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PROGRAM PEMINDAHAN TEKNOLOGI SAWIT MPOB

FUNGICIDE APPLICATION FOR THE CONTROL OF Ganoderma UPPER STEM ROT (USR) DISEASE IN OIL PALM

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Upper stem rot (USR)-infected palms: Formation of fruiting body and stem rotting appearing at 1-metre from ground.

APPLICATION PROCEDURE

HIGHLIGHTS Registered Hexaconazole **Systemic** (Fungicide) Leave no residue

IMPACT

- Effective and efficient curative treatment
- Extend productive life span
- Reduce risk of Ganoderma spread to adjacent oil palms
- Increase yield











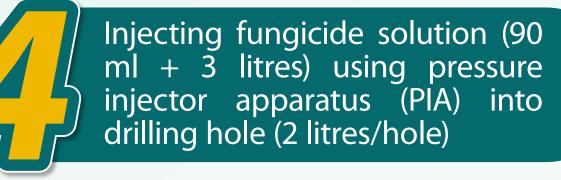




Removal of the old frond and fruiting bodies at the USR-infected trunk/stem using chisel/chainsaw



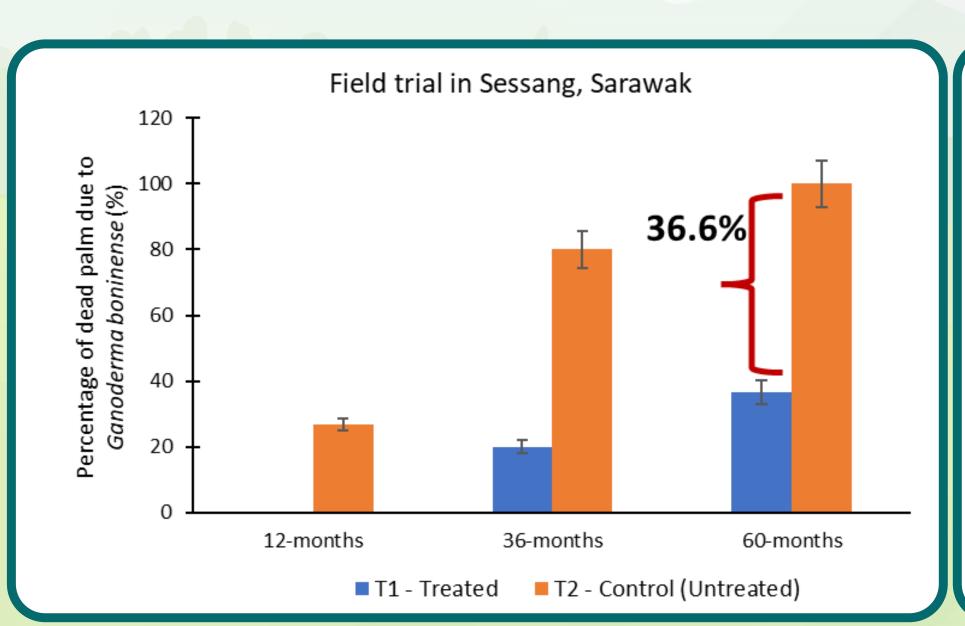
Drilling of one hole into the trunk at 1 m height from ground level using motorised engine drill attached with a drill bit (45 cm long, 11 mm diameter)

