

Rec^d Jan 8th 1863
Ans Jan 11th
Office of the Geological
Survey of California
San Francisco Dec 3/63

Account

Dr. Geo Engelmann

de Sir
My

friend, Mr Bolander
has just shown me a
letter of yours of Sept. last,
addressed to him on
the subject of California
Coniferae.

During the last
three years I have
been employed on the
State
Geological Survey, and for
twenty eight months
of that time have
been in the field, the
~~most~~ of the time

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in charge of the
principal party in the
exploration - during the
most of this time I have
collected plants, and
have now quite a bulky
amount of material
on hand - but in the
department of
conspicuous plants is
my collection no larger
as in America - I
have however specimens
more or less complete,
of 25 or 30 species, of
about 10 of which are of
the genus Pinus

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My specimens have
been collected as I
could find them, and as
my time would allow,
and not with the
completeness that would
attend the collections
made by one especially
interested in that family.
Of some I have only the
leaves and foliage,
others flowers.

During the present
summer I spent
nearly 8 months in
the higher Sierras,
was three times above
13,000 ft., often above
10,000 ft., and spent
whole weeks together at



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4 altitudes above
8000 feet, and took
limited notes all the
time on the distribution,
habits etc of the Coniferae
of the upper regions -
Some of the facts I
abundantly proved, to my
own conviction, I will
find it hard to
make Eastern or European
Botanists believe -

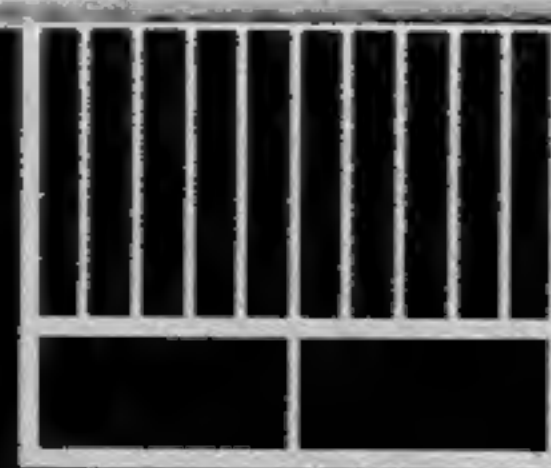
The tree vegetation extends
nearly to the top in the series,
the tree of the greatest
altitude is *Pinus flexilis*,
next comes *Abies Williamsonii*,
next, *Pinus contorta* (Murrayana)
Juniperus occidentalis
and *Picea amabilis* -
as yet I have not this last

Just like Rocky Mts
if *Williamsonii* is not here



is replaced by *Picea*⁵
maritima - These six species
grow at altitudes where it
freezes nearly a quarter
every night in the year,
and where the thermometer often
registers as low as 10°-15° F.
The clear nights of summer!
And yet under these
circumstances, ^(except *P. flexilis*) grow to
the diameter of 4 ft or
more!!

Have you worked
up the Euphorbias of
this state? - I have not
access here to your
works. I have quite
a number of species in
my collection, which
resemble most
closely those of Europe



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than those of the
Eastern U.S. I have
met with but one or
two woody species - and
those growing in the
driest soils are not
fleshy.

Cuscuta's are
rather abundant, and
grow under a variety of
conditions, but I have
no idea of how many
species we have.

Somebody must
work up our Californian
Cuscutae, they are in
hopeless confusion,
brought about by the
poor collectors run



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Europe, who seized on
every form as a new species,
to sell seeds at wonderful
prices - I have circulars
from Great Britain, as late
as 1855, where cones with
seeds, of some of our
Californian pines, are
advertised at prices as
high as ten pounds
each - Hence the temptation
to make new species
is very strong.

If you want specimens,
or wish to work any families
that I have, or may
collect, they are at
your service, and I
will be grateful for any



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help in that line -

I send the most of my
specimens to Dr Gray - I will
soon send him a set of
my this year's collections,
I anticipate much of
interest in my alpine
collections - I have not
the means of determining
any of them satisfactorily
here -

Please let me hear
from you and believe
me

Your old servant

Wm H. Brewer

address
Prof. Wm H. Brewer
State Geological Survey
San Francisco
Cal



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P.S. Since writing the preceding, Mr. Bolander has just brought me the "Transactions" of your Academy and I have hurriedly glanced over your articles on the "Pines, and the 'altitude of Pikes Peak'" - p. 128. Vol II - No 1 - On p. 130 your remark "Both these observations cannot refer to a real snow line, as that never reaches down to the limit ^{even} of the most scrubby Pines" -

In this State, North of Lat 38, patches of snow lie usually through



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through the summer
as low as 8000 feet, while
several species grow
to the size of large
trees above this. There
is ~~now~~ no well defined
snow line, in the popular
sense of that word. The
summit of Mt. Dana
(13,200 ft. above sea level) Mt. Shasta
(14,440) etc. are barren, barren
and have plants. The
aspect and character
of our tree vegetation
at these heights are
entirely unlike those
of either the Eastern



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States a summary - I shall
offer a short paper on this
matter ^{soon} ~~near~~ to our Acad,
of Nat. Sci - here -

How can cacti be
preserved for determination?

I may take a trip next
Spring to the Cactus
regions of this State -

I have not met
with your Pinus aristata
on our mountains

W. H. Brewer

I enclose seeds of
Darlingtonia Californica
Grows in a magnesian
soil, derived from
decomposed serpentine



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by small rills of pure
running water.

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Rec March 4th

San Francisco, Cal

Feb 10th 1864

Dr. Geo. Engelmann

Dear Sir

Your very

kind and acceptable
note of Jan 10th reached me
yesterday. I am greatly
obliged for your notes and
suggestions. - You shall
have specimens from my
collections of such families
as you deem your "pets."

I send my specimens
to Gray by express, it is the
best in the end -

In regard to Corniferae
I have many notes, but my
collections are very incomplete.

I shall do nothing with
this family until I get more



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mine material.
It is impractical
to send specimens by
mail unless with letter
postage - otherwise they
must go by steamer, with
the newspaper mails, and
all much more liable
to loss or mutilation. I
send packages by express,
in tin cases, & guard
against accident, and will
send specimens & Gray
in that way within the
next two months - in
fact, just so soon as I
can get them off. I
will send all except
Herms (Cator) grasses (Thurber)

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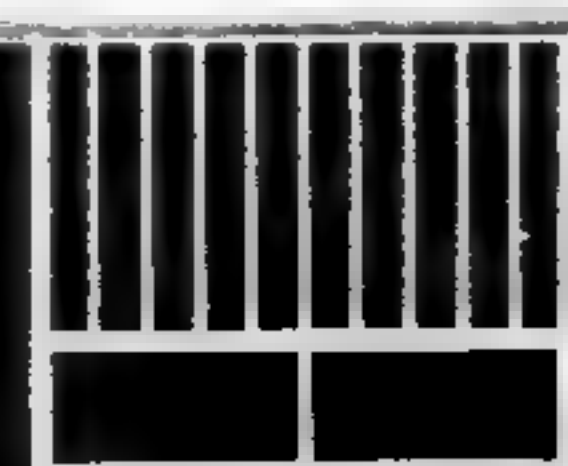
and Carices (Boott) to
Gray, and you can doubtless
get specimens through
him.

I would like to have
a talk with you about
"Snow line" - alpine vegetation
&c., but am too busy
to day.

Let me hear from
you if you have any
further suggestions and
believe me

Yours most truly

Wm. Brewer



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P. S. If you prefer to
have the specimens of each
year's collection sent separately
I will make arrangements with
Dr Gray to send such as he already
has, and in future such as he
will receive - & if you prefer, I
will wait and send all at
the close - I will not probably
collect longer than the present
year, and then go east and
get the material together for
publication in some form - I
wish to publish first a
catalogue of the plants of
the Pacific States, and have
also the ambition to get out a
Flora of the same region, that
is, do it with the assistance
of able men east - All this
however is in the future -
I will meet any expenses that
may accrue in getting plants from
Cambridge to you - W. H. B.



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Recd April 6th

San Francisco Cal,

March 14th 1864

Dr Geo Engelmann

My Dear Sir,

Your

letter of

a month since reached

me a few days ago, and

about the same time I received

a letter from Dr Parry, I have

answered him at length,

and then send the letter to

you, & forward to him, for

the double reason of letting

answering both of your letters

at one writing, and to ensure

his getting it, for he may

have left Davenport before

this reaches you - I am glad

that he sent me the list

of localities, but fear I can

make no practical use of them



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I fear the field
work of the survey will be
suspended, for a time at
least, owing to the condition
of the state finances, and
the fear of a terrible and
disastrous drought that
now threatens us. There may
make it necessary for
me to come East this summer
to work up some of my results.
If I do I shall be obliged.

I will send you some
specimens of *Abies Willianovii*
soon. We have just been
packing up & moving our
rooms, and my boxes are
now all boxed and stored.
I will have them out soon.

Mr Bolander has
lately received a letter from
you



Hoping I hear from you
soon - I remain

Yours truly

Wm. Brewer

P.S. I don't think that
Dr Kellogg will describe much
more soon - He is a good old
man, has been illy used by some
other botanists, and is not taken
to describing plants himself.
but I think he will be more
cautious in future.



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Fragaria virginiana
var. *virginiana*

Strawberry
Fragaria

Fragaria virginiana L.
var. *virginiana* L.
var. *virginiana* L.
var. *virginiana* L.
var. *virginiana* L.
var. *virginiana* L.
var. *virginiana* L.
var. *virginiana* L.



Rec^d Jan 7th
Ans Jan 9th

Cambridge Mass.

