
Handbook of Climate Change Resilience

Walter Leal Filho
Editor

Handbook of Climate Change Resilience

Volume 1

With 563 Figures and 494 Tables

 Springer

Editor

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Preface

As the Fifth Assessment Report (AR5) produced by the Intergovernmental Panel on Climate Change (IPCC) has shown, climate change is expected to have widespread impacts on societies.

The fact that the impacts of climate change are already being felt, not only in terms of increases in temperature but also in respect of agriculture (with lower crop yields) and the availability of water resources, among others, suggests that action is urgently needed, in order to increase the resilience of both the physical environment and communities.

In particular, there is a perceived need to identify, test, and deploy appropriate processes, methods, and tools that may help societies and nations to better adapt to the many impacts of a changing climate and become more resilient. There is also a perceived need to showcase successful examples of how this can be achieved and to illustrate how the quest to pursue climate resilience may face the many social, economic, and political problems associated with it.

It is against this background that the *Handbook of Climate Change Resilience* has been prepared by numerous scientists from across all geographical regions, under the auspices of the International Climate Change Information and Research Programme (ICCRIP). This handbook is a truly interdisciplinary publication, mobilizing scholars from over 30 countries undertaking research and/or executing climate change projects around the world.

This book focuses on “fostering resilience and capacity to adapt,” meaning that it serves the purpose of showcasing experiences from research, field projects, and best practice in climate change adaptation across many countries, which may be useful and suitable for replication of perhaps even upscaling elsewhere.

Consistent with the need for more cross-sectoral interactions among the various stakeholders working in the field of climate change adaptation, this book aims to

- (i) Provide research institutions, universities, NGOs, and enterprises with an opportunity to display and present their works in the field of climate change adaptation and resilience
- (ii) Disseminate information, ideas, and experiences acquired in the execution of climate change adaptation projects, especially successful initiatives and good practice

- (iii) Introduce methodological approaches and experiences deriving from case studies and projects, which aim to show how climate change adaptation may be implemented in practice

Last but not least, a further aim of this book is to document and disseminate the wealth of experiences on climate change resilience available today.

Enjoy your reading!

August 2019
Germany

Walter Leal Filho

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Finally, thanks are due to the International Climate Change Information and Research Programme (ICCIRP) at the Hamburg University of Applied Sciences, Germany, for the coordination of the project and mobilization of a wide range of stakeholders and authors around the world.

Contents

Volume 1

Part I Climate Change Resilience in Transportation, Energy, Forestry, and Water/Coastal Infrastructure	1
1 Sequestered Carbon Content in Tree Species and Diurnal Temperature Influence for Adaptive Climate Change Resilience in Nigeria	3
Mustapha Adejo Ibrahim, Bashir Yusuf Abubakar, and Mohammed Lawal Balarabe	
2 Climate Resilience in African Coastal Areas: Scaling Up Institutional Capabilities in the Niger Delta Region	29
Chika Ogbonna, Eike Albrecht, Collins Ugochukwu, Chinedum Nwajiuba, and Robert Onyeneke	
3 Livelihood Resilience of the Indigenous Munda Community in the Bangladesh Sundarbans Forest	51
Sajal Roy	
4 Building Community Capacity in Fragile Environments: Case Study of the Mara Serengeti Ecosystem	73
Rebekah Karimi, Albanus Mutiso, and Lippa Wood	
5 Building Resilience of Urban Ecosystems and Communities to Sea-Level Rise: Jamaica Bay, New York City	95
A. Saleem Khan, Kytt MacManus, Jane Mills, Malgosia Madajewicz, and Laxmi Ramasubramanian	
6 Risk Perception and Action to Reduce the Impact of Floods in the Czech Republic	117
Mohan Kumar Bera and Petr Daněk	
7 Water Management as a Means for Climate Change Adaptation and Sustainable Development	133
Ghrmawit Haile	

