

# Green scales on coffee

*Coccus alpinus/C. viridis*

	Prevention	Monitoring	Direct Control	Direct Control	Restrictions
 <p>Bright green insects with a brown or blackish, irregular, U-shaped figure ( <b>Photo by:</b> United States National Collection of Scale Insects Photographs Archive, USDA ARS, Bugwood.org)</p>  <p>.Brown scales on a coffee stem.(Image by: <a href="http://malumnalu.blogspot.com">malumnalu.blogspot.com</a>)</p>	<ul style="list-style-type: none"> <li>◆ Prune and remove old branches and leaves so as to enhance aeration</li> <li>◆ Avoid planting host plants such as avocados, guavas, pineapples, citrus, etc.as wind breaks</li> <li>◆ Improve shade by sparsely planting shade crops such as <i>Graveillia</i> spp., <i>Leucena</i> spp., or <i>Macadamia</i> spp. to encourage natural enemies.</li> </ul>	<ul style="list-style-type: none"> <li>◆ Scout immediately after transplanting and later, on a weekly basis</li> <li>◆ Inspect for presence of shiny pale-green insects on the green wood and leaves (underside) especially along main leaf vein and near tips of green shoots</li> <li>◆ Institute control measures when 10 or more leaves are infested with one or more scales</li> </ul>	<ul style="list-style-type: none"> <li>◆ Spray with mineral oils at 200 mls per 20 lts of water</li> <li>◆ Spray with soapy solution (potassium soaps). (Add 10-15 tablespoons full of liquid soap in 20 lt bucket of water and spray)</li> <li>◆ Introduce natural enemies such as. <i>Cryptolaemus montrouzieri</i>, <i>Verticillium lecanii</i> to reduce population of scales in the ecosystem.</li> </ul>	<ul style="list-style-type: none"> <li>◆ Apply with a brush at the base of the stem (1 foot from the base) a 15 cm wide band of a deltamethrin based product such as Decis 2.5 EC, Atom 2.5EC etc at the rate of 10-15mls/20L of water mixed with 15gms of Methylene blue which acts as a marker</li> <li>◆ Mode of action: pyrethroid with contact and residual activity</li> <li>◆ Alternatively use Chlorpyrifos based products such as Dusbarn 4EC at 50-100ml/20L of water, Bullet 48EC at 40mls/20L of water etc. Add 15g Methylene blue as a marker</li> <li>◆ Mode of action: Organophosphate</li> <li>◆ Wear protective clothing when handling chemicals</li> <li>◆ Follow instruction on the product label such as dosage, pre-harvest interval and appropriate time of application</li> <li>◆ Spray only on the affected plants</li> <li>◆ Always consult recent list of registered pesticides (PCPB)</li> </ul>	<ul style="list-style-type: none"> <li>◆ WHO II (moderately hazardous)</li> <li>◆ PHI 3 days</li> <li>◆ Toxic to aquatic organisms</li> <li>◆ High risk to bees</li> <li>◆ WHO II (moderately hazardous)</li> <li>◆ Toxic to aquatic organisms , bees and livestock</li> <li>◆ PHI 14 days</li> <li>◆ Dangerous to some beneficial insects</li> </ul>



Kenya

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