



QUARTERLY RESEARCH PROGRESS REPORT

1ST QUARTER: January – March 2023

Project Title: "Characteristics, mineral stresses and management of acid soils for sustainable crop production"

Component 3 Study Title: "Effects of different soil management strategies on crop performance of sweetpotato in acid soils"

I. Component 3 Study Objective:

- a. To evaluate the growth and yield performance of sweetpotato to liming application in acidic soil.

II. Relevance to VSU & College's Thrust and Priorities:

- The project is deemed relevant in addressing food security. In the Philippines, there are no current research initiatives on acid soils as the last major research on this problem soil was carried out by the group of Prof. Henry Samonte of UPLB in the 1980s. It is also in line with VSU's goals of sustained excellence in instruction, an innovative RDE system, and competitive S&T products.

III. Highlights of accomplishments within the quarter

A. Targets for the quarter

1) Consolidation of data collected.

- Data gathering of vine length, number of primary lateral vines, no. of leaves, leaf area, fresh and dry herbage, fresh and dry weight of roots, root length, storage root length and diameter, the weight of marketable and non-marketable roots, and root yield.
- Consolidating, encoding, and statistical analysis of the agronomic data gathered.
- Harvesting of sweetpotato plants at 120 days after planting.
- Collection of soil samples from the experimental pots for the analysis of some common soil properties such as soil pH, OM (%), total N (%), available P (mg/kg), exchangeable acidity and aluminum (cmolc/kg).
- Prepared the collected soil samples prior to soil analysis.