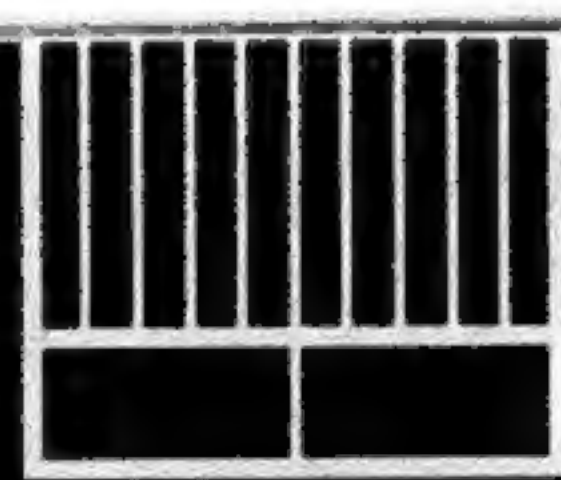


Rec Jan 9 Assam

Athens Ill. Jan. 6 1873

Dear Engelmann - Happy new year  
Since my return in July I have  
been very busy getting things  
straightened up after my 2 seasons  
absence & since the winter weather  
has driven me partly indoors. have  
been at work on the Desan Plants  
I have them distributed now up to  
530 numbers (there will be over  
600 of them). Dr. Gray has undertaken  
to name them & print a list at  
my expense. I expect to have  
them ready in about a fortnight  
and I write to ask you if you will  
want a set of them: if not I  
will send you the Euphorbias  
& Grapes *Guncus*. *Cuscuta* &c as I  
suppose you will be called on to  
name these by Dr. Gray & the lot of  
*Guncus diffusimus*. The *Isaetes*  
is not exactly *melanopoda*  
the maturest specimens showing no



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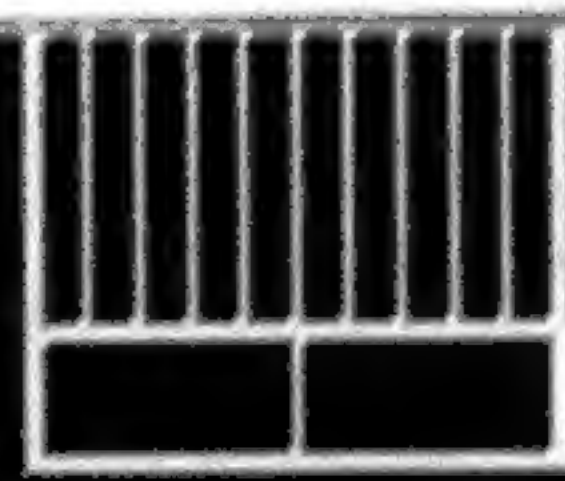
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black boxes.

I have studied your article  
on grapes and think I understand  
them now as you do. Our Remanor  
grape having turned out to  
be the winter one the difficulty  
is with me mostly cleared up,  
yet in studying the Lesan Specimen  
ers I have I am of impression  
there are hybrids in the family  
and that the hybrid blood is  
best traced in the character of  
the pubescences taking the  
Cobweb as one extreme and  
the simple erect hair as the other.  
Probably no 2 individuals exhibit  
exactly the same characters in these  
respects yet there is a limit in  
these characters over which no  
species can pass. There is no  
doubt but that the Lesan  
post oak grape possesses  
some constitutional charac



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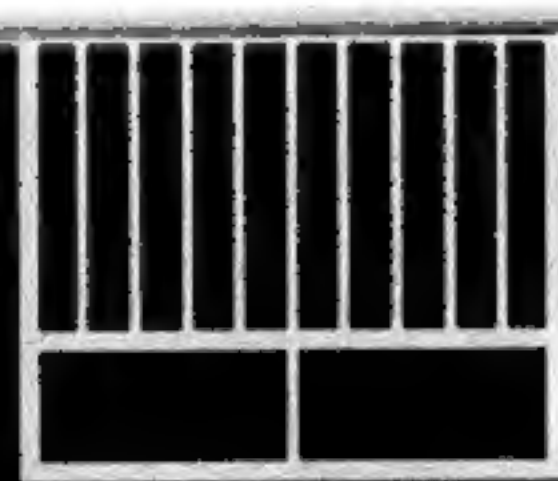


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ters quite peculiar and that  
would seem should exclude  
it from all forms of *cestivalis*  
but the herbarium of course will  
show nothing of this. I have  
from a South west Mission  
root a form of *cestivalis*? with  
perfectly smooth & glaucus  
branches (or vines) as smooth  
as the vine of *Riparia*. but  
covered with a glaucous bloom  
I will send you specimens of it  
also

Respectfully yours

E. Hall



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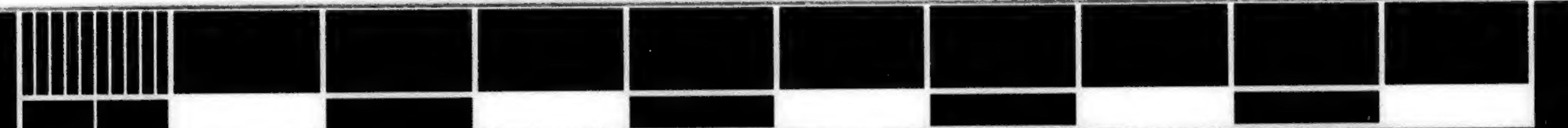
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and that  
 would be  
 the form of  
 but the  
 show another  
 from a  
 root a  
 with

perfect  
 branches (or  
 or the  
 covered  
 I will send you  
 also

perhaps you

J. H. H. L.



Rice Jan 21

Am. Lib. 5

Athens Ill. Jan 27 1873

Der Engelmann — your duty  
recd. The plants are now ready  
& I send you a little package  
by Express to day — You will please  
name them & send if you will  
the names to Dr Gray as I suppose  
he will want you to name  
them. General or usually does  
I will tell him the Genera I  
have sent you — I mean the  
names of those that have numbered  
tickets that are in the sets

You ask what are plans for  
next year — to stay at home  
(I raise taters) I can make more  
with less labor & no deprivations.  
Plant Collecting don't pay — not in  
greenbacks — and I have to drop it  
awhile and probably altogether  
There are some numbered specimens of  
Paper you will please determine



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them & send name to me  
& if any thing new turns  
up in any of the Genera I should  
be glad to hear

In the matter of the Oregon Collection  
that it seems Dr Gray sent you  
& you returned to him that he  
has now sent me, were two  
forms of *Quercus* that you  
did not name, or at least  
I can find none. Can you  
tell me now about these?

