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Nota di contenuto	ECOLOGY OF WEEDS AND INVASIVE PLANTS; CONTENTS; PREFACE; BURDOCK; INTRODUCTION; Chapter 1: Weeds and Invasive Plants; Weeds; Definitions; Agrestals; Invasive Plants; Terminology; Classification Systems of Weeds and Invasive Plants; Taxonomic Classification; Classification by Life History; Classification by Habitat; Physiological Classification; Classification According to Undesirability; Ecological Classification; Classification by Evolutionary Strategy; Weeds and Invasive Plants in Production Systems; Weeds on Agricultural Land; Reasons for Weed Control; Weeds in Managed Forests Forest RegenerationWeeds in Rangelands; Original Vegetation and Early Land Use History of Great Basin; Introduction of Cheatgrass and Fire; Invasive Plants in Less Managed Habitats and Wildlands; Local versus Regional Perspectives about Weeds; Weeds in Regional and Global Context; Summary; Chapter 2: Principles; Ecological Principles;

Interrelationship of Biology and Environment; Environment; Scale; Scale in Ecological Systems; Scale in Human Production Systems; Community Differentiation and Boundaries; Community Structure; Succession; Mechanisms of Succession
Succession in Production Systems Niche Differentiation; Invasion Process; Introduction Phase; Colonization Phase; Naturalization Phase; Genetics of Weeds and Invasive Plants; Fitness and Selection; Patterns of Evolutionary Development of Weeds and Invasive Plants; Plant Demography and Population Dynamics; Management Principles; Assessing Risk from Weeds and Invasive Plants; Management Priorities Based on Risk and Value; Market-Driven Management Considerations; Cost-Benefit Analysis; Assessing Economic Risk; Management Options in Relation to Invasion Process; Social Principles
Societal Aims versus Individual Objectives Social Conflict and Resolution; Precautionary Principle; Weed and Invasive Plant Management in Modern Society; Summary; Chapter 3: Invasibility of Agricultural and Natural Ecosystems; Plant Invasions over Large Geographical Areas; Habitat Invasibility; Community Invasibility; Local Invasions; Safe Sites; Safe Site Example; Factors That Influence Invasibility; Evolutionary History; Community Structure; Role of Plant Size in Species Dominance and Richness; Propagule Pressure; Relationship of Propagule Pressure to Invasion Process
Relationship of Dispersal to Propagule Pressure Relationship of Human and Animal Transport to Propagule Pressure; Relationship of Seed Banks to Propagule Pressure; Disturbance; Disturbance and Land Use; Relationship of Disturbance and Succession; Relationship of Stress and Disturbance; Invasibility and Exotic Plant Invasiveness; Summary; Chapter 4: Evolution of Weeds and Invasive Plants; Evolutionary Genetics of Weeds and Invasive Plants; Heritable Genetic Variation; Hybridization and Polyploidy; Epistatic Genetic Variance; Epigenetic Inheritance Systems; Adaptation Following Introduction
Responses to Environmental Gradients

Sommario/riassunto

The classic reference on weeds and invasive plants has been revised and updated. The Third Edition of this authoritative reference provides an in-depth understanding of how weeds and invasive plants develop and interact in the environment so you can manage and control them more effectively. The guide includes an introduction to weeds and invasive plants in various environments and an overview of their ecology and evolution. With extensive examples, this book: Focuses on the biological features of weeds and invasive plants, especially as they exist in agriculture, forests, rangelan
