

New fruit fly identification chart

Attached is a new chart for identification of fruit fly pests in South Africa. The invasive fruit fly- *Bactrocera invadens* (*B. i.*) considered present in Vhembe district, Limpopo Province, and also detected in other isolated areas in Limpopo, Mpumalanga, North-West and KwaZulu-Natal Provinces, is included in this chart. Printed and laminated A4 copies of the chart can be obtained at Citrus Research International. Contact details are provided at the back of the chart.

Aruna Manrakhan & Vaughan Hattingh, CRI
18 November 2013

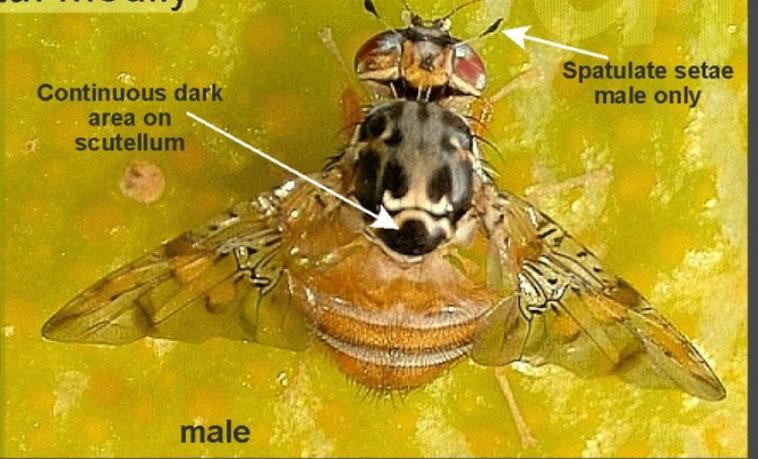
Nuwe vrugtevlieg identifikasie-gids

Aangeheg is 'n nuwe gids vir die identifikasie van vrugtevliegplae in Suid-Afrika. Die indringer vrugtevlieg, *Bactrocera invadens* (*B.i.*), wat as teenwoordig in die Vhembe distrik, Limpopo Provinsie, beskou word, en wat ook al in ander geïsoleerde areas in die Limpopo, Mpumalanga, Noordwes en KwaZulu-Natal Provinsies waargeneem is, is ook in hierdie gids ingesluit. Gedrukte en A4 - gelamineerde kopieë kan van Citrus Research International verkry word. Kontakbesonderhede is op die agterkant van die gidse beskikbaar.