I did not know till I saw there  
that you were the authority for  
oaks or I should have sent you  
my whole Texas Collection - though  
all were in leaf only or in leaf  
and young fruit yet were  
very interesting, showing several  
hybrids. Several of the species  
very new to me 2, *Durandi* 2,  
*Emerea*. 2 *peris* var *is*  
This small Collection to you  
gratis. Ever your 2 Hall

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Rec' Feb 27  
an — 28

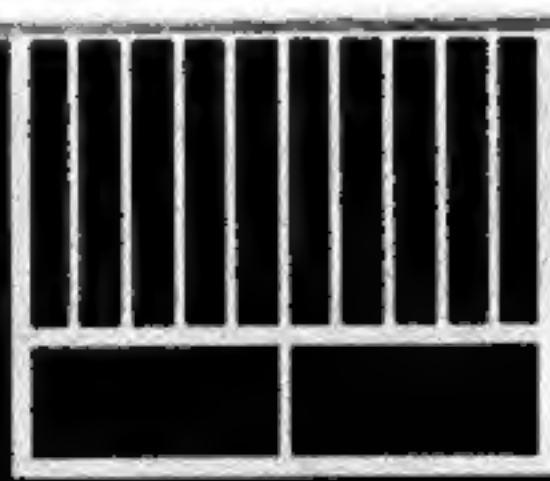
*Celtis reticulata*

Athens Ill. Feb 20<sup>th</sup> 1873

Dear Engelmann

Your two letters on Red — 3  
done my level best, on Pines

I was told by an old German  
long living there that there were  
2 species but when he went to point  
them out to me he failed to  
satisfy him self that he had done it  
I judged that he formed his opinion  
from the nature of the wood. being  
an old Sawyer — but he said the  
book was different — very few cones  
appeared last year — it seemed to be  
the wrong year for them — bearing as  
probably most Conifers do in alternate  
years — the cones I got were not  
grown — but the old cones were  
abundant & were round oblong or  
long linear raying even on the same  
tree & the leaves were also of variable  
lengths. if there is a real specific  
difference in the Houston Pines I have



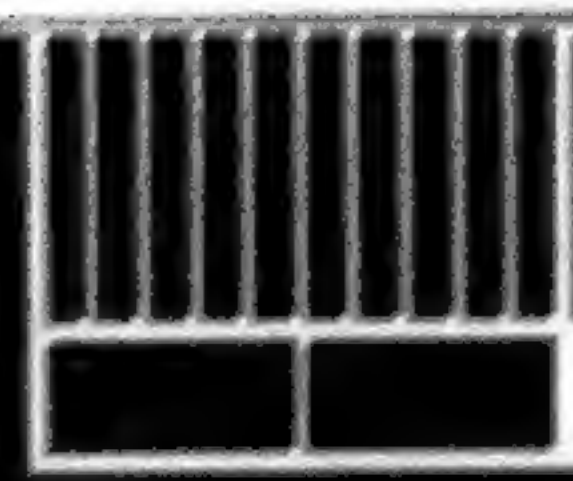
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totally overlooked it. - no  
I right here went for my specimens  
& so behold I am mistaken  
the preceding specimens are a form  
of *Taeda* sure enough & the  
other probably mites - if not mops  
well so much for oversight - P  
*Taeda* is well marked by a ridge or  
keel on the inner face of the leaves  
which the other has not. I think  
both species must run together  
with their cones as I saw no marked  
difference here. - the soil of the pine  
forests of Houston is a close waxy  
peculiarly constituted clay or clay  
loam almost entirely unfitted for  
agricultural purposes on account  
of its tendency to run together & to bake  
hard when by very little effort  
is made at Houston to cultivate  
the soil - a few gardens only by the  
aid of manure -  
I have a copy that I could spare



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of the Oregon plants but I wish  
you would ask Dr. J. for one  
if he has them yet if not I  
will send you mine - Some  
time I must send you oaks  
but too busy now

Now for grapes -

On *V. cordifolia* I think you are mistaken  
it is allied by the vine & some other characters  
to *V. vulpina* for which I at first took it  
as to others you are or may be correct

Buckley to the contrary notwithstanding  
I can't send you Concord slips

This year - vine killed to the ground  
& so of all grapes here that I cultivate  
except possibly the Concord may  
in part have escaped - Did  
you find anything new? what  
did you make of the Grapes?  
Truly yours

E. Hall



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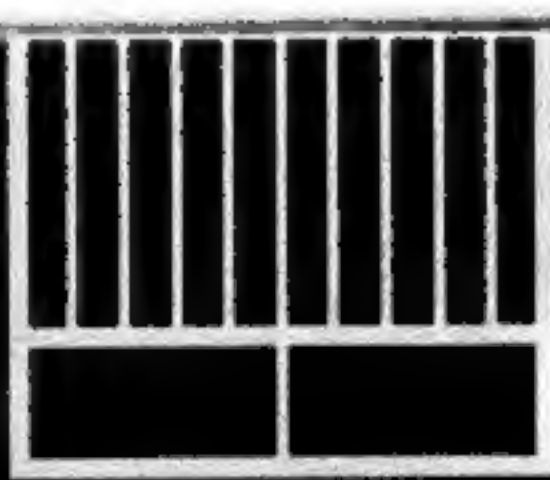
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Rec<sup>d</sup> March 14  
An — 15

Athens Ill. March 11th 1873

Der Engelmann

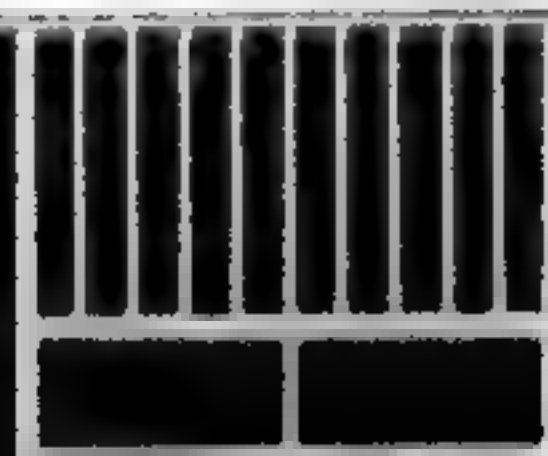
Your 28 July Recd

I enclose specimen (divide mine  
with you) of *Ceteris reticulata*  
I could get but little for. And  
only found one shrub 5 or 6 feet

high — There are 2 *Ceteris* or forms  
in the Desor Collection. growing  
together often but quite unlike  
but when all the characters for  
species are to be found I am unable  
to say. I have a specimen of

Mississippiensis. Still unlike any that  
I have seen growing — but the  
distinguishing characters are  
not manifest — I am glad to

be set right on pine leaves — I can't  
verify for my self in P mites mine  
having only 2 leaves — Jy has  
sent me your report — you did  
not report on all — why not  
I thought the entire *Euphorbia* was



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Your Speciality      There are! three

Species of *Phyllanthus* that I fear  
Gray will overlook & confound  
The *Brasias* are most perplexing  
you now make *Juncus* 47 65-48

*Xyrisoides* & not *acuminatus* well  
I must alter before I forget  
I suppose none of the Oregon  
Plants were distributed though  
I have not had returned all  
the Specimens collected - Some  
time will divide Specimens  
with you - most of the  
Orchidaceae were hard to get  
in Oregon being too scarce  
The *Cypripedium* 4 or 5 of *Corallorhiza*  
*striata* &c the same about  
I cannot help you out in  
there.

Ever yours

E. Hall



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1852

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Rec<sup>d</sup> July 29<sup>th</sup>  
Am — 30

Hall E

W. W. ...  
Miss Engelmann

Thanks for your paper on  
Zuccas I have just found  
time to examine it carefully  
I find that my material and  
knowledge of the genus is so  
small that — I have nothing to say  
the two species I brought from Texas  
& distributed of *Zuccicola* & *Z.*  
*beccata* according to Gray which  
latter in part at least must be  
*Z. argentifolia* (I have had better  
specimens of both). The north form  
or plain form of *Z. argentifolia*  
beaver of *Z. albaefolia* & *Z. filamentosa*  
are the total of my stock. But your  
paper will be exceedingly useful to  
me in the future if I have the good  
fortune to know more of the genus  
am I to keep it?



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Dr Gray wrote me that he had  
sent you a list of the Desos. collection  
you will notice there are several

Omissions in the genus Paspalum

Panicum. Do you study there?

