

International Turf Management

H A N D B O O K

EDITED BY

D . E . A I d o u s

Department of Environmental Horticulture and Resource Management,
University of Melbourne, Burnley College,
Richmond, Victoria

I N K A T A P R E S S

An imprint of Butterworth Heinemann

CONTENTS

Foreword	vii
List of contributors	ix
Preface	xi

TURFGRASS GROWTH AND DEVELOPMENT

CHAPTER 1 Introduction to turfgrass science and management	1
Dr David E. Aldous	
CHAPTER 2 Turfgrass identification and selection	19
Dr David E. Aldous and Peter S. Semos	
CHAPTER 3 Turfgrass growth and physiology	49
Dr David E. Aldous and Dr John R. Wilson	
CHAPTER 4 Turfgrass soils and drainage	65
D. Keith McIntyre and Dr Bent Jakobsen	
CHAPTER 5 Turfgrass establishment, revegetation and renovation	81
Dr Han Liebao and Dr David E. Aldous	
CHAPTER 6 Turfgrass construction materials and methods	101
Dr Bent Jakobsen and D. Keith McIntyre	
CHAPTER 7 Turfgrass irrigation	119
Geoff J. Connellan	
CHAPTER 8 Turfgrass nutrition and fertilisers	139
Dr Stephen T. Cockerham and Dr David D. Minner	
CHAPTER 9 Turfgrass machinery and equipment operation	159
R. Gerry Lettner	

CHAPTER 10 Turfgrass plant health and protection	173
Dr David E. Aldous and John S. Brereton	
 BUSINESS AND ADMINISTRATION, CONTRACT DEVELOPMENT AND MANAGEMENT	
CHAPTER 11 Turfgrass facility business and administration	195
Dr Robert Witherspoon	
CHAPTER 12 Contract establishment	213
VinceA. Haining	
CHAPTER 13 Contract management	225
VinceA. Haining	
 THE MEASUREMENT OF PERFORMANCE INDICATORS IN MANAGING DIFFERENT CULTURAL SYSTEMS	
CHAPTER 14 The playing quality of turfgrass sports surfaces	231
Dr Stephen W Baker	
CHAPTER 15 Prescription surface development: Golf course management	245
Philip Ryan	
CHAPTER 16 Prescription surface development: Lawn bowling greens, croquet lawns and tennis courts	265
Gary W. Beehag	
CHAPTER 17 Prescription surface development: Sportsfield and arena management	281
John J. Neylan, David J. McGeary and Michael R. Robinson	
CHAPTER 18 Prescription surface development: Racetrack management	299
Ian H. Chivers	
CHAPTER 19 Prescription surface development: Cricket wicket management	311
Keith W McAuliffe	
 ENVIRONMENTAL ISSUES FACING THE CONTEMPORARY LAND MANAGER	
CHAPTER 20 Environmental issues in turf management	327
James T. Snow and Dr Michael P Kenna	
 Index	 345