

Bluffton 25 Jan 1877 - ³⁸
Only a word to say that
both the parcel & the letter
came together. I had them
all before me yesterday when
I was carried away a
long distance, & now, I shall
not write you or return
what you want until
next week. So we go!
I sent you a number of
leaves of P. australis, 4 leaves
& 2 leaves from a tree just cut,
you had seen the 2 leaves al-
-ready but from many plants.
I can also send you P. Tæda
5-leaved & 2 leaved also if
you desire it. Variation every-
-where! From your query as
to that bark wh. you "guessed"
might be P. glabra I see you
do not have seen one of my
letters on the back of wh. I said
that it was from a tree of Rhus
Copallina - 30-35 feet high &
6' in diameter. Usually only 8-10 ft.
in diam.



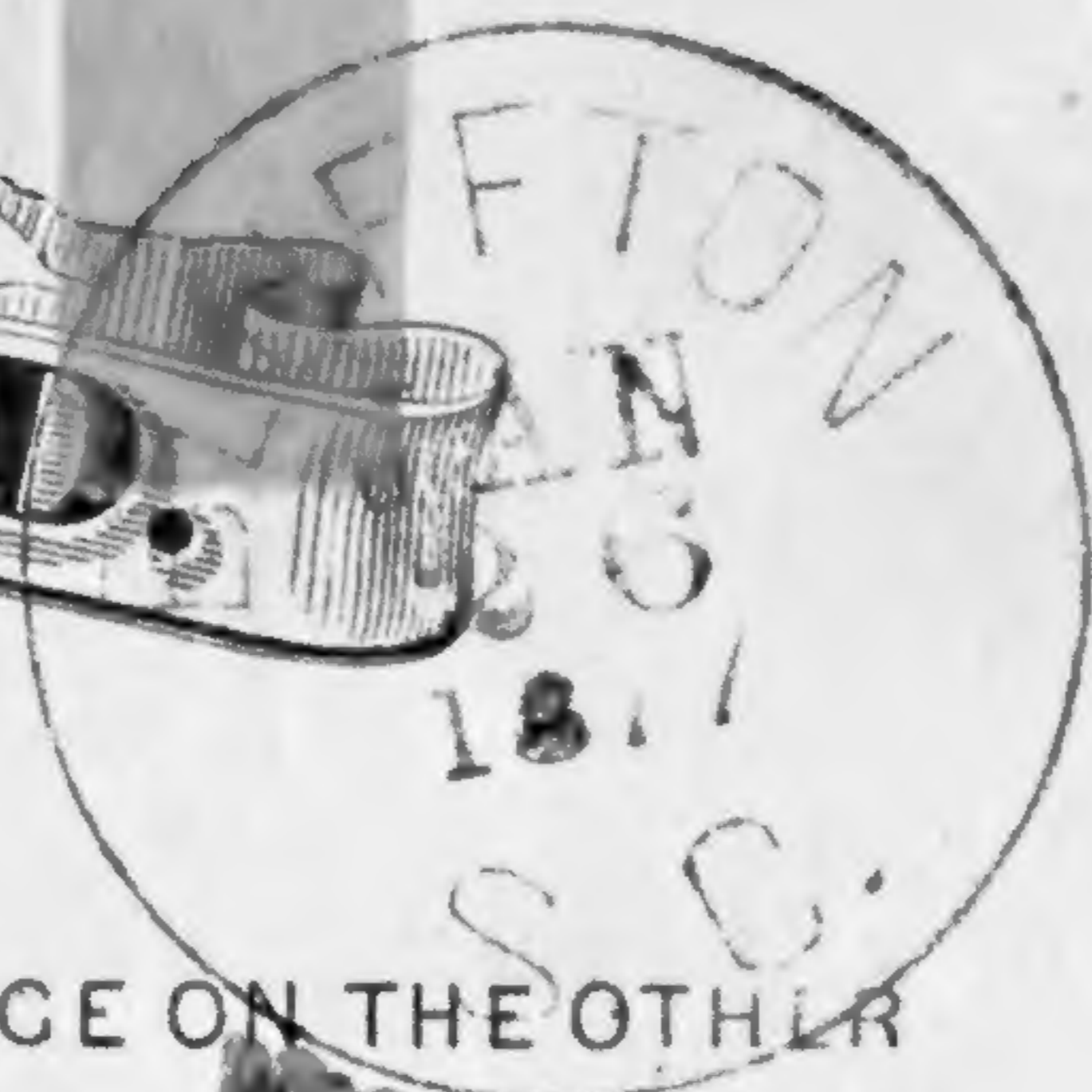
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MISSOURI
BOTANICAL
GARDEN



WRITE THE ADDRESS ON THIS SIDE - THE MESSAGE ON THE OTHER



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W. Engelmann
3013 Locust St
St Louis, Mo.



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ye maps & says from them. Still I have
N. var. sent to whom? Still I have
did not tell me
whether they
reacted the
-men they
Nursery
if
himself
Satisfactory.

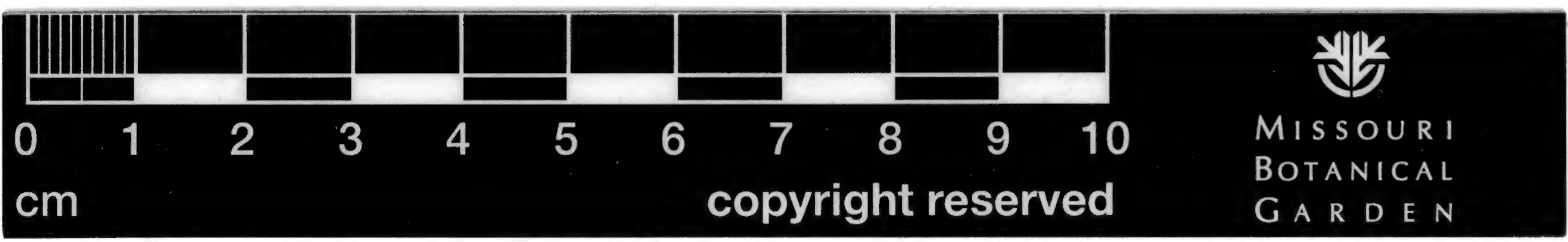
Rec Feb 6
any say day
Bluffton C
31 Jan 1877

59
The seeds of P. pub
were sent as plants
several plants
8-10 inches.

W. Engelmann

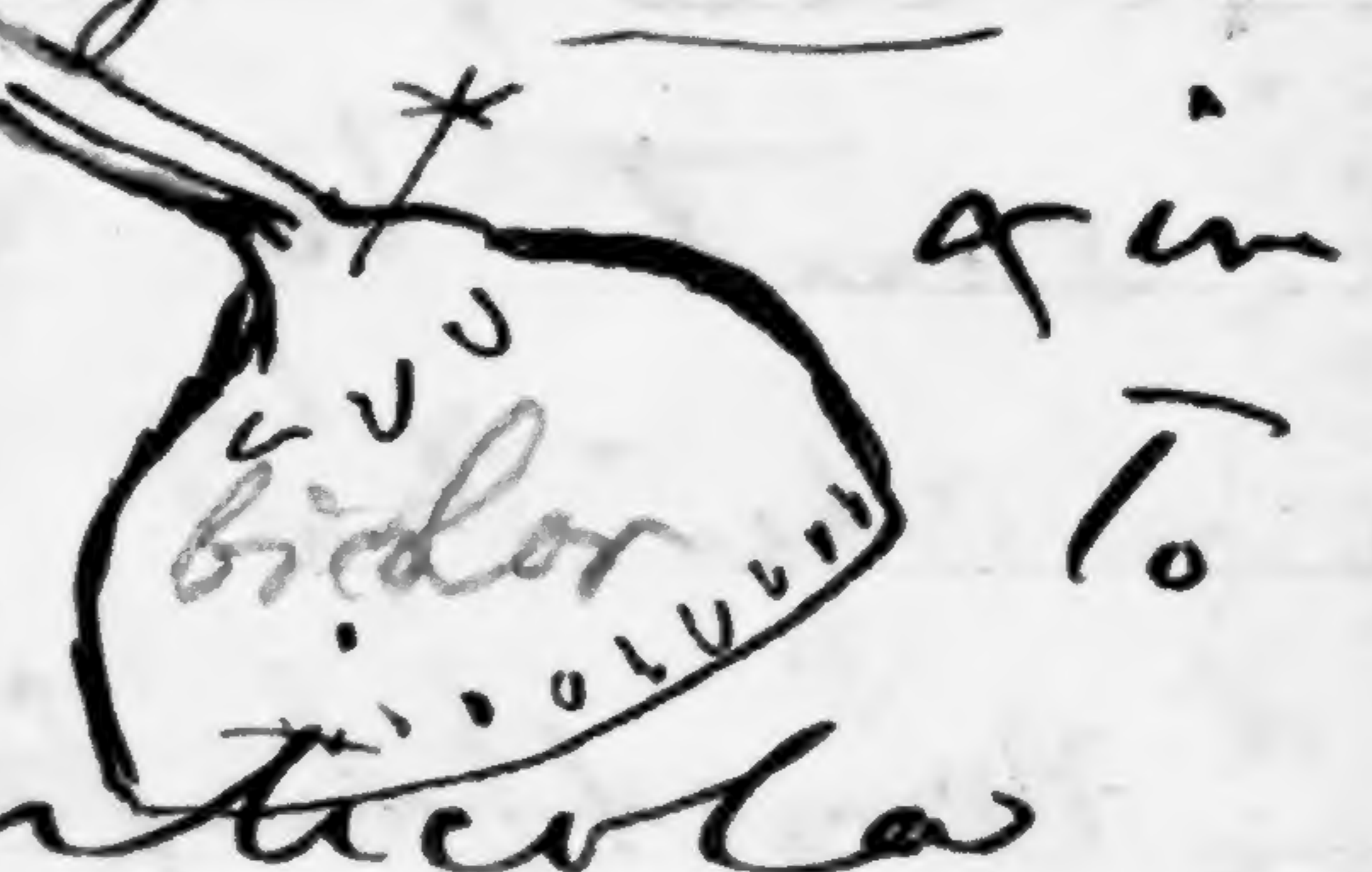
My Dear Victor,

This is the first
Chance I've had to write
since I sent you the P.C.
When I first examined
and compared the various sps
sent by you I almost con-
cluded that my New River
michauxii, your Q. prinus
palustris from Washington (Vasey),
and the Q. bicolor - were
all one & the same. To night
however I have gone over
them all again - comparing
& re-comparing as carefully
as was possible with me,
& I now think that the two
former are the same, but
that the latter - Q. bicolor,



59A1

is distinct. I have to judge
 the latter only by the acorns
 you send, & these differ from
 the two former by the scales
 or leaves (?) being less defined,
 more indistinct in form & out-
 -line ~~from~~ ^{than} the former. Al-
 -though the cup is hemis-
 -pherical, it is less so than
 in the two others & more pointed
 or turbinate
 or projecting at the junction
 with the peduncle
 in this respect it seems
 approach to *P. Monticola*



(8) ^{*brines!} the other (9). It is
 also thinner especially
 at the rim or lowest portion of
 the acorn, & in this respect
 differs remarkably from all of
 mine of *Michauxii* & I think also
 but in a deeper degree
 from ~~of~~ ^{of} Washington *Palustris* (Vasey).

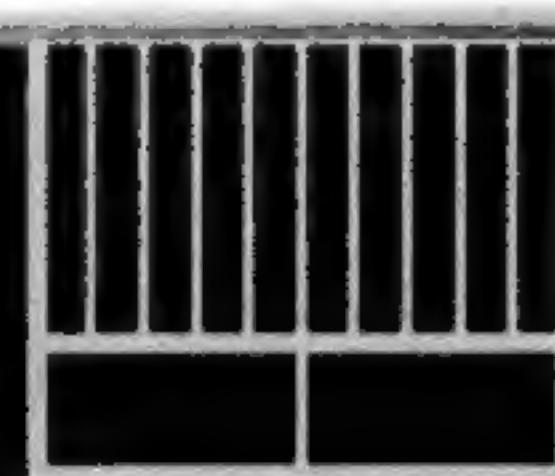
Now in all of my sps sent of
Michauxii (although the cup
 of one is singularly deep in
 comparison with others from

the same tree) yet, in one ^{59A}
respect they are all alike - viz.
(I mean the Washington & New
~~York~~ sps) in the outline of the
cup & the absence of ^{the} projection
at the peduncle and also
in the more clearly marked
seals (if scaly) or knobs (if



knobby. Although the Washn
Palustris is small it greatly
resembles ^{the} ~~my~~ 5 - "2. Michauxii
sent 3 yrs ago", and one would
say that they are the same!