Do you have the material at hand to  
determine these for me? - it seems

to me they are easily enough  
made out from authentic specimens

I believe I could find you all of

them if you can do anything with

them. There is a large & interesting  
in Desos & I have become specially interested  
in them and should like to have other

Southern specimens to compare as follows

Vaginatum P. Præcox P. Floridanum

P. racemulosum, P. Bloodgateri &

Panicum gymnocarpum, P. fasciculatum

P. angustifolium, P. divaricatum

P. scabrisculum, P. melicarium

P. repum, P. Walteri - P. molle

The interest in any of these you

have to spare would be gladly returned

& will give in exchange anything I have



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My little bushy *Celtis reticulata*?  
flowered freely this Spring but set no fruit  
shall have to wait another year

I planted seeds of many *Quercus* plants  
& most of them do well the perennials  
coming to fruit the first year the 2  
Species of *Nicotiana* or one at least  
a showy plant in flower - I have  
now growing 6 species of *Nicotiana*  
2 of which I have lost names & habitat  
of - have you a collection of the  
rest of the genus? & locate native  
of this genus?

Respectfully yours

E. Hall



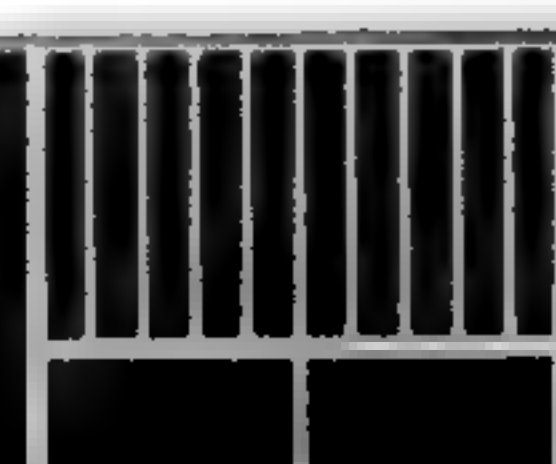
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Athens Nov 17 1873

Dec 2 1873  
No 1. *Quercus* <sup>Garryana Hook var Douglasii</sup> Dallas of the  
Columbia Oregon of hills

No 2 - *Q. ~~garryana~~ <sup>Stalermi</sup> Douglasii* Oregon this is the  
only Oregon oak in the Willamette  
Valley - attains to 2 to 3 feet in diameter but  
is always <sup>scarcely</sup> rarely a 12 foot  
log can be had for <sup>5000</sup> it seems  
to be different from No 1 - but <sup>in</sup> ~~the~~ <sup>matter</sup>  
are the same as 515. of the Rocky Collection

of Hall & Harbour. *Q. Douglasii* var. *Q. Mexicana*  
rechristened in Watson report as *Q. alba*  
var *Jenninsonii* Torr. though much  
resembling in leaf. the bark & form of tree  
ally these Oregon specimens to *Q. obtusiloba*  
Does *Q. alba* really acquire pubescence on  
its leaves as it advances westward If so I  
fear *Q. Durandii* will be absorbed also  
the bark of which allies it that species  
the pubescence however is of a hoary glandular  
Car character. in the latter *Q.*

No 3 *Q. Durandii* Buckley <sup>of undulate leaf</sup> <sup>branch for ever</sup> through the  
kindness of Prof Buckley I am able to  
send you the mature fruit this sp. I found it  
at Austin & Dallas Texas. Mr Buckley  
I think has found it in Louisiana where I  
saw it in a shrubby bush low tree or



bush & bears fruit all sizes the leaves are  
often entire  
no 4 Q. from Dallas Texas - a sort of Q  
Castanea with a rather straggling long  
pubescence unusual, in the Spec Es for as  
known

no 5 Q. <sup>Prinos or acorn</sup> Castanea <sup>your monticola</sup> forms found here

no 6 Q. <sup>Q. prinoides</sup> In Kansas varying in size  
from a foot to 30 feet & fruiting  
at all sizes. <sup>Large ones 2 Cypripedium</sup> large & small acorns  
variable. Leaves with a dense tomentum  
beneath Q. Prinos var humilis? Mark  
See the autumnal flowering specimen

Do not find this in Ill

no 7 Q. <sup>Bicolor</sup> Discolor a small tree. rare here

no 8 Q. obtusiloba! to <sup>stellata</sup> compare with  
the Oregon Solem specimen, not  
the same. See buds

no 9 is that hybrid Q. alba - macrocarpa  
- pa. I sent you before. Q. oblongiformis

no 10 Deer Cinerea <sup>yes</sup> a distinct Sp  
but variable in foliage in Texas. leaves  
often entire. I have no mature fr

no 11 hybrid of Q. floridana & Cinerea? <sup>By St. Hubert?</sup>  
<sup>but pubescent!</sup>

no 12 hybrid agrostica & Cinerea <sup>annual!!!</sup>  
<sup>large? small = 2</sup>

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? No 13 hybrid aquatica & Prabay palustris  
wh? or some large, with Sp. may be rubra

No 14 2 heterophylla = 2. falcato-phello

No 15 2. hybrid 2. aquatica Phellos

When you have studied these oaks you  
will please give me your best deter-

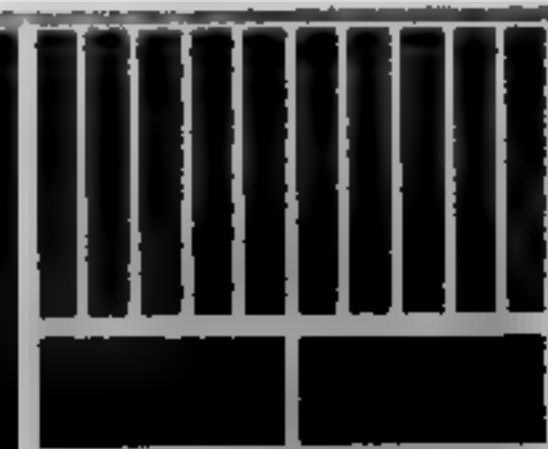
minations - I have indicated my ideas  
of them in part. There are a few other  
interesting crosses in the collection - but  
I have no duplicates of them. Some  
of the hybrids here indicated may be  
extreme forms of species: My attention  
when in Texas was not sufficiently  
called to the oaks being too early for  
fruit - but the family is an interesting  
one there even in leaf - but it is  
difficult if not impossible to determine  
species from leaf or even fr. of the genus  
The tree itself shows the strongest  
characters

With these oaks I send you a  
numbered list of Texas plants not  
in the sets being imperfect or insuffi-  
cient for that purpose - If you  
can help me out with the names

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Dunali



of them or all of them you can I  
shall be much obliged. no doubt  
you have them all in Lindheimer's  
collections & others from Texas & will  
know them at sight even if only in  
leaf or most of them are  
Your determinations of the Grasses are  
Satisfactory & no doubt correct except  
as to *P. laeve* & *P. Setaceum* which I still  
think must be some what different, having  
both the 2<sup>nd</sup> from Texas & elsewhere to compare  
*Paspalum* (11) digitate is plenty at Houston  
& Lindheimer must have got it so is so 4  
in fields - I have a single plant living  
of *Juncus* (*tortifolia*) *ruficola* only  
took one in last winter lost all the balance  
it has made fair growth this year  
when it produces an offset for itself  
it. my Texas *J. angustifolia* are all  
dead. I only have 4 sp now living. *ruficola*  
*angustifolia* (Colorado form) *alocifolia* &  
*filamentosa*. When ever you can conveniently  
get seeds or roots of any other sp I shall be glad  
to get. I have also lost by freezing last winter that  
largest form of *Oenanthia*. Is yours yet living? The  
little one is I believe very *O. Hopkinsonii*. You E. Hall



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Rec Dec 3<sup>d</sup>  
Am - 4