~~Jan 2nd~~ Jan. 2nd 1865

Dr Geo Engelmann

My dear Sir,

I send you a
box from San Francisco, of
Coniferae, collected by Mr.
Bolander and me. It
was directed "Smithsonian
Institution, Washington D.C.
for Dr Engelmann"
and carried to the office
of the Pacific M.S. Co. for
the last steamer of October



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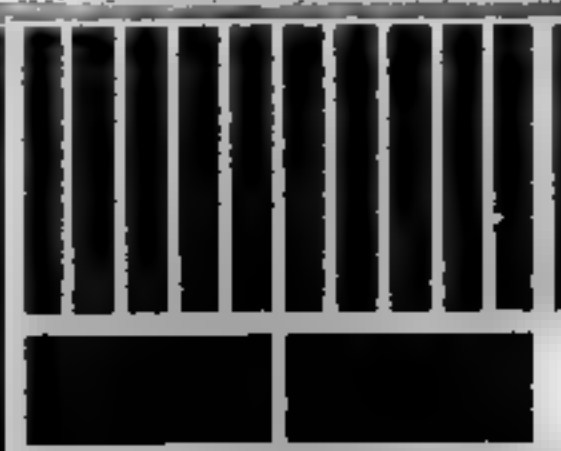


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It is by no means
as complete as I could
wish, but we had to
make the box small to
have it go free.

In it you will
find one new species

a beautiful and striking
pine I found this last
summer on the higher
Sierras south. It grows
well mingled with
the P. flexilis in the
Mts. at the head of
King's River, but does
not extend north as



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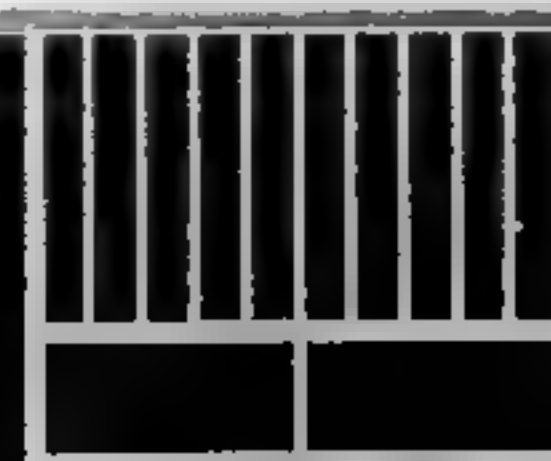


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The *Sau fragum*, unless
it be on its extreme southern
branch. On the head of the
Perm. further north it
entirely replaces the *P. flexilis*
according to Mr C. H. King,
one of my party whom I
detached to explore there.

Full notes accompany
all my specimens.

I returned last
month, and will spend
some months at Cambridge
at work at my
reports on the Botany of



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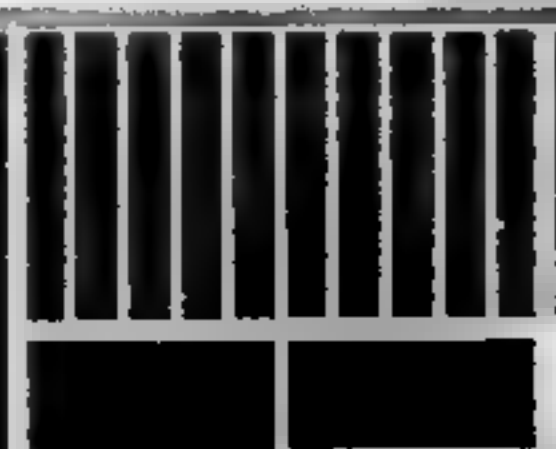
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California - Will you
work up some families
for me, your friends, &
be incorporated in the
report? The details of the
plan ~~that~~ I will give as soon
as prepared - I want to
publish ~~as~~ a Flora, with
abridged descriptions -

Dr. Gray sends regards,
says he has a package ^{for} ~~from~~
you from Wright which he
will send soon, and also will
but he has been so very busy
of late that your last is
yet unanswered -

Hoping to hear from you
soon I remain
Yours truly

Wm. H. Brewer



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Recd - Feb 8th
Ans Feb 16th

Cambridge Mass.

Feb. 2nd 1865

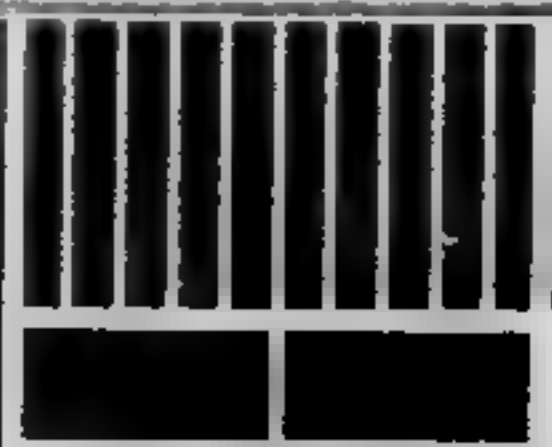
Dr Geo Engelmann

My dear Sir,

Your kind note
of Jan 9th was received
in due time. I delayed
answering it until I had
had something more
definite to say.

Of the families you
speak of, in some I have
scarcely any material -
In others more -

I am at work
at a Flora of California



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I wish to get out a
volume enumerating all
the plants actually found
within the borders of the
State, ~~and~~ ^{and} such as were in all
probability to be found, with
short descriptions, ^{in English} - The
descriptions about as full
as they are in Gray's
Manual, sufficiently so
to determine the species
there, something on the
plan of the British Colonial
Floras. Using all the ^{material} ~~material~~
I can command.

Now, can I get you
to prepare the following
portions?

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Fam. Cactaceae

" Loranthaceae,

Gen Cuscuta

Euphorbia

(Linum)

(Alismaceae)

a copy of not all, any
portions of them, or of no
what portions - I especially
desire the four first named -
of Cactaceae I have no
materials, that will have to
be compiled from previous
works. - of Loranthaceae I have
none - but by no means full
of Cuscuta, I have no idea
how full - or of Euphorbia -
of Alismaceae, we have but



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5 little in the state of
Louisiana Prof. Gray has already
determined two new species,
and perhaps you would not
wish to take it as if the
cream is thus taken ^{from}

We have but three
Abies in the state, so I
may not work up the Camp
myself, but my material is
not complete.

The pine I have always
taken on P. flexilis, and (it
is ~~so~~ ^{as such} figured in pregin journal)
is not the flexilis of the
Rocky Mountains.

I will be obliged to
get all the help I can



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Recd Feb 8th

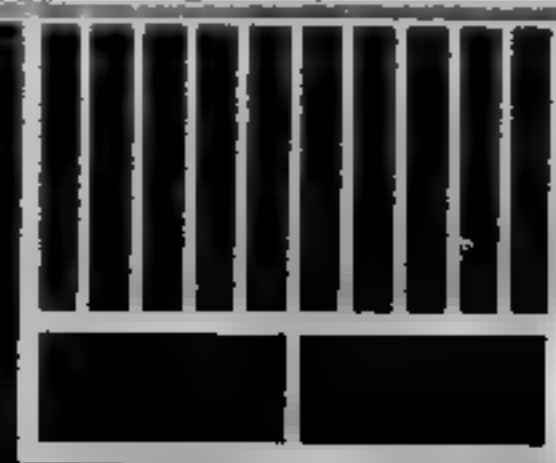
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in this work, and any
that you can do will be most
gratefully received, and
duly accounted. I should
like the work done within
nine months, - I should
not object to even more
help, but have not the
conscience to ask for
any more -

Latom will prepare the
Juncaceae & Fichus, &
Thurber the grasses - Both
determined a part of the
Caucas before his death -

Yours truly

Wm A. Newer



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Rec^d March 24
Ans Nov 26

Cambridge Mass.
March 20th 1865

My dear Dr Engelmann

Your very kind
letter of the 12th is at hand -
I have forgotten whether or
not I have answered yours
of Feb. 16, if not it does not
need it especially now.

I sent no specimens with
Dr. Gray "By box" because
it was packed before I knew
anything about it.

I have no specimens of
the Cal. Neptha that are new,
it is not a common plant &
I have not been at the few
localities where it was in the
paper state for gathering.



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In ~~regard~~ regard to notes
on certain plants,

Callitriche
3870 (*C. vernata*) was collected by
Bolander in April, 64, his only
note is "Floating in water, Sloughs
of the R. R. (Russian River) - This is
near the coast (N. & S. F.) and
probably ^{west of} the San Coast Ranges.

1256. ~~the~~ *C. marginalis* Torr.
on mud by pond in Cañon
of Arroyo del Puerto Puerto.
(on the E. slope of the Diablo Range)
Common, June 11 - 1862 - I have
made no other notes

465. *Cleome emorii*, I have no
note of - by some mistake I have
noted it - It is quite abundant
over rocky hills, 2-4 ft high,
among the San Ranges from



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for Angeles & the Salinas Valley &
especially. This specimen was
gathered near Pan Luis's dish and
written from memory.

Pinus Coulteri, is
distinct, decidedly, from
P. Sabineana - and a much less
abundant species. The former I
have only seen in the Coast Range
S. of Bay of S. Francisco. The latter
is abundant over the dry hills of
the Coast Range, & also the
foot hills of the Sierra Nevada
the whole length of the state. The
habit of the two trees is much
alike - the cones are distinct,
and the seeds are so unlike
that you cannot mistake a
seed collected, even though he
sees only the seeds.



4 P. Tareyana I have never
seen. - I found cones of a
3-leaved pine in Walker's Pass
(Sierra Nevada, lat. about $35^{\circ}40'$
and $5000'$) which were apparently
intermediate between P. concolor &
P. tabularis, which I thought then
(having no reference) was the
Tareyana, of course wrong, but
I was on horseback, had with
me man with me, and the
Indians were just then active
and murdering all the stray
travellers they could find, so
I had no time to study it, &
never saw it later.

