

STUDY FLOWERING AND FRUITING OF  
*Melaleuca cajuputi* subsp. *cajuputi* Powell  
IN SEEDLING SEED ORCHARD (SSO) PALIYAN, GUNUNG KIDUL

By:

Rini Umiyati

ABSTRACT

A few information on flowering and fruiting of *Melaleuca cajuputi* subsp. *cajuputi* has become a constrain in solving some problem of seed production and the low quality of seed. Observation on flowering and fruiting were carried out since February until July 2002 in Paliyan Seedling Seed Orchard (SSO), Gunung Kidul.

The study was conducted to observe the flowering and fruiting potency, flower development and reproduction success natural pollination from 5 provenance of *M. cajuputi* subsp. *cajuputi*, that are: Buru Island, Seram Island, Ambon Island, Western Australia and Nothern Australia.

The result showed that there weren't variation on the flowering and fruiting potency between 5 provenance, that most provenance contributed the flower in February until March and fruit in April until May. *M. cajuputi* subsp. *cajuputi* spent 277 days to develop the reproductive organs, from the floral initiation to the ripening of fruit and seed dispersal. Reproduction Success value from the natural pollination is 3,59 %, there weren't variation between 5 provenance.

Keywords: *M. cajuputi* subsp. *cajuputi*, flowering, fruiting, provenance, reproduction success natural pollination