**Pest Name:** Mango seed weevil *Sternochetus mangiferae* (F)

<table>
<thead>
<tr>
<th>Pl 1: Adult weevil</th>
<th>Pl 2: MSW larvae</th>
<th>Pl 3: MSV pupa</th>
<th>Pl 4: A flowering mango</th>
</tr>
</thead>
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<tr>
<th>Pl 5: A mango tree fruiting</th>
<th>Pl 6: MSV frass</th>
<th>Pl 7: Control by burning</th>
<th>Pl 8: Control by banding</th>
</tr>
</thead>
</table>

**Pest name**  
Mango seed weevil *Sternochetus mangiferae* (F)

**Description**  
Mango seed weevil Plate 1) is one of the over 200 species of insects that have been reported damaging mango trees. It is a serious and specific pest of mango in all the mango growing areas of Kenya. It causes significant damage to the mango pulp, contaminating the edible portion and damaging the seeds. A female weevil often lays about 15 eggs per day, with a maximum of 300 over a period of three months that hatch in 5 – 7 days into larvae (Plate 2) that burrow through the mango flesh to the soft developing seed where they pupate (Plate 3).

**Pest Category**  
This is strictly a monophagous pest that causes damage to the mango seed (stone).
<table>
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<tr>
<th>Symptoms</th>
<th>Internally, the infected fruits rot from the outer surface of the stones. The stones also show holes and cotyledons turn black and show rotten symptoms (Plate 5). Normally one or two weevils are found in one seed making extensive feeding tunnels and depositing copious amounts of frass (Plate 6). Affected seeds do not germinate. Infestation of the pest especially in the export market produce results in interceptions and destruction, as the pest is regarded as a strictly quarantine.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prevalent conditions that contribute to success</td>
<td>Infestation levels vary among different orchards and from one region to another, being more severe in the warmer mango growing regions. The</td>
</tr>
</tbody>
</table>
| Control Strategy | 1. **Cultural practices**: Collect all fallen fruits/seeds and destroy by burning (Plate 7). Usually it is recommended that fruit growers should emphasize on orchard hygiene that involves collecting all fallen fruits and seeds up to the end of harvesting period. Such seeds should also be destroyed through dissections especially to ensure they are weevils-free before sowing.  
2. **Chemical control**: Band paint mango trunks with approved registered pesticide products e.g. Dursban 4E, and Fenthion. Other banding materials include Grease, Tanglefoot, and tangletrap applied at a 15cm band around the tree trunk at a 30cm height from the ground (Plate 8). |
| Mode of spread | 1. **Walking**: The pest is a poor flier and only infests farms through short distance flight and mostly by walking from refuge and close by bushes moving into trees at the fruiting season. Poorly kept farms with low level sanitation are the most affected/prone/susceptible?.  
2. **Fruits**: The movement of mango harvests in different parts of the country and across the borders mostly through trade remains a major source of infection and pest spread. The pest may move in the produce as eggs, caterpillars or as adults. |
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Date last modified: 19th June 2014