

Preliminary studies of vetiver multiplication from seeds

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**H.M. the King's
Initiative Projects**



**Restoration of Natural
Resources**

**Forest, Soil, Water,
Biodiversity**

**Significance of vetiver
utilization in
the highlands is soil erosion
prevention**

**shade-tolerant varieties
are needed for
the forest areas**

**slow rate of
slip-multiplication**

**practical
transportation
of propagating
materials
should be
developed**



Vetiver variety research in HHK Centre



- vetiver varieties released by the Land Development Department (Min. of Agric. & Coop.)
- local varieties

**Collection plot of
local varieties
Field observations**



Flowering



**Seed
setting**



Seedling



late-June



late-August

Flowering behaviour of 10 varieties

HKC 01,
HKP 02,
HKPS 09,
HKPW 14,
HKS 03,
HKSU 01,
HKUD 01,
HKUH 07,
HKUH 09,
HKUT 05

Flowering and seed setting

Variety :	HKC 01	HKP 02	HKPW 14	HKUD 01	HKS 03
Flowering percentage :	65.66	54.76	100.00	95.42	70.83
Seed setting percentage :	0	14.45	15.15	40.42	26.38

Seedling growth performance of HKP 02 HKPW 14 HKUD 01

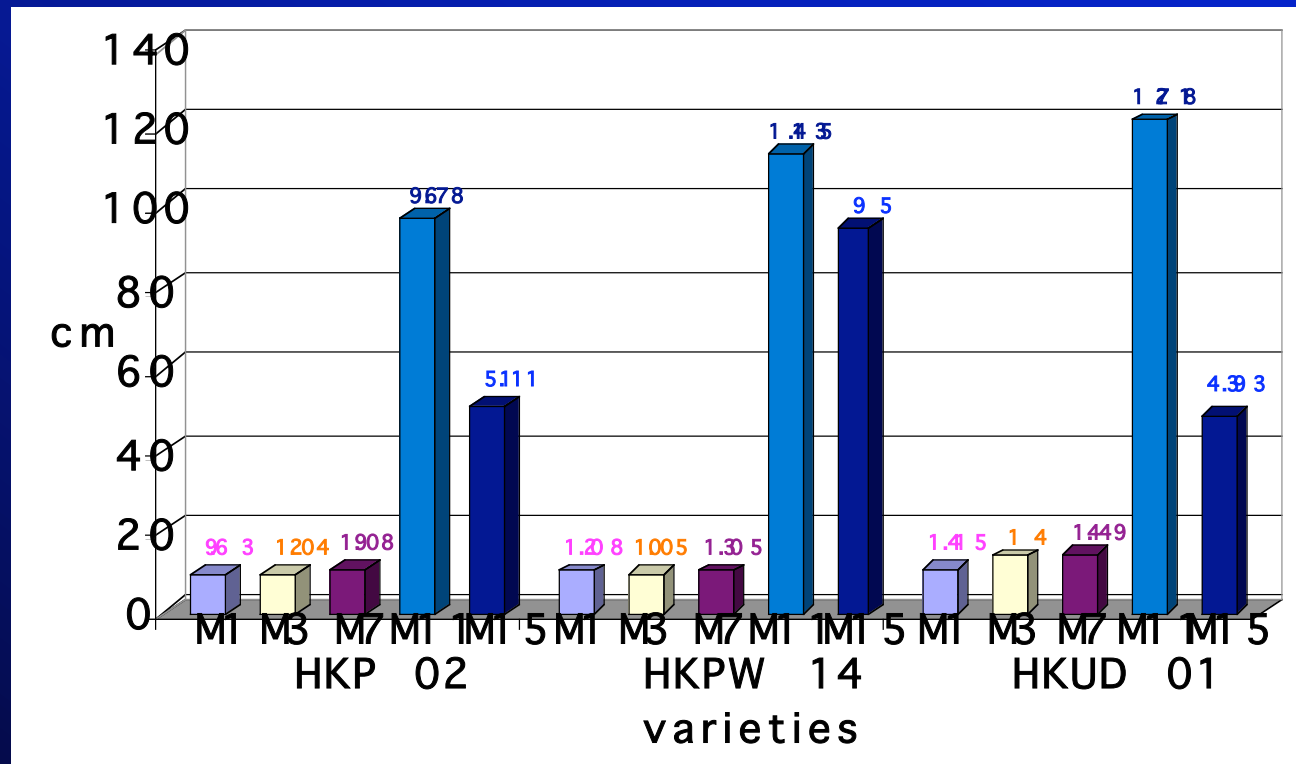


Fig. 1 Means of plant height of vetiver plants obtained from seeds of 3 varieties

