

Cassava applying fertilizer method

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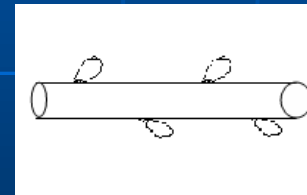
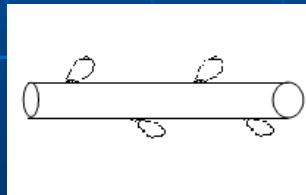
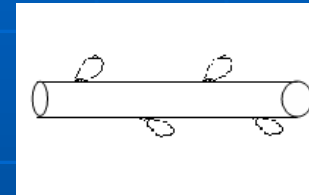
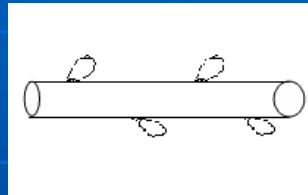
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- shallow: 5-10 cm.
- nearby: 20 cm near stake.
- Hole or



6.2 Applying Fertilization Sites around Stake

North ↑



- Spilt-plot of 2 varieties, Compare CK: Fertilizer on 15~20 cm nearby the root end or intermediate between stakes increased 10.2%~17.3% FRY, 12.7%~19.0% SY.
- Intermediate site **reduce half** fertilization **labor**.

Yield (t/ha)		
Site	FRY	SY
Root end	36.7 a	9.4 a
Between N,S	34.8 a	8.9 a
Between E,W	34.5 a	9.0 a
Eye end	31.6 a	8.3 a
N side (CK)	31.3 a	7.9 a



Applying Different Depth Fertilizer

- Yield of SC 8: **6 cm depth fertilization > 0 > 9 > 3 > 12.**
- Compared CK, **6 cm depth** fertilization increased 7.5% FRY, 5.3% DRY and 3.9% SY.
- **12 cm depth** fertilization decreased 15.1% FRY, 18.6% DRY and 21.1% SY.

Depth	Yield (t/ha)		
	FRY	DRY	SY
6 cm	32.8	11.9	7.9
0 cm (CK)	30.5	11.3	7.6
9 cm	30.0	11.0	7.4
3 cm	28.8	10.5	6.9
12 cm	25.9	9.2	6.0

Different Planting Space and Fertilization

- Spilt-Plot Design trial: Fertilization higher effect than planting space.
- Close space (0.6~0.8 m) was advantageous to improve SY, FRY and starch content.
- Wide space (1.2~1.4 m) was advantageous to increase root number, fresh weight of leaf, stem and root per plant. harvest rate.

Space (M)	FRY (t/ha)	SC (%)	SY (t/ha)	Root Number	Root weight	Stem Weight	Harvest Rate
1.4	17.1bB	24.2bcBC	4.3cB	7.8aA	3.4aA	1.8aA	0.66aA
1.2	20.9abAB	24.7bcABC	5.4bcAB	7.6aA	3.0aAB	1.9aA	0.63abA
1.0	23.4aA	23.2cC	5.7abAB	7.3aA	2.3bB	1.5abAB	0.63abA
0.8	23.7aA	27.3aA	6.8aA	5.6bB	1.5cC	1.0bcB	0.60abA
0.6	24.3aA	25.8abAB	6.5abA	4.7bB	0.9dC	0.8cB	0.53bA

Space (M)	Weight of plant		Plant of ha		FRY (t/ha)
	Kg	time	plants	time	
1.4	3.35	3.8	5 102	1.0	17.1
1.2	3.01	3.3	6 944	1.4	20.9
1.0	2.34	2.6	10 000	2.0	23.4
0.8	1.52	1.7	15 625	3.3	23.7
0.6	0.88	1.0	27 778	5.4	24.3

Fertilization was beneficial to improve FRY, SY etc. but decreased SC and harvest rate.

Fer.	FRY (t/ha)	SC (%)	SY (t/ha)	Root number	Weight of plant (kg)
High	29.2aA	22.9cB	7.4aA	7.5aA	3.0aA
Mod	23.1bB	25.2bA	6.1bB	7.0aA	2.4bB
low	13.4cC	27.0aA	3.7cC	5.2bB	1.3cC

Fer.	Weight of stem (kg)	Harvest rate	Diameter of stem (cm)	Height (cm)
High	2.1aA	0.58bB	2.5aA	194.5aA
Mod	1.4bB	0.61aAB	2.3bB	170.2bB
low	0.7cC	0.64aA	1.8cC	116.9cC

Welcome to Hainan

