

Rubber budding & vegetative propagation.

Dr. Foxworthy says that branches treated in this way
Potted 3 ringed branches (rings) in last Sept 1920
all branches have formed callus at
the upper part.

16.8.20 1 from no. 7. 2 from no. 610.

16.8.20 6 branches ringed on tree no. 27.
1 branch " " " " no. 7

Tree no. 27

(1) on 30th of July. I cut the top of branches to
allow the lower dormant buds to develop.

on 13-8-20. Budded sixteen on 1/2 ~~year~~
years seedlings

(2) Budded 25.8.20. patch budding &
inverse T budding near soil. 25 buds.
no success

(3) 8.9.20. Budded 1/2 years seedlings -
140 buds inverse T budding.

2.12.20 Budded 3 P.M. - T. budding - 3 buds
tops of branches cut on 2.12.20 's let the
lower buds develop.

22.12.20 - 15 buds, well developed
Patch budding - (T) -

we want to raise large supplies of
seed of 27, and budding should
be tried again. It is said to be
easy when the right conditions
are hit.

Avoid chopping with latex
bleed the tree close to the point
to be budded, and bleed also the
bud.

Try again - JMS
29.6.29.

two barks and give out shoots from the transplanted bud.
(Humid atmosphere)

This was accomplished by tying scar round the bud, and keeping it moist by watering the same.

Diary of the budding.

Sept. 16/19.

Tops cut to obtain buds.

Oct. 27, 19. buds from trees no. 77 and 27.

15 buds _____ all found dead after a ~~xxxx~~ fortnight.

Nov. 18/19.

Out of 9 buds only two were observed to have cultivated the rest. There was the formation of the ~~xxxx~~ callus but it was found that the buds did not unite and hence by the time the callus was formed, they were dead.

Dec. 17, 19.

5 buds in the nursery and 2 on the rubber stump.

~~XXXXXXXXXXXXXXXXXXXX~~

budding

The stumps are still unsuitable for ~~xxxxxx budding~~ for the circulation of sap is not up to the mark. The bark does not slip off readily and the wood is injured during the course of the operation.

The cut in the bark allows the latex to flow over the cambium and thus prevents the union of the two ~~xxx~~ *cambium* *Cambria*. Ammonia may stop it, it being the least injurious and weakest of the Alkalies.

In the opening article of the ~~xxxxxxx~~ Tropical
Agriculturist, Nov. 1919, ~~xxxxx~~ the problem of Rubber
budding and grafting is discussed. There it is ~~xxxxxxx~~
referred that Exp. are being conducted in Malaya and Java.
The information about the budding will ^{be} made available for
ne:

Yours obdly.

G. D. Deshmukh

I Macottapes (23) were tried but I ~~could~~ ^{did}
not discover a even a small
root on the upper healing surface.

5 Bankuses were tied on a ~~at~~ the
branches of coming out of a stump
fallen in weaver 7 No. 7. The same
result.

II out of two saddle grafts - none took

31/5/1920 15 Buds on the stumps
planted in Block no 13.

9/6/1920 - 22 buds. on stumps as
above Block no 13

Rubber budding.

13/8/20

a fortnight ago, I got the top of branches cut to allow the dormant buds to develop.

To-day budded ~~that~~ sixteen on one & a half years seedlings -
Buds from tree No. 27.

14/8/20: Buds from 670.
6 Buds.

Day dull calm. Rain in the morning

Bunkered (marcottage) ^{ten plants} $\frac{1}{2}$ year seedlings watered with lime water

$\frac{1}{2}$ year
20 cuttings from ~~these~~ seedlings were put in boxes to see whether they throw out roots & throw out buds.
- They all died & did not produce buds

16/8/20

6 branches on tree no 27

were ringed & left on the tree to form callus.

6 branches on tree no 10

Dr Foxworthy says that the branches

thus operated upon & left on the tree,

form callus very soon & may

take when ~~fully~~ detached from

the parent & better

Potted 3 branches treated as

above 7 (1) 810 (2)

20-8-20

Top of plants cut &

22-8-20

Tape removed

Buds drying on 23/8/20

Some buds are still green & show

sign of union, as the ^{stalk} leaf remains

come out easily forming cork layers

None of the above operated upon lived

25-8-1920 25 Budded (patch budding) +

budding near soil. Tree No. 27, Bud

sticks used.

No of seedlings budded.



25.8.19/8.120 30 buds used
good quality, 12 trees

17.1.21 Budded No 27 tree

Propagation of Rubber by Budding
& Grafting.

Miscellaneous good yielding trees.

25. 26. 27. Aug. 20. 30 budded.

grafting tape used; method of grafting
used. Patch & inverse T.

The plants bled according to Director's
instructions. Bud green upto 31.8.20.

4.9.20. all buds dried. There does not
seem to be any union between parts -
~~with~~ grafting tape, is found better than
g. wax.

Budded. ~~with~~ inverse T. ~~partially~~
covered with coconut husk to keep dampness
near the operated part.

all inverse T. budded.

marcottage.

In the nursery.

10 plants, 1 1/2 years old were ringed
2-3 ft higher up from the ground. -

They are showing root development
on the upper callus zone.

These marcottages were watered
three times with lime water & some
lime was thrown over the marcottages.

Taking this into consideration -

16.9.20 On 610, I marcottaged 2.

of 610, seeds 62 sown in the nursery
of 27 seeds -

Seeds germinated on 30.9.20 (seed coat ...)

22.9.20. In the nursery, I cleft-grafted
5 4 Stumps - about 2-3" in circumference.
Bark graft is also tried. No. 27

27.9.20. showing signs of taking.

Some showing progress. 6.10.20

25.9.20. No. 610. cleft grafted. 2 years old.

Some showing progress 6.10.20.

10 1/2 ft high tree No. 110. 11.22.20

16.8.20 25 buds from 610.

6 branches on 610 were ringed -

circumference of all 6 branches 1.2.20 1.18 1.18 1.18 1.18 1.18

14.9.20 15 buds were put in to budding

~~15 buds were put in to budding~~

23.9.20

one bud is still green those put at the same time are dry & rotten.

To secure good results in grafting, it is essential to secure good stocks full of sap. To control sap in stocks, they are repeatedly cut back ~~in~~ from the starts, cutting off only 8 or 10 percent of the previous season's wood to remove all buds that have started to grow — this operation is repeated ~~five~~ every 8-10 days not only to prolong grafting season but to insure better stands of grafts on than on the unmanipulated stocks (E. J. ^{Vol} ^{No} 42-8-1920 ^{gr}) (This method is useless in the case of Hovea, because on cutting the top the bark sticks more and more to the wood — is very difficult to separate.) This is well known by all.)