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3.

HARVARD

Third Part

Expense

Planters wishing to plant several acres of Ramie should not start them all with Roots as it is too expensive, they can propagate the Ramie in a nursery as it is explained in part first, but a few hundred Roots at least are necessary to start a nursery, the following is the cost of planting one acre

The Ramie Roots are now selling at ten dollars per thousand it will take 14,500 Roots to plant one acre by planting them 3x1 foot.

Planting First Year

Plowing & preparing the land	\$ 8 00
Manure	8 00
planting	4 00
keeping in order	6 00
Roots 12.500	145 00
Rent 5 to 6 dollars	5 00
	\$ 176

If no other manure can be had
Cotton seed meal can be used though
it will be a little more expensive.

Rotten leaves, or any other kind of
manure will do, but if the land is
not Rich it will pay to manure
well, if the planter ungummed the
Ramine the Residue (the water) of the
ungumming mixed with any kind
of leaves or straw (pine straw especially)
will make good manure.

Care also must be taken to plow
deeply.

Second Year
and Years following

Keeping the land in order	\$ 12 00
Manure	8 00
Cutting the stalks & Drying them	6 00
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	\$ 26 00

one acre kept in good order will
Yield from 2,200 to 2,500 pounds
of Crude fiber, in one Year

The expense of decorticating 2,200 pounds of Ramie will be counting $1\frac{1}{2}$ Cent per pound	27. 50
Keeping Land in order cutting &c	26 00
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	\$ 53 50

The Crude Bark selling at
5 Cents per pound would
make for 2,200 pounds \$ 110.00
Deducting \$ 53.50 for expenses
would leave 56.50 per acre

admitting that the Capital employed
for one hundred acres would be
twenty five thousand dollars (25,000)
the interest at 5% would be 12.50 per
acre

From	56, 50
Deduct interest	12 50
Remains	<u>\$ 44 00</u> profit

per acre —

The same Capital would be
sufficient for 200 acres and the
interest per acre would be much less
if the increase of acres in cultivation
would be done by a nursery on the
Spot.

Bark ungummed.

The Bark in the ungumming process if the Gum only is extracted will not loose more than 35 to 40 per cent and the Cost will not be more than 2 Cents per pound for ungumming with a proper material for doing the work

The Prime Cost of Ramie Bark is 3 cents per pound, Counting in The labor in the field decortication and interest of money. \$66-00

2200 pounds will loose in the operation of ungumming Counting a 40% loss. 880 pounds, which will leave 1320^{Pounds} of ungummed Ramie

Costing 2 Cents per pound for ungumming
 $\$26.40 \times 66 = 92.40$

The ungummed Ramie selling
 at 12 Cents per pound will make
 for 1320 pounds \$ 158 40
 Deducting expense 92 40
 Leaves ————— 66 00

The water which has been used
 for ungumming Ramie makes
 good manure, mixed with leaves &

Spinning

The Ramie

as it has already been said
 Raw Bark Ramie can be manu-
 factured before Bleaching

The first operation would be
 to cut the Bark Slivers in two as
 they are too long to work easily
 and would make too much waste

They are afterwards passed through
 fluted rollers to soften the Bark

and Break the pellicle as much
as possible

They are afterwards worked on
the ordinary Hackling machine
to which slight alterations would
have to be made, the machine
will turn the Bark into fibers
and ^{clean off} the pellicle

From the Hackling machine
the Ramie would go to the Spreader
which would make in into Slivers
from the Spreader the Slivers united
8 or 10 together would go through
the drawing frame from which they
would come in an uniform thickness
Sometimes a Second drawing
frame is used to make the Sliver
still more uniform, it goes then
to the Proving frame made especially
for the purpose where it is spun
to heavy numbers, as it cannot

be spun as fine as Bleached Ramie
which for finer numbers would be
spun on the spinning frame

From the Proving frame the
Yarn is Reeled into hanks, and
afterwards bleached, with much
less trouble than the Bark, and
also with less loss in ungumming,
it is then Ready for the Weaver
for making heavy cloths, Sails, or for
^{making} twines & Ropes.

Ramie ungummed

Ramie ungummed can also be
Hackled on ordinary hackling
machines but will make much
^{sw} too if Carried too far, it is for
^{fine} very numbers generally Combed but

it is a slow expensive process.

For ordinary numbers Ramie
 could be Carded or lightly Hackled
 it would make a much cheaper
 article, ^{and} could be sold cheaper
 than flax and make a superior
 article, than flax.

+ I have Counted 5 Cents per pound
 for Crude Bark Ramie, I have seen
 some at Lille which was sold at
 4½ Cents, in Algeria, it cost in
 Lille 5½ Cents.

Ramie varies in price from 4½
 to 5 Cents per pound I mean Crude
 Bark, because some have a small
 quantity of wood still adhering
 to the fiber, ^{Bark} and is sold cheaper