My ~~flatter~~ shallower cups of
2. Michauxii (3 & 6) are like
5 in thickness - and especially
in thickness just at or about
the rim. I must frankly
confess though that that single
cup (a acorn) marked by me
2. Michauxii (your 5) is some-
- what puzzling - it is so
much deeper than all the
others I have seen - yet
I have no recollection of



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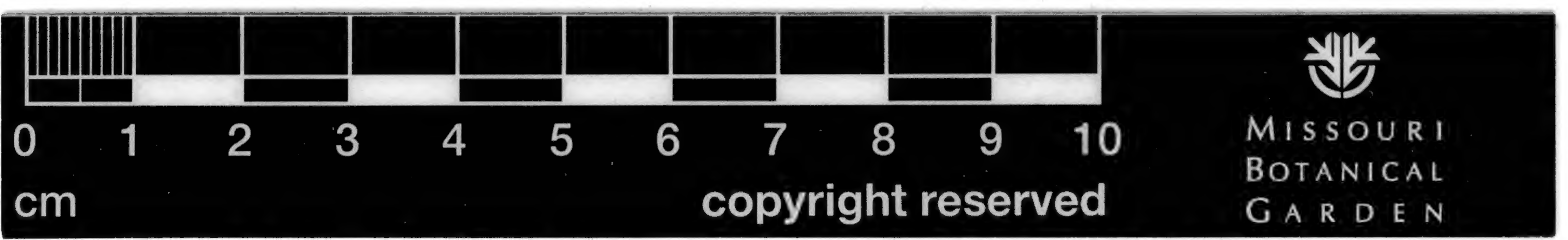


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its having come from any other tree than the one that bore the shallow cups! It is true that about 30 yards from that tree on the other side of the road there is one other of *Q. michauxii* growing, but I do not remember ever to have seen it bear fruit & I certainly do not remember having picked up any cup beneath it. Curious! But it came from a tree of *Q. michauxii* - that is certain, be it deep or shallow. One reason why I was anxious to see again what I had sent you - was this. Some years ago my wife & I were engaged in making "rustic frames" for pictures &c and got my father to send a bag of acorns from Falmouth in the Confesser but he sent only *Alba* & *rubra* & *obtusiloba*. if I remember aright, - certainly I saw no others. My Brother also from Worcester near Cheshire sent *Alba*. I also remember collecting

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Rec Febr 6 1877

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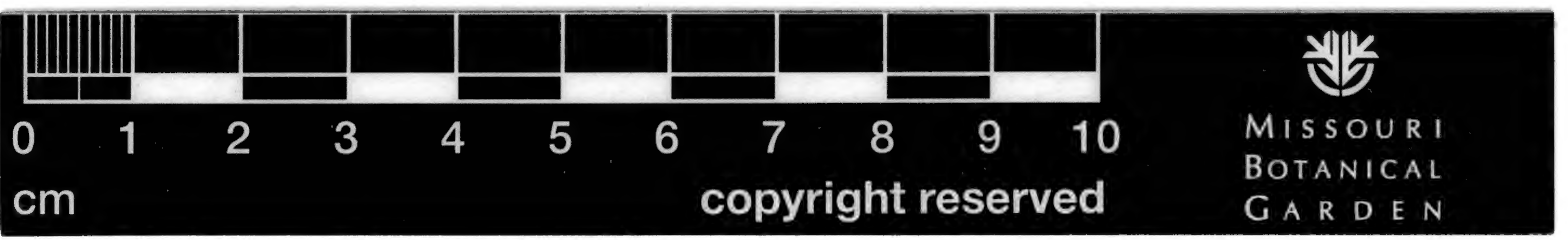
Cups of *I. Michauxii* (no acorns
I think) from New River, & I was
anxious to see no 5 to say whether
by some strange chance a mistake
had not been made. But I
am sure not, for I would have
been too careful to have
blundered in that incon-
prehensible way. I have ex-
amined what mistle work is
how but I can find no cups
of *Michauxii*. I have however
found what I believe to be

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the large marked - X?
the smaller

the same ~~acorns~~ cups of
Michauxii collected there (wh were
not used) and these I send;
You will see that they correspond
exactly with no 6 the last sent
Dec 76. One or two are more
densely & less shallow and you
may see some approach to
no 5! I find one other wh
I think I collected at Perryburg
Sarb - (when I sent you *I. Grata*)
& wh I mark now X. You
will see the ribs send shining among
the scales. What is this?
I. Prinos I suppose. Tho the
scales not so prominent as in my

spi
swant
mistle



Also, an other of I. lyrata &
⁵⁰⁰
^{others} umbra (?) from Ft. Mott & also
alba from same place &
perhaps Dorchester also. I send
branches with buds from Michxii
at New York. I did not get them
myself - got an "intelligent
negro" to do so, giving him a
leaf & describing the place. He
brought them buds with the
dried leaves, so there is no
doubt I think. But ~~is~~ are
the buds - these small buds of
the Wash. I. palustris terre
as you say? I havent a good
glass but I think I saw
the angles! When one
sees a leaf what a difference
it makes - (Volumen of Des-
-cription do not equal
it it. Thanks for these leaves,
I will know the trees now
at any time. I send
more fragments of the Mich-
-xii Swamp primers.

Missouri Botanical Garden (Linn. - Calab.?) almost 500



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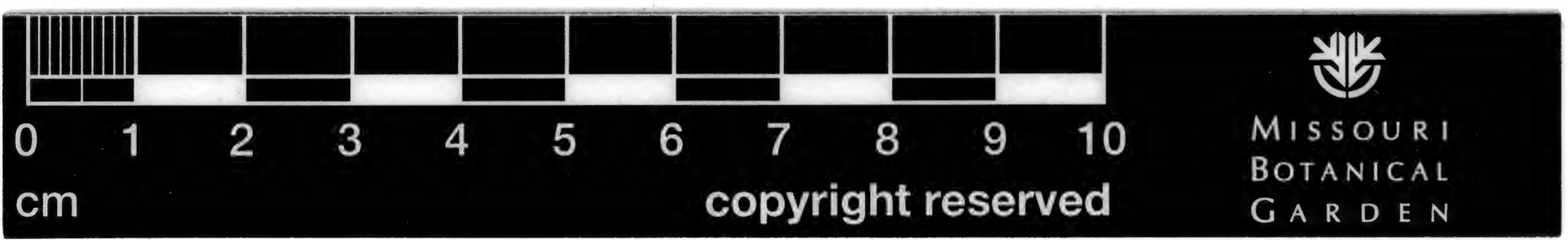
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P. 2. Cin - Calab. long linear naked of lower - the other (Laurif - Calab?) almost so.
All of *Asratia* naked save two, which are partially striated - *Laurifolia* still with heavy foliage all of them, but I see the ends of the upper branches getting striated.

I sent three specimens of ⁵⁹ *Virens*, because they came from a tree & not from the little pin-bark tree sprouts. The tree does not seem to have barked, - then I sent some of them from a large tree. One handled from a smaller tree contained an acorn wrapper in paper. I sent 5 leaves *P. Taeda*, & 2 leaves *P. Some* time back a little bundle of 4 & 2 leaves *P. Australis* from first sized tree just cut on roadside.

The bark was that of a Sumach - Rhin. Cop. I send you my 25th, this, is the best I can do at present. Most truly yours
Wm. Linn. if those leaves of 2 *Virens* are resolute - will examine.

the spring & 5 leaf P. Taeda 26.



my terms of last but mistakes can be kept to find mistakes better!! must have been

1 Feb. I've just gone over these things this morning after having "left out them"; & upon my soul I fear I am of an vacillating a mind as that poor fellow described by Bulwer who never did come to any conclusion upon any subject, — there was so much to be said on both sides & wishing to be fair, everything left him remained subjudice!! It seems to me a man to be sure ought to be a victim of bees of 2. Michxii with a combination of a heat of acorn for distichis & the same with the others. But if all of the acorns of 2. bicolor resemble yours I will suppose that what I referred to will be a good character. What do the leaves say? The only leaves I've sent were of Walton, Kalutina which certainly is our Michxii. I repeat that I think ~~the~~ ^{acorns} bicolor "squints" at the Monticola, (8 & 9) and not ~~at~~ at my 2. prunus of Middleton Swamp. I know I make ~~thousands~~ many blunders in bot language & in many ways, still ignorant & therefore you must be the last to suppose that I make the slightest pretension to accuracy in judging above & of your opinion for what it may be worth. I am sure no mistake was made by me in sending acorn of 2. Michx. but I thought it best to refer to the various lots used from 7 miles N. 1501 Chester. You asked if 2. virgin leaves were ever wanting in pubescence etc. Yes (apparently) in cold edges — shaded edges of Swamps. I send B to show — tree 25 feet. all leaves thus, large — seen it before. O is from Peterson Cant. (Laurens) And now I must go & see

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marked - X



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Rec^d May 4th 1877

Mystophora - its present condition.

This was here

to bring her some sick

to Salt water & to bring her some sick

II. I think I sent you this before as one of the Var^s of Pumila - dwarf - one, two or three feet in height. Don't think I ever sent it to you in flower before.

other to come

a stalk - but

III. Optusiloba - a little Stellata to them - true.

them

belongs to a

to what

to what

to what

to what

to what

IV. Sinuata -

V. Pumila - diff^r conditions

V. Dwarf 2 Nerve of the Pine barrens in flower - but I sent you this before.

the color of a

VI. Pumila - diff^r etc

C. Bluffton
30. ap '77

My Dear Doctor



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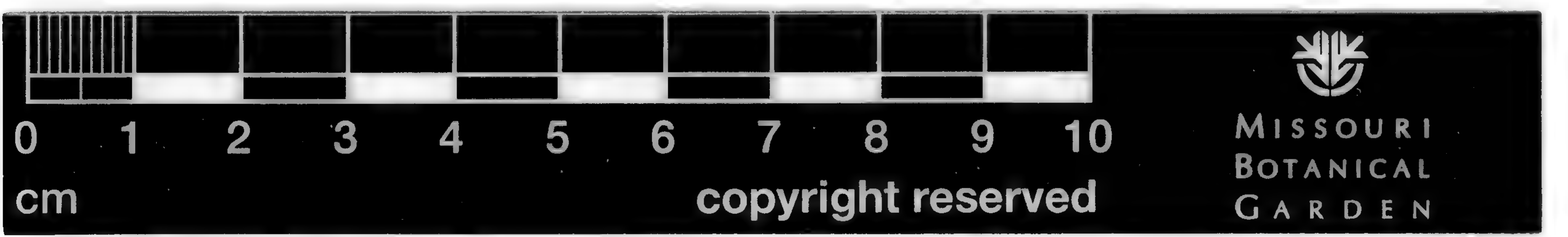
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and so now quite mixed a heap! - by the way I think

I send you a few things
wh. you will find ~~most~~
most likely, by much ~~most~~
marked up, but they will
do to examine & then
throw away. I send sps
of the oak wh. you say
is a peculiar form of Alba.
Are you very sure? - it won't
do to say no - but at
least let me say "I'm dubious".
The bark is not flakey,
more dark than in Alba
& deeper furrowed. The sps I
send are wrapped up loose
in the pledge and not la-
belled - the true stellata
is wrapped up and marked
III - for you to compare
wh. by the eye I haven't done
except with the naked eye.
The sps I send are un-
-doubled & taken from the
same tree from wh.

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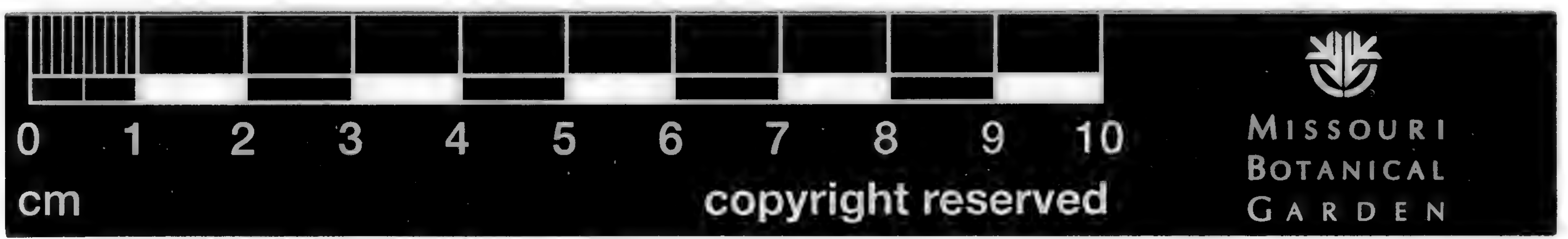
Another mistake as to the picking leaves - I talk. The clusters inside on the



Another mistake on the hickory leaves - I take the clusters insects on the
miss. further for "Volcan scales" or "pubescence"!!

The hail beaten ones were taken.
Oh so impossible! it must
be 'Abutilon' & not alba.
Want you will gain!
I happened to be getting on
the tongue of rich land printing
Caleboga sound from W. place
I was sent you that you
insect eaten Proximus. That
is its condition every year - next to
it is a very fine Hickory - C
glabra - ? - Amara? - hardy,
smooth barked a handsome tree -
nuts I did not see, of last year.
The whole tree is covered with
the curious & creases - bursting
like a certain kind of fungus,
which I at first took them
for (!) next, I supposed them to
be ~~the~~ abortive fruit (!) until I
got hold of them & found neither
fruit or fungus, but that
they were produced by some
insect. The unopened ones
are full of some winged
insect. I ought to have
sent them to Mr. Riley
I suppose - but it seems so

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that with the ash & hickory ^{together} she
 be insect attacked that I send it
 on as a curiosity - but perhaps
 the Cord. is common with
 I never saw it before. Near
 the same spot I came across
 the fern sent, which never
 before saw on Salt water, tho'
 I have taken up on fresh
 water. Also leaves from
 a small tree wh. I have not
 seen in bloom - Ulmus,
 or Cornus, or Planera?
 (hardly?) I will look at it
 again. You will find
 a batch of young ground
 shirts of Calceol of diff.
 sizes & ages, growing under
 same tree (Calceol). I planted
 in Jan various ^{creeping} & only the
 "last hybrid" ^(calceol leaves) seems to be coming
 up, in one quite young thus
 but another a few inches high,
 it looks just like a young laurel.
 - wh. coincides with your last
 "Suep" (?) I do not thank you for
 your first wishes as to Hampton. We
 feel now free now as if we had
 a state and a country -

they preserve very little at our hands - but with
 that cool -

you will see that he had acted so badly
 his blood to the blacks
 but in truth they
 to all his citizens -

I do not know what to do
 I do not know what to do



I enclose in pamphlet *Panicum* *W. Tatum*
from New York - did I ever send it before - haven't
seen it for some time (Bluff New York) C

Rec June 8th

3 June '11

To Engelmann -

Many thanks for the sp.
of *Gonolobus* which you enclosed.

