

Cassava planting

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Planting material

- stem: sufficient mature, wood, thick, short internodes, no empty pith, whole buds without injury, without pest and disease, fresh (cutting stem have latex, or rich water content),.
- main stem, → good germination, high yield.
- Branch stem → propagation, lack of stem, good management.
- Cutting: 15 – 20 cm, do not broke or injury buds.

Table 17. Effect of stem age, stake length and part of stem from which stakes are cut on survival of Rayong 1 at Rayong Field Crops Research Center, 1974-1976.

	Stem age (months)		
	8	10	12
Stem length (cm)	201	266	282
# Buds/stem	93	113	137
Stake length (cm)			Survival (%)
5			48.6
10			77.5
15			88.8
Part of stem			
Upper			58.7
Middle			92.1
Lower			98.6

Source: Chankam, 1994.

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Table 18. Plants survival (%) from stakes stored under different conditions and for various periods at Rayong Field Crops Research Center, 1976-1978.

Storage time (days)	Storage method		
	Under shade	In sun	Covered with leaves
0	95.6	95.3	96.5
15	93.5	93.4	91.6
30	83.4	84.3	87.9
45	80.0	55.9	58.4
60	57.5	48.9	50.0
75	49.2	31.9	43.1
90	44.9	28.9	35.9
105	43.2	21.0	22.1

Source: *Sinthuprama et al., 1984.*

Planting stakes

- Length 15-20 cm (7-10 nodes)

- stems is 8-12 months old plants
- Size 1.5-2.5 cm diameter



No good:
oversize or thin
stakes,
forked stakes





Cutting stems
into stakes



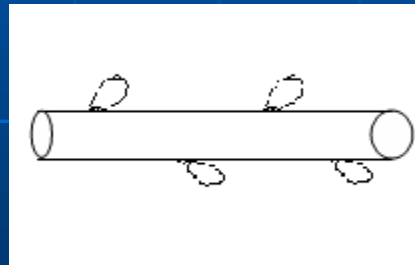
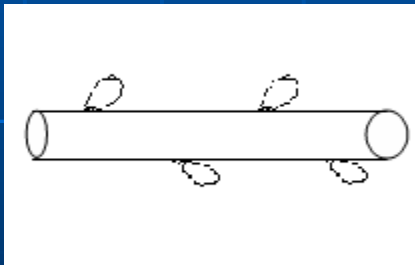
Seeds cutting



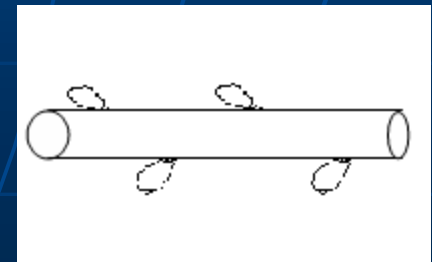
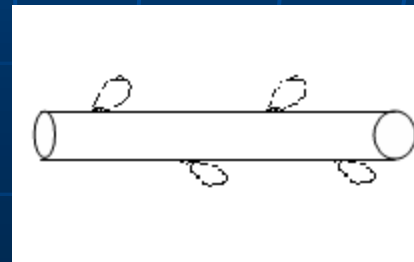
Planting methods

1, Same or Opposite Eye Direction

- Yield of SC 8: Compare with opposite eyes direction (CK). Same eye direction significance increased 16.0% fresh root yield (**FRY**), 19.3% dry root yield (**DRY**) and 23.0% starch yield (**SY**).



