

Standard designs for fruit-tree-based agroforestry systems on

FLAT land and SLOPING land

Ha Tinh SIPA project | ICRAF



Standard design for fruit-tree-based agroforestry system on **FLAT land**



• Distance between trees and annual crops can be 1–1.5m.

• Fruit trees are planted ideally in 'zig-zag' and in West-East orientation to allow annual crops to receive enough light

• Can combine/mix fruit tree species. e.g., rows of first species and rows of second fruit tree species

• Can apply the principle for larger land size

Tree spacing for specific species can be adjusted based on technical manuals

FLAT land

Farmers can adapt the standard design depending on their e.g., socio-economic condition, labour availability, land size and needs.
Farmers can also practice apiculture (beekeeping) within their farming system to generate additional income and ecosystem services.



Fruit-tree-based agroforestry: pomelo-orange -lemon grass-forage grass in Can Loc District, Ha Tinh, 2020. Photo: ICRAF



Fruit-tree-based agroforestry: pomelo/orange-maize in Huong Khe District, Ha Tinh, 2017. Photo: ICRAF

CONTACT

Elisabeth Simelton PhD Project leader Email: e.simelton@cgiar.org Le Thi Tam MSc. Project manager Email: l.tam@cgiar.org

World Agroforestry (ICRAF) Viet Nam

13th Floor, HCMCC Tower, 249A Thuy Khue Street, Thuy Khue Ward, Tay Ho District, Ha Noi, Viet Nam Tel & Fax: +84 24 37834644/45 | http://worldagroforestry.org/country/Vietnam





CCAFS

Standard design for fruit-tree-based agroforestry system on

SLOPING land



Tree spacing for specific species can be adjusted based on technical manuals

• Distance between trees and grass can be 1.5-2 m, distance between grass and annual crop can be 0.5-1 m

• Trees and crops should grow along the contour lines and trees are ideally planted in zig-zag to allow annual crops to receive enough light

• Can combine fruit tree species, e.g., rows of first species in upper and rows of second species in lower slopes.

• Forage grass or pineapple strips can be used to generate income, forage provision, or build natural terraces

• In a plot with existing terraces, the forage grass or pineapple strips can be set up along the terraces

• Can apply the principle for smaller/larger land size

SLOPPING land

- Farmers can adapt the standard design depending on their e.g., socio-economic condition, labour availability, land size and needs.
- Farmers can also practice apiculture (beekeeping) within their farming system to generate additional income and ecosystem services .





Agroforestry system: native timber trees (Manglietia conifera, Magnolia fordiana, Michelia mediocris Dandy)-fruit trees (orange, pomelo)pineapple-rice-fish-duck in Can Loc District, Ha Tinh. Ha Tinh SIPA project, 2021. Photo: ICRAF



Agroforestry system: orange/pomelopineapple, Can Loc District. Ha Tinh SIPA project, 2021. Photo: ICRAF.



CONTACT

Dr. Elisabeth Simelton Project leader Email: e.simelton@cgiar.org MSc. Le Thi Tam Project manager Email: l.tam@cgiar.org

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