I had no idea such things
were so beautifully & carefully pre-
pared - but then I never in my
life looked into a good Herbarium!

But even with the help
of the leaf & the fly I can't for
the life of me tell where I got
it! Strange! for usually I remember
such things accurately. For miles
on the roadside I have examined dif-
ferent sps of *Gonolobus*, but only
hirsutus is found, a number de-
-rains only one other spot. If
that fails, I'm done for!
You will remember that I thought
I saw the smooth folioid kind
at a certain place "before the
war". I even went there (tho'
I had but little time to examine with
care) but I could find not even
the vine. I have as you desired
collected several good sps of *Gonolobus*

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as with which we can publish it all new



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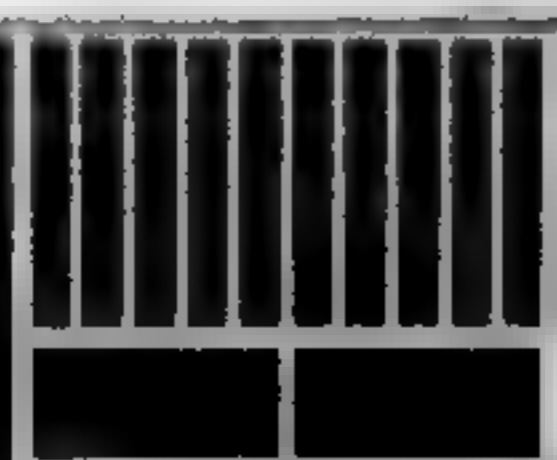


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& when they are dry will send them
 on. Colour is perfectly un-
 -reliable at least in hercules.
 I saw them yesterday, all turning to:
 - better with gls dirty purple, black
 purple, - yellow, greenish yellow, ~~the~~
 straw col^d - with all the interesting
 variations. I enclose you some.
 A relative in S.W. Georgia - a physi^{an},
 *permises ~~me~~ to send me all about
 him - will send them to you.

*I have carefully on hercules
 stalks can send for male fls
 and of that more stalks
 me to be seen.

And so the *Oaks etc^s shall come
 coming and will not down
 at your bidding! They demand
 a solution of their own mystery!
 The Sphinx used to devour
 them for ^{remember} ~~tear~~ who cut me
 read her riddle, so my etc
 I hope they won't eat you up!
 This is a kind of "open secret";
~~but~~ this has to find the clue,
 but you will find it, if any
 one does in this generation!
 I enjoyed the reading of that
 strange tongue, - tho' I don't make
 out one word! No! all I know
 of that great man I got from
 reading the works of his friends
 (tho' so much younger). A translator &



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interpreter to the English speaking people
— Mrs. Mrs. Carlyle. I long ago read his ⁶¹
transⁿ of Wil^m Meister's apprenticeship
& his Auto-biog from some other hand.
For my part, I somehow ^{was} always chilled
by his frigidity & impassivity & his all-
— wisdom! And then he writes about any-
— thing — the villainy of his own heart — or
his own love, or his own self-sacrifice, —
— anything whatever, for what? — for
Culture's sake! Still, I suppose if I
could read German I'd reverence him
like the rest. I remember a few
things — such as "Die Abergläubere
ist die Poetie des Lebens" &
much about "Zeit-Geist" & in
Matthew Arnold's work & that
the form Faust?

"Thus at the roaring loom of Time &
the wave for food the garment they seest
him by"

Order & Chaos & the hiss on the
wall" — the changes & the changes
of life — man's thoughts — man's
DEEDS — nature's convulsions & revolutions
— all are ~~words~~ woven shall we
say in that terrible loom?

Who is S. A. Batelin — Bot. I suppose
to Royal farms at St. Petersburg — I help
out on ~~the~~ his art on insect ~~of~~
eating plants — as I can't make out
one word, not even such delicacies



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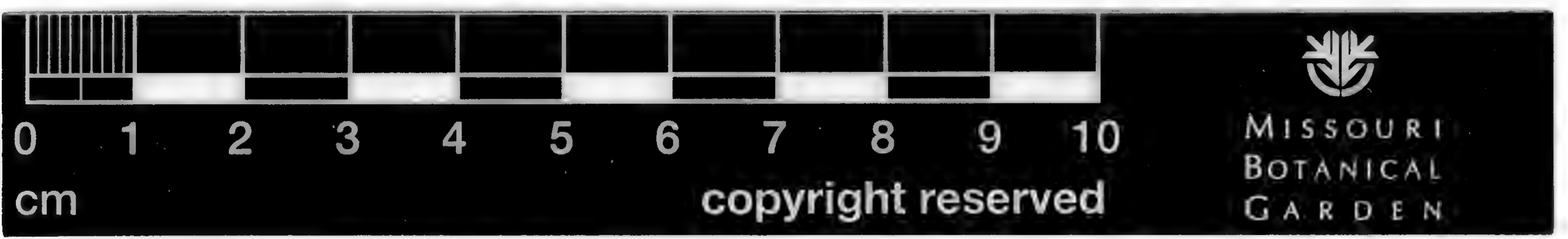
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1179 gmm 61B
 as Wachstumsbeschleunigung, Empfangskente
 ce ce. This B. writes in German but
 says his name is French! - possibly
 he comes from Prot. Stoeck - a great many
 Frenchmen went to Berlin as I believe after
 Rev. Edict Nantes, & did well, as they did well
 & prospered everywhere they went, with in Eng &
 Am. But I suppose you have already seen
 his pamphlet.

As I at the time (I believe) kept you
 informed of some experiments on Sac
Variolans, I wish to say that last fall
 I read an article on the same in Harper
 & was great in which she reassures the opinion
 that the sweet exudation at the mouth
 of the leaf tubes is steeping & intoxicating
 to insects. I again on four occasions
 carefully - faithfully & patiently have tested
 the matter again, by tearing off the sweet
 & viscid portions with when fresh & when
 kept a day, & filling a newspaper with
 them & placing them flat on a table.
 During one hour I watched the flies (house)
 eating - sometimes they went flat for ten minutes
 in one spot & during that time there was no
 indication (not the faintest) of intoxication or
 tottering in them. They came, eat, & flew
 away. If intoxication makes them fall, within
 the leaf, why not when they eat the same honey, flat
 on a table? Why should they not fall when eating
 outside on the wing? I have repeatedly seen insects
 of diff kinds feeding there, I never saw one drop
 nor have I ever seen dead or stuporous insects
 outside at the bottom of the leaf. I tried the
 same expt again with nests of the large ant &
 with precisely the same result. The fact is from all
 that I have seen, I conclude that the idea of the
 sweet secretion being in any way toxic is a mere
 fancy & hallucination not born out by facts. I send
 a letter on subject to Dr. Gray & it he thinks

Viscid in fit condition for
 was the secretion
 of S. V. sent
 from leaf
 will see from leaf

tell him
 point
 it
 can
 while
 with



61 ✓ you will much oblige bth
me by examining the bulbs
I enclose. They have
already blown this year!

I have no idea what they are.
Brought to me from the edge of
a low, sandy, unshaded bluff
near the ocean. The wild lettuce -
onions &c (Allium) are now green.
Can it be *A. Carolinianum* - for
the small bulbs are clustered around
the main bulb? - It is not a

Panicum. What can it be?
I thought I was familiar with most
of the *Liliaceae* &c about me.

A queer situation! A friend found
~~some of the bulbs~~
which had fallen from the little
bluff on a ledge near the

ocean, & some by digging found
others - growing from 1 to 3 inches
in the dry sand. *Podostemma*,
Asclep. *Angustifolia* (Elli) & *Panicum*

also sent. I H m
I have thought of *Hypoxis filifolia*
(Elli) but saw to grow in dry sand
soil on Cumberland Island &c - but

that is a tuber.
Don't think I sent *Thaspium*
Aureum before.



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The flowers on I may say the petals 62
of this Bluff Man ^{some}
are purple at base
with greenish (June) ^{or greenish}
yellow tips - hairy
W. Engelmann ^{and recurved.}

Rec June 11th
As seen by my Frank

I think now
I am entitled to cry
out Eureka, for I have
just found the bit from
loves which I sent you
in 74! - and where do
you think I found it?

Where else, but in
my old burned lot, through
which I happened to pass this
morning! On this side.
Observing a delicate
looking some vine
of some 2 or 3 feet
in height only - with leaves
resembling those you sent

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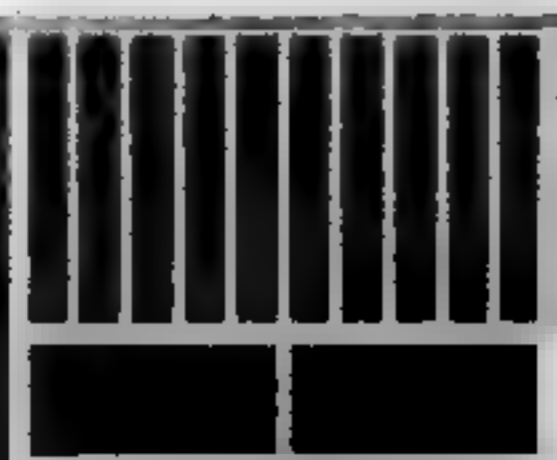
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but tender & white veined -
I was satisfied I was on
the track, and it was
not long before ~~before~~
I "struck". The mother
vine - only a few feet
off ^{twining} on a young sapling
which had run up from
near the bricks of my
old kitchen chimney!
This vine was just blooming,
but I did find no old dried
follicle of last year.

Continuing my search
amid the trees & shrubs
& vines (for it is all
grown up now) I found
several others, on one
of which only did I find
the fruit of last year &
this I now send you.
It is smooth and stangled.
But when is that corky



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condition which gives the name? I do see something ^{62^a}
~~but~~ at the base of the stem,
but isn't that on the
spring follicle also? I haven't
one to examine. The enclosed
flowers therefore and the dried
follicle are from diff
vinces! The enclosed leaf
~~is~~ goes with the flowers.

I have long been
mortified at my
~~to~~ discrepant statements
about ~~the~~ having seen & not seen
the fruit of both maculata
& hirsuta - but I believe
I explained to you how
it was, ~~that~~ before
I was when collecting
seed & plants for a friend
(who had promised such
to Mr. B. C. C.) I do
remember getting the follicle
of a ponotus at Prichard's
blanch ~~at~~ at this distance



With a very windy & boorish letter last mail. I trust you will have it.

62B
I think I thought ^{was, or} a minute -
The smooth 5-angled species.
Now although I afterwards (in my
haste?) did say that I had
never seen such, I think now
that my first impression was
correct although so many
years had elapsed. And I
am inclined to believe that these
vines in my old garden of *Macrophyllus* (up to this time after
careful search I ~~can~~ have found
such no where else about here!)
— came from the ~~seed~~ ^{fruit} follicles
I brought ^{with me} so long ago & which I had
expected to germinate in the garden
of *Plantis*. When we left our home
here my office was full of the collections
& seed to be sent, & as a carpet took
soon took possession & scattered everything
to the wind & scattered my *Macrophyllus* seed.
When I fell into the shrubbery & it is likely
that the plants I now send are the ones
which succeeded of the same. Am I
yet justified? — tho' I acknowledge
to the cause writing & thinking.
I have sent plants like you to Dr. Gray
as he writes me now last fall.
As soon as the ~~seed~~ fruit *Macrophyllus* sps
are dried, I'll send, and one or two
from *Macrophyllus*, but I must be care-
ful, as I want fall fruit! I have
pamful misgivings that I troubled you

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



Rec'd July 10th

(3)

P.S. -
What's this
Polygala

Bluff Mountain
J.C.

Leptostachys? ^{sp. trill} 4. July 11.

To Engelmann -
My Dear Sir,

Your postcard came
last night, & this morn-
ing I hunted up the
little box & found your
letter! - Thanks! -

I send you now
a parcel - containing
the best sps of Sonchus
hirsutus I could get
from various vines, &
bearing diff. col^{rs} fls.
On acct of the mists
atmosp here they became
very muddy.

1. contains f. maer =
= phyllis from my

Macomb by the
found the

of f.

This folder of last year
and my second letter explaining

you did not certainly say - but I conclude you



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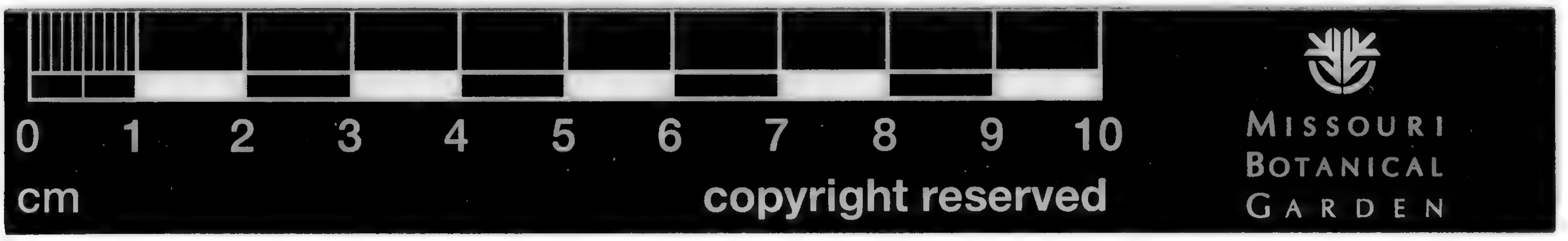
MISSOURI
BOTANICAL
GARDEN

6381

Cousin W. Cromwell
of Albany Ga. 11 an-
-tains leaves & fls
from this place. The
very young fruit and
fls in this letter are
from W. Cromwell.

