
This book hit my desk just as I began to think about the spring gardening season. The Foliage Garden: Tapestries of Color, Shape, and Texture is definitely a feast for winter-weary eyes. It is richly illustrated with full-color photographs of the brilliance and subtleties found in landscape plant materials. It challenges the imagination. While we are accustomed to looking at woody plants with their fall color in mind, Davies reminds us that many of the herbaceous plants used in gardens provide texture, color and shape. She reminds us of the leaf and plant form, the ornamental value of bark and berries, and the winter interest of many plants. She challenges the reader to look beyond flower color and form. This is a book for those gardeners and practitioners who are looking for concepts beyond the mass of flower color.

The book is divided into nine chapters: A close-up look at leaves (basic leaf morphology), Bud break: The leaves of spring (an examination of the texture and appearance of new young growth and how to take advantage of it), Stars of summer (contrasts of texture and color in herbaceous and woody ornamental plants including ornamental grasses and bulbs), Foliage in autumn (the contrasts of autumn colors with bark and evergreens), A winter wonderland (a lesson in bark, berries and other persistent fruits, winter flowers and garden hardscape elements), Conifers as ornamentals (blues, gold-tones and structure), Variegated foliage (reds, pinks, yellows, creams, greens and the play of sunlight on foliage), Foliage plants with a purpose (co-mingling of culinary herbs and ornate vegetables in the landscape, use of fragrance from flowers and foliage, and foliage plants in the water garden), and Weird and wonderful (succulents, carnivorous plants, ferns and topiaries). In each chapter, Davies provides plant lists appropriate to the topic and some simple garden plans (complete with planting lists).

Typical of many gardening books, there are recommendations on plant selection that are not appropriate to different regions of the North American Continent. While the author’s gardening experience is limited to colder northern climates (Chicago and Cincinnati), the horticultural practitioner and/or advanced gardener can easily adapt the concepts and plant lists for other regions of the United States. While she might make a recommendation of placing a plant under full sun conditions in Chicago, the experienced gardener would need to put their experience to work and place that plant in afternoon shade in Atlanta. But then, that’s fairly common when using other books and resources.

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Weeds of the United States and Canada. 1998. Southern Weed Science Society, 1508 West University Ave., Champaign, IL 61821-3313. $120, CD-ROM for Windows 95, Windows 98, and Windows NT or higher.

Weeds of the United States and Canada is an excellent reference and weed identification guide. It offers several features such as an interesting taxonomy tutorial and a presentation feature that are not readily available in other CD-ROMs or books. The CD-ROM is easy to start—just place it in your CD drive. It does not have to be installed on your hard drive. Even though it is running from a CD drive, its response is still very fast. The only limitation was that the CD-ROM requires specific monitor settings, which eliminates using some monitors or cause the picture not to fill the screen of others.

Weeds of the United States and Canada is logically organized and easy to follow. It provides a brief overview and a tutorial if your knowledge of taxonomy needs to be improved. The other choices of the CD-ROM’s menu include a glossary, species listings, and a presentation section. The species covered are extensive, including most common weeds found in North America. The species listings can be searched using characteristics of an unknown weed, or by plant family, scientific and common names. The glossary and articles from the Intriguing World of Weeds provide interesting information about many of the weeds.

The tutorial is fun and interesting, although it is probably most useful for undergraduate students, horticulturists, crop consultants, and extension advisors without an extensive background in weed science. Parts of the tutorial are good reviews of common vegetative and reproductive structures important in identifying unknown plants. I only had a few minor complaints with the tutorial. The information on weed habitats (urban, aquatic, desert, etc.) is too simplistic. It should include information on niches and species adaptation to specific environments. Why are the same species not found throughout a particular habitat? There should be multiple examples of weeds within each habitat and more pictures (instead of drawings) of plants that have particular structures important for identification. All pictures used in the tutorial or glossary need labeling and arrows pointing out the structure. The tutorial contains quizzes and exams, which are excellent learning tools but should be linked to areas where the answer to the question was discussed.

The heart of the Weeds of the United States and Canada is the sec-

If you are seeking a quality and specialized book packed with information about Japanese flowering cherries, this may be the one. The price is reasonable for a book with so much information. I like the book because it is comprehensive; including the natural and cultural history, and the cultivation, propagation, observation, and classification of the Japanese flowering cherries. In addition, there are extensive and detailed chapters on the Japanese Wild Cherries and the Garden Cherries. The information is arranged in a logical manner for me; that of general to specific.

