International Institute of

Godfrey Taulya

lanting layouts: a) square, b) to c) single row, and d) paired Tropical Agriculture (IITA)

Spacing and Stand Management in Banana and Plantain

Optimized Spacing, Maximum Yield

This technology optimizes banana and plantain plant spacing to boost yield, considering factors like plant variety, climate, and soil fertility. It uses various planting systems and may require herbicide use and stem base "earthing-up" in windy areas.

windy areas.		Technology from
✓ This technology is TAAT1 validated.	Scaling readiness: idea maturity 8/9; level of use 9/9	ProPAS
Gender assessment	Climate impact	Commodities Banana/Plantain
 Problem High plant densities cause uneven growth, delayed maturity, and increased labor. Low densities lead to weed competition and yield variability. Unmanaged stands accumulate pests and diseases. Insufficient wind protection damages plants. 	 Solution Proper spacing promotes uniform growth, reduces labor, and optimizes yield. Adequate spacing minimizes resource competition and maximizes sunlight exposure. Square block planting provides wind protection. Spacing aids in weed management and pest/disease control. 	Sustainable Development Goals
Key points to design your project The Spacing and Stand Management technology in Banana and Plantain farming boosts yield and mitigates climate impact, aiding both small-scale and large-scale producers. It contributes to SDGs 2 (Zero Hunger) and 13 (Climate Action) by maximizing yield and improving resource efficiency.		Tested & adopted Adopted Tested & adopted Tested onoina

- Engaging stakeholders
- Training farmers
- Setting up demonstration plots
- Providing support services
- Conducting regular monitoring and evaluation

The cost of training varies based on several factors. It's advisable to reach out to the technology provider or a local agricultural extension service for detailed information.

100 t/ha/year

Dwarf Cavendish planted at 2500 to 4400 plants per ha



Open source / open access



Where it can be used

agro-ecological zones.

This technology can be used in the colored



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