

# Managing Bacterial Wilt in tomato

*Ralstonia solanacearum* Bangla name: Dholepora Rog of Tomato



Bacterial wilt in tomato (Photo: Eric Boa)



Oozing from cut face of stem of infected plant (Photo: Eric Boa)

Prevention	Monitoring	Direct Control	Direct Control	Restrictions
<ul style="list-style-type: none"> <li>• Try to select fields with no history of bacterial wilt.</li> <li>• Maintain good drainage.</li> <li>• Remove volunteer host plants and solanaceous weeds like <i>Solanum nigrum</i>.</li> <li>• Crop rotation with non-solanaceous crops, e.g. peas, cowpea, cauliflower, rice, maize, beans etc.</li> <li>• Grow seedlings in solarised soil, virgin soil or peat moss.</li> <li>• Grow crops in ridge and furrow system.</li> <li>• Avoid root injury during intercultural operations.</li> <li>• Use seedlings grafted onto wilt resistant wild eggplant (<i>Solanum sisymbriifolium</i>).</li> <li>• Apply trico-compost or manure (3-5 ton/ha)</li> <li>• Avoid flood irrigation.</li> <li>• Apply stable bleaching powder @ 20-25kg/ha 7 days before transplanting seedlings.</li> </ul>	<ul style="list-style-type: none"> <li>• Monitor crop daily for sudden wilting of plants in the field.</li> <li>• Check for vascular discoloration in basal stem of wilted plants. Split the stem at the bottom of the plant and look for brown staining inside.</li> <li>• Perform streaming test by putting the lower part of a cut stem in still water in a clear bottle and carefully looking for milky strands of bacterial ooze streaming from the cut surface.</li> <li>• Take action as soon as you have observed a single wilted plant.</li> </ul>	<ul style="list-style-type: none"> <li>• Uproot and bury infected plants (at least 30 cm deep) outside the field or burn immediately after identification.</li> <li>• Drain field as quickly as possible after rains.</li> <li>• Reduce irrigation frequency.</li> <li>• Isolate the diseased area by making furrows to reduce the spread of bacteria to non-infested parts of the field.</li> </ul>	<ul style="list-style-type: none"> <li>• No effective control measures</li> </ul>	



## Bangladesh

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