Athen Ill. Dec 1<sup>st</sup> 1873

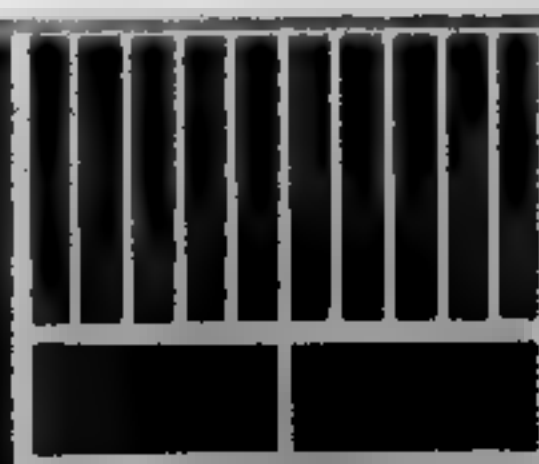
Dear Engelmann - your kind reply  
thanks for names. I was surprised  
to get so many from such incomplete  
material. I believe nearly all are correctly  
referred except perhaps the following

34 Baccharis <sup>filicifolia</sup> argenteifolia described in  
Chapman's flora with leaves entire

35 Condalia obovata Hook is rather

I think C. spathulata - at any rate it  
is not the same as Gray called that in the  
sets obovata has the leaves hirsute & toothed  
if Gray is right. The *Gerardia tenuifolia*?  
or *filifolia*? is certainly not the former  
- can not be the latter if Chapman's description  
is right

As to the oaks 15 is all from Houston & I  
may have put in through mistake bit of  
*Q. aquatica* but I intended to show you  
a form of *Phellos* with the leaves of *imbericaria*  
which does not grow in Texas I believe  
no the one tree only at Houston in soil  
which is ~~about~~ 300 ft high in company with



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Phellos - foliata - aquatica - nigra rubra  
& -

No 13 is I think from Austin I don't  
recollect further of it

No 12 is from Austin or Hempstead

I have no further recollection of it  
it is doubtless related to *D. Durandii* maybe from it.  
No 11 Phellos: how can that be it

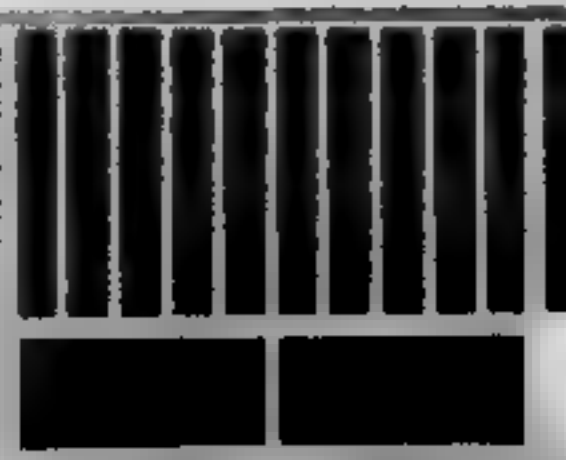
with so dense tomentum. always  
glabrous has certainly got the  
tomentum from *Cinerea* & form from  
Phellos can it be possible

No 5 *D. India* you take to be *D. undulata*

Can you send me a leaf that I see. the  
pubescence is so peculiar that it will  
almost tell

No 9 *D. olivaeformis* is an exactly inter-  
-mediate between *D. alba* & *macrocarpa*

as need be it has the bark of *alba* &  
much of the form of leaf & acorns growing  
right with young trees of *macrocarpa*  
if the acorns are that are two each different  
it must be a hybrid



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Shall be very glad to get  
joint of that big Opuntia  
at any time & the plant or  
Gonoloba angustata - var mollis - you  
promise I am trying to get a

Collection of American Cacti  
now I am hungry for living  
Species I have a home for  
- now

Respectfully yours

E Hall

Do you know the enclosed  
Juniper from the alpine  
regions of Mt Hood & Mt Rainier  
no fr covered be bed a low  
bush. not trailing

Cupressus Nutkaensis



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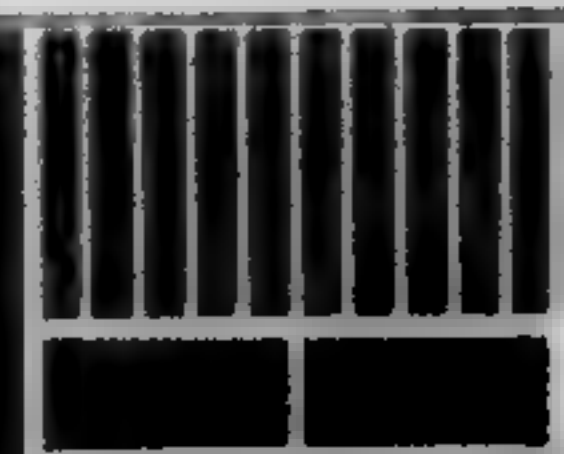
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Recd - Febr 23  
Am May 20

Athens 20. Feb 20 1874

Dear Engelman - You say you need  
I have but one well used Catalogue of  
the Oregon plants. If you need it for  
naming specimens or other purpose  
I will loan it, but I cannot spare  
it altogether. Probably you can get  
one of some one in St Louis who  
take Silliman's Journal of arts & Sciences  
for Feb. 1872 - May be Dr Gray could  
find one for you. The Juniper from  
Mt Hood in the Cat. is called J. Communis  
J. var alpina Parl. in DC. Prod 16 P480  
I saw nothing in Oregon like J. virginiana  
unless it was what I sent you before  
that you said was no Juniper at all  
I send you by mail today the Texas  
Isotria medeoloides var pallida and  
also the Ill medeoloides to compare  
anew with it - but notwithstanding the  
apparent difference I suppose they are  
the same one of the Texas ones begins to  
show black foot



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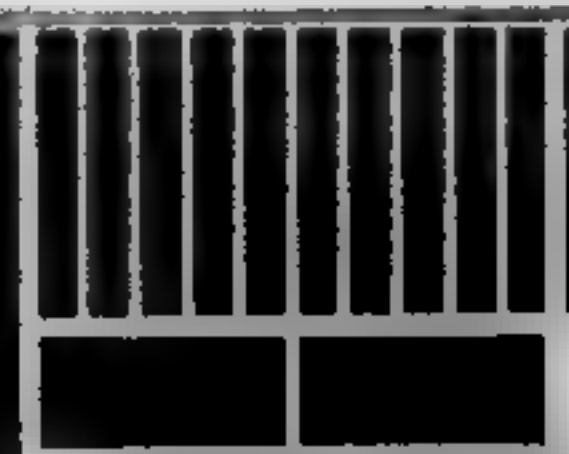
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I also put in the package for  
name the leaves of a low shrub at  
Houston Texas. An acacia from  
Austin a Neutrelia (may be Wrightii  
from Austin & a curious form of  
Euphorbia Gyathophora? - varied from  
Austin seed. no blade was developed  
on the dry hills there as I supposed from  
sterility but none appearing here in  
cultivation leads me to think the form  
may be a permanent one.