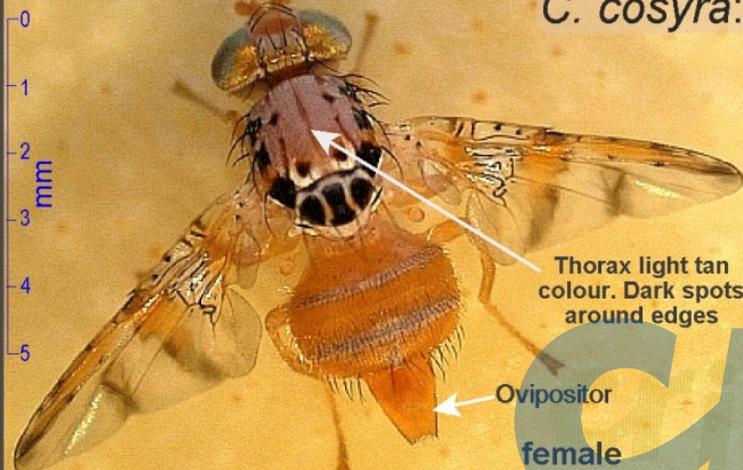
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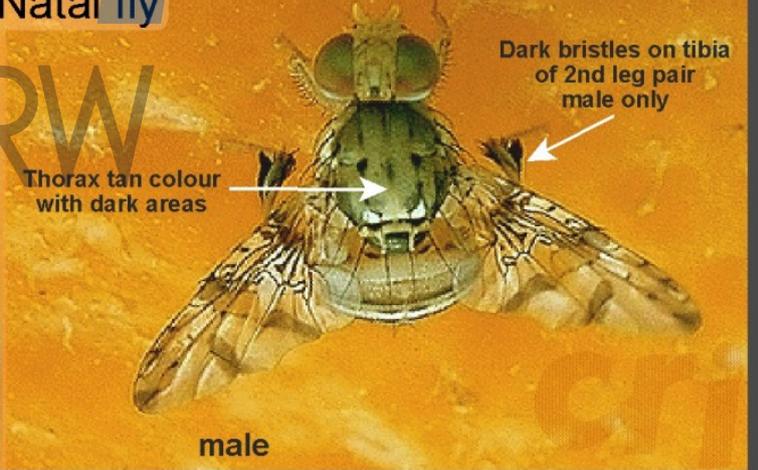
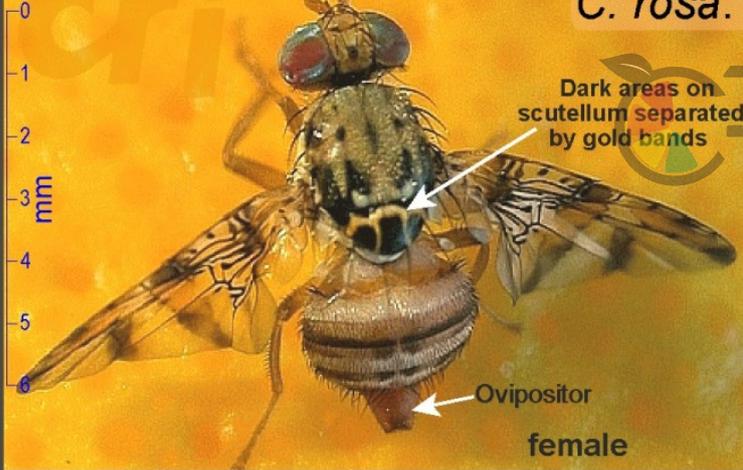
C. capitata: Medfly



C. cosyra: Marula fly



C. rosa: Natal fly



B. invadens: Invader fly



Fruit fly pests

This chart provides key characteristics for identification of fruit fly pests including an invasive fruit fly- *Bactrocera invadens* (*B. i.*) which was recently considered present in specified areas in South Africa.

Ceratitis capitata, Mediterranean fruit fly (Medfly), *Ceratitis rosa*, Natal fruit fly, and *Ceratitis cosyra*, marula fruit fly are endemic pests of commercial fruit. Medfly and Natal fruit fly are widely distributed across South Africa whilst marula fruit fly only occurs in the northern and north-eastern parts of South Africa. Monitoring of endemic fruit fly pests is important for determining efficacy of control measures.

Bactrocera invadens is an invasive pest of Asian origin. The pest was detected in 2003 in Kenya and now occurs in several countries on the African continent and in some Indian Ocean islands. *Bactrocera invadens* was recorded on a wide range of fruit and was found to cause significant damage to commercial fruit crops such as mango and citrus. In 2013, the pest was considered present in the Vhembe district, Limpopo Province, South Africa. *Bactrocera invadens* was also detected in other areas of Limpopo, Mpumalanga, North-West and KwaZulu-Natal Provinces which were placed under quarantine and eradication or suppression. *Bactrocera invadens* should be monitored using methyl eugenol (ME) baited traps. Information from *B. i.* trapping is important for determining efficacy of suppression/eradication actions and for establishment/maintenance of pest free areas.

Monitoring of *B. i.* per Production Unit Code (PUC) is a requirement for phytosanitary registration of commercial citrus, subtropical and deciduous fruit for export to certain markets. Each PUC should have at least one ME baited trap for monitoring of *B. invadens*. ME traps should be serviced every week or fortnight. If a suspect specimen is found in a pest free area or area under eradication, the specimen should be placed in a closed plastic vial. The vial containing the suspect specimen should be labelled as follows: Date of collection, PUC number, trap number and collector. This should be reported immediately to the relevant surveillance co-ordinator or to the Department of Agriculture, Forestry and Fisheries (DAFF).

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Photos by Peter R. Stephen, Citrus Research International

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