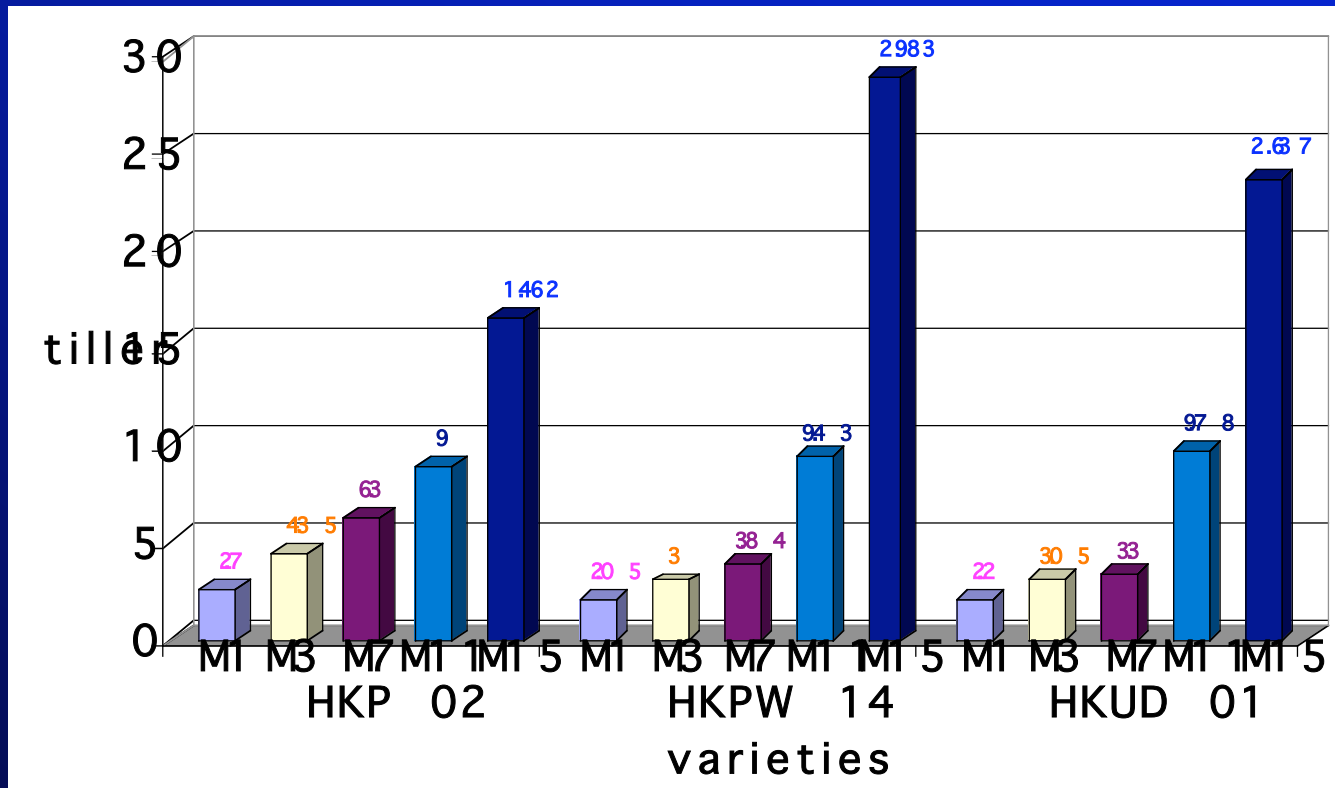


Fig. 2 Means of number of tillers per clump of vetiver plants obtained from seeds of 3 varieties