8	Urbanization, Climate Linked Water Vulnerability as Impediments to Gender Equality: A Case Study of Delhi, India	149
	Jagrithi Kher, Savita Aggarwal, Geeta Punhani, and Sakshi Saini	
9	Vulnerability of Uganda’s Electricity Sector to Climate Change: An Integrated Systems Analysis	177
	Vignesh Sridharan, Eunice Pereira Ramos, Constantinos Taliotis, Mark Howells, Paul Basudde, and Isaac V. Kinhonhi	
10	Managing the Increasing Heat Stress in Rural Areas	207
	Adithya Pradyumna, Ramkumar Bendapudi, Dipak Zade, Marcella D’Souza, and Preamsagar Tasgaonkar	
11	Resettlement and Relocation Options for Coastal Communities	229
	Peni Hausia Havea, Sarah L. Hemstock, and Helene Jacot Des Combes	
12	Building Resilience to Climate Change: Water Stewardship in Rainfed Agrarian Villages in Maharashtra, India	245
	Eshwer Kale and Marcella D’Souza	
13	Resilience in Climate Stressed Environment Through Water Grabbing	269
	Makarius C. S. Lalika	
14	Impacts of Some Climatic Factors on Soil Quality of Tropical Acid-Sand Soils	295
	Nkem J. Nwosu and Paul B. Okon	
15	Bioremediation Effects of Nitrogen Fixing Trees on Nutrients and Heavy Metals in Spent Engine Oil Polluted Soil	319
	Bamidele Adanikin and Joshua Kayode	
16	Building Vulnerable Islander Resilience to Natural Hazard: A Participatory Approach	329
	Riffat Mahmood and A. Q. M. Mahbub	
17	Climate Variability and Water Availability in Riparian Rural Communities of the Ebríé Lagoon in Côte d’Ivoire	359
	Isimemen Osemwegie and Adjoua Nadège Boko-Koiadia	
18	Microbial Inoculants for Improving Carbon Sequestration in Agroecosystems to Mitigate Climate Change	381
	Abeer Ahmed Qaed Ahmed, Kehinde Abraham Odelade, and Olubukola Oluranti Babalola	

19	Area Enclosure as a Strategy for Climate Change Mitigation: Case Study from Tigray Region, Northern Ethiopia	403
	Samson Shimelse, Tamrat Bekele, and Sileshi Nemomissa	
20	Balancing Adaptation and Mitigation in the Building Sector of New York State	429
	Yasmein Okour, Nicholas B. Rajkovich, and Martha Bohm	
21	Biodiversity, Ecosystem Degradation, and Climate Change Effects on Livelihoods in the Bitumen Area of Nigeria	447
	Mosunmola Lydia Adeleke, O. J. Oluwatosin, O. A. Fagbenro, T. T. Amos, and I. A. Ajibefun	
22	Climate Change and Coastal Resilience in Nigeria	459
	Mosunmola Lydia Adeleke, Bosede Olufunmilayo Akinwalere, Kehinde Oluwatosin Olajubu, and Gbenga Emmanuel Onibi	
23	Drivers of Deforestation and Land-Use Change in Southwest Nigeria	475
	Mayowa Fasona, Peter Adegbeniga Adeonipekun, Oludare Agboola, Akinlabi Akintuyi, Adedoyin Bello, Oluwatoyin Ogundipe, Alabi Soneye, and Ademola Omojola	
24	Tradition Versus Climate Change: Cultural Importance of Indigenous Fruit Tree and Adaptation in Benin, West Africa ...	499
	Laurent Gnonlonfin, Christine N. A. Ouinsavi, Gérard Gouwakinnou, Belarmain A. Fandohan, and Towanou Olivier Houetchegnon	
25	Forest Cover Change and Its Impacts on Ecosystem Services in Katimok Forest Reserve, Baringo County, Kenya	515
	A. Jebiwott, G. M. Ogendi, S. M. Makindi, and M. O. Esilaba	
26	Ecotourism as an Adaptation Strategy for Mitigating Climate Change Impacts on Local Communities Around Protected Areas in Ghana	537
	Yaw Boakye Agyeman	
27	Influence of REDD+ Pilot Project on Livelihoods of Mangrove Forest Adjacent Communities in Zanzibar, Tanzania	557
	Rukia A. Kitula	
28	Impacts of Climate Change on Health: Evidences from Multi-stakeholders in the Western Region of Cameroon	571
	Hubert Fudjumdjum	
29	Ecological Limits: Implications for Sustainable Human Capital Development	585
	Oluwabunmi Opeyemi Adejumo	

- 30 Relationship Between Climate Change, Natural Disasters, and Resilience in Rural and Urban Societies** 607
Safieh Javadinejad, Saeid Eslamian, Kaveh Ostad-Ali-Askari, Mohsen Nekooei, Neda Azam, Hosein Talebmorad, Ali Hasantabar-Amiri, and Mohammad Mousavi