Dr Gray finally refused to correct the  
list after I had pointed out all  
the errors I could discover & furnished  
the names of those Paspalum & Panicum  
you made out for me. with some  
others omitted - said he had no time  
and this I much regretted because I  
had promised several of the patrons a  
corrected list. the acacia & Neutrelia  
I now send you one 2 that he left unnumbered  
I want the names so that I can send  
them to a few of the patrons I have



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promised - I have heard nothing  
before of Dr Parry for a long time  
whose exploration is he reporting for  
Is the Isaetes he discovered a new one  
Is there to be government exploration to  
Utah again next year? How does  
Parry make ends meet on private  
explorations? of such I believe he has  
made several lately

as for my self I have nothing  
ahead for this season in the  
collecting way shall probably be  
at home all summer

know of no place now where expenses  
could be made & moderate wages

Yours Respectfully

W. B. Ball



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*Asplenium multiflorum* Willd  
*Callisandra conferta* Benth  
*Cephaelis heliconioides*  
*Styrax*



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**STODDARD PHARMACY,**

*N. W. Corner Easton and Garrison Ave's.*

**POOLE & CO.**



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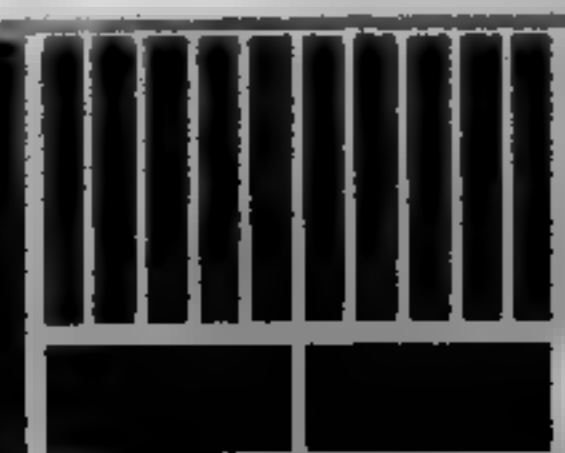
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Rec No 17  
Am - 19

Athens Ill. Nov 14 1874

Dear Engelmann your Recd  
has it has been a long time since  
I wrote you - but I had nothing  
The Quercus alba var. <sup>???</sup> fida  
young fr. - but all blasted & not a  
specimen was left for autumn  
collecting. I got dead Staminate fl &  
young fr. from some where - but cant  
lay hands on it now I can send you  
next spring a couple yearling plts  
if they can be made live. - I had before  
heard from Brandegee that you was  
in Colorado & from Meacham that you  
had found Abies concolor. & Brandegee  
sends me what I take to be a specimen of  
it but I scale of the cone but the name  
has not yet come - Specimen only  
numbered to me. 37 spec for \$370  
all but 2 or 3 new to me - he collects



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S. Parry and does not seem to know  
all of what is most wanted in a  
specimen — I have looked at the Gentians  
for the first time in 10 years & find even  
enough that the Oregon 426 is quite  
distinct from affinis as I expected  
it was when collecting — the 2 bracted  
leaves however are not peculiar to it  
affinis having them also & other sp  
the spathaceous calyx I can not make  
out. but the calyx with its lobes are  
abundantly distinguishing characters  
I send you to day by mail more of it  
for directing & critical study — I have  
but one plant taller than I send you  
a foot high & it has an axillary  
fl besides the terminal one — the  
has a little calyx & bracts — I also send  
Oregon 401 the only fl I have found  
but I in wet prairie at Salem Oregon  
& must be very rare without Gray named  
I September? which is quite different

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from 426 - 426 grows in boggy ground  
(Sphagnum swamp) on the Coast at  
the time of the snow weather - affines in  
Colorado I only found on dry rocky ground  
I also hit in 2 forms of the Colorado  
Species called them by G. or J. acuta  
will you give me the name of  
them now - type & variety  
Mr. J. Repton? should like to have  
returned sometime

That Oregon Abies Grandis? is separated  
by a wide stretch from valley to high  
mountain. in the valley it is one of the 2  
giants of the County A Douglasii being  
the other and most common. The cones  
specimens were all collected on Mt Hood  
I only saw for one a single valley specimen  
and found that by inquiring of woodsmen  
who are felling the trees a small quantity  
on the tip top of a tree 200 feet high  
but the tree had been fallen several  
weeks & the cones were falling to pieces



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I saw several more of them, I obtained  
by falling a tree 6 inches in diameter  
at the base of Mt Hood, all from the top  
of the tree & just in color & form as I  
saw them in the valley - but all the trees were  
much smaller on the Mt. and of a rigid  
denser growth. but I could see no  
specific difference and by the way is it  
not the same as *A. balsamea* of the  
east? Look much the same to me  
The wide gap between the valley & Mt. Hood  
is probably to be explained as to the  
situation in regard to moisture, a  
dry elevated region is consuetudinary  
but the vicinity of the alpine prairie  
with constant moisture is favorable  
to its existence whilst the short season  
causes it to keep small & grow denser.  
My observations were not however  
sufficiently critical to worth much &  
there may be 2 Sp. I have ~~from~~ Pringle  
6 of Sp. of the *Deser* under to - Still different  
from *D. Durandii* of *Deser* - I have faith in the  
latter being a good species Joubert & Hall



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Rec Oct 12

Athens Ill Oct 10 1875

Dear Engelmann - Your Acid - I refer  
to my Abies & find the Specimens as you  
do exactly. And on comparing the fruiting Mt  
Hood Specimen with the Colorado Abies grandis  
find both the same - the sterile or leaf branches  
with short stiff leaves are also from Mt. Hood &  
I had no thought of their being difference. it  
came in this way - I only found one small tree  
at the edge of a little alpine opening or prairie with  
fruit on the top. this I cut down & obtained  
all the fruiting Specimens from it. - we had  
cut other small trees that I took to be the same  
to get branches for our tent and of these  
I made the sterile or leaf specimens. when it  
was raining so hard out side that I had to stay  
in but the longer & larger thinner flatter  
laser leaved branches are from young trees  
or the lower branches of the big trees of Salem  
200 feet & over high. Have you got cones  
of this willamette big tree? I regret now that



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I omitted to get those that were falling to  
pieces from one of the trees cut near Salem  
the only cones of these large trees I saw &  
they were pointed out to me by the men  
who cut them I think the fruiting of this  
species must be quite rare. At least for the  
year I was there. On inquiry of the men  
(who were cutting down the timber largely) for  
cones they took me some distance to this tree  
that they had fallen several weeks before  
the cones appeared to me just the same  
as *A. grandis* of Colorado & Mt Hood  
colored just the same. but they are no doubt  
different. Now since this big tree is  
*A. grandis* - what do you call the  
Mt Hood & Colorado's tree?

If you have not got the cones of the  
Salem tree I think I can get them for  
you through a man there who takes some  
interest in such things if they are to  
be had conveniently. but he is very  
slow.



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Nothing new has transpired in botany  
with me this year been at home all  
the season had at work have  
grown a few things from western seed  
If you succeed in raising specimens from  
the Georgia Groves I should be glad to see one  
& the other when you have them to spare  
*Quercus tortifolia* grows well but has made  
no effort yet. I sent you last week  
a cone of *Quercus alba-macrocarpa* for  
planting.

Yours truly

E. Hall



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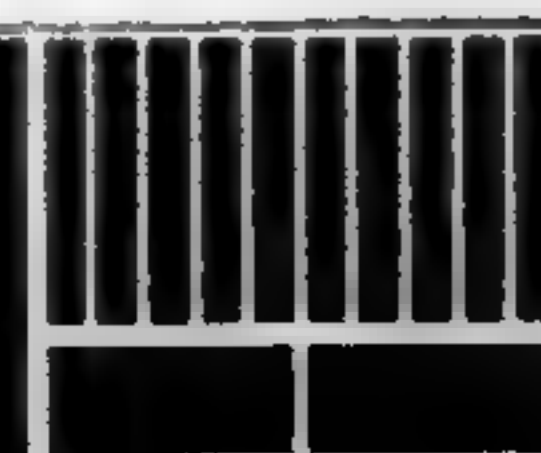
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BOTANICAL  
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Rec July 13<sup>th</sup>  
Aug 20<sup>th</sup> 1879

