REPUBLIC OF KENYA

KALRO
Kenya Agricultural & Livestock Research Organization

NAVCDP
NATIONAL AGRICULTURAL VALUE CHAIN DEVELOPMENT PROJECT

# Avocado Mango Rose Beetle *(Pachnoda sinuata)*

## KALRO E-mimea Plant Clinic

## KALRO/NAVCDP Factsheet No. 193/2024

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| **Other crops:** | Mango, guava, avocado, citrus, maize, coconut, pigeon peas, ginger, and roses |

*Mango rose beetle infestation of avocado flowers*
*Source: Jesca Mbaka, KALRO*

*Mango rose beetles*
*Source: Jesca Mbaka, KALRO*

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| **Pest Name** | Mango rose beetle |
| **Description** | The mango rose flower beetle adults are 12-17mm long, broad, oval, flat, dark brown with pale markings. Their adult life revolves completely around flowers. Mating occurs on flowers and their adult diet consists mostly of pollen and sometimes nectar. It's a pest of concern since it feeds on flowers causing losses 60 to 100% fruit loss. |
| **Diagnosis/Identification** | **Symptoms**<br>The mango rose flower beetles feeds on pollen and thus destroys flowers (panicles), leading to a negative impact on fruit set and subsequent yield. This beetle is a heavy feeder and few numbers can cause high losses |
| **Conditions prevailing that contribute to success** | - Presence of other host plants within avocado orchards<br>- Low soil fertility and insufficient soil water supply |
| **Conditions prevailing that contribute to failure** | - Proper soil fertility and water management |

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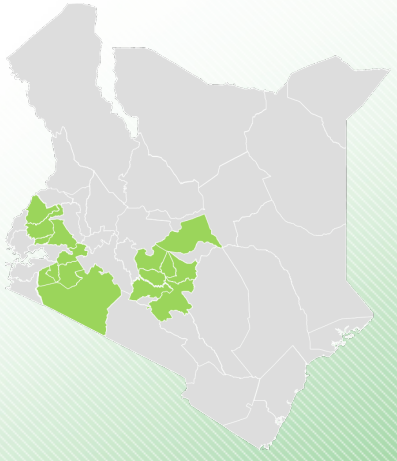
| **Management Strategy** | The following management options are recommended:<br>**Control:**<br>- Manually pick insects for low infestation<br>- Spray repellants (onions, garlic, lantana, eucalyptus)<br>- Use plant-derived-products, such as derris, neem or pyrethrum are likely to be effective against adults as well as synthetic pyrethroids.<br>Examples of synthetic products:<br>- Spray Nimbecidine EC, Tata Mida 200 SL, Twiga Ace 20% SL, Actara 25 WG, CLOSER 240SC (Sulfoxaflor 240g/L) WHO Class III, slightly hazardous, Blue Color Band and observe 14 days PHI<br>**Note:** *Agrochemicals should be used in consultation with professional practitioners and considering existing cautionary/safety measures, particularly the manufacturer's instructions.* |
| **Mandate Centres** | More information can be obtained from:<br>ICRI KALRO–NSRC<br>**Email:** kalro.sericulture@kalro.org<br>**Address:** P. O. Box 7816-01000, Thika<br><br>ABIRI KALRO Perkerra<br>**Email:** director@abiri.org<br>**Address:** P. O. Box 32-30403, Marigat<br><br>KALRO Seed<br>**Email:** info.kalroseeds@kalro.org; info@kalro.org<br>**Address:** P. O. Box 6223-01000, Thika<br><br>KALRO-NARL Kabete<br>**Email:** cd.narl@kalro.org; info@kalro.org<br>**Address:** P. O. Box 14733-00800, Nairobi |
| **Geographic Coverage** | This is pest is found in major avocado producing areas in Kenya |
| **Geographic Coverage**<br>The project counties for avocado are Bomet, Bungoma, Embu, Kakamega, Kiambu, Kericho, Kirinyaga, Kisii, Machakos, Meru, Muranga, Nandi, Narok, Nyamira, Nyeri, Uasin Gishu, and Vihiga<br>Counties where pest occurs<br>Counties with no observation |  |

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| **Editors** | **Editors:** Wasilwa L.A. and Mulwa J. M. |
| **Funding** | Kenya Agricultural & Livestock Research Organization (KALRO) and National Agriculture Value Chain Development Project (NAVCDP) |
| **References** | - Belay, H. (2015). *Development of Mycopesticide for the Management of Sorghum Chafer, Pachnoda Interrupta (Olivier)(Coleoptera: Scarabaeidae) in Ethiopia* (Doctoral dissertation, Addis Ababa University School of Graduate Studies).<br>- Woodruff RE (2016) The Asian mango flower beetle, *Protaetia fusca* (Herbst), and *Euphoria sepulcralis* (Fabricius) in Florida and the West Indies (Coleoptera: Scarabaeidae: Cetoniinae). Insecta Mundi, 20: 227–231. |
| **Disclaimer:** The content of this publication is for general information to avocado farmers and technical staff only and no person should act, or fail to act on the basis of the information herein without professional advice from crop health experts affiliated to Kenya Agricultural and Livestock Research Organization (KALRO). | This factsheet was produced by KALRO as part of commercialization of avocado with support of National Agriculture Value Chain Development Project (NAVCDP) |

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**Date last modified: June, 2024**