

Biomass and firewood production *Leucaen leucocephala* De Wit

at Sakaerat, Pak Thongchai, Nakhonratchasima.

SARAYUDH BUNYAVEJCHEWIN.

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ABSTRACT

Height and dbh growth, above-ground biomass and charcoal production were estimated in sample plots of *Leucaena leucocephala* de Wit with increasing in age from 1 to 4 years and planted at spacing of 1 X 0.5, 1 X 1, 2 X 2 m. This study was carried out at Re-afforestation Research and Training Center, Sakaerat, Nakhon Ratchasima Province in August 1984.

The highest height growth was occurred at a spacing of 1 X 1 m. at age 1 and 2 (1.4 and 2.5 m.) while a spacing of 2 X 2 reached the highest height at age 3 and 4 (5.1 and 7.3) . The highest dbh growth increased from 1.0 cm. at age 1 to 4.9 cm. at age 4 at spacing of 2 X 2 m.

Above-ground dry matter at a spacing of 1 X 1 m. was maximum at age 4 (68.8 t/ha)

Firewood production was maximum at a spacing of 1 X 0.5 m. at age 3 (110 m.³/ha) , at age 4 the production from a spacing of 1 X 1 m. was the highest (214 m.³/ha).