The "P. flexilis" I sent
you, which occurs ^{from} ~~from~~ ~~the~~
Shasta (a dentless much pointed



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New March 24²

5

with) would to Lat. 37°, near
the perpetual snow. I got the
~~name~~ name flexilis from a
plate of the cone in the of of of
New Philes, from a loose plate (as
I don't know from what volume) in
the hands of a seed collector in
Cal. It was figured from specimens
from Mr Shasta, & seeds offered
for sale in Cambridge under the
^{name} ~~name~~ of P. flexilis. The branches
are very flexible. I have the
male flower. I think you will find
some in the collection, No. 1881

Abies Williamsii - I have
never seen the seed, but can
probably get some now, as Mr
J. L. Plaster (former Supt. of the
Central Park, N.Y., & now of the
Mariposa Estate, Cal.) prepared to send



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a man for pipe seeds, last
fall, when they should ripen. It is
a most graceful tree. I have a
very few old cones, I think, and most
of them were lost or injured.

The large fruited *S. Douglasii*

I think does not differ from the
smaller, it is at ^{the} ~~the~~ Douglas
Summit, ^{of the species} or nearly so. - I have
no more cones here, - I have
leaves but all have fallen
from the branches, although some
were immersed in boiling water.

I have neither fls. or fruit
of *Ephedra*, it was so captured
that I have never seen it
abundantly in either fl. or fruit except
when I was only on ^{long} horseback trips
& could not collect. It is
most abundant in the desert
East of the Sierra Nevada &



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glad to get. I have delayed
about sending anything, as I thought
you were not in a hurry, and
Dr. G. would have sent another
package.

I presume in the flower of Cal
to only notice the plants now
known to you in the wild, or in its
immediate borders.

Yours truly
Wm. Brewster



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Nov Dec 13
1885 Jan 22

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New Haven Conn
Dec 9th 1885

My dear Sir
Your letter relating
to Pineus, fungus &c, and
also the extract from the proceedings
of the Academy reached
me in due time - I have
been in unusually bad
health this fall & winter
thus far, first diphtheria
which has left me in a
very weak state, and now
a bad cold which has
confined me to my room
for some days -
These have prevented



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My answering your letter
immediately. I have done
nothing at Botany since last
summer. My room in
College's "apartment" with
Carpenter & builders, and
my calypso plants stored
in boxes, either here or with Dr.
Gray - I hope to have things
in a better shape soon.
and that you shall have all
you want to examine.

Eaton has done nothing with
Greece yet, and probably will not
if you will do them, but I have not
seen him since the receipt of
yours.

I will write more fully as
soon as I am changed

Yours truly
Wm. E. C. Brewer
Dr. C. Brewer
Dr. C. Brewer



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Acc^d Jan 31st

Ans Feb 24

New Haven Conn,

Jan 26th 1866

Dr Engelmann

My dear Sir

Your note of the
22nd is just received this
evening. The fungi will
be sent this coming week.

Mr. Eaton will go to camp very
soon, on a visit, and would
prefer to not do any thing at
all at that family, so all
I have are at your service -

I am recovering from
my dejection, I was never
so heavy before in my life,
lost healthier than ever
before, but the disease left
me in great nervous
prostration, most remarkable,
and from this I have not



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entirely recovered - but
except a certain weakness,
forgetfulness, and a great
disinclination to intellectual
labor, I feel as well as before.

With the beginning of
this term, the family of a
dear friend here, Prof.
Johnson, was stricken with
sickness, both ~~his~~^{his} wife,
and every spare moment for
three weeks has been devoted
to them - so I have neglected
the fungi - They are now recovering,
and I will attend to it in
a few days.

Have you seen Dr. Frey's
recent paper on some of my
collection? a nice lot of
new & interesting species
are noted.

Prof. Whitney has returned
to Cal., and has just sent a



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small party to Arizona,
and I hope they will collect
some plants, although I cannot
expect that they will many.

If another appropriation is
made for the survey, he will
employ Bolander & go into the
high Sierras next summer,
and we may expect fine
things. A man there with
nothing to do but botany, and
get much more than I did -

I will drop you a line
when I send the fauna -

Yours

Wm. Brewster -

I cannot find that any
seeds of the Abies Williamsii
have been secured -



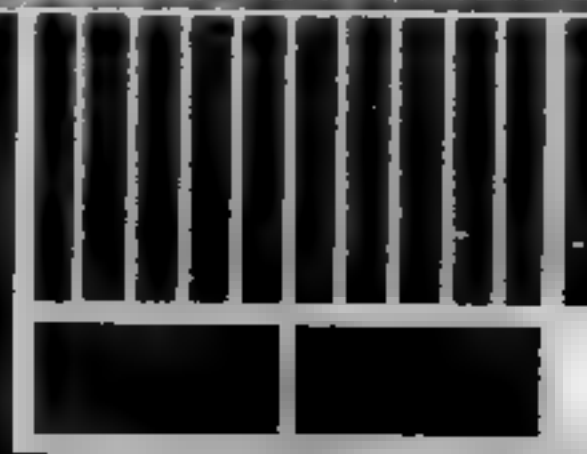
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Rec^d Feb 21st

Aug - 24th

New Haven Feb. 15 - 1868

Dear Dr Engelmann.

I am sorry that the fungi did not get off before - They went yesterday by mail, they are not so numerous as I thought 2 of the species collected by Bolander, Hillebrand & Bloomer I have but a few meager specimens. If I had but two I have generously sent you one, if I had but one I sent you that - Now if you have duplicates of those species, please return me one specimen of each - if not, then keep them - Regrettly I have so delayed the work - I hope they are not too late.

Catar was married yesterday & sails for Europe to-day.

Yours truly

Wm. H. Brewer

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Rec^d March 12th

New Haven March 7th 1866

My dear Sir

Yours of a week ago was duly received and I have just looked up the matters inquired about, which I will answer - as far as I can.

486 - Was found in a stream in the hills between the town of San Luis Obispo and the landing of the same name, the town being a few miles from the sea. The fungus was rather common, but unfortunately I got but few specimens. I have but one more here with no.

524. Moist swale in the Santer Margarita Valley (upper Salinas valley) May 1st 1865



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529. is a mistake - I have no
fences by that number, the
number truly represents a
Carex in the collection. I do
not know why I inserted it in
the list.

684 "99 the Laguna" far up
the "Arroyo Seco", in the
Santa Lucia chain, west, or
S. W. of the Poledad Mission.
May 29th 1861

1581 - I have in a lot of plants
from Bolander collected in 1862
from the immediate vicinity
of San Francisco, (Mission
Dolores) May a few.

1992 - I bear in list. I have it
marked in my list, and
yet I find no specimens
now in my collection - It
may possibly turn up hereafter,
if it does, I will send it, it
was an alpine species.



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~~2338 is the same as No. 1804
and 1992, so I did not
send it, although I had it
marked on the list~~

2338, & 2339, were collected
in the Sierras by Dr. Wm.
Pillebrant (of Hawaiian Islands)
either at the "Big Tree Grove" or
in the Yosemite Valley, he did
not label them - I got them
through Bolander.

2350 is the same as No. 838 &
1159, ^{originally} so I did not send it,
having but a single specimen.
The species has a remarkably
flat stem, the leaves are
ensiform - It is rather
common in the Coast Range.
When I ~~was~~ put up the specimens
for you, I was very busy, and
was interrupted several times
by other persons, and these
interruptions led to the



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4.
mistakes - Furthermore, not
having the Cases for my
specimens yet finished, I
am still in confusion,
and this has added to the
difficulty

In regard to the ^{oaks} ~~oaks~~,
I have many notes on them
but have done nothing towards
working them up. That set, of
which *Q. agrifolia* & *Q. Wiegleyi*
are the most common, is in excellent
preservation. The first only ^{ranges} ~~ranges~~
N. to about lat 39° & is rare
north of the Bay of San Francisco,
except in its immediate
vicinity. north of this the
other species replaces it.
The former is more abundant



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March 7 1866 5

in the Coast Range, the
latter in the Sierra Nevada,

At least, this is w. if I
have rightly identified
the latter species.

Eaton will be in
Europe until Sept. He has a
brother in law here, and his
parents will spend a part of
the summer here, so I will be
able probably to forward any
letters to him if you will
send them to me. I cannot

tell what his address will be
as he proposes to travel, & just
now his relatives are not here
so I cannot find out - but
I will see that letters go to him
by the most direct means, if
you send them to me.

Do you propose to
work up the Californian bats?
There is a lot of work for some



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~~me~~, me, and I have a lot
of notes on the matter.

Yours truly

Wm. A. Brewer,



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Recd March 12th

Sheffield Scientific School of Yale College,

New Haven, Connecticut, March 7th 1866

Dr Engelmann

My dear Sir

Your most
valuable note of the 3rd I
received this morn, but
after I had sealed a letter
to you - I immediately
commenced a search anew
for No. 1992, and found it - it
is identical with 1804 and
2338 - It was from Elletts
Pass at about 9000 ft. No.
2338 probably came from the same
locality, as Dr Hillebrand was
with me on that trip and he
did not label the locality of
his specimens, but collected
them all "Big trees" which



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is some 4500 ft lower. The
other specimens of the same
species, No 1804 were got at
an altitude of 10,000 ft.

I am delighted that
you find so much novel
and of interest. I hope
to have Bolander collect in
the high Sierras this
coming summer. I had
all the time so many other
things to see to, Botany being
subordinated to my other
work, that I could give no
region a careful looking
up. If he goes there, he will
devote his whole time to



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Botany and will doubtless
get much more than I did
or possibly could.

