

These ANR books are important references for any pest management professional.

Harvest Aid Materials and Practices for California Cotton
4043e Available online at www.anrcatalog.ucdavis.edu

IPM in Practice: Principles and Methods of Integrated Pest Management
3418  ISBN 978-1-879906-50-1  $30.00

Landscape Pest Identification Cards
3513  ISBN 978-1-60107-613-7  $20.00

Natural Enemies Handbook: The Illustrated Guide to Biological Pest Control
3386H ISBN 978-1-879906-41-9  $35.00

Pests of Landscape Trees and Shrubs
3359  ISBN 978-1-879906-61-7  $42.00

Plant Growth Regulators
4047  ISBN 978-1-60107-418-8  $7.00

Turfgrass: UC IPM Pest Management Guidelines
3365T  $10.00

UC IPM Pest Management Guidelines for Agricultural Crops, Floriculture, and Turf
See page 13. Available online at www.ipm.ucdavis.edu

Weeds of the West
3350  ISBN 978-0-941570-13-8  $35.00

Wildlife Pest Control around Gardens and Homes, 2nd Edition

Weeds of California and Other Western States
3488  ISBN 978-1-879906-69-3  $80.00

UC IPM Manuals
See pages 14 & 15
Additional Study Material

New!

Urban Pest Management of Ants in California

Ants are among the most prevalent pests in urban areas. They invade households, restaurants, hospitals, offices, warehouses—anywhere they can find food and water. Once established, colonies are difficult to control and present a formidable challenge to the pest management professional.

Responding to the public’s growing demand for less-toxic environmentally-friendly pest control techniques and growing regulatory control of pesticides, experts at the University of California have written this new guide to aid pest control professionals in developing more effective, targeted, and greener solutions to urban ant problems.

This new publication takes you beyond the identification guide—providing practical information and recommendations for control strategies.

Illustrated with 77 color photographs, the guide covers status, identification and biology, and management strategies for the 4 major urban ant species as well as 16 frequently encountered species.

The UC IPM Ant Key, a glossary, and references round out this essential guide. 2010. 72 pp.

3524 ISBN 978-1-60107-664-9 $20.00

Plant Growth Regulators
A Study Guide for Agricultural Pest Control Advisers

Inside you’ll find an overview of plant growth regulators and their uses along with specific crops and the specific PGRs used in those crops and how they are best applied. Included is information on PGRs used with fruit and nut crops, vegetable crops, field crops, citrus, ornamental plants and turfgrass, and grape production. You’ll also find a glossary and a series of helpful tables on common chemicals currently used in California as plant growth regulators. Rev 2003. 45 pp.

This is the recommended study guide for people studying for the California Pest Control Adviser License in the area of plant growth regulators (PGRs).

4047 ISBN 978-1-60107-418-8 $7.00

Pesticide Safety


This manual covers information essential for anyone using pesticides on California farms, including growers, managers, and employees. The book uses a farm profile format to review environmental and human safety topics.

Covers pesticide labels, worker safety (handlers and fieldworkers), how to mix and apply pesticides, calibration, the hazards of pesticide use including heat-related illness, and pesticide emergencies. An appendix includes sample training forms for pesticide handlers and fieldworkers.

This manual is a great resource for private applicator certification, with review questions in each chapter, in an easy-to-use format with many illustrations. 2006. 120 pp.

3383 ISBN 978-1-879906-83-9 $7.00

Also available in Spanish

Seguridad en el manejo de pesticidas, Segunda edición

3394 ISBN 978-1-879906-84-6 $7.00
Natural Enemies Handbook
This perennial bestseller provides the most comprehensive guide to biological control agents ever made available to practitioners. It will help you identify and understand the biology of predators, parasites, pathogens, competitors, and antagonists that help control specific insect, pathogen, nematode, or weed pests.
The Biological Pest Control Quick Guide lets you easily match natural enemies with specific pests in your crop or landscape. Illustrated with more than 180 color photographs and 140 line drawings and black and white photographs. 1998. 154 pp. Hardcover.
DPR test material (QAL and QAC)
3386H ISBN 978-1-879906-37-2 $35.00

Wildlife Pest Control Around Gardens and Homes, Second Edition
Our indispensable guide to wildlife pests has been completely revised! Operating under the premise that it is the activity, not the species, that defines the pest, this handy guide will help you determine whether a control method is necessary—and then offers management and control options. The information presented is in keeping with the principles of integrated pest management and offers the widest range possible of preventive and population reduction methods for common bird, mammal and reptile pests. From cliff swallows to rattlesnakes, bats to voles, deer to woodpeckers, this volume will help you identify, appraise, and monitor your wildlife pest situation. 2006. 122 pp.
DPR test material (QAL and QAC)

Quick Information for Home, Garden, and Landscape Pests
Go to the UC IPM Web site at www.ipm.ucdavis.edu for Web-based fact sheets covering over 135 home and garden insect, weed, pathogen, and vertebrate pests. These include useful information for landscape professionals and home gardeners. You can also find downloadable versions in our online catalog at www.anrcatalog.ucdavis.
Nutrition and Healthy Lifestyles

**New!**

**Let’s Eat Smart and Play Hard Together!**
A Nutrition and Fitness Curriculum for 6 to 8 Year Old Children and Their Adult Buddies

A six-lesson nutrition and physical activity curriculum for 6- to 8-year-old children and the adults in their lives. Participants learn how healthy snacks and fun physical activities contribute to their health. The curriculum is shipped as a CD-ROM containing five PDF documents:

- English curriculum (419 pp.)
- English interactive forms and certificates (4 pp.)
- Spanish curriculum supplement (300 pp.)
- Spanish interactive forms and certificates (4 pp.)
- binder cover sheet and spine label (2 pp.)

