

**Title of Article:** Studies on the Occurrence and Distribution of Plant-Parasitic Nematodes in Some Pineapple-Producing States in Nigeria.

**Authors:** Daramola, F. Y.; Afolami, S. O.; Idowu, A. A. and Nwanguma, E. I.

**Outlet:** Asian Journal of Crop Science; Vol. 5 Issue 2, p190

**Date:** 2013

### **Abstract**

Nematode pests of pineapple have not been widely studied in Nigeria compared to other countries. This study investigated the geographical distribution of nematodes associated with pineapple in three pineapple-producing states in Nigeria. A total of 78 farms were sampled from Oyo, Ogun and Osun States using the Agricultural Development Project in each state as a pilot to locate representative farmlands in the States. The modified Baermann Extraction Tray method of Whitehead and Hemming was used for the extraction of vermiform nematodes from soil. Eighteen species of plant-parasitic nematodes (PPN) were found associated with pineapple from the fields surveyed as follows: *Meloidogyne incognita*, *Rotylenchulus reniformis*, *Pratylenchus brachyurus*, *Tylenchus* sp., *Helicotylenchus dihystra*, *Scutellonema brachyurum*, *Hoplolaimus pararobustus*, *Criconemoides limitaneum*, *Paratylenchus minutus*, *Gracilaria* sp., *Hemicriconemoides* sp., *Hemicycliophora* sp., *Aphelenchus* sp., *Aphelenchoides* sp., *Tylenchorhynchus* sp., *Paratrophurus* sp., *Dolichoderus* sp. and *Xiphinema nigeriense*. The most prominent plant-parasitic nematodes found in association with pineapple on all the fields were *P. brachyurus*, *H. dihystra*, *S. brachyurum*, *R. reniformis* and *M. incognita* occurring at frequency ratings of 88, 80, 71, 56 and 44%, respectively. The study indicated a widespread distribution of plant-parasitic nematodes of pineapple in Southwestern Nigeria.