Thanking you again
for your great kindness in
determining this genus
I remain

Very truly
Yours
Wm. Brewer



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Recd: June 12
Am, — 19

New Haven Conn
June 10 1888

My dear Dr. Engelmann,

I have to-day received
the ~~the~~ trans. of the Acad. Sci.
of St Louis, for which I am
greatly obliged.

I believe you have
made some study of
"microscopic fungi" - in the
any way of satisfactory
preserving such, especially such
as powdery mildew "rust", ~~rust~~
"smut", "mildew" &c. - I have
made but slight study of them,



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but would like to know
if such can be preserved for
an agricultural collection, for
instance - or what work can
you refer me to that will
throw light on the matter.
Any information will be
gladly received

I take the
liberty of enclosing my
card photographs - and
would be greatly pleased
to receive yours in return.

Mr. Bolander is now
employed on the Geological
Survey of California, &
will go into Yosemite Valley



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and the high seas this
month. I spend the rest
of the summer there - I
expect great results from
his zealous labors.

I wish to collect a
complete list of all the
Botanical collectors of the
Pacific Coast N. of Mexico -
be mentioned in your fungus
paper (not vol. p. 453) or collect,
Covey, & S. Palmer as collectors
in Arizona - where - when?
How much did they collect?

Yours truly

Wm. A. Brewer



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Wm H Brewer



Nov - Oct 20th

New Haven Conn, Oct. 17, 66

My Dear Dr. Engelmann

I am greatly obliged for the birds sent you last week, and the notes it contained - I thought an interesting paper might be made of the relation to the various collectors & collections in the Western U.S. & Western Mex. generally, north of Lat. 30°. And as notes have accumulated I have been surprised at the immense amount of labor that has been performed by explorers on that coast since the visit of Menzies. I have a list of over a hundred collectors, half of which number have collected a considerable number of species, each.



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As leisure and opportunity
offer, I look up the data
relating to them, and will at
some time publish it in some
shape, but for obvious reasons
wish to make it as complete and
accurate as possible before doing
so.

I do not think the flora of
California will prove as rich in
species as has been popularly
supposed, but my work is as
yet too incomplete to venture
any very precise estimates. From
my crude estimate made
thus far, I think it will fall
a considerable below 2000 species,
perhaps not over 1700 (flowering)
species.

Thanking you again for your
kindness, I remain

Yours truly
Asa Gray



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Rec^d - Nov 8th

For Nov 10

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New Haven Conn. Nov. 5-66

My dear Dr Engelmann

Many thanks for your
last letter - I had long tried to find out
who collected the plants at Camp,
Ross, (Col.) & had just before your
letter heard the name of Mangles.
I supposed it had been Wornessensky,
who was there in 1840-41, - but it seemed that
some one had collected before him -
A number of plants had been described
before that from Camp, Ross.

I enclose a list of the more
important collectors whose localities
lay west of Lon. 104° W. & who
collected specimens & the annexation
of California to the U.S. & I have
underlined those names of
which I desire more information
than I have.

Since 1848 a host of others



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I have collected on this leaf,
perhaps, near a hundred.

I keep my notes with it
now, and when any new information
turns up, relating to them, I
note it, and hope, some time
to publish an interesting &
instructive list. I find it
much more difficult to get
definite information relative
to many of these than you
would suppose.

When I commenced making
the list, it was merely for my
own use in preparing my Report
on the Botany of Cal. but as it
grew on my hands, I became
more interested in it, &
concluded to get the materials
into a better form, & then
publish it in some form.

Thanking you for your favor,
& hoping that you will advise me if
you can add to the list - I remain
Yours truly
Wm. H. Brewer.



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Rec^d Dec 18th

New Haven Conn.

Dec 15th 1888

My dear Dr Engelmann,

I have received
two letters from you
since I wrote, and am
much obliged for the
information

I have not studied
the Brackish water flora
here, but Eaton has
will write you, if he
has not already done so.

Weather cool, but
ground bare here, winter
seems slow in coming.

I am at work some,
but not much just now
in the Col. Herbar. - It is not
near done. but I hope to do
a big job on it during '89.



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I understand that
Bolander has done a lot
of work in the Sierra Nevada
during the past summer,
I long to see his plants
Yours truly

Wm. H. Brewer

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Rec^d Oct 11th
Any same day

New Haven Conn.

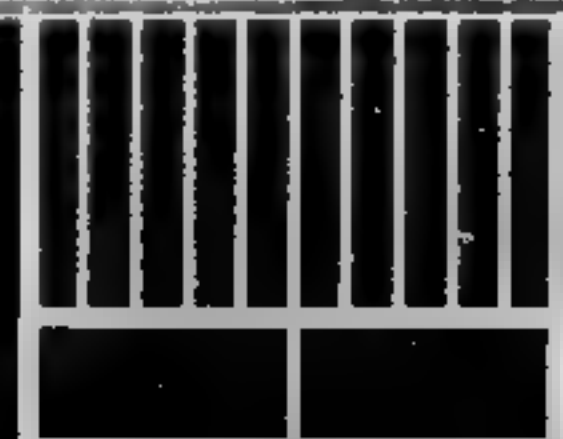
Oct. 8th 1867

Dr. Geo. Engelmann.

My dear Sir

I have just

received a letter from
Mr. Gabb. (of the California
Geological Survey) who spent
last winter on the Peninsula
of Lower California, & is now
in Southern Nevada. He says
he has collected about half
a dozen species of Cacti on the
latter trip - of Lower California.
He says he collected carefully,
and took copious notes, & wants
a list (and descriptions & names)
of them & asks me if you
will do it, and asks me to do
me the favor & write to him



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(you), and offer the man the material in my behalf on the condition that he will work up the material in as elaborate form, as circumstances will permit, & if possible as a monograph of the family for the peninsula. He may depend upon it - he has in my lot all the species, and I can give him much information about geographical range, habits, local varieties, popular names &c. necessary for a monograph. - I paid very special attention to the subject throughout the trip from the Cape (St. Louis) to Los Angeles."

I have copied what he has written me on the matter, will you please write



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To him, - he will be in San
Francisco by the time your letter
would reach him - His address,
Mr. M. Fabb.

(State Geological Survey)

San Francisco, California

My Botany^{of Cal.} progresses slowly,
I shall ~~devote~~^{devote} my whole time to
it after the first of Next April
until it is finished & hope
to have it done for the
press ~~next~~ by the close of
Next year. I long to hear
what you find in & of the
Ceriseae sent by Bolander.
I find the work of
preparing a complete
manual of the botany of that
State vastly greater than
I anticipated when I began
it, and during term time,
my college duties leave me



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but little leisure. Please
write to Gabb. if his proposal
pleases you. He is not a botanist,
but is a good observer & has
some considerable botanical
knowledge. He is the Palaeontologist
on the Col. Survey under
Whitney. but has done much
field work.

Yours truly

W. A. Brewer



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Rec^d Dec 10th
Am Dec 13

New Haven Conn. Dec 5th 67

Dr. Geo. Engelmann

My dear sir

Your letter of
over a month ago was rec^d
in due time. - I am greatly
obliged for the card. as you
you ask if I am "the Dr. Brewer
who collected plants in Utah
some 30 or 40 years ago" - I am
not, and moreover, have
never heard before that any one
of that name has collected west,
other than myself. There is
a Dr. Brewer in Boston, a noted
ornithologist, but he is no
relative of mine -

I will look up my collector
for Cal. Kenner, I have been
so very busy since I last wrote



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I have neglected plants - I
am crowding my years
work into two terms in
order to devote the whole of
next summer to finishing
my Californian botany before
the close of the year.

And now let me ask if
I can get you to write up
the Cactae, and Cuscutae,
for the work. I propose to
publish a manual, in
English, in the style and
plan of "Flora Californica",
with the technical descriptions
and full references, & synonyms
in coarse type, and any
additional remarks that I
may think desirable, - as to
distribution, ^{locality,} size of plant, &c.,
in fine type at the end of
each description of species - of



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course, I would help wherever
I can get it, but these families
in particular, and as much
as the Coniferae as I can get -

Please drop me a line, &
tell me what you may be
induced to do.

I have seen Prof. Eaton and
he states that he expects
to examine for the doctor this
fall.

Hoping to hear from you
and get a favorable answer to
my rather burdensome request -
I remain

Yours truly
Wm. A. Brewer



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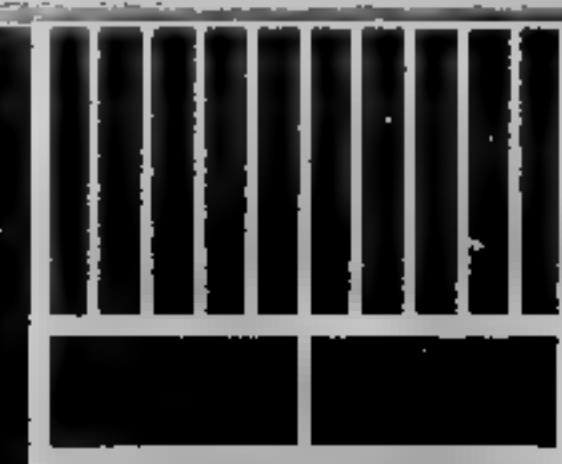
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Nov 19
Nov 29

Sheffield Scientific School of Yale College,

New Haven, Connecticut, Nov. 19th 1870

My dear Dr. Engelmann

Your kind letter of the 15, reached me last night, and finds me shut up indoors for a few days from a bad cold and incipient malarial fever - so I have time to answer yours now.

