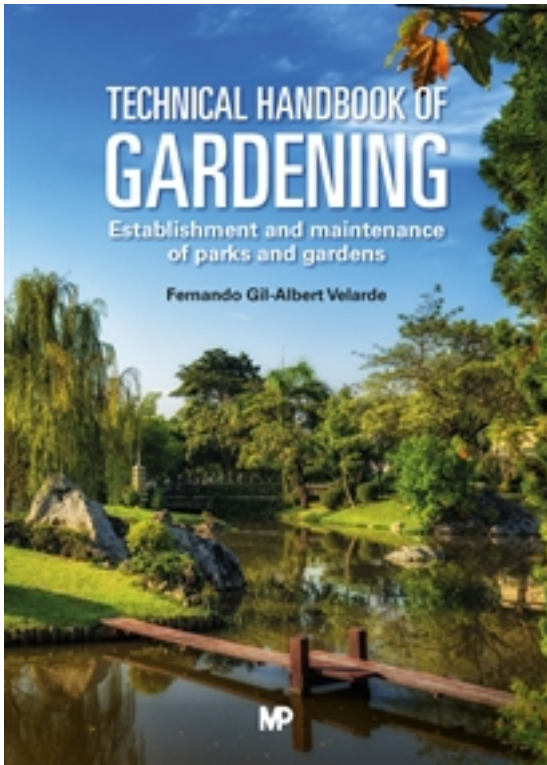


# Technical Handbook of Gardening



**Editorial:** Mundiprensa

**Autor:** FERNANDO GIL-ALBERT VELARDE

**Clasificación:** Divulgación General >  
Jardinería

**Tamaño:** 17 x 24 cm.

**Páginas:** 324

**ISBN 13:** 9788484769071

**ISBN 10:** 8484769070

**Precio sin IVA:** 24,52 Eur

**Precio con IVA:** 25,50 Eur

**Fecha publicacion:** 08/04/2024

## Sinopsis

### [Establishment and maintenance of parks and gardens](#)

This *Technical Handbook of Gardening* is meant for students and professionals of gardening in its many forms, as well as for garden lovers interested in learning about the agronomic techniques being used more and more in an area that was previously thought to be the domain of amateurs. Nowadays, gardening is not just a hobby, but calls for a higher level of scientific foundations and for more advanced technology, sophisticated tools, and expertise than ever before.

This handbook may be used as a textbook for relevant workshops and courses in gardening schools and vocational training centres.

Contents:

#### **PART 1: ESTABLISHMENT OF PARKS AND GARDENS**

garden establishment - preparing the ground - soil amendments and fertilisers - stakeout and marking of the garden - opening planting holes - the planting: plant types - planting operations - post-planting maintenance - establishment of grass and lawns - post-establishment lawn care - garden maintenance

#### **PART 2: GARDEN MAINTENANCE**

maintenance of areas without vegetation cover - maintenance of areas without vegetation cover - maintenance procedures: annual mineral fertilisation and soil amendments - maintenance procedures: irrigation - maintenance techniques: pruning - maintenance techniques: trimming hedges and borders - maintenance techniques: pest and disease control - incidents caused by climatic and soil problems - tree surgery

**Fernando Gil-Albert Velarde** holds a PhD in Agricultural Engineering and has been a professor of Arboriculture and Gardening. He also served as director of the Department of Plant Production at the School of Agricultural Engineering of the Polytechnic University of Madrid. In addition to being an emeritus professor at the aforementioned university, he promoted and directed the master's degree programme in Gardening and Landscaping. His publishing company has published several of his works on fruit growing, arboriculture, and gardening techniques.

## Indice

### **PART 1: ESTABLISHMENT OF PARKS AND GARDENS**

#### **CHAPTER I GARDEN ESTABLISHMENT**

1.1. The process of establishing a garden

1.2. Pre-cleaning of the garden's surface

#### **CHAPTER II PREPARING THE GROUND**

2.1. Standard soil preparation without adding new substrate

2.2. Soil preparation techniques

2.3. Soil preparation with the addition of substrate

#### **CHAPTER III SOIL AMENDMENTS AND FERTILISERS**

3.1. Soil amendments prior to establishing the garden

3.2. Basal fertilisation

3.3. Basal fertilisation with other nutrients

#### **CHAPTER IV STAKEOUT AND MARKING OF THE GARDEN**

4.1. Marking tools

4.2. Marking techniques

4.3. Time for marking

#### **CHAPTER V OPENING PLANTING HOLES**

5.1. Opening the holes manually

5.2. Opening the holes mechanically

5.3. Time to open the holes

5.4. The size of the holes

#### **CHAPTER VI THE PLANTING: PLANT TYPES**

6.1. Planting bare-root plants

6.2. Planting plants with a root ball

6.3. Transport and delivery of the plants

6.4. Conservation and handling of the plants at the destination

#### **CHAPTER VII PLANTING OPERATIONS**

7.1. First steps in preparation

7.2. Planting practices

7.3. The planting seasons

## **CHAPTER VIII POST-PLANTING MAINTENANCE**

- 8.1. Post-planting care
- 8.2. Replacement of failed plants
- 8.3. Care during the first vegetative phase