Athens Ill. July 7<sup>th</sup> 1879

Dear Engelmann your letter rec'd  
I did not know that Mr Crippin of Belgium  
had made a new species of *Gray* *Kantsch-*  
*atica*... I have corrected in herb accordingly  
I find my specimen of a single fruit & leaves  
and some bits of the densely spiny prickly young  
shoots. the material was poor the species only  
found when far advanced in fruit & the foliage  
disfigured by insects I am unable to say  
if there was sufficient to reach through  
all the 15 sets made it is quite possible  
it fell short & your set may have been one  
of the omitted and my own is too  
poor & insufficient to divide with any  
profit to you. My herb shows  
various forms of what are variously referred  
to *R. blanda* & *lucida* & I am unable to say  
how correctly. They seem deficient to manage  
if there be 2 or more species of them the



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in the books need to be altered to  
limit them. Quercus are best studied  
in the field

I found *Q. foliolosa* at Dallas in the  
rich black Prairies there not rare  
I also saw it plentifully at McAlister  
Indian Territory some slips brought  
home & planted have spread rather  
widely & bloom freely every year with  
pale flesh colored flowers

shall be glad to see that giant form of  
*Quercus melanopoda* from the Indian Ter  
and if possible also the new species *Q. arkansana*  
I will see as soon as time allows how it is  
with our *melanopoda* as to diversities  
at present my impression is that it is polygamous  
but have not made special investigations  
in that direction

As to *Quercus albamacrocarpa* in the leaf  
I think I have satisfied my self that the  
pubescence of *macrocarpa* is unevenly  
distributed which agrees with the law  
of by bricks as I understand it (i.e) that



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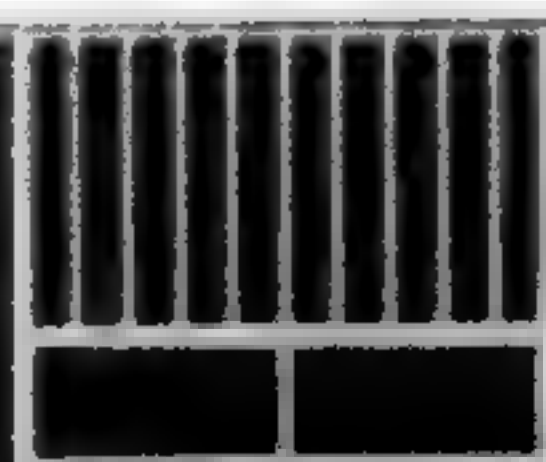


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GARDEN

the character of the parents may be and often are disproportionately developed in different parts of the offspring. the bark for example may be not what would be considered intermediate but largely resembling one of the parents whilst the fruit or leaf may quite as much resemble the other and the pubescence may be on the leaf in patches thick or thin or nearly absent on the same leaf - whilst in true species we would find it uniformly distributed.

The Kansas *Q. prinoides*? are evidently the above ground growths from old roots as I stated in my former letter. So are my impression, but an actual examination was not made.

I can not send you *Q. alba* ~~for~~ here this year not a fruiting specimen to be had as the crop is total failure. Our white oak woods have suffered severe damage this year from lossing



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these leaves by a green worm 4 weeks  
ago a small yellow moth developed  
from the defecator that swarmed the  
woods in millions for a few days  
though latent buds subsequently  
developed. leaves the forests are yet  
presenting a shabby appearance  
and if a second brood appears from  
the eggs that must have been laid  
by the moths the noblest of our  
forests will be utterly destroyed

Yours truly

O. S. Hall

I send you by to days mail  
notes on arborescent & cryptoterenat  
flora of Arizona in about Poa  
Durandi figures from botanical  
magazine if you do not take it  
can



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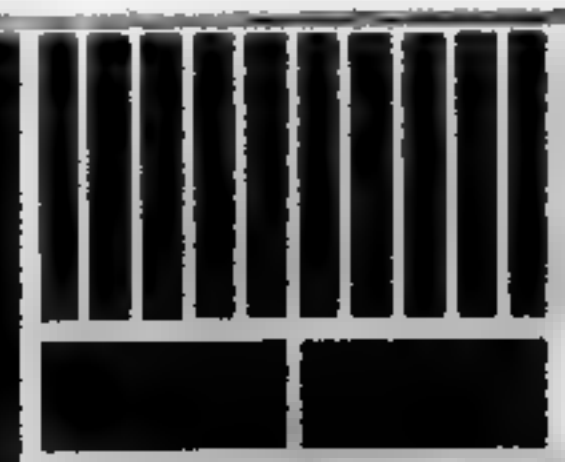


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Rec<sup>d</sup> July 31<sup>st</sup>  
Amby 2

Athens Ill July 29<sup>th</sup> 1872

Dear Engelmann - your last was duly  
received I have delayed reply to have oppor-  
tunity examine those Protes but so far  
all the localities of the plant I have so far  
visited are none - not a plant to be  
found. This begins to show that the  
plants are developed only in peculiarly  
favorable seasons. This one being  
very wet would have seemed favorable  
but not a plant is to be found - when  
they were often seen by me before in  
plenty - I have not yet examined the  
soil for the bulbs but think I shall  
have opportunity to do so before winter  
I sacrificed a bout a dozen dried  
specimens and found them all  
completely dioecious no admixture  
of male & female organs in the same plants  
but if I am not at fault in recollection



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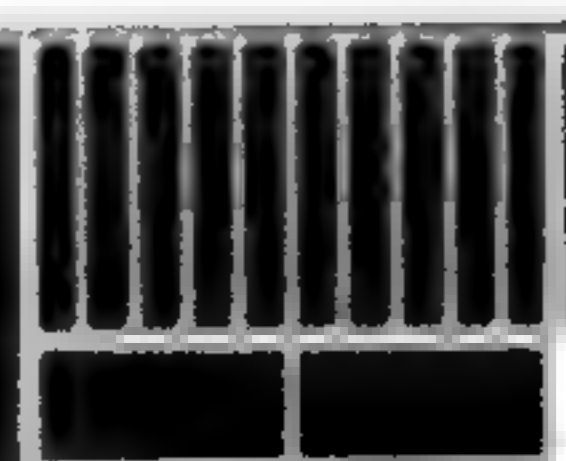
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I have in times past seen the  
plant's mucron with the male  
organ interior, but my recollections  
may be from the examination of some  
other species

*Rosa foliosa* behaves very much here  
as does the *R. blanda*. It blooms all  
summer and the later bloom are from  
the suckers. but it is hard here &  
survives the winter to the tips of its branches  
but not growing above 8 to 12' high

I will send you roots in fall or Spring  
My first impression of *Quercus lyrata*  
seen at Dallas in Texas was that it was  
a geographical variety of *Q. macrocarpa* & did  
not suspect it being more till Gray  
called it <sup>in his</sup> ~~his~~ determinations of the collection  
*Q. lyrata* the matured fruit is  
unknown to me

I have just seen interested in  
watching the blooming of the last specimen  
of *Agave virginica* brought from the  
Indian Territory in 1872 other specimens



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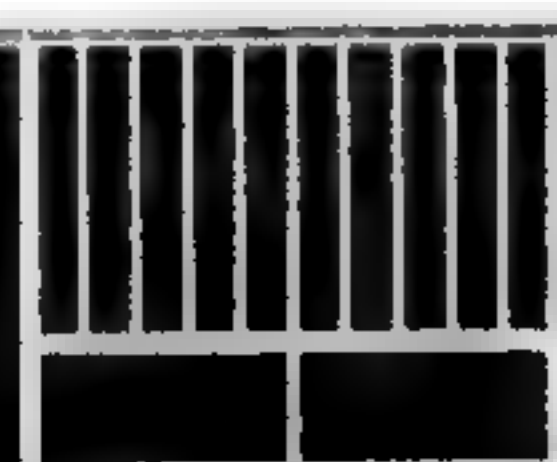
having flowered in previous years  
and died as is the habit of the genus  
its method of preventing self  
fertilization is interesting developing  
the stamens in advance of the stigmas  
& shedding the pollen on the stigmas  
of flowers that have cast the stamens  
below. the interesting point comes in  
however strongest from the fact  
that the lower flowers produce  
abortive stamens only. having no  
matured stigmas to fertilize. it would  
seem to save a waste of material  
this plan was laid I am now  
anxiously waiting to see in what  
shape the last stigmas will appear  
as there will be no pollen but their  
own to fertilize them.