I spent a part of that summer in which I met you at Cambridge, there at work at my Cal. Bot. then returned here to my duties for two terms, then again back to Cambridge for three months the next summer (1869) then took a nice trip in the Rocky Mountains with Prof. Whitney & a party from Harvard - since which time I have been here, & the Cal. Botany has hung fire. But during

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The current year I have made arrangements to get away from New Haven for the whole of the year 1871, (or at least, be relieved of all college duties) and then I hope to get that Col. Botany finished - And I will be most grateful for any and all assistance I can get. - Now I will take up the items you mention -

Cacti - I have but little material, that part will have to be compiled from other sources.

Quercus - also little material - I think there are but two species in the state, the low one, with flower's stalk springing from a hollow, resin'd, or hairy leaves - the other the grand tree-like species - I wish this where I have no access to



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authorities and I have not
studied the family at all - so
cannot be as definite as to the
number of species - but I ~~hope~~
also draw in the field & those
two species.

Junci 40 - I am not aware
that anything new has turned
up - Dr. Gray received some time
since, a tremendous pile of
plants from Bolander for ^{determination of} sale,
but they were but partly assorted -
Prof. J. sent them to me to do
the work - I only got nicely at it
in vacation, when the birth of
a daughter kept me home for a
time, then my college duties,
& now this indisposition have
prevented my getting at it
again. So I have not seen what
of the Junci, he has.
Nothing whatever has been



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4
done with my Coniferae - I
am glad that at last we know
what the P. Balfouriana is.

My plans are, to get at
work as soon as possible after
New year, devote the whole of
1876 to the work, get all ^{help} I can
out of my friends, & I hope to have
the thing in the hands of the printer
before the close of the year, & lay the
volume before the next session of
the Californian Legislature.

Mr. Watson is now at
work at ~~Butler's~~ Prof. Eaton's, at
his Report, Eaton helping him,
the MS is well along, and I
think that Watson has been in
Washington this week to see
about starting the printing.

He is a most careful, diligent
painstaking and conscientious



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worker, and I shall look with
impatience for his report.

While at it, he has prepared
a ^{index or} miss. list of references to
all the species found in all
~~the~~ ^{the} available works
relating to the botany of Western
N.A. north of Mexico. A
little more work would make
it almost complete, and all
of us here are very anxious to
have it published - such a
work would be ~~an~~ ^{invaluable} ~~work~~
to botanists at work at our
western Flora - in fact, some
such thing has become a necessity.

He offers to complete it, prepare
it for the press and correct
the proof for \$1000. - and I
am pressing the Smithsonian
Institution to do it - Gray,
Edw. Dr. Tracy or backup me.

Thompson, East.

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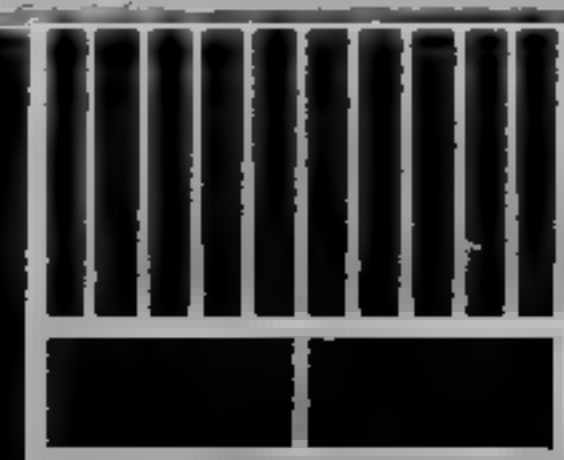
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As yet I have no answer,
but I will press it, but should
I fail in that, I shall then
make a push to have it done by
subscriptions from Botanists.

If well done, as I am sure
Watson would do it, it would
not only save so much time &
labor of working botanists, but
would also do away with the
necessity of repeating the tedious
references, ~~with~~ in future reports,
now thought indispensable. -

I am sure to have your
sympathies in getting this
work done -

Polander is in San Francisco,
I have had nothing from him
for sometime, but it is perhaps



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Sheffield Scientific School of Yale College,

New Haven, Connecticut,

187

my parent more than his,
as I think I owe him a
letter - But he is a very
busy man - I only wonder
how he manages to do so
much botany as he does. I
will however soon write him.

Remember me kindly
to Mrs. E. and believe me as
ever

Yours truly
Asa H. Brewer



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P.S. My year is open so long that you must
lay it aside to read at leisure. W.H.B.
Rev. Dec 28th Sheffield Scientific School of Yale College,
New Haven, Conn.

New Haven, Connecticut, Dec 20th 1870

My dear Dr. Engelmann

I received a letter
from you near three weeks ago,
and now for an answer - inasmuch
as Dr. Gray has just forwarded me
yours to him of a later date, with
some notes on the *Conium* -

Prisca, -- My materials
very scanty - I cannot lay my hands
on them just yet, but as soon
as I can, you shall have the
benefit - and the same is true of
my notes - I cannot now lay my
hand on any notes I may have
taken, but I will give you my
impressions - - While in the
State, I ~~only~~ believed in only ~~two~~
two species. A common one over
numerous dry hills, everywhere
^{in the coast ranges}
when dry, very variable as to size -



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The mass of leaves like
leaves very variable as to size of the
cluster and the size of the
leaves. Often a cluster used to be
seen in which the leaves are
less than a foot in length, & quite
narrow, in other the leaves much
longer and broader. But they seemed
to me all varieties of but one
species. This cluster generally (as
noted) about hemispherical, the
leaves much more numerous than
in the species seen on the plains
at the Base of the Rocky Mts (near
Denver) I could get no data as to
how long the plant generally grew
before sending up its flower stalk,
apparently no definite time -
An old (and reliable) Ranchman
near San Gabriel, said he was sure
that he knew individual plants
on his ranch that had not



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flowered for 15 years, and they
 seemed "nearly as big then as
 now" - The flower stalks vary from
 5 or 6 to 10 ft high - ~~usually~~ ^{usually} 7 or 8,
 the flowers greenish white, and
 it seems to me that the bulb
 always dies after flowering - or
 possibly shoots start from the
 roots beneath the bulb. When the
 shoot first starts, it is very
 soft and succulent & sweetish to
 the taste, and is ~~later~~ eaten by
 the natives, usually roasted -
 although my ~~experiments~~ ^{experiments} in this line
 did not make a palatable dish.

As I supposed, all these
 specimens of the coast range, are
 of one species - but I never critically
 examined the structure.

The other species is the
 great one of the deserts of the
 basin. The figure plate XI, Vol. V. of



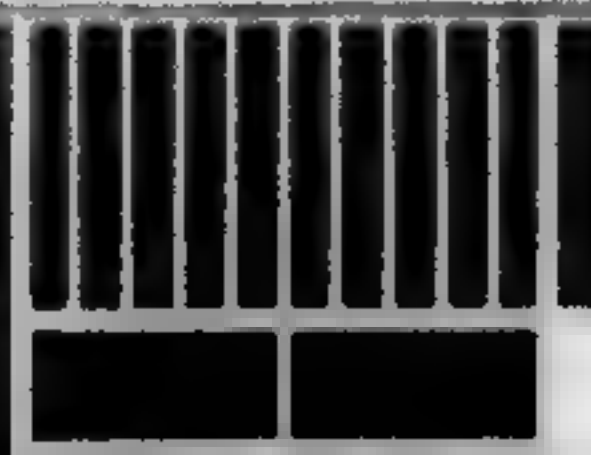
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4. P. R. R. Exploratus, is only a
poor representation - The highest
specimens seen by me were estimated
at 30 ft high, one was measured
19 inches in diameter - - The plate
referred to shows the leaves too
broad, and shows the stems covered
with the reflexed dead leaves. In
fact, the stalks are ^{usually} ~~usually~~ without
leaves, ^{except} ~~with~~ 3 or 5 ft of the tips
of the branches (they usually branch)
there is a tuft of erect & spreading
leaves at the end, back of this about
as many strongly reflexed dead ones,
the two portions so marked that
often the combined tuft at the end
has the appearance in the distance
of a large horn-glass - - below this
the branches & trunk are covered
with a sort of bark, strongly
~~resembling~~ ^{resembling} me of the
bark on an aged Cornus florida



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Nov. Dec 28 1870

5

only that the fissures are deeper and the divisions larger. but the appearance reminded me of the cornus, and this part was to me the most interesting feature. I only saw the species on one trip, & I gathered no specimens - as I was on a horseback trip of 1100 miles without other baggage than I could carry with me on my ^{the} horse trade. The species ^(the ~~is~~ land too dry for any agricultural use) belongs to the deserts and persons tell me only in elevated ones, not on the lower plains of the Colorado. My route lay through the very region depicted in the photo referred to, it was quite a desert plain, some miles across. Some 2 or 3 palms the sea, they were abundant & the place was called by the natives the Palm plain, by the



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Americans, *Tahicchipi*
desert - I also saw it at
and near Walker's pass at
4000 ft alt, and above.

I saw no Agave in
the state except the common
one in cultivation, and which
near some of the old missions
appeared to have sparingly
become naturalized (?). But
I was not in the extreme
southern or south eastern part
of the state.

Next, about Couiperia. -
And by way of preface, let me
say that while in the state I was in
such a hurry about the
Pines that I could not work
intelligently. Moreover, although
I was nominally the botanist
of the survey, yet I was
never in the field when I did

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Nov 27. 1870

Winnipeg Dec 20 1870

not find myself in such a
position that this work was
secondary, (except two months in
mid winter on the fish trip) -

I had charge of the party, as
geological & other work took the
most of my time and study -

I collected what I could - but

no man can be thorough in
collecting when at the same

time he must be looking up

the geology, taking numerous

parameters & topographical

observations, etc. &c. - Hence,

while I took good field notes

on much, I find on writing up

my notes many strange

gaps - and nowhere were there

as critical notes on the prairie.