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I shall watch the
two oaks you refer to,
another sp of the non-
stellate stellata you
-will find in the par-
-cel, - as also ^{falcata} others
of L. Cin ~~Cin~~ A.
Sanguinea has not
been seen for three (?)
years. No one will
ever again see that
plant growing. I have
looked carefully for it
not only when I first
found it, but whenever
I went.



you will find Helenium,
Gymnadenia nivalis,^{63a}
(an old friend of yours!)
P. pubens, Polygonum
angustifolium? (without fls.)
from rice-field banks,
and Melantherum V^m,
whilst I never saw
before. It is I be-
-lieve very rare in
the low country. It
was a very great pleasure
to me when I came
across it, a week or
two back - a long
distance off. I will
at the enclosed mon-
strous of G. hirsutus
enclosed, & others in
old almanac in
parcel!! Instructive!



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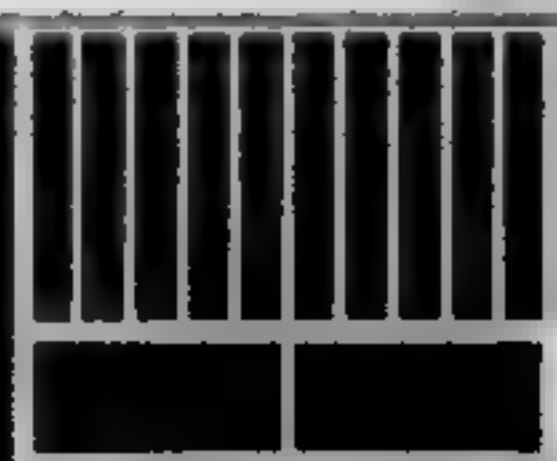
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63⁸. All the lure leaves in
panel are those of S-
hesulus. Rhexia lutea
I believe I never saw
before. Is it from these
Coke lutea discs or seas
on the Albany ga. sp
of S. M. print, - that the
name Suberosus is de-
-rived? My vision you
see improves with yr
glaze! I send anti-
-anthem also I think.
I believe this is one of
the hottest days I ever
kpt in my life - the
negroes has all gone
into the woods with a
big drum, to dance (!)
and eat (!), and the few
whites - young people, (my
two among them!) a-yachting
to Danverskie Gold. I don't
envy them! very truly
J. H. M.

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him eat the leaves need of the Collops

But you will think me an epineurist! Alas! we have nothing but the epineurist in receipt the few dishes the gods provide us with

The first chance I have to pass by boat I'll send said boats for you to Bluffton try - so

W. Engelman
myself
As you wish other

A better obs of S. macrophylla I send you some collected a few days since. I found them at an old place on the Colleton River - wh. I had not visited for some years, - growing under live oaks on the edge of the marsh, among pines, palmettos &c! No young fruit as yet, and only one follicle of last year found, - just like the one I sent you some time back. The leaves in the parcel are from

black mud or bog
black mud
collops
of the same!!
of the woods. I can live
whining, waterholes, Palmetto pickles we esteem

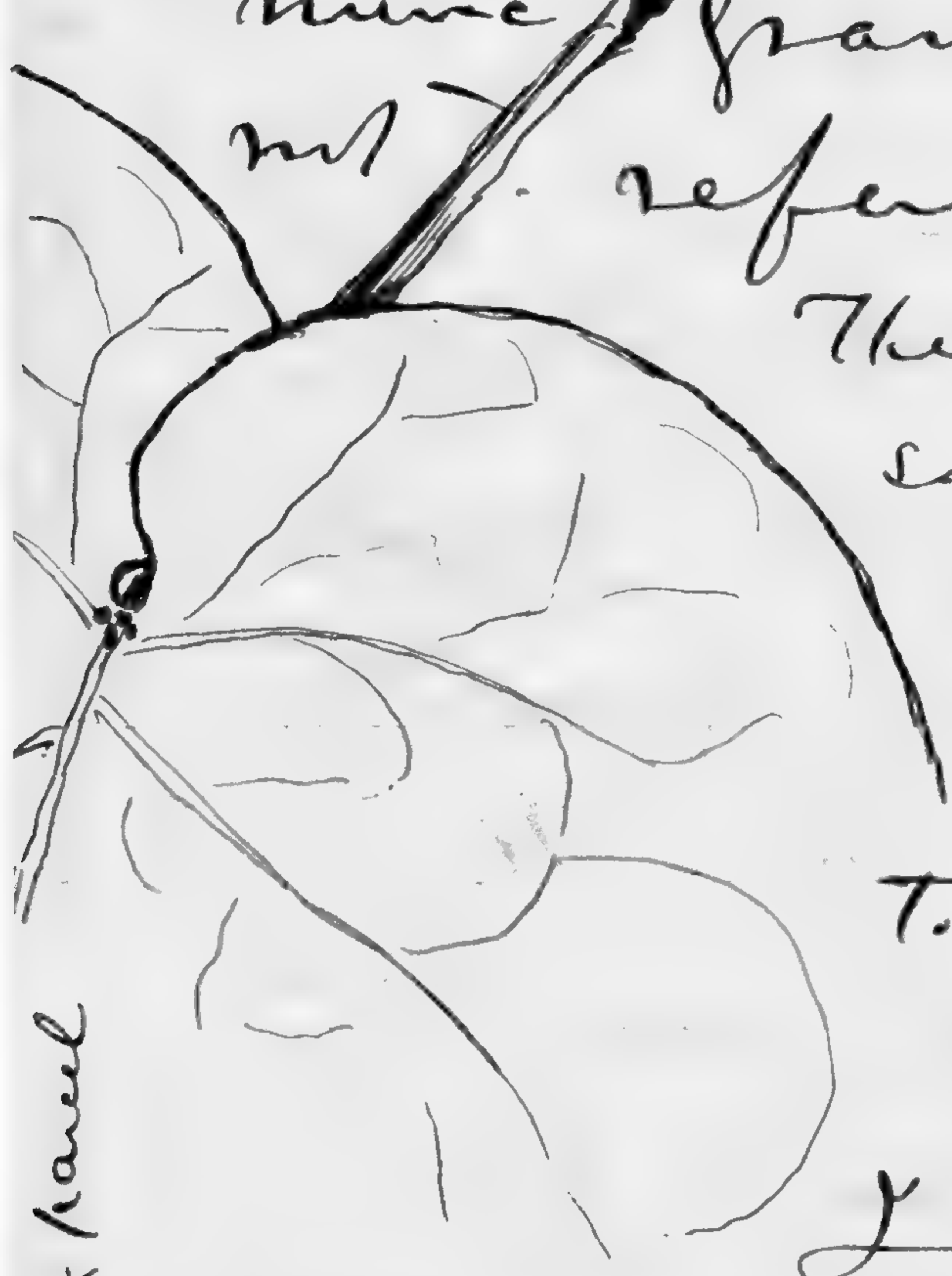


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on the 4th. What do you
think of this? It seems to me
must be most instructive.



I sent you letter & parcel
think of this

the same vines. I observe on
these leaves - just where the
petiole joins the blade, two,
three, four, (and rarely five)
purple glands (?), or, what shall
I call them? - rudimentary patches?
I don't see this alluded to in
Dr. Gray's Bot. contributions - the
name "granulosa" surely does
not refer to this condition!

The purple colour changes
soon to brown when
drying - you don't
I mean
to say that this is
the Duber! which
I wish to remark,
and my language is plain -
that I can't find that cork
any where satisfactory! As
for those cork like granules or
discs of the peduncles they are
the spots from wh the pedicels
dropped, and are to be seen

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in hirsutus as well. ^{64a}
It may be that the half
brown follicle will show
something tuberoso — at
any rate I can't say I
see anything which could
give such a name!

When I first saw these
purple grains, or glands
or prickles — on the leaves
of moerophyllum, I thought
they were peculiar to that
species and they are more
prominent & better marked
there, — but, I find ~~it~~ them
also on the leaves of
hirsutus. I wonder if all
the species have them? They
might be easily overlooked
on the dried leaf — but hardly
on the green! I state that
that I found these Vines
among yuccas & palmettes or

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generally eaten
merit!!
The cabbage is an
excellent diet
for the trees is
648
any man wants
the "butcher"
artichoke

Of the former I saw *M. alisfolia* in bloom & also with
young fruit - *promuba* in
the flowers; - and a few
feet off - just on the margin
of the salt marsh - the finest
sp. yet seen of *M. bracteata*
in bloom - the stalks clothed
almost - as before related.
Flowers very large - leaves very
long - I send lbs of both.
Whenever I go in this section
I find *angustifolia*, *bracteata*,
sterigata preserve their ancient
characters - it was only
at Puyublay I was somewhat
stumped. Here they are always
beechen & well marked.
Many thanks for the lbs of
Nasturtium - indicating the
struggle " No! I have never
met with *Isolis* - she. I see
it will let you know. The other day
I saw my m - fixing up patches of
the heart of the large a Cabbage pal-
metto. I think they are first rate,
I told her to fix up a batch for you.
It is possible you have never tried
them - I wonder they are not more

tribe in eating the same but
Cabbage palmetto swimming in butter!
The
without
The tender heart
him eat

But I will think me an excellent! Atal! we have nothing



Starkers, 1911 - anarchy! - I sympathize } as that there } was
firms } end in S. of } to put down } the } community } a lazy
trams, } or where } they } are } Americans } will new } cease } (thanks } for } their } self } -

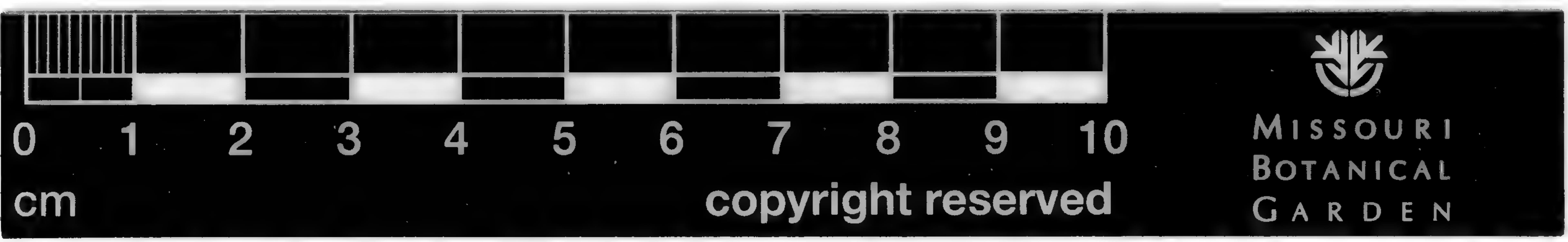
Recd Aug 14th
as 2 14th Bluffton 65
S. C.
2 (air)

Mr. Engelmann,
My dear Sir,

I have examined
several trees of Pinus Elliottii
as you specify, & it seems
to me that there is little
or no space above the cones
free of leaves. I do find a
few bracts empty of
leaves, and this is the only
approach to the con-
= ditio observed in P.
Serrata & other pines.

A few (and only a
very few) of these empty
bracts may be found
above the cones, but
the most you will find
at the base of the re-

sympathetic - exuberant - shrubby styles & become more modest!
- stark western of all kinds have they yet to base - but they are sent to it.