all of which however I suppose  
has been long known to you

Respectfully

Yours

Edwin Hall



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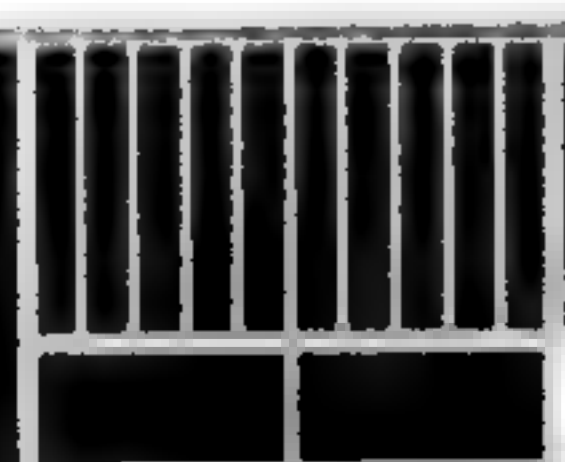
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Rec Aug 28  
Ans 31

Athen 22 Aug 20<sup>th</sup> 1862

Dear Engelmann - your of Aug 2<sup>nd</sup>  
was duly recd & have watched my  
agave virginica through & found  
there were others (high up in the spike)  
infertile anthers. These anthers seem so  
perfect in every way except in the production  
of pollen that I am disposed to regard  
them of some special use in the economy  
of the plant - as yet unknown.

My plant has however failed to  
afford a completely fertile ovule & no  
capsule have formed.

All the plants I have had to flower  
here have invariably perished. root  
& all - whether this is the habit of  
the plant at home or not - will see  
how this remaining one behaves in that  
way - it will probably be found that  
most plants many years in coming



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to identify me at the date of  
recognition - *Rosa Carolinaensis* of  
the 2 roots brought from Alabama  
to me in 1869 one killed & perished  
in 1875 & the other is yet living  
and made no effort to flower  
This makes the species somewhat different  
from the character given it by Gray  
as a biennial or triennial the plant  
I now have cannot be less than 10 or 12  
years from the seed & probably much  
more

*Rosa pilosa* produces flowers at the ends  
of shoots either from the old wood  
or from the collar shoots I notice fls  
to day from shoots from the old wood  
it fruits plentifully - I suppose only  
the strongest buds produce fls & the  
weaker ones leaves only as would be  
expected the flowers are produced  
chiefly at the ends of the present year  
branches and at intervals all the season  
being quite a perpetual in its modest way



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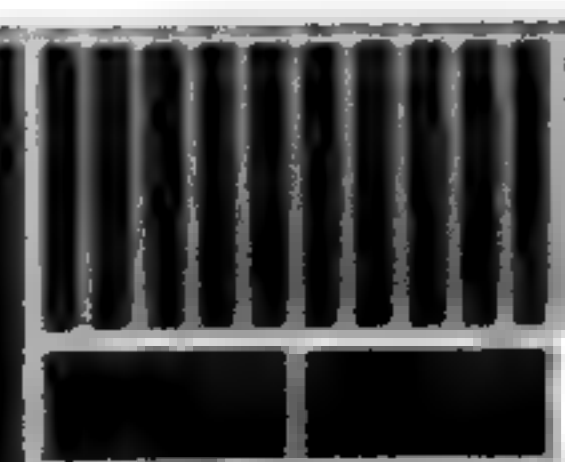
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I find no small ground in the seeds  
of many of these. I do not know the  
plant is native on this State - should  
be glad to try grow an annual flowering  
specimen to see how they behave here  
Did you ever examine the Staminal  
tubes of *Asclepias Sullivanti* - I believe  
it is common with you - too late  
now - but another time see if you  
can find out why it is necessary for  
so many honey bees to sacrifice  
their feet and to even perish themselves  
in its traps - I do not as yet

recognize a useless waste in nature  
I regard the great author as truly  
economical - that there is sacrifice for  
the good of the whole I admit & this  
is all - seeds of the millions that may  
be in the earth often seem to germinate  
in the proportion that opportunities to  
live & food supplies are available -  
the numerous apparent exceptions to  
this general law does not invalidate it



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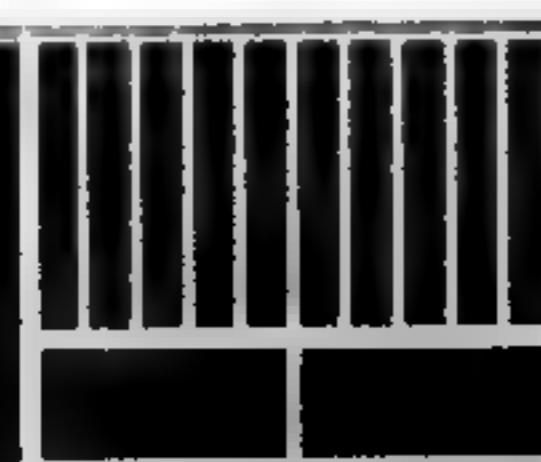


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as there will be found to depend chiefly  
not ~~at all~~ upon abnormal  
conditions. And as to the pollen  
wattle in Indian Corn. This may be  
long to these conditions as it is  
cultivated plant - but in nature  
where self fertilization is not provided  
against the matured stigmas appear  
first - and we know this to be  
true in the animal world  
we should expect it in the lower  
order of life.

Yours truly  
G. Engelmann

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Rec Sept 12<sup>4</sup>  
Am ~~Feb 8~~ 13 Sept

Athens Ill Sept 1 1877

Dear Engelmann - your kind recd.  
last week - I will in a day or two  
send you the Specimens of *Q. alba-macrosea*  
I send you - There is just a little  
misunderstanding about the economy  
of nature - She does not create for  
waste but intends for every grain of  
corn to grow & reproduce its self - but  
of course is not cognizant of conditions  
- and is often defeated by them - as  
to seminal cells or germs - This may be  
a phenomena as yet unknown to us  
but if as we know it now. may not the  
thousands that fail to the one that fertilizes  
be understood as being necessary on  
account of the difficulty attending  
impregnation a process certainly very  
little understood. That organized  
beings are developed to the utmost & that



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existing conditions will admit of  
is evident - This is nature - to  
keep full - if but for an hour  
it be possible for life that  
hour is not left to waste but  
is filled with life as the conditions  
permit - but this is not our  
the subject - but anything  
but wasteful nature she  
must be economical & creates  
for use only

I shall be always glad to get  
your published paper & the  
roots of Agaves or other  
rare American plants

I return herewith your drawing  
of the Texas species - when  
I makes offsets shall be  
glad of a specimen

Yours truly

W. H. Hall

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Rec'd Dec 22  
in ~~Box~~ 28 Dec

Athens Ill Dec 20 A. 877

Dear Engelmann I thank  
you for papers just rec'd on Oaks  
*tinctoria* & *Agave* *Shawii*  
I have hastily run through the oaks  
in part and am glad to see that your  
views on hybrids are much nearer the  
facts as I understand them than hereto-  
fore - you have doubtless however  
mistook one of the parents of *heterophylla*  
*phellos* & *falcata* (609) (Texas Collection)  
did not the leaves in form so plainly  
point to *falcata*. The pubescence would  
exclude it from *rubra*. and as neither  
*tinctoria* nor *coelestis* are found in  
the Texas (Houston) locality <sup>where</sup> a single  
tree only seen  $\frac{1}{2}$  inch in diameter &  
abundantly fruitful I believe I sent you  
specimen with young fruit if not I  
can do so yet - a little  $\frac{1}{2}$  taken in  
connection with these facts there is no