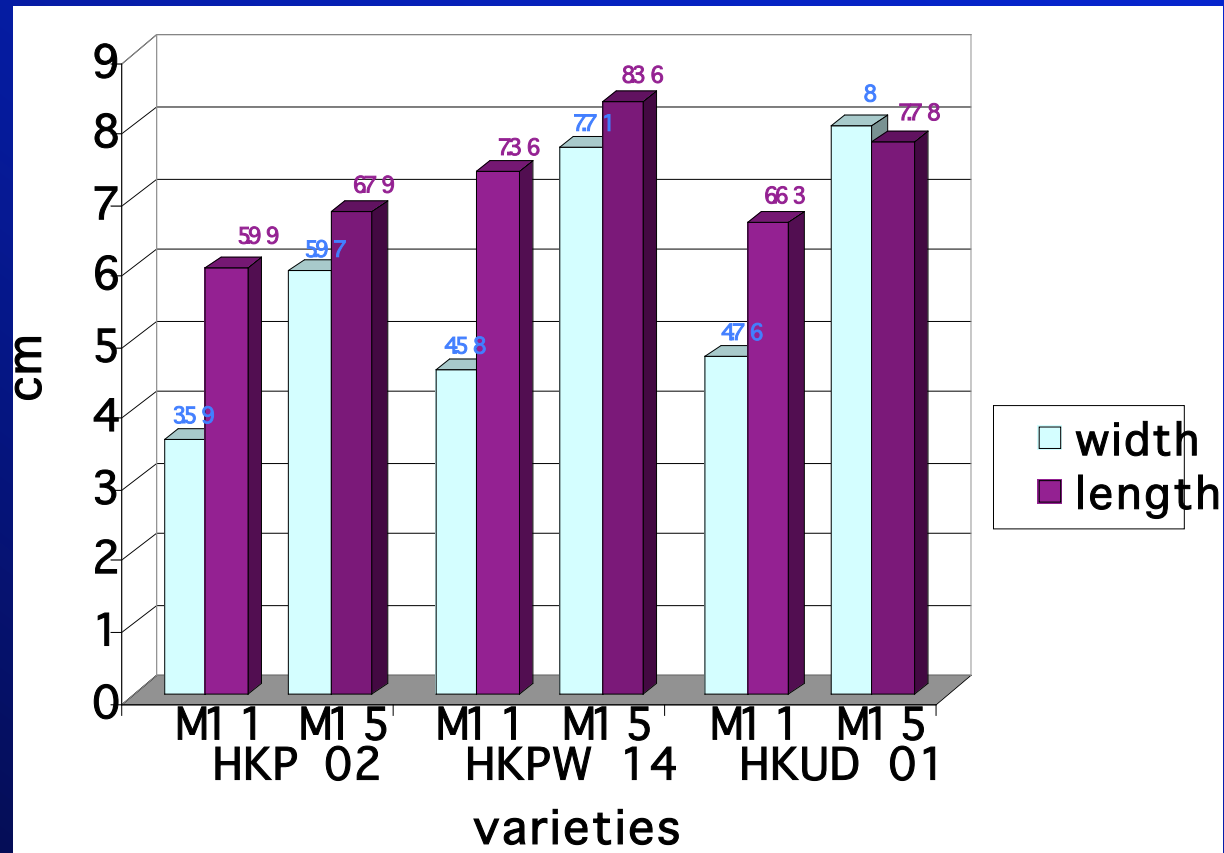


Fig. 3 Average clump thickness of vetiver plants obtained from seeds of 3 varieties



A



B



C

Fig. 4 Vetiver plants obtained from seeds, one seedling per bag of varieties HKUD 01 (A), HKPW 14 (B) and HKP 02 (C) at 11 months after transplanting



seeds

seeding



seedling

M.1

observations



plant

M.3



plant

M.11



**Roots
(M.3)**



Plants (M.11)



**tillering
(M.11)**



**Multiplication
from seeds**

Conclusion

- ï **Seedling can be produced**
- ï **Fast growth from M.11**
- ï **Transportation at seedling stage is more practical and cost less ??**
- ï **Precaution aspects must be considered**

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