- curved cones -

These

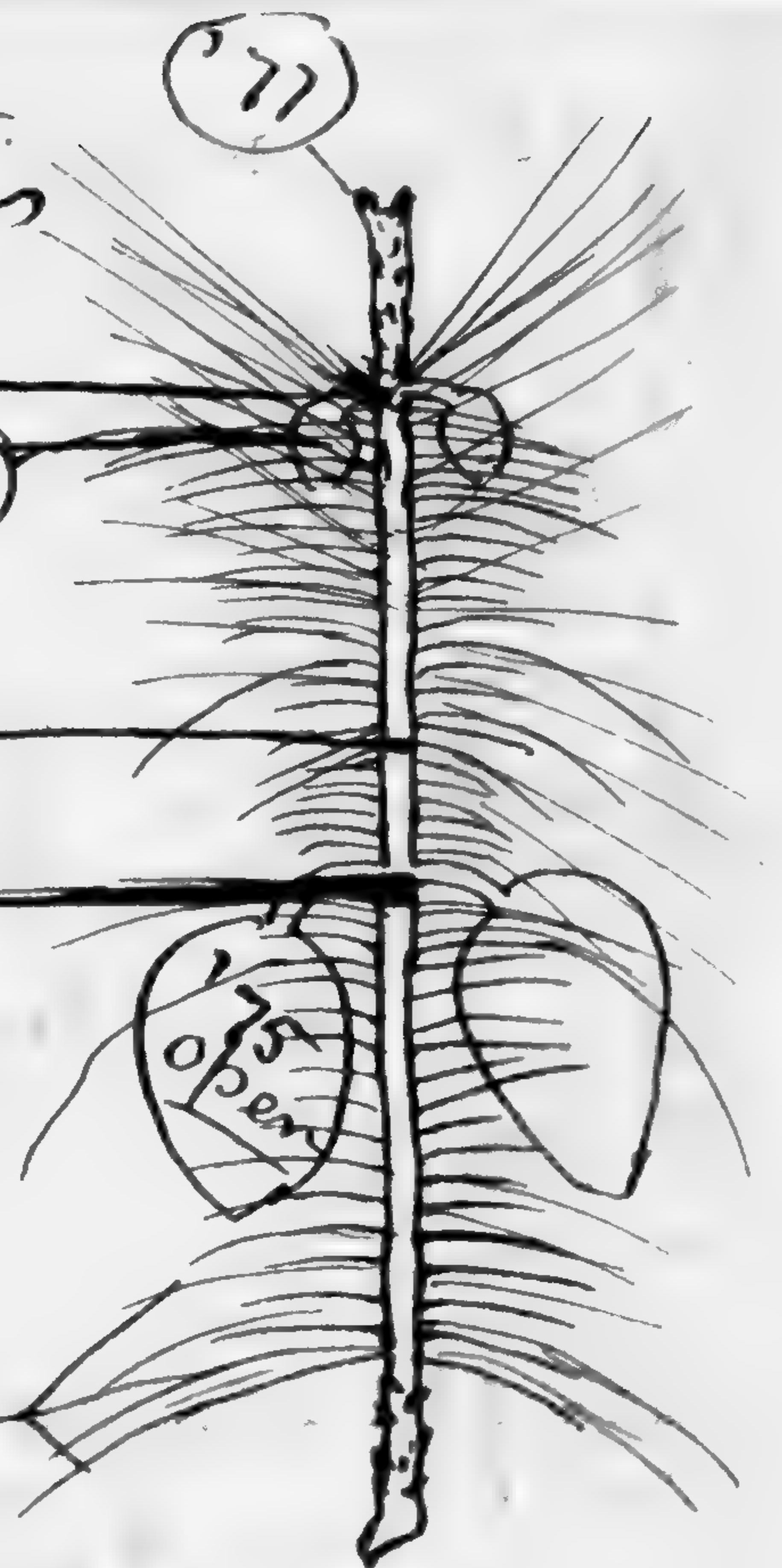
empty bracts

empty bracts

empty bracts

From a dried sp of *P. ell*
(Sawling) cut last Spring -
March I think.

leaves still adhering



But I send the sps you
want with green cones with
of last & this year - you will
keep them to grow & judge
for yourself! From a young
vigorous tree on edge of a
field a few feet from the
river.

In some ^{old} dried sps from old
trees which I've just examined,
the leaves seem to be crowded
down quite close just above
the young cones, with no
empty bracts at all. I
will send these too, but by
the time they reach you

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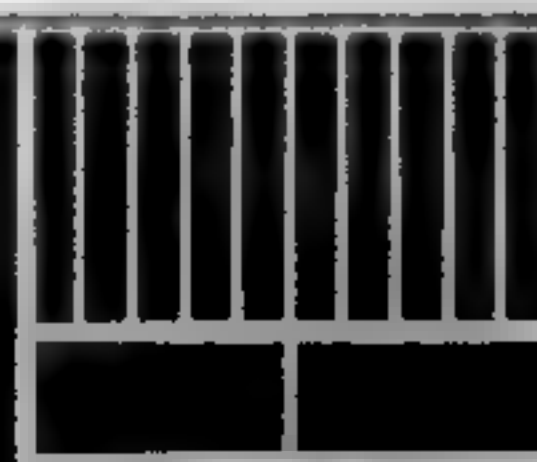
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they may be all lure & mutilated
Lure at the one with male⁶⁵
ants. I say old trees, that
is my impression.

My truly yr

J. H. Munro

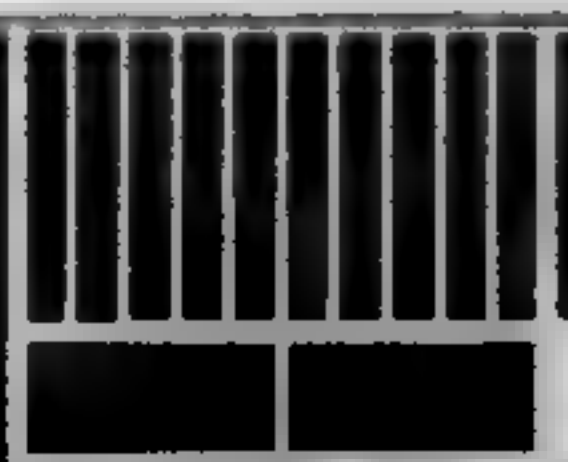
Your remark from the
Gardiner's Chronicle that
zoologists & naturalists were
soon begin to study dam-
-thing else besides bird skins
& dried plants, recalls some-
thing very diff I suppose
from your allusion, and yet
the thought is always being
faced upon me, — so for
the mere fun of it I'll
quote what amused me
so much — from "The Sage of
Cincinnati" Essay on Beauty!
So here goes — "Our Botany
is all names not powers;
Facts & Romances, Talk of herbs of
Grace & healing, but what does the



But must know of the virtues of his
weed? We should go to the ornithologist
with a new feeling, if he could
teach us what the social birds say when
they sit in the autumn council, talking
together in the trees. The want of sym-
-pathy makes his record a dull dictionary.
His result is a dead bird. The naturalist
is led from the road by the whole distance
of his fancied advance. The boy had
juster views when he gazed at the shells
on the beach, or the flowers in the meadow,
unable to call them by their names, than
the man in the pride of his nomen-
-clature. Buds & stamens & spores, on
-which we lavish so many years, are not
finalities, & man when his powers un-
-fold in order, will take Nature
along with him & emit light into all
her recesses.

The collector has dried all the
plants in his herbar, but he has
lost weight & humor. He has got
all snakes & lizards in his phials,
but science has done for him
also, and has put the man into
a bottle! — and much else!
Now all that is pretty transcendental,
but it is very well to look on that
side of the question! —

But will you ever pardon
me my folly for taking up your
time in reading such bot^{ic} or
ornithological strictures?!



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Recd Oct 23rd Bluffton SC
and letter Nov 21 1905

66

My dear son, I've planted in
one time with the oak in-
-crease - what I have already
planted. The acorns remind me
much of I. foliolosa. This is
the first chance I've had
to write. For the past month
I have had but little opportunity
to indulge the Quercus fever,
- indeed, I have been terribly
uneasy on account of the illness
my wife who is at last
up! What with loss of sleep
at night, and looking after
sick people in the day I
have been most handicapped.

But things are I be-
-lieve getting all right
again - and I take a
long breath! - When
I last got these acorns
for you of the varieties (?)
of I. stellata I observed
that there were very few

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on the trees, - especially on
 the glabrous one. Palping the
 latter last week I could see
 but one acorn on the tree although
 it was full in the spring. Will
 endeavor to get one or two from
 both, also from Cinereo-folius
 wh. I haven't looked at. I
 lately picked up one or two things
 wh. are hardly worth sending.
 Herbs, but I place them in
 the "American Naturalist" & a
 copy of Polydium meaurum
 from an enormous list wh. I
 happened to study at "Bull's
 Isd.". This last you will find in
 cover in brown paper. Also
Mazae Michxii, - Herbertus
Cenobium, & Vigna glabra?
 I'm not sure whether I've sent
 them to you before. This last I
 found on edge of Salt water at Bull's Isd.,
 but it abounds on the rice field banks
 on the San River. Please if you
 have time read what I had to say
 in reference to my Treat's observations
 published in Harper's last year on the
 San. Vanillan's question, and if it happens
 to come in your way I'd like you to
 give it to Prof. Riley (in case he has not
 seen it) because he rather endorsed my
 view of the matter & one doesn't like to
 be caught napping ~~in~~ in such matters.

I'm not sure whether I've sent them to you before. This last I found on edge of Salt water at Bull's Isd., but it abounds on the rice field banks on the San River. Please if you have time read what I had to say in reference to my Treat's observations published in Harper's last year on the San. Vanillan's question, and if it happens to come in your way I'd like you to give it to Prof. Riley (in case he has not seen it) because he rather endorsed my view of the matter & one doesn't like to be caught napping in such matters.

Please Mr. A. S. Hitchcock present environment.



1st I place in the parcel a
not very young plant of
Spem Michxii - why not try
to cultivate it in S. I? It
is well worthy of cultivation. The
root I believe runs up to 40' &
50' 16, - but I don't think I
ever saw one over 20' or there -
abouts!
J. H. M.

66
*



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GARDEN

Acc' March 2 Bluffton SC
Ma - 7

23 Feb. 1878.

67

W. H. Engelmann,
my dear brother -

Thanks for your kind
letter & the accompanying
pamphlets. In reference
to these last I venture to
send a portion of Mr.
Ravens' letter with ^{the} excuses
what I myself feel with
great heartiness and sincerity -
if you will pardon
my overboldness! -

Some two weeks since
Mr. Curtis sent me a
sp. of P. Elliptica in bloom,
from the neighbourhood of
Jacksonville Fla (I suppose)
asking me, whether it was
P. Elliptica or P. Tædia. -

I had no doubt that
it would be found in Fla



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Especially as Mr. Condy be-
-lieves that he has seen the
tree there. Mr. C. also
sent a sp. of P. Toeda wh^{ch}
he supposed to be P. mitis
- but he seemed doubtful.
There was no doubt at all
of its being the former - its
three leaves and unmistakable
cone did not differ in any
respect from our "old field Lob-
-olly". I was somewhat sur-
-prised at his hesitation, for
certainly the two pines are
very different. But one
must look at pines a long
time to know them thoroughly.
As you will probably over-
-haul the pines this year
and among them our old
friend P. Elliottii - I sent
another & last (?) sp. in
bloom! On many of these
pines the pollen has already
been discharged, and the
aments are now dropping



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on the ground. Certainly this ^{67a}
pine is always our earliest
bloomer & the soonest to drop
its cones. Last week trav-
elling a very sandy road
over which I had not passed
for many years - I met with
a clump of broad leaved *Yucca*
filamentosa which had evidently
bloomed last year. I sent one
leaf. Whenever I go in my
little town of "say twenty
miles - the four varieties" of
Y. filamentosa which I have
so frequently sent you - still
hold them on - presenting
all of their characteristics.
At Purysburg however you
may remember I was some-
-what puzzled a few
years back. The pine
cones of *P. Australis* were
taken from a tree just
cut which I happened to
pass on the O'Keefe.
They seemed somewhat peculiar



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GARDEN

678.

from the exsurgere growth of a few of the upper scales. All of these young ones which I examined were so. They were Alorifolia st. I cut this afternoon on Hunting Island, and the new growth as you see is immediately next to the old fl-stalk - no leaf intervening.

Very truly & respectfully
Yours
J. H. Munchamp

P.S. I sent Mr. Curtis small stks of all your pines - mitis - glabra & the whole of them! I am not sure what oak leaves you refer to, - certainly I never sent you D. lyrata at all last year. I expect to take a look at that green oak at "Beech Hill" - nice planting this spring & report. I have not seen it since I wrote you about it - a very green tree! I suppose they had a grand day of it yesterday in Chgo with Hambleton (22^d) - "consul" Hayes - not Grant - who so troubled our spirit last yr!!

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GEORGE ENGELMANN PAPERS



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1. The thought I imagine has matured & other the aments & they being full of 1000 grains

I had previously seen a branch or top of a pine tree under a subtle "Smilce" with pollen, but I never before saw a replica of it or was this peculiar appearance I witnessed. Even if smilced

was ~~not~~ mixed with it (with I don't feel at all sure about) I am certain

My friend vector

Bluff New T.C. 69
6. April 8
Wm. Engelmann

That an air -
- mence quantity of
hollow & mixed with
it. I am sure
that the sensation
in my eyes & throat

I need to tell you some time back but I thought it best to wait for the flowering of that glabrous leaved *Stellata* (*Abies*) before writing. About ten days ago having the spot I examined the tree carefully & to my sur-
prise found that there was hardly an ament on the tree. It had evidently not bloomed in any profusion for I found no flowers on the ground & none (dried) on the branches as is frequently the case. However, I at last espied three or four aments on a lower branch which hardly seemed mature enough to take - but not knowing when an opportunity would offer again I deemed it best to

was not that of smilce!
H. M.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



you inquire about those *recurvifolia* (yucca) you sent me
long ago - has a stem 6-8 inches new

secure and prep them wh I have
done & then I will send with
freshly plucked branchlets (today
On the very youngest leaves you
will see a rather sparse stellate
pubescence but evidently it gets
rubbed off in night winds for there
is none fit to be seen on the
fresh & older leaves picked
today. When I read your letter
I was amazed - almost stupe-
fied at the thought of that
Beech Hill tree being lyrata
for such a thought had never
entered my head - since then
however looking at the leaves
you send & knowing the variability
of oaks (an uncertain fact)
I think it likely that it may
be lyrata after all. But I
feel by no means sure - my
notion was that it was a
hybrid. But I hope to settle
it this year sometime. A young
friend of mine - a lad who
has been to work down there
has promised me faithfully
- this was 2 weeks ago -

all
think they know very
but have never thought
I am



discharge of the yellow dust. It was
 everywhere, in my piazza - in the
 mouth, the river, - the roadside
 - all about, & one coming from New
 River I saw what I took to be
 a regular pollen smoke or cloud
 in the wood - looking like greenish
 smoke! The wood it is true was
 burning & had been burnt everywhere
 - the drought too assisting, - but, &
 this remarkable appearance I did
 not suppose to be smoke - but pollen
 I knew as it was wafted along
 the road my eyes felt it & my throat
 became rough & the grains ^{under glass} in my coat
 in the vehicle wh. I examined were
 pollen grains. But one would have thought
 it smoke at first & of course it may
 have been, a pollen & smoke but I
 think not! Having to write to Prof
 Sargent I alluded to it briefly & when
 by my letter last mail he found that
 he was going to publish a paper to
 what I said in the bulletin - he
 mistaking what I said as to the
 greenish appearance of the pollen
 cloud & the greenish hue of the
 roadside mud when the pollen was
 incorporated with it & when it had
 remained long in the damp fields -
 and thinking that I meant to say that
 the pollen was green - wh. he ~~to~~ said
 he had never before heard of & that you would be
 glad to be informed about it, I never saw
 any pollen wh. was not sulphur colour. I
 immediately wrote to Prof S. - so as to correct
 his misapprehension but the letter had not gone

were just ripe for the wind wh. hatching to come like a pale in the
 of Australia (Godea?) shall it out from thousands of trees, & so mass this greenish pollen

amounts & they being full of pollen grains



April 1878

* ten days back 68

The parcel contains —

{ spec of leaves & a few aments of
of the glabrous stellata, (obtusiloba)*
and of branchlets just plucked.