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Donk as to *palustris* being one  
of the parents of *Phelos* doubtless the  
other

I also got in Texas at Houston  
2 other hybrids that you do not  
notice 205 of the collection *Quercus*  
*phello-palustris* & *Quercus* *fulcata-*  
*rubra* (207) - I believe I have  
sent you all these but all  
collected too early to show the fruit  
When I have time to study your  
papers may have some further  
to say - I sent you  
*Rosa foliolosa* in case hope  
you received it all right

Yours truly

W. Ball

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Recd Jan 22  
Am Febr 8

Athens Ill Dec 30 1877

Dear Dublin Happy New Year  
your letter recd - I enclose  
you all I know - written from notes  
taken on the ground of the Oregon Abies  
(which I suppose you already have  
however). I suppose the fir you saw  
at the Centennial the big section was  
*A. Douglasii* small - saw nothing like  
any - (see printed notes) It is called  
yellow fir just because we call  
yellow & white Pine that way - the  
people do that to distinguish it from *A.*  
*frankii*, which has whiter wood &  
is valuable for fuel and indeed for  
all mechanical purposes. - (see printed  
notes for all I know of them). Did you  
see a stock of that wood? Butler  
from your description I thought I had  
it here in a seedling state of *melanophora*  
and as looking I could not find it



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You seem to be out of luck in  
stating again that *S. melanosporus* was  
found by me in <sup>Hem</sup> Dallas Co.

It was in the Perie woods at Houston  
and Hempstead only seen by me  
when it grows loose with stipes erect  
& the cross divisions more opaque  
& transparent — I do not think

It is very puzzling to correctly  
refer by oaks (when on the ground  
where the parents are about — In  
heterophylla how could the persistent  
pubescence of the leaves come — Junon  
soeenea when it has none & there  
can be no mistake as to phellor  
being the other — smooth also  
from the

S. H. S.

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GARDEN

Rec March 16

Athens Ill March 12<sup>th</sup> 1878  
Dear Engelmann - your letter  
of 7 Feb (let unanswered) & the  
paper on *Spies* was duly rec'd &  
now your card enquiring after  
*Arctostaphylos*. I fear you have  
made me exaggerate the height  
of *A. grandis*. If I said 300 ft  
& evidently meant the other fir *A.*  
*Douglasii* which is the tallest  
as well as the largest tree on the  
Williamette the fallen trunk of  
one I paced 80 steps upon leaving  
the decayed top & counted for to  
make the 300 feet I never measured  
a trunk of *A. grandis* to my recol-  
-lection what you state about  
my Oregon *Arctostaphylos* are  
as I recollect them certainly as to the  
fruiting specimens in September  
about the middle as to the young



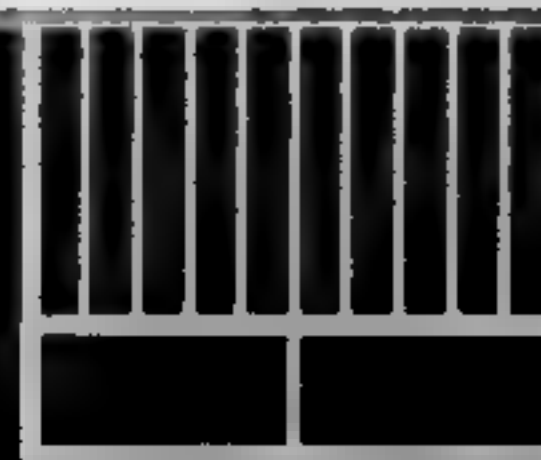
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plant though I do not now recollect  
exactly as to time when I told you  
in July that must have been the  
time - I have no date to fix the time  
exactly as I have of the fruiting  
Specimens - 457 July - 458 Sept  
In clearing up wood land this winter  
a remarkable instance of accidental  
grafting of *Quercus Prinus* var *acuminata*  
was developed. It appears that about 35 or  
40 years ago some as a man had boxed  
the tree probably for the purpose of testing  
its splitting qualities as is the habit of  
rail makers &c. a block was cut  
from the tree by cutting 2 notches each  
with a horizontal & sloping cut  
& the block then split out & set  
back in the place with the bark in-  
side which brings the two horizontal  
cuts together and also the sloping cuts  
the block had united with the living  
tree had clothed itself with bark  
on the out side & was nearly entirely



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restored to vitality throughout  
I suppose you are incredulous  
~~so~~ would any of us be - but  
nevertheless. the fact remains  
I observed your weather predictions  
made in January based on 43 year  
observations that this phenomenal  
winter has entirely ignored so far  
the "Cold March & late Spring"  
does not yet come on the con-  
-tinent we have Spring here already  
The Hepatica & Claytonia is in  
bloom in the woods & Peach trees  
are ready to open out in a day  
of Sunshine more - will they  
escape 6 weeks of probable frosts yet  
to come? Can you help out  
in this extremity & suggest  
any means whereby we  
could save some of them

Yours truly

Elihu Hall



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Rec May 31

Athens Ill May 29<sup>th</sup> 1858

Dear Engelmann

Your letter was duly read  
Sorry to hear you were temporarily  
afflicted - My ailment is Chronic  
and is of some Lung nature either  
Bronchitis, bronchial Catarrh, or  
possibly tubercular Consumption  
my left lung seems to be entirely  
affected have daily Cough & expecto-  
ration of mucus & purulent  
matter Since winter is over  
& I take regular out door  
exercise I feel I am gaining  
flesh & strength but the disease  
still holds

I send you for our German  
Correspondent no 547 & 548 of the  
Oregon Journal - Give him the best  
I have - The tickets with them



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plantae Oregonensis  
are <sup>547</sup> *Juncus* *acuminatus* Michx.  
" *dubius* Engelm.  
And letter to me <sup>from you</sup> *J. xiphoides* var.  
Mar

548 *Juncus acuminatus* Michx.  
" *dubius* Engelm.  
" A form of it " A. Gray  
*Juncus xiphoides* Engelm. in  
lit. vars.

Marion Co

I don't remember if I sent you  
my set but from the tickets I did  
though I don't see your writing on any  
of the labels. Probably you named them  
for Dr Gray & I sent you specimens  
of the doubtful species afterwards  
which would explain your names on  
the tickets seemingly put on afterwards  
by my self - but I have no remem-  
-brance of the transaction & cannot recall  
it my memory fails me of late  
and I now make record notes of



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every thing necessary to be remembered  
in all business matters.

My duplicates of Oregon Juncei are  
to meager to satisfactorily divide with  
our German friend except I  
triformis & falcatus I believe I could  
not divide a species with him

Yours truly

William Hall



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3 April 11  
Am - - "

Athens Ill April 10th 1882  
Dear Engelman

Thanks for your ~~Proetes~~  
publication. So much  
research & history must have  
been no little labor  
As to melanopoda you remember  
what I had forgotten as to its  
discovery - dates & all this is  
remarkable - And already  
I am besieged for specimens  
of it & so I fear you have  
given me unenviable notoriety  
with all. If I had time this  
would be a pleasure but now  
right in the midst of spring  
planting I am too busy to  
attend to such things. I have  
not studied it much yet



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I See the printer sets melanospora  
and melanopoda mixed  
but this an error easily  
seen. This is a wet  
Spring with us & I suppose  
we are to have Frosts in  
great plenty

Yours with thanks

Elihu Hall



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