

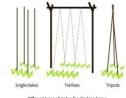


Low-Cost Staking for Climbing Beans

Empowering Beans, Sustaining Growth!

This technology is **TAAT1** validated.

The Low-Cost Staking practice provides affordable solutions for supporting climbing bean cultivation, aiming to reduce reliance on wooden stakes and mitigate deforestation caused by their overharvesting.





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Technology from

ProPAS

Commodities

Common bean

Sustainable Development Goals











- Farmers face expense issues with plant support, leading to yield losses.
- Shortage of wooden stakes affects plant density and yield.
- · Overharvesting of stakes harms forests and afforestation efforts.
- Knowledge of optimal density and stake length varies with method.

Solution

Climate impact

8.8

- Offers farmer-acceptable, lower-cost staking innovations.
- · Utilizes tripod arrangements and string trellises to reduce wooden stakes.
- · Recommends the use of agroforestry species and tall grasses for stakes.
- Improved yield and climbing bean production.

Key points to design your project

- The technology reduces bean cultivation costs, aiding poverty alleviation among small-scale farmers.
- It boosts food security with improved yields and creates job opportunities in rural areas.
- By promoting eco-friendly practices, it reduces reliance on deforestation for stakes and supports sustainability.
- · Steps to integrate the technology include raising awareness, disseminating information, ensuring access to loans, and collaborating with agricultural institutions.
- Consider integrating complementary technologies for enhanced efficiency.

Categories

Production, Practices, Yield improvement, Production system

Best used with

• Climbing Bean with High Yield and N Fixation >

Tested/adopted in





Where it can be used

This technology can be used in the colored agro-ecological zones.



300 %

Increase in yields compared to bush beans

20,000-50,000

> stakes per hectare

Staking density for highest yields

2 meters

Height of stakes for highest yields

~200,000

plants

Plant population per hectare

Open source / open access

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