Volume 2

Part II Climate Resilience and Public Safety, Health, Agriculture, Food Security, and Emergency Management 633

- 31 Resilience of Greek Communities Hosting Climate Migrants: The Perceptions of Environmental Educators** 635
Aristea Kounani and Constantina Skanavis
- 32 Effect of Climate Variability on Crop Income in Central Highlands of Ethiopia** 661
Arega Shumetie, Kassa Belay, Degye Goshu, and Majaliwa Mwanjalolo
- 33 Sustainability of Climate Change Adaptation Measures in Rivers State, South-South, Nigeria** 675
A. Henri-Ukoha and O. M. Adesope
- 34 Climate and Climate Change Scenarios in the Indian Thar Region** 685
Surendra Poonia and A. S. Rao
- 35 Ecosystem-Based Adaptation and Gender Perspectives from a Participatory Vulnerability Assessment in Mountainous Rural Vietnam** 699
Tran Thi Kim Lien and Kathryn Brown
- 36 Climate Change: Depression in Egg Production in Chickens During the Hot Season with Long-Term Honey Administration** 717
M. O. Abioja and M. O. Adekunle
- 37 Climate Variability and Change in Guinea Savannah Ecological Zone, Nigeria: Assessment of Cattle Herders' Responses** 729
Ayansina Ayanlade and Stephen M. Ojebisi
- 38 Assessment of the Degree of Households' Vulnerability to Climate Variability in Nigeria** 749
Abiodun Emmanuel Awoyemi and O. Adeola Olajide
- 39 Impacts of Climate Change on Agriculture, Livelihoods, and Women in Nile Delta, Egypt** 765
Marwa R. Hafez

40	Impacts of Climate Change on Food Security: An Appraisal . . .	785
	Damilola Grace Ogunrotimi and Joshua Kayode	
41	Climate Change, Vulnerability, and Adaption Under the Small Farming Households of Konso Community, Southern Ethiopia	797
	Yohannes GebreMichael	
42	Role of Climate Justice in Strengthening Adaptive Capacities in Developing Countries	823
	Ruchi Sachan	
43	Toward Climate-Resilient African Indigenous Vegetable Production in Kenya	845
	Winifred Chepkoech, Nancy W. Mungai, Hillary K. Bett, Silke Stöber, and Hermann Lotze-Campen	
44	Agricultural Impacts of the 2015/2016 Drought in Ethiopia Using High-Resolution Data Fusion Methodologies	869
	James M. Warner and Michael L. Mann	
45	Intensifying Maize Production Under Climate Change Scenarios in Central West Burkina Faso	895
	Omonlola Nadine Worou, Jérôme Ebagnerin Tondoh, Josias Sanou, Thomas Gaiser, Pinghouinde Michel Nikiema, Jules Bayala, Paulin Bazié, Catherine Ky-Dembele, and Antoine Kalinganiré	
46	Fertilization Strategies Based on Climate Information to Enhance Food Security Through Improved Dryland Cereals Production	917
	Komla Kyky Ganyo, Bertrand Muller, Aliou Guissé, and Myriam Adam	
47	Drip Watering Regimes on Growth Performance, Yield, and Water Use Efficiency of Sorghum in Semi-arid Environment of Tanzania: Effects	935
	Athuman Juma Mahinda, Method Kilasara, and Charles K. K. Gachene	
48	Managing Vulnerability to Drought and Enhancing Smallholder Farmers Resilience to Climate Change Risks in Zimbabwe	961
	Obert Jiri and Paramu L. Mafongoya	
49	Building Pastoral and Agro-pastoral Community Resilience Against Drought in the Context of the Paris Agreement: The Case of Isiolo County, Kenya	979
	David Walunya Ong'are and Anne Nyatichi Omambia	

