**Red spider mite on papaya**  
*Tetranychus urticae, T. evansi*

<table>
<thead>
<tr>
<th>Prevention</th>
<th>Monitoring</th>
<th>Direct Control</th>
<th>Direct Control</th>
<th>Restrictions</th>
</tr>
</thead>
</table>
| - Improve soil water holding capacity by applying mulch and organic manure at the rate of 1 debe (18kg) per hole  
- Practice good field sanitation e.g. remove and burn infested crop residues immediately after harvest, keep fields weed free  
- Use of mechanical barriers e.g. *Lantana camara* hedge rows  
- Establish nurseries away from infested crops and avoid planting next to infested fields | - Scout weekly to check for the red spider mites infestations  
- Look on the underside of affected leaves for mites (tiny moving specks that are red or yellow-greenish) and whitish particles (shed skins of mites)  
- Tap leaf on white paper to see the mites  
- Monitor for cluster of yellow spots on leaves which appear chlorotic  
- When a few yellow spots and a few spider mites (5-7) are seen on three leaves per plant consider direct control | - Remove and burn all infected plants parts  
- Irrigate the crop regularly to reduce heavy mite infestation  
- Use neem (azadirachtin) at 20-50ml in 20 litres of water 3-4 times per season  
- Use *Phytoseiulus persimilis* (Phytotech packaging. 2000 mites/400mls carrier material. Application is 1 million mites/ha i.e. 500 bottles/ha or 100 dudus/M²)  
- Use *Amblyseius californicus* (Amblytech) 2000 mites/400mls carrier material. Application -75000- 150000 dudus/ha or 7.5-15 mites/M² | - When using pesticides, read and follow instructions on the label. Alternate active ingredients to prevent development of resistance. Wear protective clothing. Spray early morning or late evening to avoid harming bees. Avoid aquatic contamination  
- Dust with sulphur- Don’t use sulfur if temperatures exceed 32°C, and don’t apply sulfur within 30 days of an oil spray.  
- *Ambex* at a rate of 10ml in 20 litres of water or 0.5 litres per hectare e.g. (Dynamec 1.8 EC, IRAC 6)  
- Malathion at a rate of 40-50ml in 20 litres of water. Non-systemic pesticide with contact, stomach and respiratory action. Organophosphate, IRAC 1B  
- Amitraz 200g/l e.g. Mitac 20 EC at the rate of 40-60mls per 20lt, 2-3 lts/ha. IRAC19  
- Permethrin. Non-systemic pesticide with contact, stomach action as well as a slight repellent effect. Pyrethroid, IRAC 3A | - WHO Class III (Slightly hazardous)  
- Not classified by the WHO. PHI 3 days  
- WHO Class III. PHI 7 days. Use a maximum of 3 sprays per season  
- WHO class II (Moderately hazardous). PHI 14 days  
- WHO Class II (Moderately hazardous). PHI 7 days |

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**Kenya**  
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