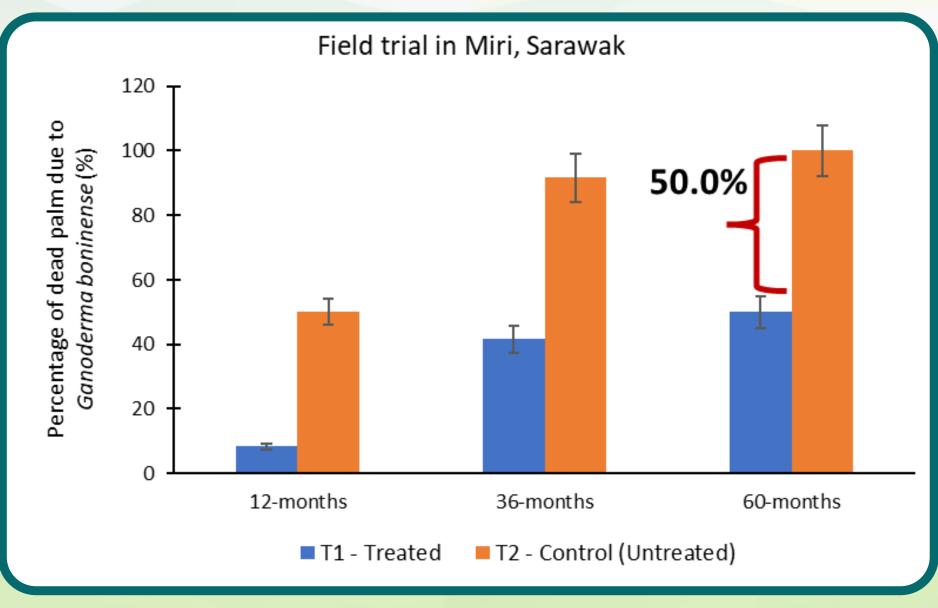


Spraying the remaining 1 litre solution onto the USR-infected trunk tissues

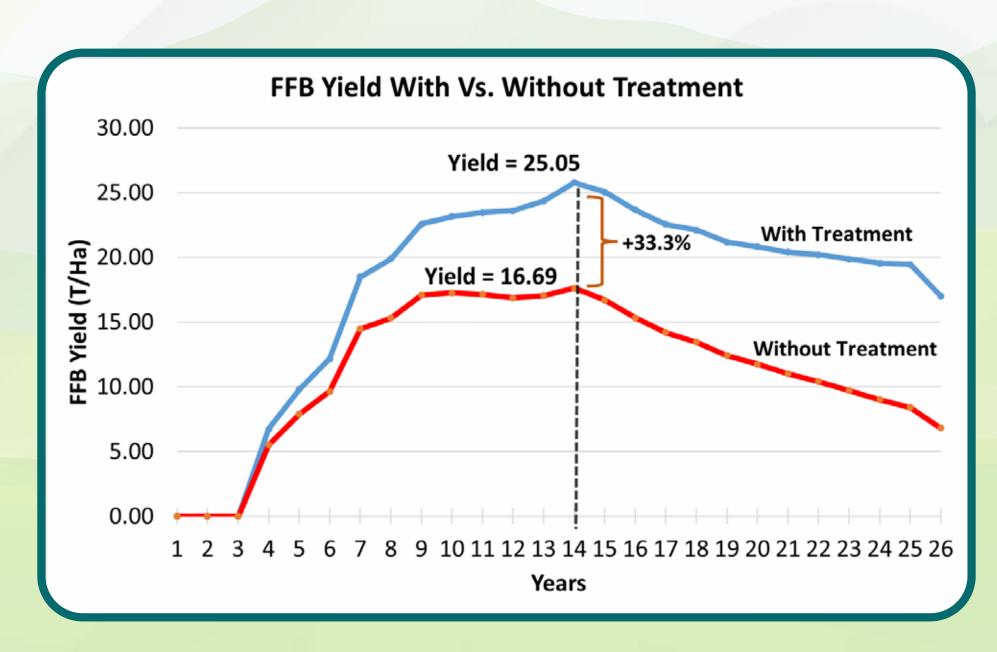
PRODUCTIVITY POTENTIALS

- Estimated cost of hexaconazole application is RM50 to RM70 per palm.
- The average fresh fruit bunch (FFB) yield of palms treated with treatment is relatively more than untreated, projected increase in productivity > 33% at 14 years after planting.





The percentage of dead palms was found to be the significantly lowest in USR-infected palms treated with hexaconazole in both study sites, Sessang and Miri at 36.6% and 50.0% of dead palms, 60 months after treatment.



Average yield of fresh fruit bunch (FFB) of upper stem rot (USR)-infected palms with and without hexaconazole (fungicide) treatment.