50	Climate Change Adaptation Among Female-Led Micro, Small, and Medium Enterprises in Semiarid Areas: A Case Study from Kenya	1001
	Joanes Atela, Kate Elizabeth Gannon, and Florence Crick	
51	Assessment of Barriers to Food Security in North-Eastern Nigeria	1019
	Hubert Fudjumdjum, Walter Leal Filho, and Desalegn Yayeh Ayal	
52	Rural Farmers' Adaptation Decision to Climate Change in Niger Delta Region, Nigeria	1035
	Nsikak-Abasi A. Etim and NseAbasi N. Etim	
53	Economic Viability of Alternative Small-Scale Irrigation Systems Used in Vegetables Production in Koulikoro and Mopti Regions, Mali	1051
	A. M. Kane, J. K. Lagat, T. Fane, J. K. Langat, and B. Teme	
54	Cultivar Selection and Management Strategies for <i>Lablab purpureus</i> (L.) Sweet in Africa	1083
	Neil R. Miller, Wilfred Mariki, Alison Nord, and Sieglinde Snapp	
55	Introduction of a Biodiversity Farming Concept in Amuru District, Uganda	1097
	Nyeko Pen-Mogi and Martine Nyeko	
56	Scaling Up Climate-Smart Agricultural (CSA) Solutions for Smallholder Cereals and Livestock Farmers in Zambia	1115
	Idowu Kolawole Odubote and Oluyede Clifford Ajayi	
57	Multidimensional Framework for Achieving Sustainable and Resilient Food Systems in Nigeria	1137
	Kyle Frankel Davis and Olawale Emmanuel Olayide	
58	Potential of Smart Aquaculture Technologies on Improving Fish Production in Malawi	1161
	M. Mulumpwa	
59	Climate Change and Variability in the Mixed Crop/Livestock Production Systems of Central Ethiopian Highland	1169
	Nigatu Alemayehu, Mary Masafu, Abule Ebro, Azage Tegegne, and Getachew Gebru	
60	Impact of Smart Crop-Livestock Diversification as Climate Change Adaptation Strategies on Farmers' Living Conditions, Tahoua State, Niger Republic	1193
	Zakou Amadou and Zakari Saley Bana	

61	Climate Change Implication on Airborne Infections: Roadmap for Nigeria's Health Sector Development	1215
	Tosin K. W. Gbadegesin	
62	Herdsmen on the Move: The Burdens of Climate Change and Environmental Migration in Nigeria	1225
	Toyib Aremu and Praise Abraham	
63	Assessing Socioeconomic Factors Influencing Production and Commercialization of Bambara Groundnut as an Indigenous Climate-Resilient Crop in Nigeria	1237
	Olawale Emmanuel Olayide, Samuel A. Donkoh, Isaac Gershon Kodwo Ansah, William Adzawla, Patrick J. O'Reilly, Sean Mayes, Aryo Feldman, Razlin Azman Halimi, George Nyarko, Christopher O. Ilori, and Tunrayo Alabi	
64	Perceptions of Challenges Facing Pastoral Small Ruminant Production in a Changing Climate in Kenya	1257
	Rosemary N. Ngotho-Esilaba, J. O. Onono, J. N. Ombui, J. F. Lindahl, and H. O. Wesonga	
65	Assessment of Climatic Variability Effect on Millet Production and Yield	1269
	Olumuyiwa Idowu Ojo, Abdulafeez Olalekan Olaniyan, Adeniyi Suleiman Gbadegesin, and Masengo Francois Ilunga	
66	Climate Change Vulnerability Among Pastoralists and Farmers in Ethiopia	1291
	Desalegn Yayeh Ayal, Walter Leal Filho, Muluneh Woldetisadik, Solomon Desta, and Chunlan Li	

Volume 3

Part III	Climate Resilience Measures Integrated with Policies and Governance at City, Regional, and National Level	1315
67	Domestic Water and Disaster Management Legislation: A Key Tool for the Implementation of the Paris Agreement in LDCs ...	1317
	Tales Carvalho Resende	
68	Enhancing Resilience of Livelihoods and Production Systems to Climate Variability and Other Related Risks in Africa	1343
	Herve Alain Napi Wouapi and Maruf Sanni	
69	Financing Projects for Improving Climate Change Resilience: The Cases of Djibouti and Yemen	1357
	Imad Antoine Ibrahim	