The Preface addresses the complex and sometimes confusing cherry nomenclature; an issue which resurfaces in other sections of the book. The author provides resource tools in the appendices including a metric system table with conversions, cherry names in Japanese showing the Roman, Phonetic, and Japanese Characters; a glossary of standard terms and a bibliography. Most species and cultivars are illustrated with high quality color photographs which, when used with the observation characters and the classification key, help an individual identify one of the cherries. Although the key is not exhaustive, many of the more common species and cultivars are included. Interesting and helpful illustrations from woodblock prints, drawings, catalog offerings, and maps of Japan showing plant distribution are sprinkled throughout the book.

I enjoyed the author’s occasional differences in how-to book for students, growers, and scientists. This inexpensive book has many breathtaking photographs, offers some very creative ways of looking at ornamentals, and is small enough to tuck into a camera bag.

I wish that The Garden Plants of China was available before my visit there last year as part of the ASHS People-to-People Horticultural Study Tour. It would have helped to understand the role of plants in everyday life, the history and symbolism of plant use, the conflicts that sometimes exist between culture of edible and ornamental plants, and the richness and diversity of plants native to China.

The importance of plants originating in China to worldwide ornamental horticulture is immense. Consider the universal appeal of such plants as the tree and herbaceous peonies, camellia, wisteria, flowering peach, crabapple, lilac, azalea, gardenia, and a host of others. Of these, chrysanthemum, is one of the leading cut flower and potted plants commercially grown in the world today. It was a particular favorite of the Confucian scholar and, together with the flowering plum, orchid, and bamboo, came to be known as one of the Four Gentlemen of Flowers.

The bulk of the book is devoted to chapters on individual plants, e.g., roses or groups of similar plants such as apricots, peaches, plums, and cherries. These 17 chapters are preceded by introductory chapters on Chinese horticulture, ornamental plants in Chinese culture, and introduction of Chinese garden plants to other countries. The arrangement of the plant chapters is unique beginning with the conifers and following with plants of the seasons based primarily on the order of blooming or use for ornament. Valdes believed that this approach would take into consideration Chinese sensibilities concerning the progression of the year.

Information that is provided for each plant includes family affiliation, binomial, Chinese characters, phonetic Chinese pronunciation and western name. This is followed by a brief or lengthy statement, depending on the plant, that encompasses the history, taxonomy, and its place in Chinese culture. Almost every plant is featured in lavish, full color in a typical garden scene.

Readers will expect the book to focus on ornamental plants—and it does. But edible horticulture is not ignored. For example, the chapter Wisteria and other Vines provides much useful and interesting information on kiwi fruit, watermelon, sweet potato, bottle gourd, and grape. A glossary of botanical terms enhances the value of the book for those who are unfamiliar with them or those who may have forgotten them. The book is well referenced with original literature sources and very well indexed, which makes it easy to find information on specific plants.

Many horticulturists, including those with a particular interest in Chinese horticulture and in the history of plants, will want to have a personal copy of this book. It comes highly recommended from this reviewer.
Hara, summarizes current trends and future opportunities to more fully biological N contribution.

Chapter 6, The Chemistry and Agronomic Effectiveness of Phosphate Fertilizers, authored by M. D. A. Bolland and R. J. Guilles, briefly reviews factors influencing the availability of P, including fertilizer formulation, soil reactions, and crop characteristics. This chapter had an excellent review on using phosphate rock as a P fertilizer. This section would be useful to those engaged in organic farming research where phosphate rock is one of the few options available. This chapter would have been more complete if it had included a brief review and discussion of P fertilizer placement issues. Chapter 7, Macronutrient Fertilizers, by L. M. Shuman, is a brief review of factors affecting micronutrient availability. Chapter 8, Delivering Fertilizers Through Seed Coatings, by J. M. Scott, covers limitations and opportunities to delivering fertilizer nutrients in seedcoats. This chapter had information I had not seen elsewhere.

Chapter 9, Nutrient Management, Cultivar Development, and Selection Strategies to Optimized Water Use Efficiency, by J. G. Davis and J. S. Quicke, was a brief review of factors that interact to influence water use efficiency. Chapter 10, The Role of Nutrient Efficient Crops in Modern Agriculture, by J. J. Lynch, is outstanding. This chapter defines nutrient efficiency and discusses the varying implications of nutrient efficient crops in differing cropping systems. For example, in high-value cropping situations, yield increases would not be a likely outcome since factors other than nutrients are limiting production. In these scenarios, the goal would be a reducing of nutrient inputs while maintaining of yield and profitability of production. Conversely, in situations of subsistence farming the goal would be to develop genotypes with improved yield under nutrient limited conditions. The author concludes this chapter with brief discussions on opportunities and challenges for improving crop nutrient efficiency. The author makes the case that geneticists have done a outstanding job of exploiting insect and disease resistance in their breeding programs, but have been far less aggressive in exploiting the opportunities for enhancing nutrient efficiency.

