

// DDT PERSISTENCE

IN

A TROPICAL CLIMATE //

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A thesis submitted in partial fulfilment for
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DECLARATION

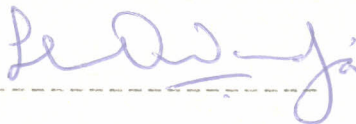
This thesis is my original work and has not been presented for a degree in any other University.



H.C.B. Natwaluma

CANDIDATE

This thesis has been submitted for examination with my approval as University Supervisor.



Prof. S.O. Wandiga

SUPERVISOR

(ii) SUMMARY

The persistence of DDT in a tropical climate was investigated chromatographically by following the concentration of DDT applied to soil and DDT solutions exposed to sunlight. The half-life values obtained were 117 ± 10 days for surface-deposited and 118 ± 23 days for soil-incorporated DDT; 92 ± 12 days for a DDT solution sealed without deaerating and 69 ± 11 days for a deaerated solution of DDT. Degradation products DDE and 4-PCB were identified in the soil experiments. Several other chromatographic peaks in both experiments were not identified.