
Oral sessions | Field Crop Production | O13: Current Issues on Tropical Crops

[O13] Current Issues on Tropical Crops

*Sponsored by the Japanese Society for Tropical Agriculture / The Society of Sago Palm Studies

Chair: Hiroshi Ehara (Nagoya University, Japan)

Chair: Hitoshi Naito (Kurashiki University of Science and The Arts, Japan)

Chair: Rosa Rolle (Food and Agriculture Organization of the United Nations, Italy)

2021年9月9日(木) 17:00 ~ 19:00 Room 1 (Oral) (Field Crop Production)

17:20 ~ 17:40

[O13-02] Growth Responses of Manno Sago Seed to Organic and NPK Fertilizers Application

(Invited Speaker)

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Abstract

Seeds of Manno type sago (*Metroxylon sago* Rottb.) originated from Sentani, Jaya Pura Regency, Province of Papua, were cultivated in nursery for 9 months and then transplanted at intervals of 7 m x 7 m in Halu Oleo University's Farm in July 2012 under Collaboration: Ministry of Agriculture, Forest and Fisheries of Japan, Kochi University and Halu Oleo University. Multi-organic fertilizer (MOF) at the rate of 0, 20 and 40 kg/clump was mixed with 0 or 1 kg/clump NPK fertilizer. This mixed fertilizer was applied in a circle into 15 cm depth at 100 cm from sago clump, respectively five years after planting. Application of 1 kg NPK/clump showed quickly responses on the plant high, chlorophyll content (SPAD), leaflet number and dry matter weight. The influence of MOF was observed after 6 to 12 months later on the growth and dry matter weight of leaflet. These results concluded that Manno type sago risen from seed grew perfectly in a new agro-climate, and 82 % of clumps produced an over 50cm long trunk in 6 years.