

Hot and Aromatic Round Pepper for Culinary and Processing Use

Intense Heat, Rich Aroma, Market Ready!



World Vegetable Center

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These hot and fragrant peppers are easy to grow and fit well in home gardens and small farms. They support women's income, food security, and local processing. A useful tool for inclusive agriculture and rural livelihood programs.



This technology is **pre-validated**.

7-8



Scaling readiness: idea maturity 7/9; level of use 8/9

Inclusion assessment

4

Climate impact

7

Problem

- **Limited Varieties:** Smallholders lack heat- and aroma-rich peppers, causing losses.
- **Exclusion:** Women and youth have limited access to training and resources.
- **Inconsistent Quality:** Poor pepper traits hinder processors.
- **High Costs:** Inputs and pests limit sustainability.
- **Low Resilience:** Traditional systems are climate vulnerable.

Solution

- Easy-to-grow varieties, helping smallholders boost production sustainably.
- Short growth cycles, encouraging participation by women and youth.
- Good fruit quality, ideal for small-scale processing businesses.
- Heat and drought tolerance, strengthening climate resilience in farming communities.

Key points to design your program

These improved round pepper varieties address common challenges such as low yields, disease outbreaks, and pest infestations. They support **SDG 2** (food security), **SDG 5** (women's empowerment), and **SDG 13** (reduced chemical use) through their strong resistance and reliable performance in hot, disease-prone areas. Best results are achieved when combined with **integrated pest management**, **balanced soil fertility**, **efficient irrigation**, and **proper post-harvest handling**, including use of simple drying and storage methods. Ideal for programs focused on increasing farmer incomes and building resilience, with strong technical support available through the **World Vegetable Center** or national agricultural partners.

Cost: \$\$\$ **2336 USD**

All production cost for 1 hectare

ROI: \$\$\$ **up to 434 %**

over 10 harvests

6.8–18.01 t/ha

over 10 harvest

70–85 days

Days to Maturity after Transplanting

Officially released in Benin in 2025



Open source / open access

Commodities

Chili peppers

Sustainable Development Goals



Categories

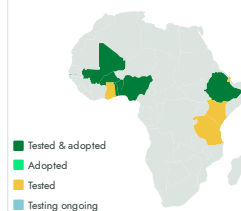
Production, Improved varieties, Disease resistance, Yield improvement

Best used with

Zero Energy Cooling Chamber for Vegetables

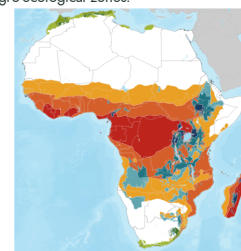
See all 1 technologies online

Tested/adopted in



Where it can be used

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



Target groups

Breeders, Farmers, Processors, Seed companies



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