← Same direction



Opposite direction →

Ridge, planting, fertilizer



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Manual planting



Mechanized planting



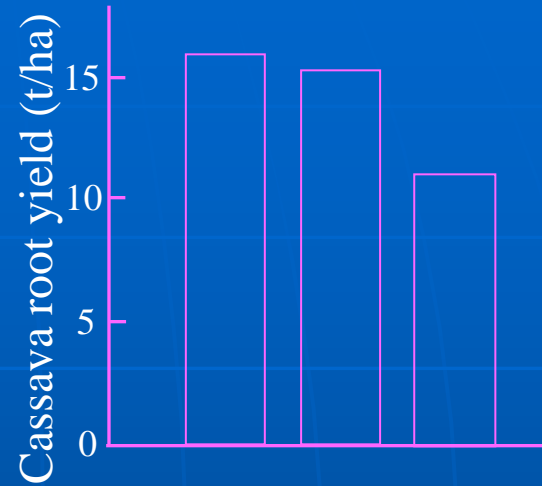
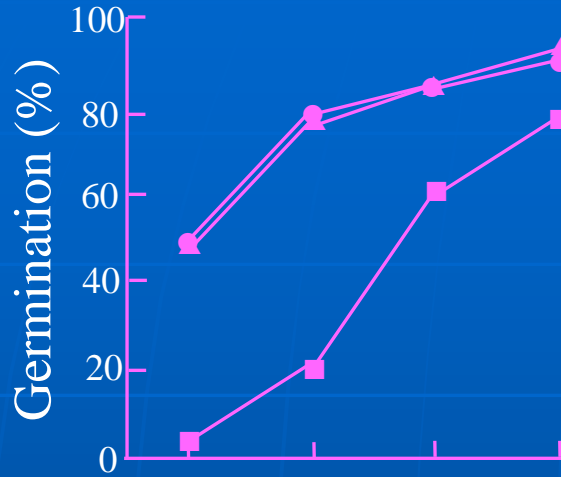
Mechanized management



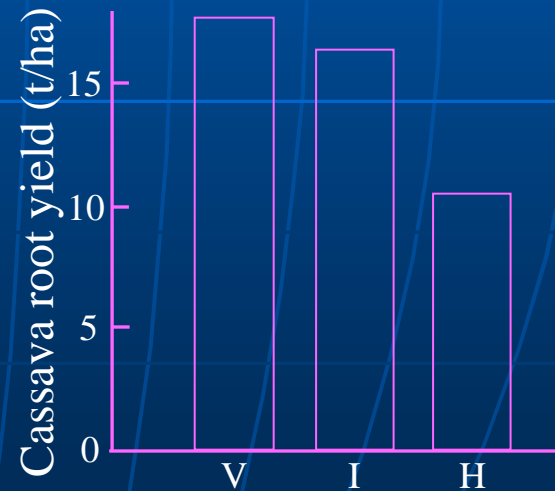
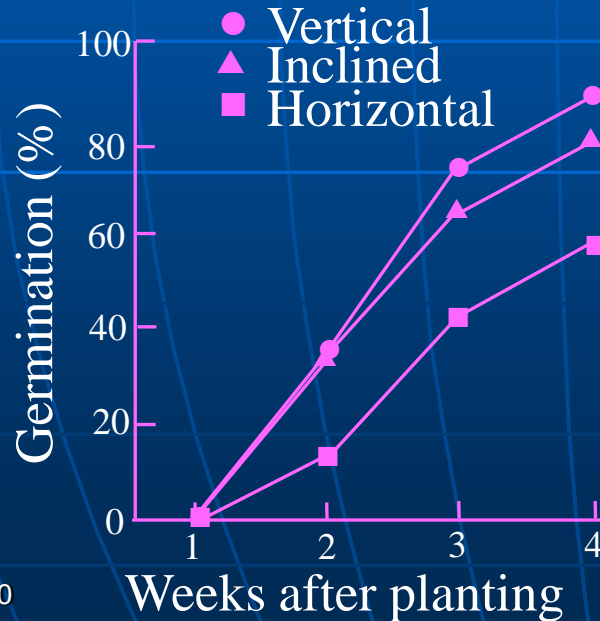


高产示范区

Rainy season planting



Dry season planting



- Hainan is better in horizontal
- Guangxi is better in horizontal and inclined
- Few vertical in china



- Horizontal
- Vertical, buds up
- Slanted, buds up





Manual planting



Mechanized planting

Planting space

- **12,000 – 15,000 plant/ha, Planting distance 0.8 –1.0 M**
- **Normally: 0.8 M*0.8 M,**
- **Fertile land, branch variety, new high yield variety, high fertilization, 1 M*1 M.**
- **Infertile land, straight and few branch variety: 0.7 M*0.7 M.**
- **Poor and no fertilizer, 0.6 M*0.6 M. But few.**
- **Widen row space, narrow planting space.**



- Normal space: 0.8 M

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Planting again when some stake die: used stake or seedling