{ One set of 2 stellata with glab
anthers — sent you last year —
(Hail storm!) — just plucked.

{ one sp of seedling of 2 Michxii
planted by myself.

{ sp of N. elliptica with the young
cones now recurring!

{ Some more leaves of the var:
of Yucca filamentosa — the
finest & greenest & most wh. an
with the outside has just been
sent me from a place on
the Oceano. At first sight
looked almost like gloriosa
but I believe it to be bracteata



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Another must pale & smother ^{68a}
with very long filaments I found
some ten days or more back in a
high, dry & sandy pine-barren.
Although so different I believe that
all to be brachyotus! The other
is the smooth larigatus from
a little island in maybikes. But
these various sps are unsatisfactory
to you perhaps as they are not
sufficiently fixed & defined?!!
The parcel has a most im-
-posing W.C. & yet I fear
there is nothing in it accep-
-table to you! I shan't about
these young pine cones not
appearing in the parcel last
sent! I know I put them in.
- riddled in the mail - "les
Misérables"!!

J.H.M.

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MISSOURI
BOTANICAL
GARDEN

Rec April 24th
1878

69 II

Bluffton 70

22. Apr 78.

79. Engelmann -

My Dear Sir,

Yrs of the 14th

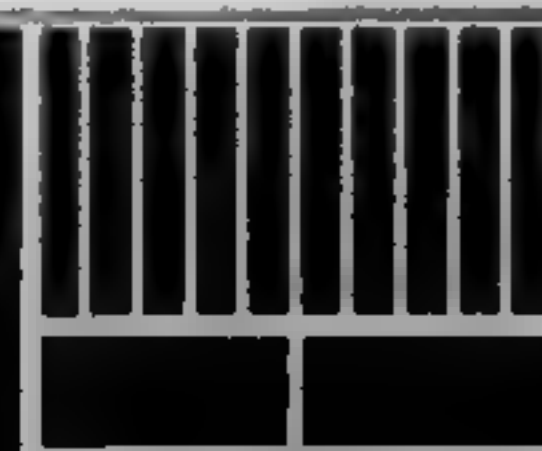
of the 14th duly received. I have looked for the dwarf D. stellata today but found most of the plants burnt. The one however from which I have before sent you sps was in fact with a few dried aments still clinging.

I have prepared it & when dry will send.

Although this special sp is not over eighteen inches or two feet high

& has fruit yet I

have sometimes wondered



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Whither These small shrubs
 are not runners from
 larger trees which have
 supported for years from
 burning. In some of
 * these places I meet with
 the small stumps of
 Q. stellata long black
 & burned & which are
 shooting up. The small
 dwarf shoots may be very
 young but they may have
 ancient roots.

* You tell me your brown
 & I don't trust oaks either now!
 I don't know - but no more!

Although you have no
 interest in that Beech
 Hill oak (feeling so
 certain) I have, and
 I intend to hammer
 at it until I feel
 * assured what it is!
 I expect sps of it
 soon & if so will



697^a
sent them to you.

On the tenth or
eleventh of this month
(same time last year?)
we had a hail storm
wh^{ch} beat down many
fine sp^s of Simulata
& the laevifolia hybrid.

I have collected some
of them) & may send them to
you. It is no harm
to re-examine such
from year to year.

By the by - the
hail stones were the
largest I ever saw.
Most of them were
as large as a "guinea
hen's egg" - a large
number as large as a
hen's egg & some of



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69th
I regret that I did not set
Poelet at that point in
of cones

still greater size
Yesterday having leisure
I collected sps of all
the pines, & I send them
as again indicating the
remarkable peculiarities
of P. Ell from the rest
as to the its provenance
what you called my
attention to long ago - viz.
the early ~~the~~ bending down
was of the long cones - close
to the stem. It differs in
this respect perhaps from all
other known pines? But I
fear I may burden a woman
even myself with too much
repetition of sps!

- I is P. mitis - young tree.
 - II is P. flab. - sapling
 - III is P. taeda - (last spring's cones are
now not yet bent
down thus)
 - IV is P. Serotina.
- one sp. with two 5 leaves tied to stem with
a red string is from a sapling 8 feet
high - examine for sweet leaves.
P. Ell - the others from old trees
& P. aust unmarked. a sp of P. Ell

from the growing young saplings - all pressed in half - in length



Rec May 28^o
a - 31

Bluffton T.C

70

22. May 1878

To Engelmann -

My Dear Sir,

I send you three things
 numbers I have read the
 skin of cork from Beech Hill.
 The last from the bark &
 leaves, etc remains in my
I stellata - ~~the stellata~~ the glab
 variety. I lyrata has sepals
 across has it not? - but
 that is not much. Please ex-
 amine & certify that this
 not I lyrata but some
 hybrid ^{of 2 stellata.} ~~of 2 stellata.~~ !!

The 2. stellata Dray O
 had only a few fls & they
 dying in the stem. This sp
 is the smallest I have ever
 seen (you have almost the
 whole size) & the smallest
 leaves.

After the pine land has been
 burned, one may see for a
 long distance shrubs like I,
 - occasionally, a tree ten ft high
 with bark as I, - ~~sometimes~~ sometimes

MISSOURI BOTANICAL GARDEN
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Rec Bayfield Aug 31st
Aug _____ Sept 1st

Dr Gray was so kind as to send me his new Flora - wait that kind? The

many pine barrens
many miles off
amount of them
I had been
waiting for.
I sent it to

Burton
Spring a
11. Aug 18

The most
of in river
shooting up
a 'skating several'
inches.

Engelmann,
Frank
A young friend
just from Sav.
Riv - or rather from
"Beech Hill" I asked
Sey - has just given
me his parcel of oak
leaves when some time
back I begged him
to collect. They are
from the same tree
you wrote for - (sp
you sent) or in
the spring) and are
taken from every portion
of the tree. I had hoped

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71a
to get acorns for you, but
he has no more now
to be found. I don't know
if these leaves can tell any-
thing more - but I send them,
& also others from the flat!
another I stellata which
been blown down some six
weeks or more ago. I can
get you acorns of this later
as it is bearing abundantly
now & comes on the flat
leaves I stellata. I enclose
leaves of Junonia suberosa
with a fungus. I found Vines
covered with it (not about here
but in an unexpected place
on the edge of a new-field.
I thought I had "struck" some-
thing new - but Mr. Ravenel
says he found it long ago
& that it is Puccinia Junonia;
"Rav." I don't know if you have
seen the enclosed letter of Gold Collinon
in Darwin's Book but one day I
wrote it off for you as it seemed
worth reading. The best star is
raging a fine flat to stop - but come
heat or cold I am always B. L.

Mr. Ravenel's letter
is in your file



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MISSOURI
BOTANICAL
GARDEN

Rec^d Aug 23
Am Sept 14 Bluffton

S. C. a

18 - Aug 1878 -

To W. Engelmann -

My Dear Doctor

Last week I sent
you a note enclosing
Mr. Barnes' Puccinia
gonolobi found on vines
of S. suberosus on edge
of rice field. That fungus
is not found here on
Salt water.

Learning from Dr. Gray
that you had gone to Lake
Superior - to Cool - I
did not send the parcel
with books from Beech Hill.
I concluded to wait until
you returned home, and
for another reason also I



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201

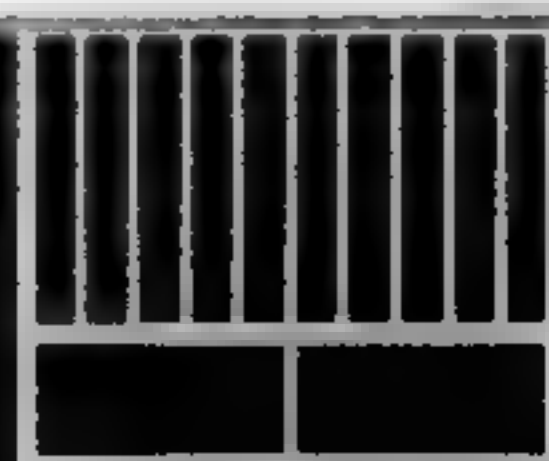
delay, as I am just drying
some fresh oak sps with
abundant fruit of the same
glabrus J. stellata wh^{ch} I
first sent you two years ago -
mature fruit of wh^{ch} you will
remember I failed to get!

Hybrid trees it seems to me
must necessarily be scarce, -
"sporadic", - perhaps some-
-times there may be but
one sp of a certain type
growing in the East. But
if we find several trees
unvarying as to foliage &
fruit we may then have
to give up hybridity & call
the new trees "species", or
"variety"! Who knows but
that I may have to do
this with the glabrus
J. stellata !! Since
my last note I have found

MISSOURI BOTANICAL GARDEN



and carefully examined four ^{72a}
(no great number it is true)
undoubted trees precisely
similar to the oak growing
near here. And where do
you think? — Where else
than on a small island of only
five acres or so — away off
in the marsh near the mouth
of the May River! This place
formed the resting place
of sea-fowl & the haunt of
otters & raccoons, has been
cleared (save a small por-
-tion) by an old freedman
friend of mine, & is of
wonderful fertility. Somewhat
tired out with work &
melted by the ever pouring
heat I had a day of it
down there — out of reach of
all calls, & well was I
repaid for the outlay! —



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231

The island tho' so far away in
 the mud & marsh rests on
 a red clay foundation, & on
 the margin I saw various trees
 as Linden - Celtis, &c mixed
 with the usual growth of Live oak
 & Palmetto. I saw four trees
 of fine size of our Platanus
J. Stellata, - three growing on
 the highest part of the island
~~one~~ in the better cotton
 patch, & one on the margin
 so called over ^{me} in the marsh
 as to afford a abundant supply
 withy leaves & acorns.
 But I obtained 3 from all
 four & they were all the
 same. The bark on three
 was flaky - very much like
 the white oak, & precisely ^{like} that
 from the other sent you, but
 on one it was closer &
 not so much disposed to flake,
 - possibly a younger tree. As
 regards the flaking or not



72⁹⁸
flaking - the scaling or
not scaling of the Bark I
lay no stress on that, at least
so far as Q. stellata is
concerned, - because I have
seen trees of fine size which
were the undoubted "Simon-
-pure" Q. stellata & in no
way glabrous - with large - waxy
rusty leaves (at this season) &
yet their bark did not be
distinguishable from that of Q.
Alba. I have seen two such
trees growing within a few
feet of each other on the
Okatee - the one with bark
such as we frequently or
most usually see it in Q. stellata
- the other scaly like Q. Alba
- the leaves of both being the
same. Yesterday coming from
New River I again examined two
trees fronting each other on
each side of the road, the
one, being a pure Q. Alba -
the other a pure Q. stellata,



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735 both having the leaf - blaty
bark of the tree Q. Alba. I
assume that if you had been
brought up to the trunk
of the Q. obtusiloba stellata
without seeing the leaves
you w^old unhesitatingly have
pronounced the tree to
be Q. Alba. I cite this
instance as the trees afforded
me an opportunity of com-
paring them accurately
they being so near.

Well! we will now get
good fruit of this glorious
stellata in Buzzard's
Isle, my Riv, for my friend
-man Robinson-Cramer (Mr
Casper Morell!) promises to
get me a quantity the autumn
in the fall! I shall send
the sp^s whenever you de-
-sire me to do so, as
well as them (layers &
cuttings) of the enclosed
Alepiadaceae vine from



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the same isle, & wh I doubt^{73c}
whether it has ever been before
seen in Carolina. The northern
margin of this isle is a mass
of crumbling & decaying oyster-
shells brought there doubtless
hundreds of years ago by the
Red men & here I found un-
der the various trees this vine-
climbing some six or eight feet-
tangled, - intertangled & matted!
The minute flowers are greenish
or greenish yellow - becoming a
deeper straw colour when mature
& about to wither. I sent it on
to L. Gray with abundant
matted sps (so pleased was
I with my discovery!) asking
if it were Vincetoxicum
Serpentinum or what?