I believe there that there

was but one 2-leaved pine -

P. contorta - var. *10* - The *P.*



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contorta of the high sierras
is precisely like that I saw in
the Rocky Mts in general ~~appearance~~,
occurrence - do - and it is doubtless
also the inops, var? - of Hartweg, the
descr. of which I have copied -
~~Whatever the Monterey ^{specimens may have}
been, described as muricata in
(Penetum, p. 144) the specimens in
the Diskiyon Mts (read Diskiyon Mts)
I saw, ^{was} ~~was~~ the same found in the
high sierras in the Rocky Mts.~~

Whatever the species may be
found near Monterey a called
muricata in Penetum, p. 144.

The specimens found on the

Diskiyon (read Diskiyon Mts) by

Jeffrey, at 7500 alt, ^{spoken of on same page} were the

same as the high sierra and

Rocky Mountain form - I am very

familiar with this species. It

forms great forests on the



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Nov. 28 1870

High Sierras, ^{contorta} dark and
sombre but the trees not large.
It is called by the ^{people} of Cal.
Tamarak, and is doubtless the
same sp. described as new by
Murray (I hear, for I have not
seen the species) as Pinus
tamarak. The form of wood I
supposed to be the same species,
and which probably is the
muricata of sundry authors. I
saw on the coast near Tomales
Bay, over the rough hills of
Tomales point - the bark is a
little different, ^{from the high sierra form} but not much so,
the trees about the same size or a
little smaller, the bark a little
rougher, and the cones more
persistent - in fact very
persistent. I saw ever the
more on the banks where 30 years
old, and still sound, firm and
closed, although weather-beaten.



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There ^{has been} ~~was~~ very intention to
not only make new species of
grains, but to join old ones,
in old localities. The great steps
between various purveyors & the
new concepts was great. I have
read ~~several~~ ^{dealers circulars in which} ~~the~~ prices of
"Cones with seeds" of some of those
10-collected new species ranged from
1 to 5 pounds sterling per cone -
the latter being in several cases the
published price. - Some of the
collectors were not scientific
men at all, I know one, an
intelligent American miner, who
met Jefferys, worked with him
a little, I think, got a sort of
some knowledge of the local
species, & went to collect at
for a well known Scotch
house - his name is ~~now~~
often quoted in the ^{journal} ~~papers~~



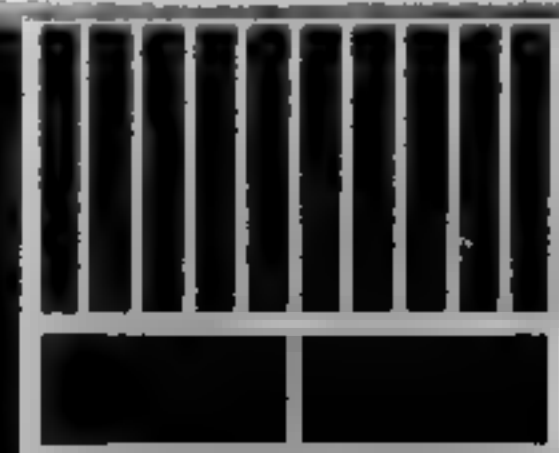
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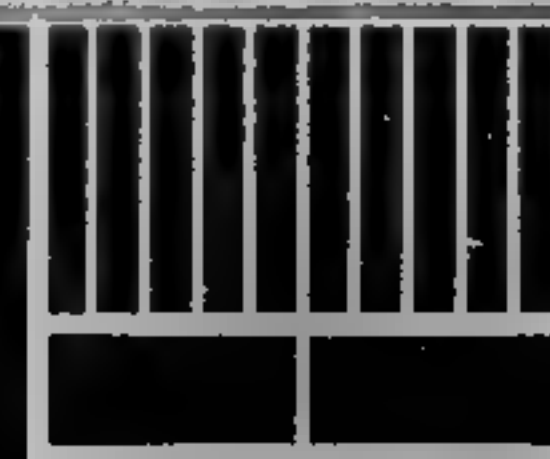
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of about the date of 5-1-2-3-
also, Dr. Lobb, I have ~~every~~ reason to
believe habitually falsified the
localities of some of his seeds - eg,
P. Coulteri - which grows on the
Isla Lucie (Isla), 100 or more
miles S.E. of Monterey - ~~it~~
he claimed to get the seeds there, & (also wrote the
other collectors (for other dealers)
were sent down there to get the seeds)
take a long, troublesome and expensive
trip - But the species grow on
San Diablo, 30 m. from San Francisco, &
can be reached in one day - and I
have no doubt in my mind
but that he collected seeds in the
latter locality which were reported
to come from some hundred
miles further south - I might
extend this story to almost any
length - but these were the
causes that made the new
specimens come in so fast, & I have
made some confusion with localities



perused the literature of
Sequoia & a most tedious length,
 and I have no doubt but that the
 description of that as a new genus
 was a commercial dodge - I once wrote
 H. W. J. Hervey on this matter of the Sequoia,
 and referred ~~to the~~ to the Commercial
 value of the name & explicit nomenclature,
 in a letter to me in '64 - some time before
 death he would & I heartily agree with
 you in all you say about the "Big tree". It
 has now produced good fruit in our
Garden! and is as true a Sequoia as
 can be, and should have no other
 name - Singular enough too, we have
 cones of exactly the same structure
 in our singular Bovey cone formations
 in Devonshire: - but since they do not
 come into market, no one ever calls
 them Wellingtons, or Washingtons, as
 they would have done, if they ever have
 been turned to profit -

Well, I am spinning out a long
 gossip letter - it must be because
 of holiday vacation - but I have a



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Dec 28 1870

13

a few more things to say. --

The cores of the Cal. Conifers are very various both as to size and form, and particularly in respect to the hooks or spines on the leaves -

On the Sierras I found cores, in shape all the way from true Conifers to Patagonia, the seeds are white, but from form of core, I think I could determine any one -

The fact that P. concolor (if all forms are but one species) is found on the sea coast, and again at 8-10,000 ft in the Sierras, without being in the intermediate stations on the same parallel, is not peculiar to this species, and comes from the peculiar climate, on the coast, from about Point Conception Northwest, the prevailing summer wind is a cold N.W. wind - even in San Francisco, all summer long there is a chilly part of every day,



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Then we inside of the first
range of Mts, we have not dry
places, growing better until we
get to the high sierras.
As those numerous species
are found near the coast, &
then in the sierras above 6000 ft,
but not at all, so or rarely at
intermediate points, Arctostaphylos, Shrub,
and Arctostaphylos Williamsoni
is a marked example - In the
sierras back of Yosemite in
ranges higher than 10,000 ft,
nearly in places with P. albiculis
(P. flexilis of the Cal. seed collectors)
but at Crescent city, ^{in the east} I have the
impression that it grows at
the very sea - I am just
unpacking some of the cones
that I have here now, and
I will look at them. But
there are numerous shrubs

A. Westerman ?!

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GEORGE ENGELMANN PAPERS



where this is the case, &
when you reflect on the causes,
it seems very natural that
it should be so.

P. Jeffersonii is but a
form of *P. ponderosa*, but the
habit of the tree is as different
from the typical form, a more so
than the cones. - *P. ponderosa*,
in its pinus state is very tall,
(sometimes nearly 30 ft. the plates of
the bark, especially large, are
12 & 20 inches broad in general
trees - But as we follow it up
into the pines, the trees
are less tall, more branched,
the plates of bark less large, ^{the pines deeper} the
cones larger however - ~~white~~ and
east of the pines, (as in the
Vallies about Lake Tahoe) it is
the prevailing variety, where
it is not nearly so high, more



16
handed, & with various kinds.
In fact, my species that has
much range, varies much.

I send a photograph of
Agave -

I have made arrangements
with the Smithsonian & publish
Watson's list or index. but they
will not pay for the preparation
and I am raising \$750 by subscription.
The ~~see~~ subscribers may have a lot of extra
copies, to sell if they choose, & in part
reimburse them for their subscriptions.
I have - the Wiley numbers -
100 - 100 - 75 - 50 & 25, = \$350 - what can
I get out of you for it? I am writing
to Perry totalists & see what I can
get - for we must have the index -
I am acquainted with Thurber with-
it never went far, and he long ago
relinquished the idea of finishing it -
as I understand - I am sure this long
reflection, - but believe me with many
wishes for a Merry Christmas & Happy New Year
as ever yours
Wm. A. Brewer



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Rec Jan 6
New Haven, Conn.

Sheffield Scientific School of Yale College,

New Haven, Connecticut, Jan 3rd 1871

My dear Dr Engelmann -

Wish you a happy New Year - and write for another favor - What is the best way to stick acorns fast into their cups? Mine would stay there and I am just getting out my California specimens.

I am unpacking my California cones. Would you like to see them? If so, and you think they will aid you at all, I will gladly ~~send~~ ^{send} them to you, and pay all expenses out & back - But here let me



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Say in beginning that some
are not labeled - How I could have
packed them so carelessly I
cannot see - nothing else that
I ever collected failed in that
matter; however dependent they
may have been in others -

But please help me on
the acorn matter and oblige

Yours truly

W. A. Brewer



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BOTANICAL
GARDEN

Recd April 8th

an
Sheffield Scientific School of Yale College,

New Haven, Connecticut, April 4th 1871

My dear Dr Engelmann,

I have sent by express
to-day a little box of ~~Campers~~
paid. I leave for Cambridge
tomorrow & will write you
again soon - None of the
specimens & foliage need be
returned - of the cones,
those that you may
retain I have marked on
the labels "need not be
returned" - If I find more

materials of Yucca at
Cambridge I will let you know.

I ordered Parry & I will take
to send you a stereograph of
the Tree Yucca - will you
receive it -

Yours in haste

Wm. H. Brewer

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GEORGE ENGELMANN PAPERS



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Poa tuberosa L.

