
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)

Thu. Sep 9, 2021 5:00 PM - 7:00 PM Room 1 (Oral) (Field Crop Production)

5:20 PM - 5:40 PM

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

(Invited Speaker)

○Yulius Barra Pasolon¹, Marselinus Sulu², Asniwati Asniwati³, Muhidin Muhidin⁴, Hitoshi Naito⁵, Hiroshi Ehara⁶ (1.Department of Soil Science, Faculty of Agriculture, Halu Oleo University, Indonesia, 2.International Office, Halu Oleo University, Indonesia, 3.Post Graduate Program, Halu Oleo University, Indonesia, 4.Department of Agronomy, Faculty of Agriculture, Halu Oleo University, Indonesia, 5.College of Life Science, Kurashiki University of Science and The Arts, Japan, 6.International Center for Research and Education in Agriculture, Nagoya University, Japan)

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.