PRIKTAI · HR-SOIL · MADE IN THAILAND

Water pooling at the trunk? Root & collar rot risk

Root and collar rot thrives in wet, poorly drained soil. See which layers stay soaked and act in time.

🍂 Root & collar rot

(*Phytophthora palmivora*)

Thailand's Department of Agriculture lists it as a major durian disease that is hard to eliminate.

Symptoms

- Pale, dull leaves at branch tips
- Wilting, drooping leaves
- Tree decline
- Trees may die standing

💧 Water and disease

- Rot attacks the **fine feeder roots near the surface**, under the canopy (DOA)
- **Waterlogging, heavy rain and poor drainage** favour root and collar rot (DOA, ACIAR)
- Infected water can **splash** onto the tree (rain splash)
- In Chumphon orchards, the main problem is root rot from *Phytophthora* and *Pythium*

The HR-Soil 8-layer probe shows **which layers stay soaked** after rain or irrigation.

⚠️ To be clear

The probe **does not detect, prevent or cure disease**. It shows soil conditions that favour disease, so you can fix irrigation and drainage. For disease problems, consult your agricultural extension officer or a plant pathologist as usual.

🔧 Installing in a durian orchard

1. Install the 8-layer probe **under the canopy**, near the drip line or mini-sprinkler. No need to put it right against the trunk.
2. Set a 1–1.5 inch steel pole and mount the Gateway box and 6 W solar panel on top.
3. One Gateway takes **up to 8 probes** through a splitter box, so you can cover several spots, e.g. low and high ground.
4. **Live readings on your phone, even without internet.** Data logs to a 32 GB SD card every minute.



Sources: Thai Department of Agriculture, durian root/collar rot leaflet · ACIAR / QLD DAF (Phytophthora diseases of durian) · IJAT (Chumphon durian orchards)

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