Hedberg *Ann. Hort. Soc.* II. 189

1890?

Gordon

— — — VI. 216

"

— — — IV. 218

"

quots by *Carrière*



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Rec'd April 21
Am J 4

Cambridge Mass. April 18th 1871

My dear Dr. Engelmann

Your parcel of last week
is safely to hand - I
am here at work again,
have certain things to do
before Prof. Whitney leaves
for California next week,
and then I will overhance
my ~~California~~ Coniferae that
are new, & my Liliaceae,
& my Jucca - & will
send them - with perhaps
some other things I wish
you to look at

Yours truly
Wm. H. Brewer

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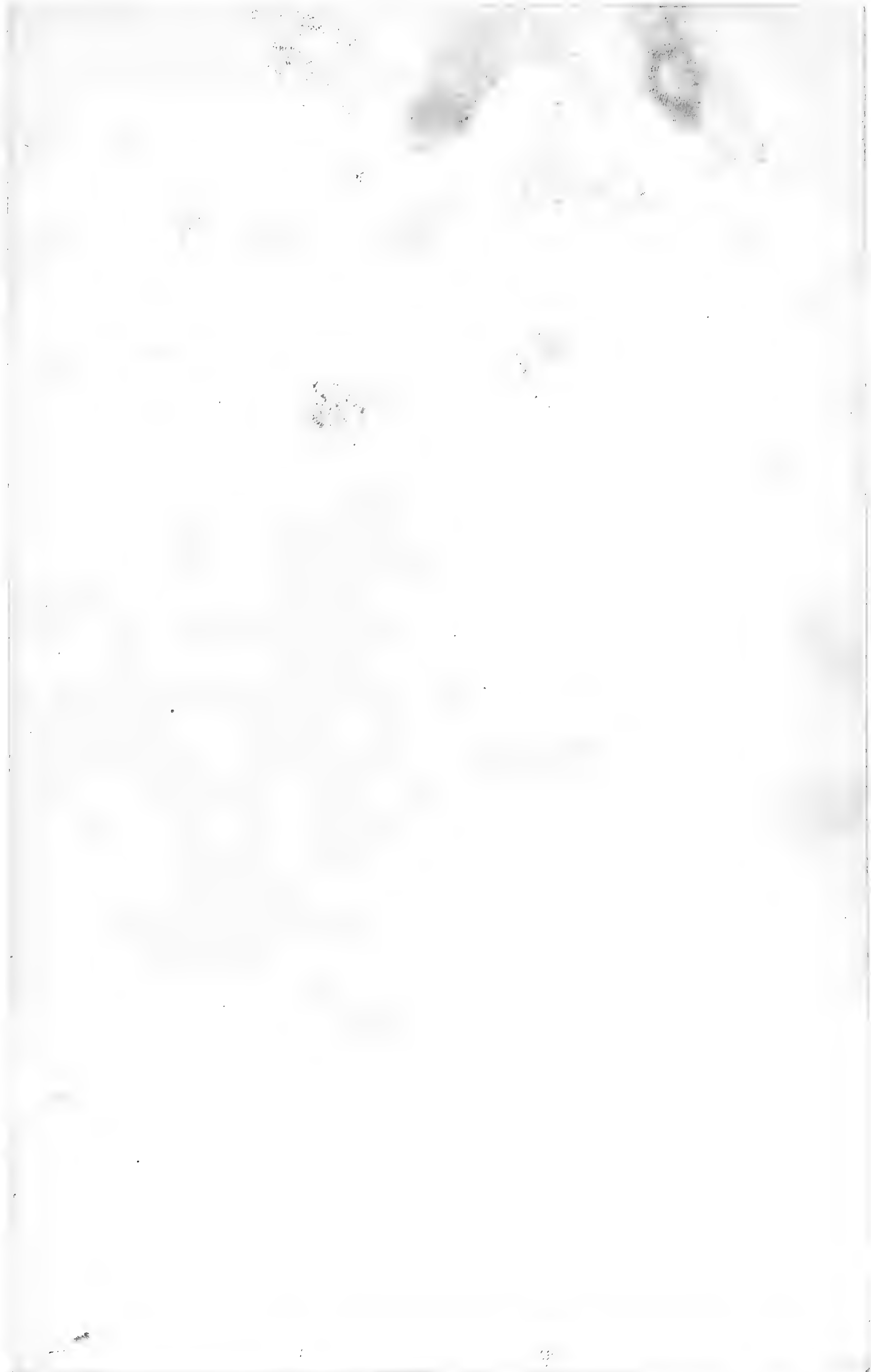


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rec'd June 2^d
1871

Cambridge Mass. May 26th 71
My Dear Dr Engelmann

I feel heartily
ashamed that I have not
yet sent off the package -
but first I was busy - then
shut up few days with
rheumatism - & I have only
only to-day got the package
made up - I had not
poisoned my plants, but
supposed I had secured
them against insects,
but that was an illusion.
I found the insects in, &
have turned to and
poisoned a lot - I send
papers & such yucca
material as I have - also
coriaria - except because



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Toreya
~~Boxes~~ of the lot I
have no fruit here - a few
of the specimens I have marked
to have returned - all
that are marked "not
to be returned", or need,
not be returned" or which
have no receipt & request
to return, you may when
return if you desire - ~~that~~
you look them over, I will
be glad for any notes,
suggestions, facts or
determinations that
may suggest themselves.
No reference may be made
to the numbers -

I have copied my notes
on the labels where I thought
there were any facts you
would like to know.



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May 28, I delayed one
day to send along also
some things from Dr. Gray -
the bundle went yesterday

Brewer



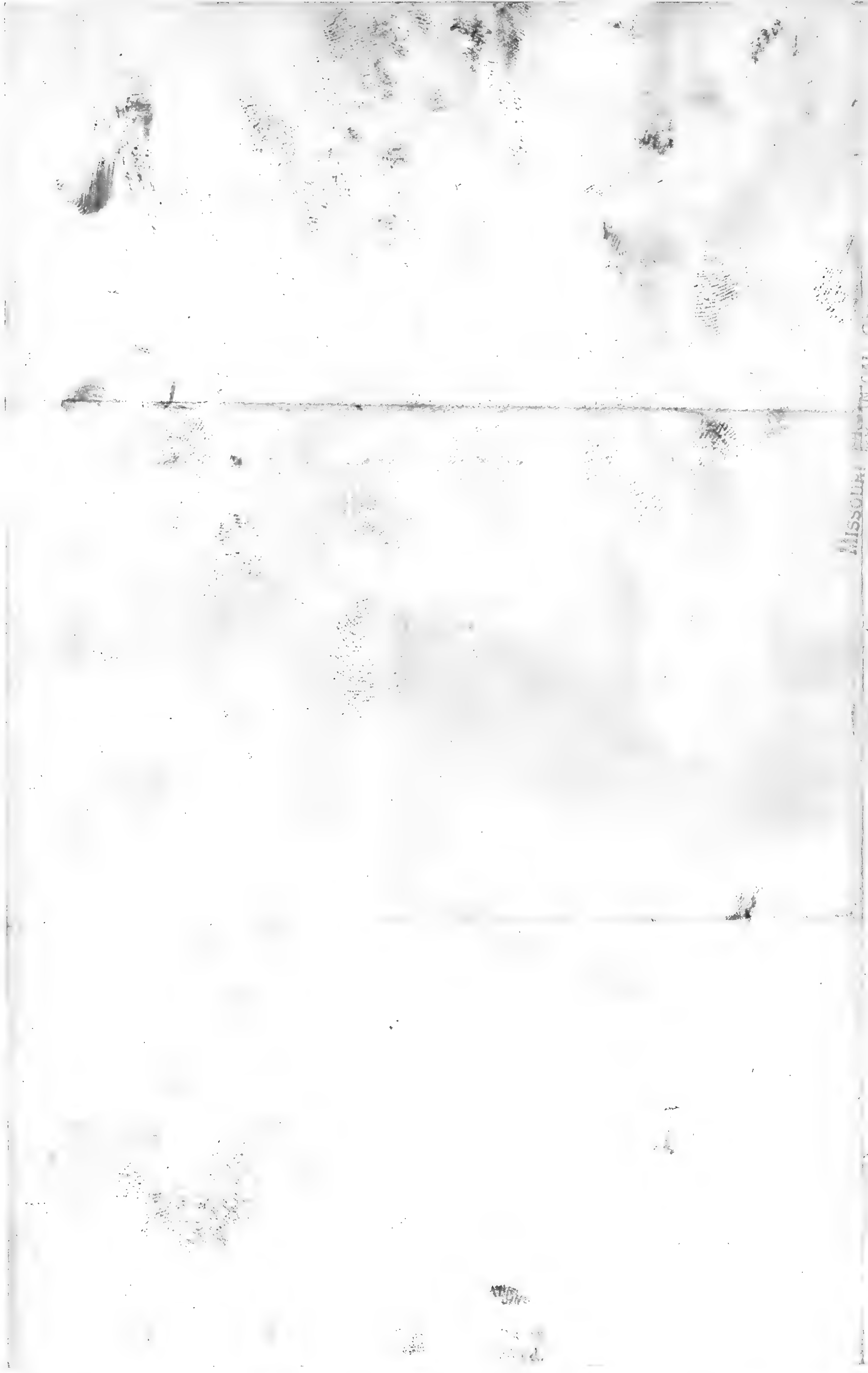
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1871 - 13

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Cambridge, Mass. June 7th 1871

My dear Dr. Engelmann

Your of the 3rd is rec^d -

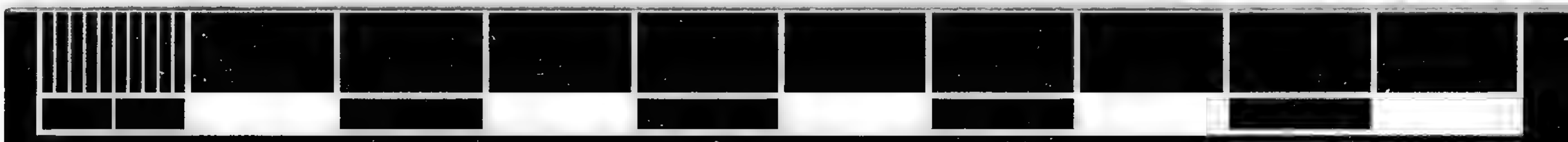
As far as my recollection goes,
the San Gabriel Yucca has a
scape leaf as you saw in
~~the~~ the specimens sent.