Had I Mitella Fraseri
or melina. The root is
fibrous. The st. evident has
young fruit. Growing in
the shells with hardly any
vegetable matter I found the
other plant (leaf enclosed) wh



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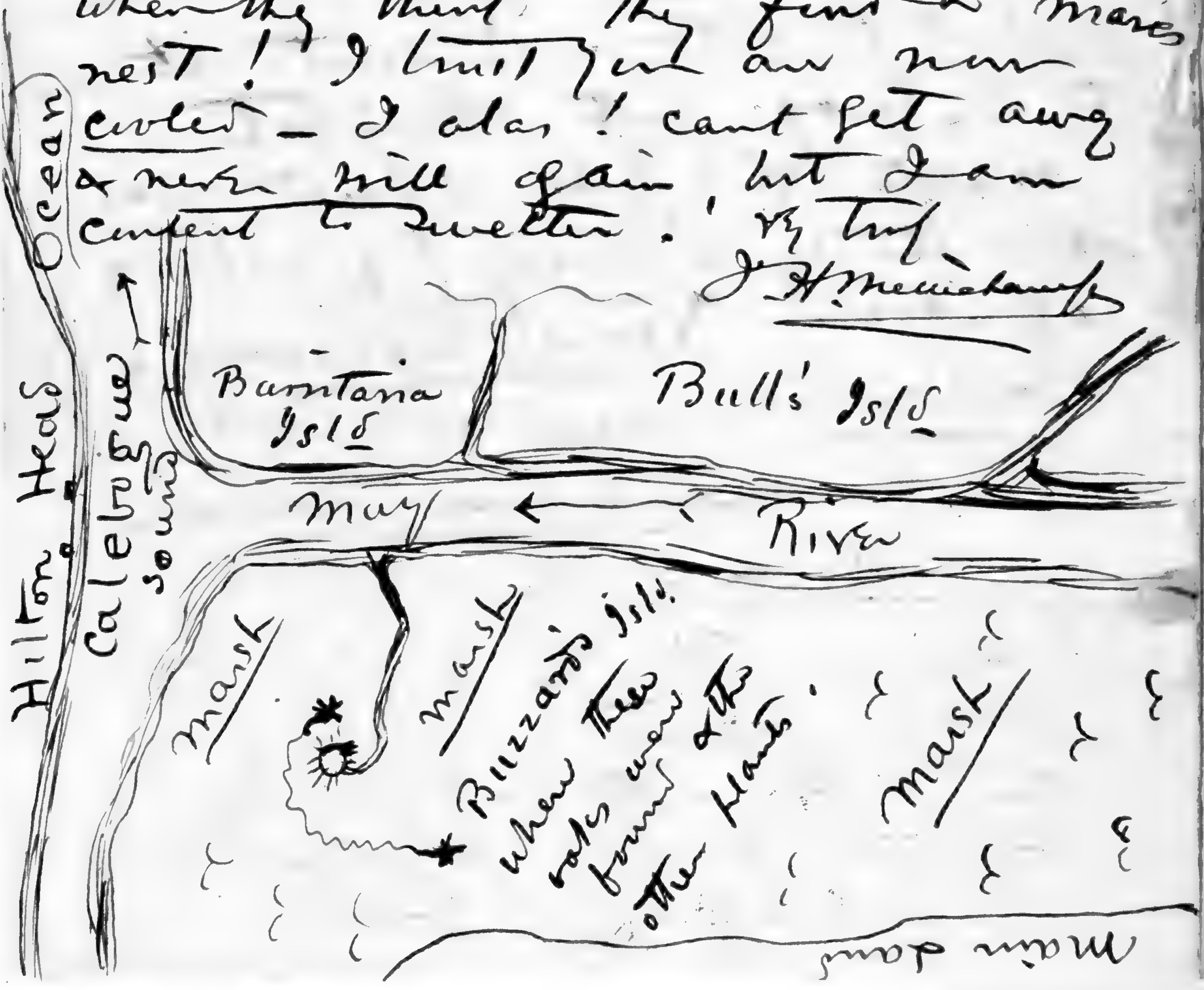
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12^b almost certainly cultivated &
 must belong I suppose to
 the Ranunculaceae. I
 sent all these to Dr Gray
 & a 1/4 of your specimen was
 also in fruit with Eben
 this map. I wonder if our good
 & courteous Dr - immersed as
 he is in work will thank
 me for thus interrupting him!
 But that must be the penalty wh
 you my Dr? & he ~~must~~ must pay
 - to be worried by the woodpecker
 when they think they find a mare's
 nest! I trust you are now
 cooled - I alas! can't get away
 & never will again, but I am
 content to swelter. My truf
 J. H. Mearns



10300) E. Bluff Nov. 7. C. 11. Sep. 1878 - Rec Sept 26
My dear Mr. Many thanks for thinking of me in your
new lacustrine Home! I opened my eyes at f. laevis,
but will you pardon my audacity if I doubt? I have
just examined your dried sps of the new field plant, &
I will send them to you with Quercus when you get
back. I think I can convince you that it is only a
form or "transition" variety of f. suberosus. True,
the lobes are glabrous & greenish at the tips & the other
hairy & whitish or yellowish white at the tips - but that
is all. The fls of both are light purple - foliage the
same - perhaps that of the rice-field plant more crisp
- but I'm not sure. The description of f. laevis in Gray
as to calyx - and umbels & petiole will not apply to
our plant. But you'll judge when you get my sps.
I happened to pass the spot last week - no fruit. The
fungus (Puccinia) had destroyed the vines almost. The
says the asclet. is Vincetox. Scop. The Ranunc. plant
Aquilegia canad.!!! what a queer place! Raining & blistering -
making up we fear for a Sep. sale. by Endl. & H. M. W.



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WRITE THE ADDRESS ON THIS SIDE - THE MESSAGE ON THE OTHER

Ms. 1038

MISSOURI BOTANICAL GARDEN
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*Engelmann
Bayfield Paul
Minn.*

(date Superior)

Mis.

A. C. A.



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Dec Jan 4th
and Jan 20. Bluffton

75

S.C.

30 Dec 78,

Dr Engelmann,

My Dear Doctor

I often think
of you - fearing that
you may still be
suffering the atrocious
pains of Rheumatism,
- but I trust not
and hope you are
now quite well!

A terrible case
yesterday I've had
for some weeks past
in a lad with
bad Cardiac cum =



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= plicatus, but he
presents himself before
me a day or two
since seemingly well,
- but possibly the heart
is impaired now or
less for life.

It's been badly
knocked and barged
about lately between
here & Sar Riv, &
so my way of recreation
went with my Brother
to the island where I
found Vincetox Lespedeza.
Examined again the
trees of slab. I. stellata.
Nothing new to report.



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I collected a lot many
 more fossils of N.S.,
 and a few of Encelone
 in this. Near this
 vine - a *Cumbary*
 with *Aquilegia* &
Thaspium barbinode.
 I found Trillium
 budding & soon to
 bloom. Never saw a
Trillium in this
 section before, though
 after near Charleston.
 Curious little ~~is~~
 in the marsh!

Too late when you
 get this, but I wish
 you a happy new year.
 The dead trees having just
 come from Sark. & with
 you also but next
 very Warm



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GEORGE ENGELMANN PAPERS



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MISSOURI
BOTANICAL
GARDEN

... you in the ... is up ... about ... must have ...

Rec May 6
for 7 8

Please write for Bluffton N.C. 74
1 May 1879
whatever you want.

Dr. Engelmann
My Dear Doctor

I was very glad to hear from you again. I have just fixed up the box of papers you wish - having examined a good many of V. Vulpina - both wild & cultivated. I see no difference in them at all - they all have the pith continuing through the nodes just as you have sketched it. I send you also of V. Aestivalis (or what I take to be it) and V. cordifolia. In some of the young & tender shoots of the former it seems

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



74a

hard to find the
break in the pith
- but it is easy enough
in the older. —

With the exception of
about a dozen or so
specimens from the true
Scutellaria & Peucedanum —
all the rest are from
wild vines — one sp. of
taken from each vine
for a quarter of a
mile as I went
along — and as I said
before every one contains
the pith through the
nodes as you will
see in examining
them. If you do
- see it - I can
get complete sps



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9v. Cordifolia and ^{74a}
V. Arstivalis. The

parcel contains

1. "Peepee grape" from Mr
Ravine cultivated from
V. vulpina.

II & III somehow these sps
got mixed but by far the
greater part are from wild
vines - eight or a dozen
are from two vines of
here "Scrubberney" (V. vulp)
in my garden.

IV. V. Arstivalis (?) ^{from} four or
five vines.

V. V. Cordifolia ^{from} two
vines.

I shall continue the
examinations & will re-
= port if I have any
thing worth telling.



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I am delighted to learn that you are better and that

Yes! the two *R. recurvifolia* have grown with a stem about a foot or so but have never flowered.

A month ago in shingling my house the leaves got all bruised & torn & so I had to cut them off & they look now full on enough. We had a terrible cyclone in the next co - destroying 'Walterboro' or most of it & killing & wounding a good many people. The chief doctor then - a nice man - was out, & came back to his house in utter ruins - his wife killed & a daughter wounded - mortally, I believe! Our missionary Pastor - poor fellow - didn't come last week - for he is helpless - these things are common in the west but almost unknown on our low country. Our Sep. sales wh. we have had regularly damage crops &c but seldom broodens such utter ruins. I must try a bit for a few days holiday - had pain in heart - had it off now for some years but now this spring. I'll have to give up tobacco smoking at night & it'll be hard on me if I go & I find anything will send to you. Best I can

I am sure that a terrible storm is up about. He must have been in the way of you



Rec Oct 11
an Nov 2

Bluffton S.C.

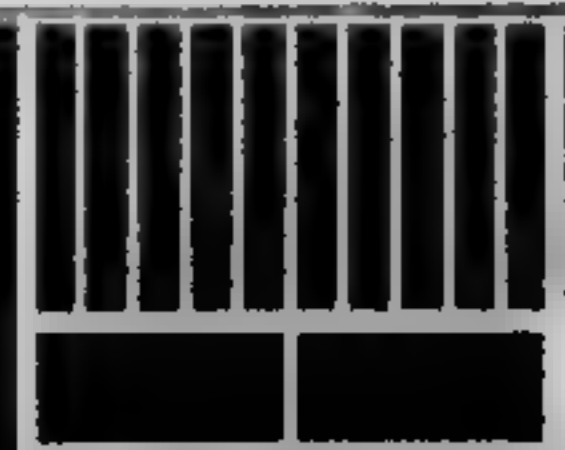
75^{II}

S.C. 1879 -

To Engelmann.

My Dear Doctor -

Last week when I
was plunging through the
wet woods some miles from
Charleston (St. James' Goose Creek)
I collected one or two things
for you, - not however of
much interest, - but which
I expected to send mostly
a entirely to indicate
that my thoughts were with
you in the woods, - as
indeed they often are
at many other times
my Dear Sir! -
Getting back to the
city one night I found



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GARDEN

75IIa1

awaiting me an immediate
summons home on account
of the illness of my wife. Such
is life! — I had but a
little while to pack up
and take the night train,
so in this way the sp^s
were left behind. Should
I forget them again I
shall send them on to you.
Mrs M. is at last better
so that now I breathe
easier. I enclose sk^s of
Carpinus — when I first
approached it in a swamp
I said here is Planera
Planera at last. which I've
so long looked for — but
upon examination it proved
to be my Carpinus which I
suppose is common with
you. —



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I trust you are quite well & still hard at Vitis. It seems to me I saw Vipera long ago on the banks of the Sar at our Purgatory; - I hope I ever get them again I'll take it up.

My love
a respectfully
Yr

J. H. M.

- V.S

Just found Collincuria Seebii = uscula. Act I suppose, - or possibly ovales ^{i = scab} of the mountains? Never saw it before, - only C. punctata ^{= ~~canad.~~} of EM. I Enclose spig and leaf.

J. H. M.



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Thickness of Bark of *P. Elliottii*
from an old tree - about 50 feet
high. 76

Rec^d Dec 9th
or - 20

Bluffton

J. H. M.

May thanks for

Calif. Cupulifera. 453079

Prof. Engelmann

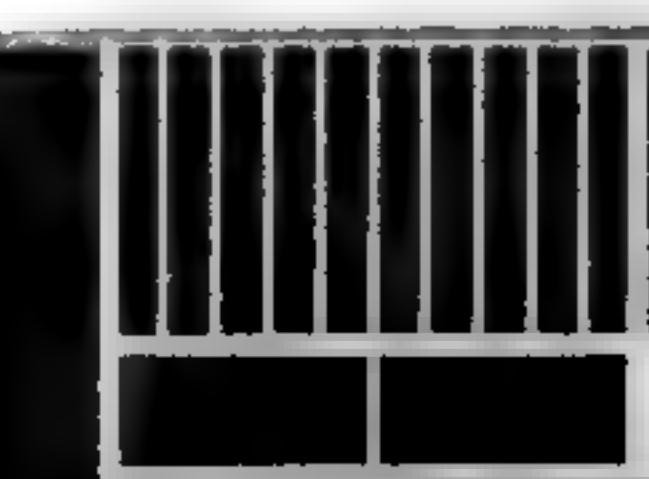
My Dear Doctor -

I was very
glad to get a letter
from you again,
and I need not
say was delighted
with Mr. Roetter's
faithful drawings
of our sea - board pine.
They are splendid,
and I am never



time of looking at
them. I have read
MS, and as soon as
I have the leisure (which
I think will be in a
few days) I shall
do so again, and
if any corrections
be necessary - will
make them. Many
thanks for the plates
which you let me to
keep! You may
remember my sending
you a small drawing
of a leaf sprouting flower
Yucca floriosa which
I found in Dauphinie

stalk



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96a

Beach last fall - 1878 -

I cut ~~off the~~ ~~flower~~
stalk I brought it home
and planted  it in
my garden, but last
Aug, or perhaps ^{long} before that,
finding the leaves yellow
and every sign of its
rotting, I pulled it up
& threw it away.

