

ISBN: 978-981-16-0827-8

Somasundaram Jayaraman
Ram C. Dalal
Ashok K. Patra
Suresh K. Chaudhari *Editors*

Conservation Agriculture: A Sustainable Approach for Soil Health and Food Security

Conservation Agriculture for Sustainable
Agriculture

 Springer

18 Impact of Residue Burning on Soil Biological Properties	379
J. K. Thakur, Asit Mandal, M. C. Manna, Somasundaram Jayaraman, and Ashok K. Patra	
19 Physical and Hydrological Processes in Soils Under Conservation Tillage in Europe	391
Jennifer Lidia Veenstra, Joanna Marie Cloy, and Manoj Menon	
20 Nutrient Management Strategies in the Climate Change Scenario	407
A. O. Shirale, B. P. Meena, A. K. Biswas, Somasundaram Jayaraman, Priya P. Gurav, B. L. Lakaria, Pramod Jha, Narayan Lal, R. L. Jat, H. Das, and A. K. Patra	
21 Use of Herbicide and Its Implications Under No-Till Farming: An Overview	423
S. T. Maheswari	
22 Conservation Agriculture for Carbon Sequestration and Mitigation of Climate Change	433
Rajeev Ranjan, Dinesh Kumar, R. S. Yadav, Monalisha Pramanik, Mukesh K. Meena, and Nishant K. Sinha	
23 Implication of Different Tillage System on Root System Architecture and Their Environment	451
Nishant K. Sinha, M. Mohanty, Somasundaram Jayaraman, Jitendra Kumar, Dhiraj Kumar, and Alka Rani	
24 Conserving Soil and Reverting Land Degradation Through Conservation Practices with Special Emphasis on Natural Resource Conservation	477
Shakir Ali and Somasundaram Jayaraman	
25 Machinery for Conservation Agriculture: Indian Perspective	499
R. C. Singh	
26 Conservation Agriculture Improves Soil Health: Major Research Findings from Bangladesh	511
Akbar Hossain, Khondoker Abdul Mottaleb, Sagar Maitra, Biplab Mitra, Md. Khairul Alam, Sharif Ahmed, Mst. Tanjina Islam, Khokan Kumer Sarker, Sukamal Sarker, Apurbo K. Chaki, Muhammad Arshadul Hoque, Milan Skalicky, Marian Brešic, and Alison M. Laing	