Okra – Nigeria – NIHORT – 2024

Overview

- Researcher: Olatunde Oluwseun Joseph Ayotunde
- Institute: National Horticultural Research Institute Ibadan – NIHORT
- Goal of Trial: To test and measure the effects of Kyminasi® Crop Booster™ (KCB) technology on cultivating okra in Nigeria
- Report Date: Oct. 6, 2025

Time

- Okra was sown on June 25, 2024
- Termination Date: last measurements taken on July 23, 2024.

Location

- Place: National Horticultural Research Institute, Jericho Reservation Area, Idi-Ishin, Ibadan
- Country: Nigeria
- Coordinates: 7°24'18.8568"N, 3°50'59.9172"E
- Elevation: 633 ft (193 m)
- Treated Area: The total land area used was 73m × 152m.
- Each plot was 12m × 5m, with a 0.6m × 0.6m spacing.
- The diagram provided on the next page describes the complete field layout.

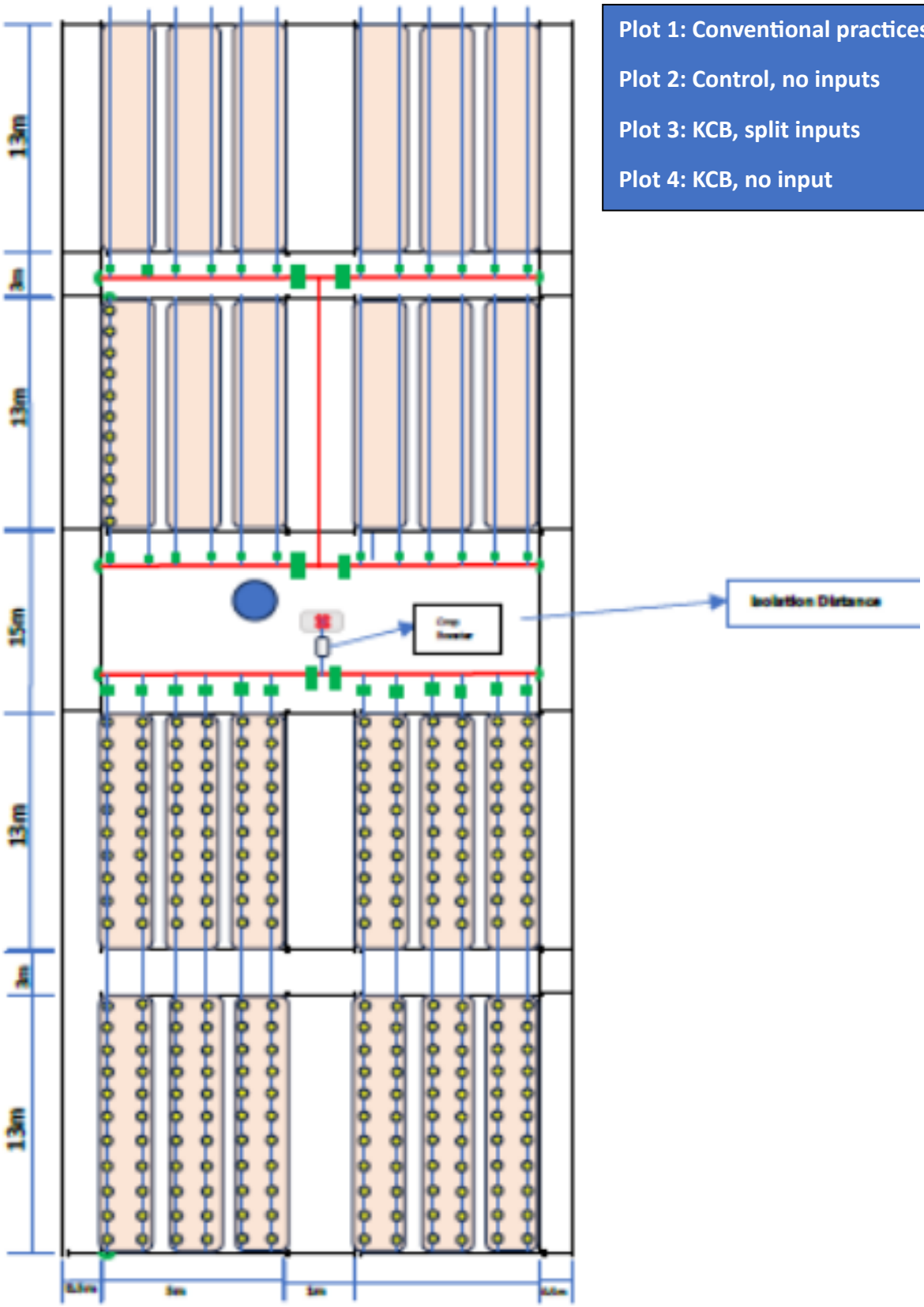
Species

- Crop: okra

Irrigation

- Type: drip irrigation
- Schedule: The okra field was watered twice a week using 547.4 mm

Field Layout


Plot 1: Conventional practices
Plot 2: Control, no inputs
Plot 3: KCB, split inputs
Plot 4: KCB, no input
13m
3m
13m
15m
13m
3m
13m
Isolation Distance

Trial Details

- Insecticide and Fertilizer Application: see page 2 of the Agronomic Report below.

- Observation: The okra plants suffered extensive crop loss from insecticide injury in two experimental plots, enforcing the okra part of the experiment to be discontinued.

- The active ingredient of the insecticide was Cypermethrin which is a synthetic pyrethroid insecticide that works by affecting the nervous system of insects, causing muscle spasms, paralysis, and eventually death. While relatively low in toxicity to most mammals (it's highly toxic to cats), it is highly toxic to fish, aquatic invertebrates, and bees. Since cypermethrin is a broad-spectrum insecticide, it kills beneficial insects as well as the targeted insects. Human exposure can lead to tremors, salivation. numbness, tingling, itching, burning sensation, nausea, headache, muscle weakness, salivation, shortness of breath, loss of bladder control, incoordination, seizures and possible death.

Attachments

- HARVEST HARMONICS TRIAL 2024 REPORT, Agronomic Report

  DEFINITION

  - WAT: Weeks After Transplanting