2010. CD-ROM.
3520 ISBN 978-1-60107-688-5 $50.00

**If My Child is Overweight, What Should I Do about It?**

This colorful how-to guide is for parents who have a child who is overweight. Topics covered include how to tell whether your child is overweight, how to help a child avoid overeating, choosing healthy meals and snacks, increasing physical activity, and dealing with self-esteem and stigmatization issues. Rev. 2004. 28 pp.

21455 ISBN 978-1-60107-338-9 $5.00

Also available in Spanish

Si mi hijo tiene sobrepeso, ¿qué debo hacer?

21640 ISBN 978-1-60107492-8 $5.00

**New!**

**Creating Healthy Families (DVD)**

In four short video segments, this DVD shares ideas for selecting healthy foods when shopping, cooking with children and appropriate serving sizes, planning a family meal at a restaurant and healthy snack choices. A great resource for parents as well as professionals working with parents.

Each segment is presented in English and in Spanish. Total running time for the four segments is approximately 18 minutes for each language.

6588D $35.00

Preview streaming video online at [www.anrcatalog.ucdavis.edu](http://www.anrcatalog.ucdavis.edu)
Newly Revised!

EatFit Teacher’s Curriculum, Fourth Edition

Designed to improve the eating and fitness choices of middle school students. Includes 9 lesson plans and enhancements, recipes, educational standards, references, and answer sheets for the EatFit Student Workbook.

The curriculum also includes nutrition basics, Web-based diet analysis, and information about energy and calories, label reading, exercise, fast food, the importance of breakfast, and a look at how media can influence food choices and body image.

Designed to be used in conjunction with the fun, magazine-formatted EatFit Student Workbook. 2009. 144 sheets.

www.anrcatalog.ucdavis.edu

New!

From the Farm to Your Table: A Consumer’s Guide to Fresh Fruits and Vegetables

Have you ever wondered how to select the best fruits and vegetables at the grocery store, but you weren’t sure what you were looking for?

This colorful handbook will help you select good-quality, healthy fruits and vegetables that are a vital part of your daily diet. You’ll learn why there is more to fruit and vegetable quality than meets the eye and how to handle your fresh produce at home to maintain quality and safety.

You’ll also learn how growing and harvesting factors can affect quality and the effect of growing locations and produce handling methods.

Handy tables show you the steps between the field and your table, which fruits and vegetables should be stored in the refrigerator and which should be stored on the counter, and what to look for when selecting produce at the market.

After reading this guide you will feel confident picking out your favorite produce items at your local store or farmers’ market. 2009. 16 pp.

EatFit Student Workbook

This fun, colorful, goal-oriented magazine challenges teens to improve their eating and fitness choices. Designed to be used as a handout when presenting the EatFit Curriculum. Sold in sets of 10. Rev. 2009. 19 pp.
Healthy Families

Parent Express: A Month-By-Month Newsletter for You and Your Baby

This set of fifteen 8-page newsletters has been a perennial favorite over the years. The first three issues offer new parents-to-be ideas on how to prepare your home and yourself for a new baby in the family. Later issues look at the baby’s development month by month, with tips on nutrition, care, play, and child development to help you understand your baby, plus useful hints on taking good care of yourself along the way. Rev. 2007. 120 pp.

21634 ISBN 978-1-879906-91-4 $10.00

Also available in Spanish
Noticias para los padres: un boletín mensual sobre usted y su bebé

21639 $10.00

Lunch Box Series

Tired of hearing “not that again!” from your preschooler while preparing their lunch? Healthy, nutritious eating can be fun for everyone—including your kids! These free downloadable publications are designed to help parents in packing lunches that are nutritious, safe, and yummy. Available free online in English and Spanish.

Healthy Lunches for Preschool Children
8107 Rev. 2009. 6 pp.

Almuerzos saludables para preescolares

Learning from Labels
8108 Rev. 2007. 7 pp.

Aprendamos de las etiquetas de los alimentos
8108-S Rev. 2009 7 pp.

Safe Lunches for Preschool Children
8109 Rev. 2007. 7 pp.

Cómo empacar almuerzos seguros para preescolares
8109-S Rev. 2009 7 pp.

Appealing Lunches for Preschool Children
8110 Rev. 2009. 6 pp.

Almuerzos apetitosos para preescolares

15 Take-Along Lunches for Preschool Children,
8111 Rev. 2007 3 pp.

15 almuerzos que los preescolares pueden llevar
8111-S Rev. 2009 3 pp.

Youth Development Counselor-in-Training:
Encouraging Youth Development Outcomes at Camp

This camp manual offers a hands-on, “how-to-do-it” approach in preparing teen Counselors-in-Training (CITs).

Contains 9 educational sessions, each contains trainer information, an introduction, an icebreaker, an interactive activity that explores the session topic, questions and discussion topics, handouts and training aids, and a field work activity.

The companion CD contains all of the handouts and training aids so duplication is a snap. Published jointly with Healthy Learning. 2010. 138 pp.

3521 ISBN 978-1-60679-105-9 $24.95
Here you'll find sample production costs, profitability analyses, and basic production facts for vegetable crops; fact sheets for organic growers; rangeland management and monitoring advice; and fact sheets on genetic engineering.

You'll also find our indispensable Pest Notes, calendars of operation for many home tree fruit and nut crops, tips on lawn fertilization and watering, and handy fact sheets on pruning, planting, grafting, frost protection, composting and much more.

So whether you’ve got a 4-H project or a pest problem, a bumper crop of tomatoes from your home garden or a farm water management issue—point your browser to www.anrcatalog.ucdavis.edu for fast, reliable, answers!
# University of California
Agriculture and Natural Resources

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