

1. Record Nr.	UNINA9910768199503321
Autore	Blanco Humberto
Titolo	Soil Conservation and Management // by Humberto Blanco, Rattan Lal
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2023
ISBN	3-031-30341-5
Edizione	[2nd ed. 2023.]
Descrizione fisica	1 online resource (621 pages)
Altri autori (Persone)	LalR
Disciplina	631.45
Soggetti	Agriculture Soil science Sedimentology Conservation biology Ecology Environmental management Soil Science Conservation Biology Environmental Management
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1: Soil And Water Management -- Chapter 2: Water Erosion -- Chapter 3: Modeling Water Erosion -- Chapter 4: Wind Erosion -- Chapter 5: Wind Erosion Modeling -- Chapter 6: Tillage Erosion -- Chapter 7: Tillage Systems -- Chapter 8: Cropping Systems -- Chapter 9: Crop Residue Management -- Chapter 10: Cover Crops -- Chapter 11: Perennial Plants And Soil Management -- Chapter 12: Soil Amendments -- Chapter 13: Mechanical Structures And Engineering Techniques -- Chapter 14: Restoration And Management Of Degraded Soils -- Chapter 15: Soil Fertility Management -- Chapter 16: Nutrient Erosion And Hypoxia Of Aquatic Ecosystems -- Chapter 17: Soil Water Management -- Chapter 18: Management Of Grazing Lands -- Chapter 19: Soil Management And Carbon Dynamics -- Chapter 20: One Health -- Chapter 21: Soil Resilience -- Chapter 22: Food, Water, And Climate -- Chapter 23: The Way Forward.
Sommario/riassunto	This updated and expanded second edition textbook, describes all

main aspects of soil management, to address the serious problems of soil erosion and the attendant environmental pollution. The global high demands for food, fiber, feed, and fuel put a constant strain on the environment, which can only be mitigated by soil conservation. This edition incorporates new concepts and provides an up-to-date review of soil management principles and practices. The authors also added new chapters on cover crops, crop residues, soil water management, nutrient management, perennials in crop rotations and organic amendments. All practices have a clear perspective on addressing soil erosion, physical and chemical problems, carbon dynamics and sequestration as well as non-point source pollution. The restorative nature of many practices, also consider water conservation as a main pillar of sustaining a healthy soil. This textbook is valuable for students and professionals in soil science, agronomy, agricultural engineering, hydrology, and management of natural resources.

---