## **CHAPTER IX ESTABLISHMENT OF GRASS AND LAWNS**

- 9.1. Soil and site preparation for lawns
- 9.2. Seeding systems
- 9.3. The process of establishing a lawn by planting vegetative elements
- 9.4. Planting seasons

## **CHAPTER X POST-ESTABLISHMENT LAWN CARE**

- 10.1. Initial care
- 10.2. Problems related to lawn development and settlement
- 10.3. The first mowing
- 10.4. Reseeding

## **PART 2: GARDEN MAINTENANCE**

- 12.10. Sanding
- 12.11. Irrigation, mineral fertilisation, phytosanitary defence

## **CHAPTER XIII MAINTENANCE OF AREAS WITHOUT VEGETATION COVER**

- 13.1. Digging
- 13.2. Maintenance by mulching
- 13.3. Maintenance with herbicide applications

## **CHAPTER XIII MAINTENANCE OF AREAS WITHOUT VEGETATION COVER**

- 13.1. Digging
- 13.2. Maintenance by mulching
- 13.3. Maintenance with herbicide applications

## **CHAPTER XIV MAINTENANCE PROCEDURES: ANNUAL MINERAL FERTILISATION AND SOIL AMENDMENTS**

- 14.1. Contribution of soil amendments
- 14.2. Annual mineral fertilisation
- 14.3. Annual needs
- 14.4. Fertiliser types
- 14.5. Fertilisation techniques
- 14.6. The time to apply mineral fertilisation
- 14.7. Mechanical equipment used
- 14.8. The correction of deficiencies

## **CHAPTER XV MAINTENANCE PROCEDURES: IRRIGATION**

- 15.1. Water needs in the garden
- 15.2. Irrigation systems used in gardening
- 15.3. Practical considerations about irrigation
- 15.4. The problems of irrigation water quality

## **CHAPTER XVI MAINTENANCE TECHNIQUES: PRUNING**

- 16.1. General considerations
- 16.2. Types of pruning

- 16.3. Aesthetic or landscape determining factors
- 16.4. Factors affecting urban gardening
- 16.5. Health conditions
- 16.6. Basic pruning criteria
- 16.7. Times of pruning work
- 16.8. Tools and pruning equipment
- 16.9. Complementary materials and equipment
- 16.10. How to use pruning tools
- 16.11. The quality of pruning cuts
- 16.12. Complementary pruning techniques

#### **CHAPTER XVII MAINTENANCE TECHNIQUES: TRIMMING HEDGES AND BORDERS**

- 17.1. Training process of hedges and borders
- 17.2. Trimming done for maintenance
- 17.3. Tools for trimming
- 17.4. Renovation pruning
- 17.5. Times of renovation pruning
- 17.6. Artistic or geometric decorative shapes

#### **CHAPTER XVIII MAINTENANCE TECHNIQUES: PEST AND DISEASE CONTROL**

- 18.1. Conditioning factors and key aspects of phytosanitary management
- 18.2. Equipment and application methods needed for phytosanitary control
- 18.3. Phytosanitary products used in gardening
- 18.4. Active substances recommended in gardening
- 18.5. Common pests in our gardens
- 18.6. Cryptogamic diseases
- 18.7. Problems caused by wildlife

#### **CHAPTER XIX INCIDENTS CAUSED BY CLIMATIC AND SOIL PROBLEMS**

- 19.1. Winter cold: winter frosts
- 19.2. The problem of mild winters: the lack of rest (chilling requirements)
- 19.3. Spring frosts
- 19.4. Summer temperatures: 'heat stroke'
- 19.5. Incidents caused by rain
- 19.6. Problems caused by insolation
- 19.7. Incidents and damage caused by wind
- 19.8. The problems caused by hail and hailstones
- 19.9. The incidence of snow
- 19.10. The effect of lightning

#### **CHAPTER XX TREE SURGERY**

- 20.1. Treatment and care of wounds on trunk and branches
- 20.2. Treatment and care of cavities in the wood
- 20.3. Cabling and bracing branches
- 20.4. Placement of fixed supports
- 20.5. Installation of lightning rods

Ediciones Paraninfo S.A. Calle José Abascal, 56 (Utopicus). Oficina 217. 28003 Madrid  
(España)

Tel. (+34) 914 463 350 Fax

info@paraninfo.es [www.paraninfo.es](http://www.paraninfo.es)