

Bacterial wilt in Eggplant

Ralstonia solanacearum



Wilted Eggplant affected by bacterial wilt (Photo: Dr. Wayne Nishijima, CTAHR)



Effects of bacterial wilt on eggplant (Scot Nelson, CC BY NC-SA)

Prevention	Monitoring	Direct Control	Direct Control	Restrictions
<ul style="list-style-type: none"> • Avoid injuring the plant while weeding. • Weed frequently to remove alternate host to disease. • Practise crop rotation with legumes, maize, onions and cabbage. • Plant in well drained soils and avoid over watering plants. • Keep the nursery weed free. • Use limestone to increase soil pH to 6-7. • Control nematodes that may injure plant roots. • Avoid injuring roots during field operations. • Use clean/ disinfected farm tools during field operations to prevent spread of disease. • Use organic manure to suppress bacterial wilt pathogen. 	<ul style="list-style-type: none"> • Daily look for sudden wilting and death of the entire plants without any yellowing or spotting of leaves. • Look out for dropping of vegetative parts of the entire plant. Infected plants are still green but have lost turbidity even after watering. • Take action when one plant is infected. 	<ul style="list-style-type: none"> • Prune affected plant parts and destroy them by burning. • Sterilize working tools with jik at a concentration of 500ml in 10lts of water Remove and destroy by burning affected plants. • Solarise soil using transparent plastic paper for 8 weeks to destroy the bacterial inoculum in the soil. 	<ul style="list-style-type: none"> • When using a pesticide, always wear protective clothing. Follow the instructions on the product label, such as dosage, timing of application, pre-harvest interval, max number of sprays, restricted re-entry interval. Do not empty into drains. • WHO class II pesticides might not be allowed in local IPM schemes. • Use pre-plant soil disinfectant Metam Sodium 51 liquid soluble (510g/L) Rate of use @ 240-360 L/Acre • Spray with copper oxychloride based products (isacop 50 WP at a rate of 50-60g/ 20L water, Captan 80WP at 2kg/1000litres) 	<ul style="list-style-type: none"> • WHO toxicity class II (moderately hazardous). Re-entry period is 48 hours under field conditions and 7 days in green house. • WHO toxicity class III (slightly hazardous); Don't contaminate the environment.



Kenya

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