An important area that did not receive enough attention in this book was fertilizer application methods. For example, the application of nutrients with irrigation water (fertilization), particularly through pressurized irrigation systems, has proven to be an efficient means of delivering nutrients in many crop production systems. Foliage application of both macronutrients and micronutrients is another area that has been researched extensively and should have been addressed in greater detail in this book.

Near the beginning of the book is a note that Nutrient Use in Crop Production was published simultaneously as an issue in the Journal of Crop Production. I do not understand the reason for simultaneous publication.

I do not know what type of course this could be used as a text book. However, the book has a number of useful statistics and up to date literature reviews on a number of subjects related to soil fertility. The authors of the individual chapters come from around the globe giving the book a diverse array of international perspectives. I enjoyed reading the book and will find some of the statistics useful in my grant writing endeavors. The book would be a useful addition to every library, unless that library already has the same information in the Journal of Crop Production.

The book is relatively inexpensive and may also be useful to those working in the area of soil fertility.

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The second edition of Pests of the Garden and Small Farm has been completely reviewed and substantially revised since the publication of the first edition in 1990. According to the author Mary Louise Flint, director of IPM Education and Publications, Statewide Integrated Pest Management Project, and Extension Entomologist, Department of Entomology, University of California, it is the goal of this publication to bring to home gardener, organic and very small diversified growers instructions on how to bring the integrated pest management (IPM) philosophy and IPM methods into their smaller scale and/or organic growing situations for use against specific problem pests. The book is designed to help gardeners and small farmers protect their vegetables and fruits from pests with minimum use of pesticides, especially the more toxic synthetic materials. Although the main focus of the book is on food producing plants, most methodscan also be adapted to manage pests on ornamentals.

The book is divided into seven chapters, an appendix, references, an index, and an index. The first chapter contains a brief introduction into what the reader can expect to find in the book. The second chapter, Designing a Pest Management Program, provides the reader with a broad understanding of the concepts of IPM. In this chapter one will find subjects such as crop development in relation to pest management, components of a successful pest management program, soils and nutrition, water management, sanitation, crop rotation, soil solarization, reflective mulches, plant cages, rowcovers and other pest barriers, intercropping, companion planting, cover crops, biological control and pesticides. Each subject is well covered and accompanied by either excellent photographs, illustrations or tables.

The third chapter, Common Insects, Mites, Other Arthropods, Snails and Slugs, will provide the reader with the crops attacked, the appearance of the damage, identification of the pests, where to look for the pest, other monitoring tips and discussion of different control strategies that can be employed. Some of the major insect pest groupings in this chapter are leaf- and fruit-feeding caterpillars, caterpillars affecting fruit and nut trees, common caterpillar pests in vegetable gardens, borers, leaf- and fruit feeding beetles, stink bugs, lygus bugs, and other true bugs, leafhoppers, aphids, scale insects, mealybugs, whiteflies, mites, other arthropods, and snails and slugs. The color photographs are excellent of the insects (also included arenicelinedrawings), parasites that may attack them,
and damage caused by the insects. These excellent photographs will be very helpful to the user in identifying the insect pest and the parasites that feed on them.

The fourth chapter, Diseases, discusses some major diseases that will be encountered by the home gardener and small grower. Some of the diseases included are damping-off, seed and seedling decay, powdery mildew, downy mildew, brown rot in stone fruit, phytophthora brown rot of citrus, gray mold and bunch rot, common smut of corn, bacterial soft rot of vegetables, shot hole, leaf curl, bacterial canker and blast, apple scab, pear scab, viruses, vascular wilts, phytophthora root and crown rot, armillaria root rot, and crown gall. As in the preceding chapter on insects, the diseases are divided into symptoms, biology, and management practices. There are also excellent color photographs of the diseases that will be a value tool to any gardener or grower in helping them make a positive identification of disease problems in their crops. The book can travel right to the garden or field.

In the fifth chapter, the reader is presented with excellent information on nematodes. The symptoms and damage, life cycle, and management for the root-knot nematodes and several less common root feeding nematodes are discussed. There are some excellent photographs, tables and line drawings that the reader will find very useful.

The sixth chapter is dedicated to the third major pest of the home garden and small-farm weeds. This chapter contains some general weed management strategies and then presents some of the more common weed pests with a description, color photograph and suggestions for management of that weed.

The seventh chapter contains the specific crop tables starting with artichokes and ending with walnuts for a total of 16 individual or family of vegetable, 18 fruit and nut crops. Each crop table contains three headings—what the problem looks like, probable cause and comments. Under comments it may refer the reader back to a specific page in the book or to another publication.