Happening to pass the
spot a short time
since I found it
had put out many
leaves & was rotting.
(You will call that
"rotting" will you?)

I send it on to
you with this
- thinking you might
like to look at it.



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76⁸⁵

also a section of
bark of P. Elliptica.

As ^(which has exfoliated) the loose upper ^{Solid Bark}
 layer of ~~the~~ ^{to} the lower ^{and}
~~the~~ and you will have
 the usual thickness
 of the bark. This from
 a tree about fifty feet
 high I "guess" — an
 old tree. The enclosed
~~two~~ cut tips of oak
 are about the thickness
 as measured on same
 tree. I suppose it
 differs in diff. trees
 — young & old. I shall
 send the width of glomera
 from seed & in all other
 respects try to do as
 you desire. I write at
 present in haste — we
 have many things next week.
 Always truly
 faithfully yours
 J. H. M.

MISSOURI BOTANICAL GARDEN



76 II^o
If you have time
my Dr. H. will see
be so good as to
examine under your
microscope (measuring
how many times?) the
little brown Speck what
you will find between
the layers of S. 156

After Nelson & Walter
two have repeatedly
come to me with
~~an~~ an eye terribly
inflamed and sometimes
ulcerated - the painful
symptoms all due
to this little brown
foreign body. On
several occasions I



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76 II^R
had concluded that
it was the wing or scale
of some part of a
leaf insect - but
I do not feel sure.
It may be from
the cotton plant, or
from the pine - will
you be so good as to
examine it & tell me
what you think of it.

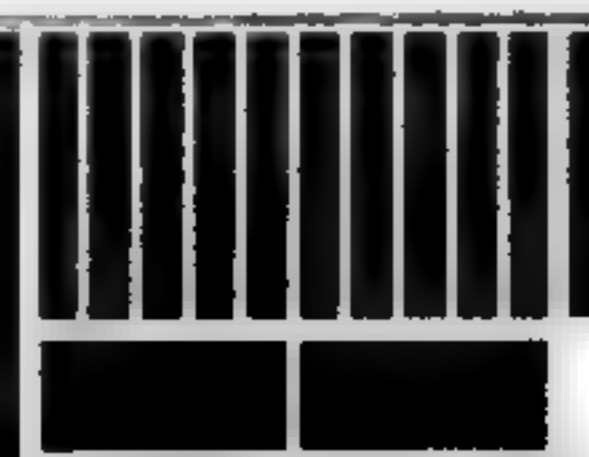
This one I've just taken
from a ^{eye} negro man who came
from Pinckney's Island. I have
seen eye almost ^{brown} lost (by infl?)
for this minute ~~short~~.

Recovery is rapid
after its extraction.

But I fear I
write too much!!

J.H.W.

Seems to be animal, not of vegetable origin.



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BOTANICAL
GARDEN

It is nice to know if your
 MS Bluffton, SC ^{reached}
 you safely.
 Rec Dec 20th 15 Dec. '29 -
 and Jan 3rd '30
 L. Engelmann

Wm. A. J.

MISSOURI BOTANICAL GARDEN
 GEORGE ENGELMANN PAPERS

My Dear Doctor -

Some time ago
 you asked me "what had
 become of the Beech Hill
 oak"! I have hardly
 kept the run of it
 for I seldom get in
 that neighborhood, and
 when there ^{was} ~~is~~ so pressed
 that I ~~could not~~ examine
 it. However - a few days
 since in returning from
 a rice plantation on Sat Riv
 I went to the tree &
 obtained a few acorns
 which I now send*. What
 was my surprise to find
 them closely resembling *

The smallest acorns
 little boy

J. H. Murray
 19 Aug 1930



Q. obtusiloba. Compare

them if you please with
those I sent you from
the Smooth Q. stellata
from the luteo isld at
the mouth of May River.
Truly oaks are variables
enough to puzzle any
body!

In the same parcel
you will find me across
a piece of the two chest-
nut oaks ~~from~~ such
as I sent you before.
Also sp of Q. elliptica
with the male ant
just tinged with violet,
— and a young plant
of Q. australis with
two leaves mostly — which
also I sent you
long ago.



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As regards the seed
 of P. Elliptica you
 said — "germinating
~~in~~ before cold weather".
 I first to say that
 that was rather a
 doubtful mode of
 expression — as that
 depends upon what
 we consider "cold
 weather"! The seeds
 fall about the last
 of October or about the
 first week in Nov
 according to season —
 and they soon germinate.
 This is then cold or
 coldish weather altho'
 without real winter
 weather seldom comes
 until Dec.



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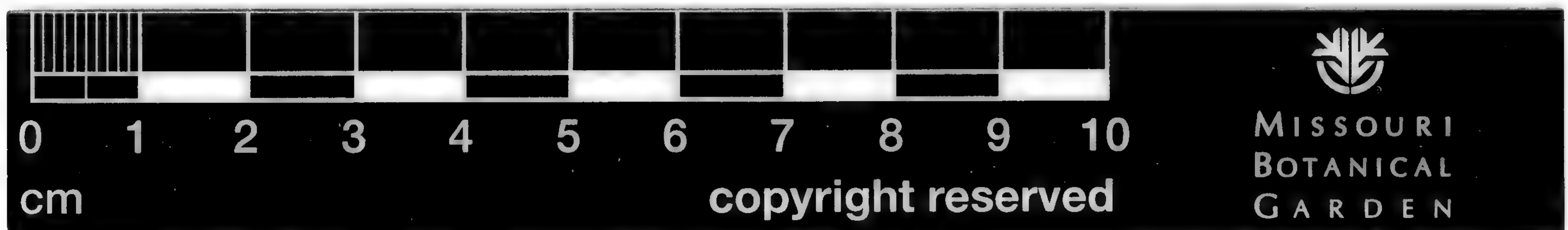
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BOTANICAL
GARDEN

in charge & that he has better
than any thing I think he said
to me. I have more interest
in him - he writes just as
well as ever. He is no botanist,
but I

perhaps it would be
better to say that
they germinate in
Nov! The woods are
now full of the young
plants such as I
sent you in letter
last week.

P. Australis also
is "coming up" abundantly
in the woods
&c. I returned your
papers as on 1st Elliot
last week. I forgot
to tell you that some
months ago 15th Thos Wood
an accomplished physician
(I believe) of Wilmington N.C.
wrote me for sp. of Ell
at the same time asking
me to give him a description
of that pine as he happens
to be a scholar I think, and a gentleman

sent both, but
of Southern pines. I
sent you a copy of
J. H. Mearns's
paper on
the
subject
of
the
pines
of
the
South
most
surely



Have had the sections cut I will send as soon as I can.

JEM

Bluffton
Scribble

29. Dec 79.

To Engelmann.

My Dear Doctor,

The pleasure of receiving your letter was somewhat dulled by my having to face that blunder or inaccuracy of "P. Ell. 130 ft high"! I can't possibly account for it - I must have been drunk - but then I'm not a drinking man! Am I sure that I wrote that? I remember a friend describing to me a pine of great size which had been cut on his place at the mouth of New River - for U.S. - and which I believed to be P. Ell. - could I have referred to that? I'm not possible - for I never saw it.

Rec Jan 3^d
as - 5

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



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MISSOURI BOTANICAL GARDEN

1891
Can't help it, - I try to be ac-
= curate & neither understate or
overstate, - but the imagination
play, tricks, at times when kno-
or overheard. I never saw a
Pine 130 feet high in my life
that I know of. As for the
flowering last y^r P. glabra - there
are only one or two near me
& I dare say I may have judged
too hastily from them. It is true
I have seen Australis & Tada &
glabra & mites - all pretty much
blooming to gether, but, after
the observation of some years
I think my last statement ac-
= curate, - viz - P. Elliottii by at
least two weeks or more - according
to season, - next Australis & Tada,
next glabra & mites, - last, Serrata.
The male aments of all of
the pines are commencing to show
now in Dec - but P. Ell is
a-head of them all. I enclosed
sp^{rs}. 13th In my last letter of two?



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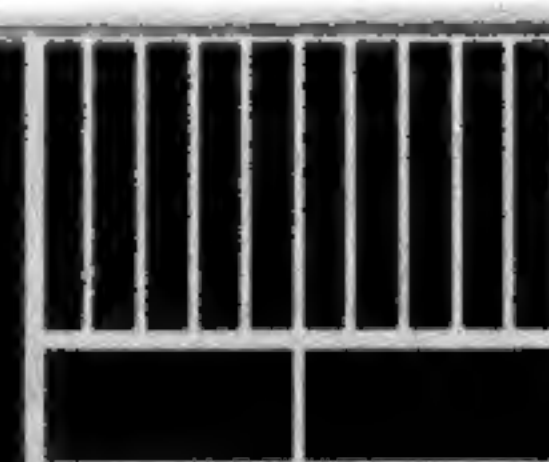


MISSOURI
BOTANICAL
GARDEN

78^a

water also I referred to the germination
of seeds of P. Ell in but as you said
nothing about the account of the "Beets
Hill oak" wh^{ch} I sent, and of wh^{ch} I
wrote in said letter. I conclude you
had not yet rec^d it! Have you by
this time? I objected to seeds of
P. Ell germinating "before cold weather",
- better say - in Nov, or early in
Nov: - It is hardly winter then but
people call it "cold weather" - tho'
our real cold comes after. -

③ I cannot at all agree with
you about P. Elliottii: having a bark
so very peculiar & differing vastly
from P. australis. They are much
alike in colour & both lamellated
& exfoliating, - only as Elliott re:
- marked the plates of P. Ell are
larger. I could show you trees of
both wh^{ch} I think you could not
distinguish unless you looked up
at the fans. To have what I
say I send by this mail sp^{cs} of
Bark & plates (the very thin outer
one also) of P. australis & also of
P. Elliottii. I collected them myself
from a tree of P. australis cut



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16 a few weeks ago, & ~~another~~ ^{the} from
the a ~~tree~~ living tree of *P. Elliptica*.
Certainly there is a difference &
I can usually tell the trees at
a glance in the wood, — but tell
me now what that difference
amounts to? _____

13 As regard the wood of *P. australis*
the rings seem usually much closer &
regularly concentric — whereas those of
P. Elliptica are ^{usually} coarser & larger &
~~usually~~ more irregular, — but I
do not know that there is any
special difference in colour, either
in the resin-brown or pale rings.
P. australis shows the brown & white
rings like ~~*P. australis*~~ *P. Ell.* — why
don't all pines show such rings —
Teda & the rest of them — and is
it not so with all other pines over
the whole earth? How else can one
count the rings if there was not a
streak of pale to separate the brown
rings? I thought it was so with
all pines. "Does it get darker
with age — the pale part disap-
= hearing"? — I don't think so un-
= less the tree runs to what we
call "light wood", — but even then
I think one can trace the pale
rings. At least so it seems from
what I see so far.



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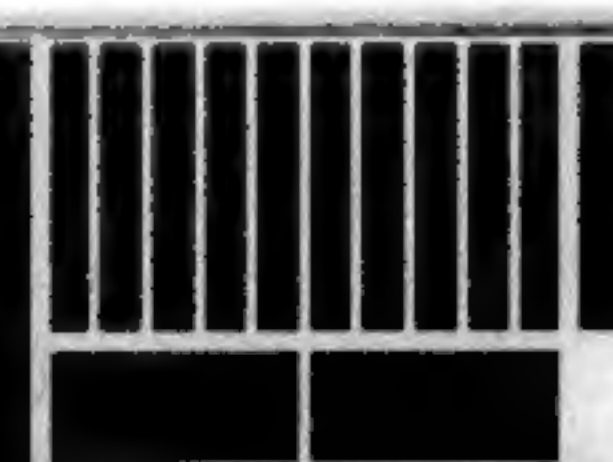
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GARDEN

P. australis loves the white
 sandy - dry pine - barrens,
 & that name is its appropriate
 one as the Southern pine; - but
 nevertheless it is found oc-
 casionally in damp & wet
 places with P. Serotina & P.
Elliptica near - but only oc-
 casionally, yet the ^{old} name of
P. palustris is absolutely in-
 correct. I wonder if the first
 observer - perhaps in the Low
Country of Carol. did not
 mistake P. Elliptica for P. aust.!

I am sorry to think that there
 may be a chance of giving
 up our "native" name (P. Ell.)
 for the Cuba or Batama
 pine! I fear the risk for
 this seems a salt water
 tree. If the Cuba tree has
 leaves - 2-3 & such cones as
P. Ell. - I shall fear for the
 result.



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GARDEN

780
If you speak of the "interminable
trouble" you give me as to V. Ell
= it is my trouble - no trouble
to me, it is only that I fear
at times, I even "love" you with
trivialities & things irrelevant, &
thus take up precious time!
But you are very forbearing with
an untrained & rather ignorant man
& I feel this kindness & courtesy of
yours in continuing to write even
tho' I blunder or prove inaccurate.

yes! I read you of 2. Nov - I thought I
was to send the ^{W. S.} yucca ~~for~~ in Mex. -
I. falcata x cinerea has been dead some 2
years & has utterly disappeared under the
axe. I feel pretty sure that its β_2
= culia appearance was due to its
situation near edge of cove - an unusual
one for falcata & that it was stunted
& lived on unwholesome food & thus as
= sumat this poor cretum (!) like
cond. I am just called
off to Sar - vive - must be back
until in the night - Doctor's
week - will hear this & the
hard sent of mail - Let me
know whether you will last
letter about a parcel of acorns
of Beech ~~at~~ Hill oak. Y. H. M.



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