70	Fostering Climate-Resilient Biodiversity Framework in West Africa and Implications for Regional Development	1377
	Samuel Aderemi Igbatayo	
71	Causes and Impacts of Climate Change in Asia Pacific: Integrated Responses and Need for Change in Decision Making in Australia	1395
	Maureen Papas	
72	Community-Based Climate Change Adaptation Action Plans to Support Climate-Resilient Development in the Eastern African Highlands	1417
	Tino Johansson, Emmah Owidi, Sarah Ndonge, Sarah Achola, Weyessa Garedeu, and Claudia Capitani	
73	Working Together to Build Climate Resilience in Hudson Riverfront Communities	1443
	Libby Zemaitis, Nava Tabak, Kristin Marcell, Bennett Brooks, and Julie Noble	
74	Planning and Climate Change in Serbia: Integrated Responses to the Causes and Impacts	1463
	Tijana Crnčević and Jelena Živanović Miljković	
75	Urban Climate Change Vulnerability, Responses, and Policies in Qatar: An Assessment	1477
	Mohammad Al-Saidi, Sara Abdelhakim Mohammad, and Amina Nihad Awartani	
76	From Vulnerability Assessments to Low/No Regret Resilience Planning in Rural Contexts	1501
	Anuradha Phadtare, Swapnil Vyas, Marcella D'Souza, Dipak Zade, and Yogesh Shinde	
77	Quality Management System for Climate Change Adaptation for the Tri-City Area Bergisches Städtedreieck	1531
	Kathrin Prenger-Berninghoff, Alice Neht, and Andreas Witte	
78	Resilience to Extreme Events in the City of La Paz, Mexico	1557
	Antonina Ivanova	
79	Institutional Barriers in Local Adaptation Policies	1577
	Stéphane La Branche and P. Bosbœuf	
80	Environmental Sustainability and Systems Thinking: A Foundation for More Effective Climate Policy	1597
	G. D. Bothun	

81	Policy and Institutional Dimensions in Climate-Smart Agriculture Adoption: Case of Rural Communities in Zimbabwe	1611
	Angeline Mujeyi	
82	Climate Change and Population Growth in Pastoral Communities of Ngorongoro District, Tanzania	1627
	Sef Sloomweg	
83	Determinants of Adoption of Climate-Smart Agriculture Technologies at Farm Plot Level: An Assessment from Southern Tanzania	1647
	Chris M. Mwangu, Caroline Mwongera, Kelvin M. Shikuku, Mariola Acosta, and Peter Läderach	
84	Understanding Kenyan Farmers' Perceptions of and Responses to Climatic Variability to Build their Resilience	1661
	Fiona Mwaniki and Humphrey M. Ngibuini	
85	Mitigating and Adapting to "Arid" Climate Extremes: Impacts of Locally Prioritized Ecosystem-Based Adaptations at the Water-Energy Nexus	1681
	Caroline King-Okumu, Jarso Harou, Victor A. Orindi, and Molu Tepo	
86	Household Head-Related Social Capital: The Trump Card for Facilitating Actual Uptake of Innovation in Rural Smallholder Systems	1711
	Felix Kwabena Donkor and Kevin Mearns	
87	Climate Change Adaptation Through Science-Farmer-Policy Dialogue in Mali	1727
	Lin Bautze, Gian L. Nicolay, Matthias Meier, Andreas Gattinger, and Adrian Muller	
88	Livestock Market Improvement with Anthropological Approach in Drought Resilience Project in Northern Kenya	1743
	Fumiaki Murakami and Monicah Kinuthia	
89	Determinants of Household Food Security Status and Challenges of Building Resilience to Climate Variability and Change Posed by Drought in Tharaka Nithi, Kenya	1757
	Victoria Gioto, Shem Wandiga, and Christopher Oludhe	
90	Implications for Mitigation and Adaptation Measures: Rice Farmers' Response and Constraints to Climate Change in Ivo Local Government Area of Ebonyi State	1787
	K. N. N. Ezike	

