



IC PROJECT REPORTING TEMPLATE AS PART OF THE STRATEGY AND PROCESS ON HOW THE IC REVIEWS AND ANALYSES ICD PROJECTS

Project Title: Project on Biodiversity and Agriculture: addressing scale insect threats in Kenya

Reporter (name, position): Kenya Plant Health Inspectorate Service (KEPHIS)

Project Code (if applicable):

1. Project Profile	
Recipient Region(s)/ Countries	Kenya
Donor/ Resource Partner	UK Darwin Initiative
Collaboration / Participating Organizations	Kenya Agricultural and Livestock Research Organization (KALRO), Kenya Forestry Research Institute (KEFRI), National Museums of Kenya, Mombasa, Kwale, Kilifi Counties, Kenya Plant Health Inspectorate Service (KEPHIS), CABI, Natural History Museum, London
Project Budget (detailed funds and/or in-kind)	USD 8 000
Project Timing	2018 – 2021
2. Summary of Project (Scope, Relevance to the IPPC, Main outputs, Success and challenges)	
<p>Scope The project objectives were to update the Kenya country scale insect checklist, document scale species endangering major crops and local biodiversity, develop scale insect identification aids, and disseminate information on scale insects to support integrated pest management, habitat protection, and community awareness.</p> <p>Relevance This project contributes to the implementation of ISPM 14 (<i>The use of integrated measures in a systems approach for pest risk management</i>) on the use of integrated measures in a systems approach for pest risk management.</p> <p>Main outputs: Information sharing on scale insects</p> <p>Success: Dissemination of information on scale insects to support integrated pest management, habitat, protection, and community awareness. Published papers addressing scale insect threats in Kenya.</p> <p>Challenges: Limited funds hence limited surveillance was done and inadequate capacity building for farmers and extension officers was done. Lack of diagnostic experts in Kenya and the region hence samples sent to the UK for confirmatory tests.</p>	
3. Project Supporting Materials [e.g. hyperlinks]	

Biodiversity and agriculture: addressing scale insect threats in Kenya (2019)
<https://www.researchgate.net/publication/334045214>

New records of scale insects and mealybugs (Hemiptera: Coccoomorpha) in Kenya (2021)
<https://doi.org/10.1111/epp.12786>

Ants (Hymenoptera: Formicidae) associated with scale insects (Hemiptera: Coccoomorpha) on citrus trees in Coastal and Lower Eastern Counties, Kenya (2021)
<https://doi.org/10.31248/JASP2020.239>

A checklist of the scale insects (Hemiptera: Coccoomorpha) of Kenya, with some new combinations (2021)
<https://doi.org/10.11646/zootaxa.5060.4.3>

Diversity Of Scale Insects (Hemiptera: Coccoomorpha) Attacking Citrus Trees In Machakos, Makueni, Kilifi And Kwale Counties, Kenya (2021)
<https://doi.org/10.31248/JASP2021.275>

Towards the identification of the scale insects (Hemiptera: Coccoomorpha) of continental Africa: 1. Identification of the families (2021)
<https://doi.org/10.11646/zootaxa.5052.2.1>

4. List project technical resources (i.e. guides, training materials, tools) that could be useful and used by other stakeholders

- Scale Insects & mealybugs Field Identification Guide
- Fact Sheets
- Best practices for scale insect management

5. Provide a list of project experts that could be recommended to other stakeholders and describe why

Dr. Gillian Watson – Scale insect taxonomist expert and trainer
Dr. Andrew Polaszek – Natural enemies expert and trainer
Dr. Wanja Kinuthia – Entomologist; Field sampling of scale insects & other invertebrates; collecting and curating invertebrates; trainer

6. List targeted beneficiaries [i.e. regions, countries, RPPOs, NPPOs and other institutions]

County government in Kenya: Kilifi, Kwale, Mombasa
Research institutions: Kenya Agricultural and Livestock Research Organization (KALRO), Kenya Forestry Research Institute (KEFRI), National Museums of Kenya
NPPO: Kenya Plant Health Inspectorate Service (KEPHIS)
University of Nairobi
International organization: CABI