TECHNICAL SHEET

Mango fly control technique

Presentation of mango (CNUCED, 2016)

The mango is from the Anacardiacea family. The scientific name of the tree is Mangifera indica. This tree, impressive by its size, can reach 25 m high, with a diameter of 10 m. The mango can be round, oval or kidney-shaped, and has a bark, inedible, which can be yellow, red or sometimes green depending on the variety. In the heart of the mango, there is a large, flat and slippery stone. When ripe, the flesh of the mango is a beautiful orange-yellow. It is generous, juicy, unctuous and sweet with a taste that depends on the variety but often reminds that of peach or apricot.

The mango is a fleshy fruit: its weight varies from 200 g to 2 kg for the biggest fruits.

Mango and the different parts

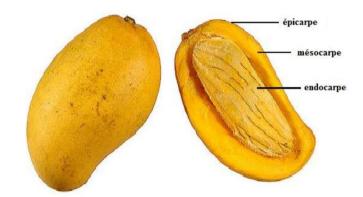


Figure 1: longitudinal section of the mango (source: Kasse, 2015)

The fly

The most damaging fly species to mango are Ceratitis cosyra and Bactrocera invadens.

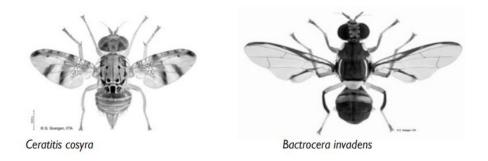


Figure 1: species of flies harmful to mango (source: CTA, 2013)

Example of a fruit fly control technique (CTA, 2013)

"Parapheromone" traps are designed to capture the males of certain species. Traps are currently not only the best tools for detecting flies but, used on a large scale and in large numbers, they can also slow down the development of populations, especially at the beginning of the production season. This technique, called M.A.T. (Male Annihilation Technique), consists in placing at the beginning of the season a device, impregnated with a specific attractant and a contact insecticide (generally malathion or deltamethrin). The traps should be in place in the orchard two months before the fruit attractiveness period. It is also advisable to place these traps in orchards with other fruit species attractive to flies (citrus) and in areas known to be a refuge in the dry season. Generally, at least 10 devices per hectare are fixed to the branches of the trees. But the exact density depends on the type of device and is to be defined according to agro-climatic, agro-ecological and economic criteria.

Characteristics of the technology

- Increase in production of more than 2t/ha.
- Impact in the medium term estimated at a gain of 57.2 billion CFA francs for producers and 10 billion CFA francs for exporters.

Bibliographic references

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Web sites consulted

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