91	Building Eco-social Resilience in Rural Communities: Benefits of Permaculture Pedagogy and Praxis	1801
	David Yisrael Epstein HaLevi, Greg William Misiaszek, Hugh Kelly, Sheena Shah, Charles Mugarura, and Liam James Walsh	
92	Climate Finance as a Catalyst for Initiating an African Green Revolution to Enhance Drought Resilience: Policy Prospects and Challenges	1843
	Dumisani Chirambo	
93	Green Bonds: A Catalyst for Sustainable Development in Nigeria	1859
	Nelson Ifeanyi Obine	
94	Isolation as a Barrier for the Climate Change Actions of Insurers	1883
	Lara Johannsdottir and James R. Wallace	
95	Early Warning System and Ecosystem-Based Adaptation to Prevent Flooding in Ibadan Metropolis, Nigeria	1909
	Olusegun Michael Ogundele and Rosemary Egodi Ubaekwe	
96	Effects of Mentoring and Field Study Instructional Strategies on Students' Climate Change Reduction Practices in Social Studies in Lagos State	1935
	Olawale Oyemade Oyekanmi, Peter Adewale Amosun, and Ibidun O. Adelekan	
97	Strengthening Climate Change Adaptation in the Cities of West Africa: Policy Implications for Urban Resilience	1957
	Maruf Sanni, Abdulai Jalloh, Aliou Diouf, Musiliyu K. Atoyebi, Oluwatosin E. Ilevbare, and Sunday J. Olotu	
98	Climate Change Awareness and Adaptation Measures Among Farmers in Cross River and Akwa Ibom States of Nigeria	1983
	A. U. Ogo, M. U. Ekong, and N. M. Ifebueme	
99	Sustainability and the Effectiveness of BNRCC Community-Based Adaptation (CBA) to Address Climate Change Impact in Nigeria	2003
	Emmanuel C. Nzegbule, Chinedum Nwajiuba, Gloria Ujor, Robert Onyeneke, Samson Samuel Ogallah, and David Okali	
100	Protecting Climate Change-Induced Internally Displaced Persons in Africa: Relevance of the Kampala Convention	2023
	Romola Adeola	

101	Leveraging Best Practices for Climate Adaptation in the West African Sahel: The Emergence of Global Alliance for Resilience	2035
	Samuel Aderemi Igbatayo and Oladapo Opeyemi Babalola	
102	Governance Dimensions of Climate Change Adaptation: The Case of Didahara, Borana, Southern Ethiopia	2059
	Desalegn Yayeh Ayal, Solomon Desta, and Lance Robinson	
103	Urban Water Reclamation with Resource Recovery as a Cornerstone of Urban Climate Change Resilience	2075
	Daphne Gondhalekar, Mohammed Al-Azzawi, and Jörg E. Drewes	
104	Gender Analysis Approach to Analyzing Gender Differentiated Impacts of Coping Strategies to Climate Change	2097
	Jagriti Kher and Savita Aggarwal	
105	Addressing Slow Onset Disasters: Lessons from the 2015–2016 El Niño in the Philippines	2125
	Erwin A. Alampay and Dennis dela Torre	

Volume 4

Part IV	Technological and Science-Based Approaches to Climate Resilience	2143
106	Climate Change Resilience: Role of Insurers in Bridging the Gap Between Climate Change Science and Heterogeneous Stakeholders	2145
	Lara Johannsdottir and James R. Wallace	
107	Climate-Proof Retrofitting of Urban Areas for the Same Cost ...	2171
	L. Kleerekoper, R. Loeve, and J. Kluck	
108	Persuading Pacific Maritime Supply Chain Stakeholders to Prioritize Climate Change Resilience	2197
	Jack Alban Dyer	
109	Fostering Climate Smartness in Smallholder Farming Systems: Business Promotional Approaches for Improved Maize Varieties in Eastern and Southern Africa	2225
	Kingstone Mujeyi and Angeline Mujeyi	
110	Innovation Systems to Adapt to Climate Change: Lessons from the Kenyan Coffee and Dairy Sectors	2249
	Kinfe Asayehegn, Ludovic Temple, Philippe Vaast, and Ana Iglesias	

