

Cassava Leaf Production Research in Vietnam

*Cach,
Khanh*

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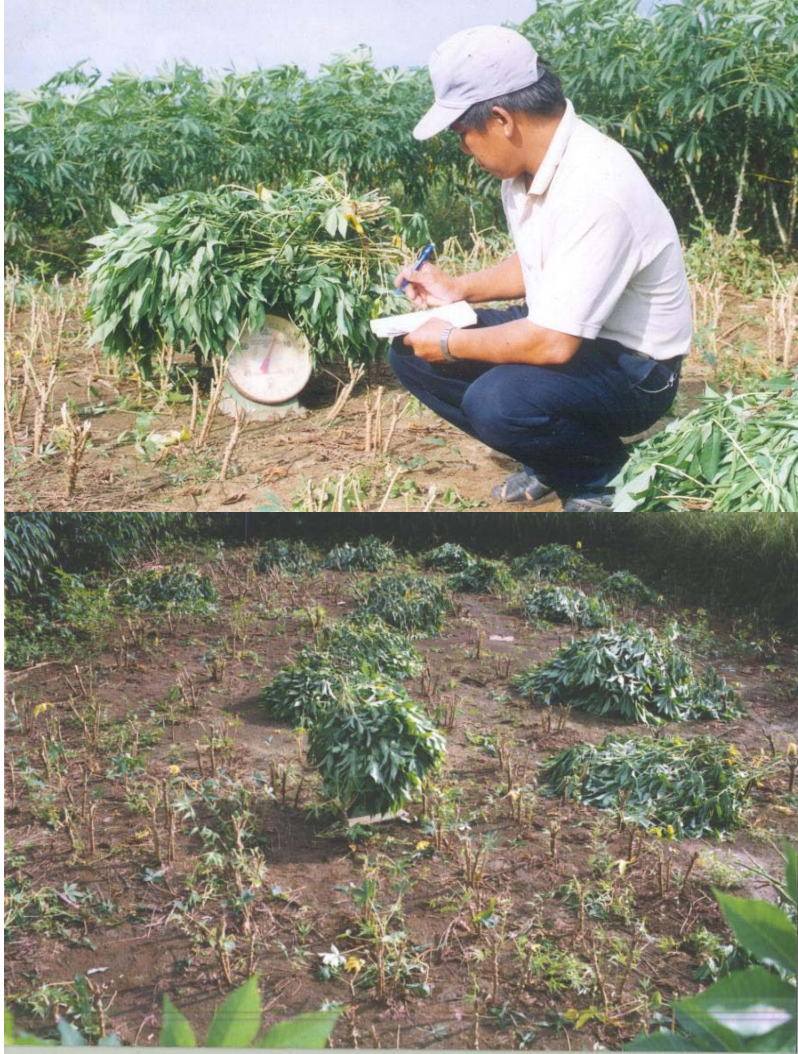
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Introduction



- In Vietnam cassava (*Manihot esculenta* Crantz) was an important food crop.
- Cassava hay yield which include the young stem and leaf are the cheap resource of energy.
- To finding the effect of both of the spacing and the variety on the root yield as well as cassava hay yield.

Materials and Methods



a There are four cassava varieties KM94; KM140-2; KM98-5; SM937-26, two spacing as $0.9 \times 0.9\text{m}$, $0.90 \times 0.45\text{m}$ was arrangement in a split- plot design with the main plot was varieties and the subplot was spacing. There were 8 treatments combination in the total.

a Cassava hay yield or cassava young leaf and stem cutting at five months after planting and followed by every two months.. Whole cassava crop was harvest according to the respective treatments by breaking stem at 15cm on above the ground. Fresh weight was measured and the sample were taken for dry matter and chemical analysis.

Table 3.1. Effect of plant spacing on the total dry forage and the nutrient content (N, P₂O₅, K₂O) obtained when four cassava varieties were planted at Hung Loc Agricultural Research Center in Dong Nai, Vietnam 2001/ 02.

Treatment ¹	Fresh root yield (T/ ha)	Total forage yield ² (T/ ha)	N -----kg/ ha-----	P ₂ O ₅	K ₂ O
S- 1 - KM94	8.68	4.63	181.5	27.8	75.9
- KM98- 5	7.91	5.33	216.4	29.9	116.7
- KM140- 2	11.29	3.39	87.8	13.9	74.2
- SM937- 26	8.49	3.79	151.2	21.2	84.9
S- 2 - KM94	8.39	9.17	359.5	55.0	150.4
- KM98- 5	7.33	9.74	395.4	52.6	213.3
- KM140- 2	9.22	6.86	177.7	28.1	157.1
- SM937- 26	5.88	7.37	294.1	41.3	165.1

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S- 1: spacing at 0.90x0.90m; S-2= spacing at 0.90x0.45m

Table 3.2. Effect of plant spacing on the total dry forage and fresh root yield, as well as the gross and net income obtained when four cassava varieties were planted at Hung Loc Agricultural Research Center in Dong Nai, Vietnam 2001/02.

Treatment ¹	Fresh root yield (T/ ha)	Total forage yield ² (T/ ha)	Gross income ³ -----000dong/ ha-----	Product costs ⁴
S- 1 - KM94	8.68	4.63	10,764	4,041
- KM98- 5	7.91	5.33	11,475	4,752
- KM140- 2	11.29	3.39	10,053	3,330
- SM937- 26	8.49	3.79	9,421	2,698
S- 2 - KM94	8.39	9.17	17,446	7,124
- KM98- 5	7.33	9.74	17,835	7,512
- KM140- 2	9.22	6.86	14,347	4,024
- SM937- 26	5.88	7.37	13,642	3,319



Conclusions

- a Based on the results of the experiment, It was found that planting space and variety different had significant effects on the cassava root yield and cassava hay yield as well as benefit return.
- a Among four varieties the cassava variety 140- 2 gave highest root yield but the cassava variety KM98- 5 gave highest cassava hay yield and incomes.
- a Between two spaces, the spacing S-2 ($0.45 \times 0.90\text{m} = 22,222$ plants/ ha) gave higher cassava hay yield than that of the spacing S-1 ($0.90 \times 0.90\text{m} = 12,345$ plants/ ha)