PRIKTAI · HR-SOIL · MADE IN THAILAND

Check the reading, know if it's time to water

Read the 8-layer HR-Soil graph, then adjust irrigation and drainage in your durian orchard.

👀 What the data shows	💡 What it means	✅ What to do
🌧️ **30–60 cm still saturated several days after rain**	Poor drainage. Soil like this favours root & collar rot	Check ditches and drainage. Hold off extra water
💦 **Sprinkler on, and 70–100 cm gets wet every time**	Water is passing below the root zone	Shorten run time or water less often
☀️ **0–50 cm stays dry through a dry spell**	Feeder roots are short of water	Irrigate before the trees get stressed
🍈 **Flesh-filling stage, top layers drying out**	Water shortage = risk of "tao phao" flesh burn	Water evenly, as recommended
🌦️ **Fruit maturing and moisture spikes after rain**	Risk of wet core	Drain, mulch, cut back water before harvest
⚡ **EC rising at several depths together**	Salt or fertiliser build-up (e.g. saltwater intrusion)	Send water and soil for standard lab testing

🌱 Thai Department of Agriculture, Durian Production manual

- **Withhold water for at least 10 days** to induce flowering

→ **HR-Soil shows whether the root-zone soil is really dry**

- 1 week before bloom: water at **one third** of normal
- Irrigate when rain stops for more than 7 days (new leaf flush after harvest)
- Fruit at 4 weeks: **70%** of normal · at 10–11 weeks: **85%**
- In high-rainfall areas, plant on raised mounds for drainage

📊 Research example, Monthong in Chanthaburi: stress began below **0.19 m³/m³** soil moisture. Depends on that plot's soil: **an example, not a universal threshold**.

Sources: Thai Dept. of Agriculture, Durian Production manual and root/collar rot leaflet · ACIAR / QLD DPI · Kasetsart J. (Monthong) · HortScience 1996 (wet core) · QYield, Technology Chaoban (tao phao) · The table is our guidance summarised from these sources.

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