111	Optimizing Outputs of Nigerian Research Institutes to Achieve National Food Security in the Face of Climate Change	2273
	Samuel Adelowo Olakojo	
112	Saline Agriculture: A Climate Smart Integrated Approach for Climate Change Resilience in Degraded Land Areas	2287
	Muhammad Saqib, Javaid Akhtar, Ghulam Abbas, and Hafiz Abdul Wahab	
113	Discussion with Farmers in Southwestern Nigeria on Climate Change and Agriculture	2307
	Obasanjo Joseph Oyedele	
114	Cross-Disciplinary Drivers: Benefit to Smallholder Farmers and to Achieve SDGs by Various Means	2325
	Ijaz Rasool Noorka and J. S. (Pat) Heslop-Harrison	
115	Climate-Resilient Agricultural Practices in Different Agro-ecological Zones of Bangladesh	2337
	Muhammad Abdur Rahaman, Mohammad Mahbubur Rahman, and Md. Shahadat Hossain	
116	Agro-met Services and Farmer Responsiveness to Advisories: Implications for Climate Smart Agriculture	2365
	Ramkumar Bendapudi, Nitin Kumbhar, Prithviraj Gaikwad, and Crispino Lobo	
117	Vulnerability and Adaptation Levels of the Construction Industry in Kenya to Climate Change	2383
	Onkangi N. Ruth, Mwangi Peter Njiiri, Erick Maklago, and Ondari Lilian	
118	Drought-Tolerant Crops in Kirinyaga County, Kenya: Climate-Smart Agriculture Adaptation Strategies	2401
	Peterson N. M. Njeru, Jayne Mugwe, Monicah Mucheru-Muna, Immaculate Maina, Stephen K. Kimani, and David K. Lelgut	
119	Effect of Mulching on Soil Temperature and Moisture for Potato Production in Agro-ecological Zones of Central Highlands of Kenya	2415
	Eva N. Gacheru, Charles K. K. Gachene, Patrick T. Gicheru, and Lieven Claessens	
120	Ecosystem-Based Adaptation in Tigray, Northern Ethiopia: A Systematic Review of Interventions, Impacts, and Challenges	2439
	Mulubrhan Balehegn, Mitiku Haile, Chao Fu, and Wu Liang	

-
- 121 Seasonal Climate Forecasts Among Farmers in Nigeria: Assessment of the Usability** 2485
Glory Ikponmwoosa Edwards and Dominic Kniveton
- 122 Asphalt Making Potential of Pyrolytic Bitumen from Waste Rubber Tyres: An Adaptive Measure to Climate Change** 2515
J. G. Akinbomi, S. O. Asifat, A. Ajao, and O. Oladeji
- 123 Local Knowledge of Climate Change Among Arable Farmers in Selected Locations in Southwestern Nigeria** 2531
David Olabanjo Sanni
- 124 Adaptation of Sorghum (*Sorghum bicolor* L. Moench) Crop Yield to Climate Change in Eastern Dryland of Sudan** 2549
Haitham R. Elramlawi, Hassan I. Mohammed, Ali W. Elamin, Omer A. Abdallah, and Abdel Aziz A. M. Taha
- 125 Agriculture in the Face of Climate-Mediated Flooding in Tropical Africa: Technical Innovations of Fish Farmers in Southwestern Nigeria** 2575
Oyediran O. Oyebola, Jackson Efitre, Augustine E. Falaye, Taiwo M. Dada, and Funmilayo C. Idowu
- 126 Investigation of Rainfall Characteristics in Sudano-Sahelian Region of Nigeria (1971–2006)** 2595
Aliyu Tambuwal Umar, Sani Abubakar Mashi, and Mansur Matazu Bako
- 127 Climate Change Adaptation: Adoption of GMOs in Africa** 2623
Emmanuel Ejim-Eze
- 128 Climate Smart Adaptations in the African Tropics: Scaling Weather Information for Decision Support Outcomes in Nigeria Savannahs** 2651
David Olufemi Awolala
- 129 Climate Change Education for Sustainable Development: Lessons for Nigeria** 2685
Daniel Mailumo, Simeon Igbe, and Pius Mailumo
- 130 Enhancing the Capacity of Vulnerable Community to Climate Change: Role of Quality Declared Seed Production Model in Semi-arid Areas of Central Tanzania** 2699
E. Y. Swai, F. Njau, and M. Farrelly
- 131 Assessment of Information on Successful Climate-Smart Agricultural Practices/Innovations in Tanzania** 2721
Paschal Arsein Mugabe

132	Impact of Climate Change on Growing Season in Nigeria: Seasonal Rainfall Prediction (SRP) as Assessment and Adaptation Tool	2743
	Paul Akeh Ugbah, Olumide Olaniyan, Sabastine Dekaa Francis, and Adamu James	
133	Educating Farmers in Rural Areas on Climate Change Adaptation for Sustainability in Nigeria	2771
	Benjamin Anabaraonye, Joachim Chukwuma Okafor, and James Hope	
134	Water Harvesting Technology for Enhancing Food Security Livelihood: The Case of Northern Katsina State, Nigeria	2791
	S. Jari, M. Muntaka, and R. T. Nabinta	
Index	2805

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