

Nutrient uptake and economics of maize based intercropping systems under paired row planting

R L M K Venu Gopala, P Munirathnam, T Kiran Kumar, K M Dakshina Murthy, Y Sudha Rani and M Sheshu Madhav

Department of Agronomy, Acharya N G Ranga Agricultural University,
Agricultural College, Bapatla - 522101, Andhra Pradesh, India

ABSTRACT

A field experiment was conducted on clay soils of ICAR-NIRCA, Katheru, Rajamahendravaram, during *rabi*, 2024-25 to assess the suitability of these intercrops with maize under paired row planting. The experiment consisted of ten treatments replicated thrice in a Randomised Block Design (RBD), which included maize as main crop and radish, carrot and bhendi as intercrops in different row proportions with maize. The results of the experiment indicated that higher returns and BC ratio can be obtained by intercropping carrot with maize under 2:2 ratio on par with maize + radish (2:2) system and maize + bhendi (2:2) system. The findings conclude that maize + vegetable intercropping under paired row planting is profitable compared to sole maize or sole vegetable cultivation alone.

Keywords: *Intercropping, Maize and Paired row planting*