In the Appendix the reader will find Using Degree Days for Predicting Growth and Development of Crops and Invertebrate Pests, which will be very useful since temperature is very important in controlling not only the rate of development of crop plants but many pests, especially insects.

The References are organized by chapters and in alphabetical order by author which provides the reader the opportunity to pursue a particular subject further if they have an interest or feel they need additional information to assist them in managing a pest in their garden or farm.

The Glossary includes the definitions of some common terms associated with IPM. The last section in the book is the index.

This is well written and organized book that is a must for the serious home gardener, organic and diversified small farmer. It will be an invaluable tool in helping to develop ones own integrated pest management program.

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This book by Lois Rosenfeld describes and lists over 440 gardens throughout the United States and nine provinces in Canada. All garden and special gardening events are cataloged by state or province and then further broken down by specific gardens and special events. There are all types of gardens listed in this book, from small private or estate plantings consisting of a couple of acres to large public parks and gardens covering extensive acreage. Some are free; some request a donation; and others have an entrance fee.

Each garden has at least one paragraph describing it along with a phone number; daily hours that it is open; the amount of the entrance fee if one is required; and a description on how to find it. Many of the gardens have web sites that are excellent. The ones I visited had maps that you could download and print as well as all types of activity descriptions along with color photos of theme gardens and some times specific plant material. Many also had near-by lodging sites and some even had a list of airlines that serviced the area, example: the Biltmore House near Asheville, N.C. There are more than 300 web pages, ranging from one page long up to 20 pages. Most gardens also have e-mail addresses.

All states also had numerous gardening events throughout the spring and summer that should be of interest to most gardeners. A description and the dates come along with each event. Specific addresses are given to obtain additional information. Most events also have their sponsor listed as well as the theme of the activity.

Another section of the book lists ten suggested gardening tours or vacations for various times during the 1999 growing season throughout North America. The book also describes some foreign tours throughout the world along with their dates; various flower shows by state and month; and finally, it also has a page of useful garden books. The book itself has a web site-www.gardencalendar.com where the author can update various garden events that may have changed after the book was printed.

All in all, I found this to be a potentially very useful and user-friendly book. This is its eighth year of revision and publication. If I had any complaints or suggestions, it would be that many times the author refers you, the reader, to Guide to Gardens for a specific state such as Washington Guide to Gardens for Bellevue garden near Seattle. I know this is probably not the author's fault, but it does really hamper the reader from obtaining information rapidly for those particular gardens; and there are gardens similar to this in almost every state. Thus, one would be required to write the state capital city and request the Guide to Gardens book for their particular state in order to obtain all the necessary information.

Other than this minor complaint, I found this book to be a very nice reference to have as well as having fun visiting the various garden web sites. This book will be especially useful to home gardeners, nursery people, designers, and educators.

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Books in Brief

by Donald N. Maynard


Asters are particularly popular for their late-summer/fall bloom time, their bright colors in the white-pink-purple range, and their starlike shape. The vast majority of asters are native to North America, though some are natives of Europe and Asia with a few from South Africa and South America. There are more than 250 species worldwide, and most species in cultivation are herbaceous perennials, though a few species are annuals, biennials, and shrubs.

Picton begins by discussing their botany and the history of asters in cultivation. Then, focusing on the autumn-flowering herbaceous perennials, he moves to describing particular species. A significant portion of the book is devoted to the New York aster (Aster novi-belgii): its nomenclature and breeding history, availability, and cultivation tips. The same is done for the New England aster (Aster novi-angliae), small-flowered asters, Aster amellus, Aster × frikartii, Aster laevis, and others.


Sunlight on the Lawn, the third book in the Merry Hall trilogy, ties together the finished product of house and garden at the author’s Georgian manor. Merry Hall. The well-established characters give their final appearances in Nichols’ delightful descriptions. The forward, provided by Nichols’ biographer, Bryan Connon, reveals the identities of many of the friends and neighbors on which the fictional characters are based.

Nichols’ unique mixture of fact, humor, and whimsical invention continues to charm readers on both sides of the Atlantic. In this, the last volume of the trilogy, readers can sit back and enjoy the fruits of Nichols’ labor while diving more deeply into the lives of the characters that pass though.


Succulents are those plants with thick and fleshy stems or leaves that are designed to retain water and minimize evaporation. They are primarily found in the arid and semiarid areas of the world, although some are even found in rainforests. Despite the similarities of construction that make them all succulents, families such as the Cactaceae include very diverse forms.

Grantham and Klaassen cover prehistoric fossil evidence, the history of succulents in cultivation, their worldwide origins, the adaptations that have developed to cope with arid climates, and propagation. The chapter on the proper care of succulents discusses light, temperature, watering, nutrition, and dealing with pests and diseases.
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