I have forgotten how many
^{leaves} there are, but they are
quite numerous on the
stalk. - I think the true

Pinus flexilis is decidedly
distinct from your albicaulis.

The albicaulis is the alpine
species everywhere north of
the head of the San Joaquin,
in the Sierra Nevada - south

of that, the flexilis. Some
seed collected got cones of
the albicaulis on Mt Shasta.
They were well figured in
Europe as p. flexilis, and seeds



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2

distributed as such - ~~but~~
I saw this *Yucca* ~~on~~ ^{on} a detached
plot in the hands of a collector,
hence assumed it to be the flexilis -
~~until~~ I first saw the true flexilis
in 1864, on the Southern Sierra,
where it replaces the allicornis,
(and supposed I had a new pine).
Hoffman afterwards found it on
the next range east, the Inyo
Mts.. It probably ranges ~~across~~ ^{across}
Southern Nevada, Utah & Colorado,
~~along~~ on that belt. The whole
aspect of the two trees is very
unlike - The flexilis is a ^{layer}
tree, and descends ^{on the mountains} lower,
seems more a tree for desert
summits, where there is
less snow. - I never saw the
tree *Yucca* but one, (I mean on
but one trip), & saw ~~no~~ flowers,
it was in early spring.

I always believed (but made nothing)
that *Yucca* (*Yucca*) amabilis & grandis
grandis were the same species.
The cones for "Silver Pine" -



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Nov² June 12 1871

3

Undoubtedly the name you
have from "Clarks" - Silver Trail,
is the old trail from the Calaveras
Big Tree Grove to Silver Mountain.
The cones must have come
from a locality very similar in
vegetation to that at Clarks
Ranch & about the Yosemite.
It is perhaps 50 miles further
west, in the same forest
belt. - I do not think that
A. nobilis grows near the
Big Trees. I cannot speak
now certainly, but that is
my impression.

I am sure that any cone
labeled p. conorta from the
Sierras, came from there -
when I labeled my specimens at
all, I was very careful about
the labels - the trouble was
that some I did not label at all,



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4
and those I indicated as
such. -

It seems a pity that Picea
& Abies cannot be kept apart,
w/af as Californian trees go.

They are of such very different
habit - are known in popular
parlance as Firs, the old
ones as Spruce.

That is all I think of
tonight - on reading over
your letter -

Yours truly

Wm Brewster

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GEORGE ENGELMANN PAPERS



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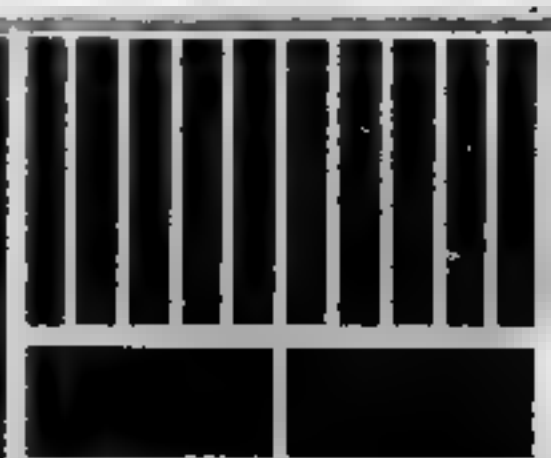
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Cambridge, Mass., June 20th 71.
My dear Dr Engelmann
Yours of the 13th, I have
but just rec'd & was
sent with Dr Gray's, & he has
been absent, returning only
this morning -

You are at liberty to
publish anything, at any
time and in any place you
see fit, relative to my
specimens. From the
nature of the work I am
at, I have not felt at all
inclined to hold back any
information relative to our
flora, until it could be
published in our official
reports, use it as you wish.

While in Cal., I met an
old "Collector", but a hired
"Major-domo" on a ranch as I met
him - He had many stories & tales of his



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adventures while collecting;
and retained & cherished a pleasant
recollection of the business. He preserved
with care, in a glass case, a cone of "Picea
bracteata" which he had collected, and also
the enclosed documents, along with
manuscript directions from his
employers as to what & where to
collect. These documents he lent me
with strict injunctions to not ~~lose~~
lose them, as he was very choicé of
them. I took them, intending to copy
parts of them; patched the circles
& prevented further dilapidation &
then kept them in an envelope ~~carefully~~
labelled. A few months later, he came
to my office for them - seeing them so
nicely cared for he returned them -
a year later he came again for them, but
seeing them in my drawer carefully labelled,
he returned them with "keep them for
me - I don't want to lose them, & I am
very anxious not to lose them - but
you keep them better than I - so I will
call again when I want them" - He came
once again - & again requested me to
keep them for him - since which time
I have had all track & traces of him,
seven years - but have carefully kept his
treasures - so please return them
to me, after extracting anything that may be
of use -
Yours truly
M. A. Brewer



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10¹⁴

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GEORGE ENGELMANN PAPERS

Cambridge Mass. July 5th 1871
My dear Dr. Engelmann -

The letter with your
committed plates & circulars
are all safely at hand - the
box came but to-day - Am much
obliged for the specimens -

I would suggest that
you write (or I will for you,
if you prefer) to Dr. C. C.
Anderson, Sta Cruz, Col.
and enlist him in the
matter of yucca seeds; I
have an impression that
but few (if any) yucca
grow just about Sta
Cruz, but he may have
occasion to cross the
Coast Range East, or the
Salinas Valley, & in either case



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We will find one
species abundant
enough - (It is the same
Dr. Anderson who collected
formerly at Carson
Valley, Nevada, & got so
many plants that he is now
practicing in Sta Cruz.)

I will try to get seeds
from San Gabriel, I know
a rancher there who
may possibly serve me,
and an old mulatto of
mine now runs a
Monte bank in Los
Angeles - he may serve
me - I will try him,

I enclose a note
from Dr. Gray,

I have just read Baker's
articles on the Oregon
Committee not only



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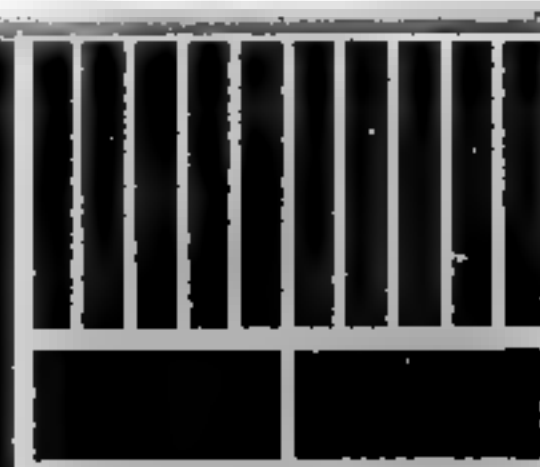


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Revere enough - &
Now comes Robt + Brown,
(not Jun, but some ensis
or other) who describes
a lot of new oaks from
N. Cal. Some ~~from~~ from
Joliag - !! - I think I
could collect ten or
fifteen new species
of this kind, on some
good days, Cleveland - in
fact, all of Brown's new
ones are from a single
little mountain spur -
"The dove hills" &
this goes on -

Yours truly

Wm A Brewer



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BOTANICAL
GARDEN

Recd Sept 9
a.m. - 113

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GEORGE ENGELMANN PAPERS

Cambridge Mass, Sept 6th 1841

My dear Dr. Engelmann,

I enclose a sample, or
trial page of the proposed Californian
Botany, which I have had printed
to see how it would look in type,
how fast the material would fill the
page, &c, and also the better to
see how the plan seemed & how it
pleased other botanists - I
would like your opinion of it -

The purpose is to embrace all
the species thus far found in
the state of California and on its
immediate borders, (not all the
Western Botany) & make a ^{complete} ~~complete~~
manual of this without plates,
the diagnoses in italics & the remarks
in plain type, - each user to have



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GARDEN

an analytical key to the genera,
The descriptions to be about as
full as given in the papers, less
so if but few species in a genus,
more so if necessary for the
determination of a species of the
large genera. No synonyms or
references for the species that
range to the Eastern states or
are naturalized, the origin is most
important reference, and the
synonymy of those species which
are peculiar to the Pacific states.

Large orders or Genera to be
divided into suborders, subgenera,
sections, &c. merely as far as
^{Practical} accuracy or convenience may
demand.

So much as a plan, and I
wish your view as to how you
like it, - Next - how does it get on.

I am sorry to say that it
gets on slower than I feared



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wish, or than I had hoped it would,
yet it does progress. I expect
to get it so well along that I can
see my way through during the
present year, but that will depend
much on how much help I can
get - I hope to hire Watson for a few
months, but it is as yet uncertain
if he will come.

Next - I want to get all out
of you that I can - the more
the better I will like it, but "any
favor most thankfully received"
as the old saying goes, and I will
state my wants in the boldest
way.

1st Will you prepare the
part relative to the Cactae? I have
the impression that only a dozen
or twenty species have thus far
been reported within the state. If
you will not prepare it, (as I
earnestly hope you will), will you



^{revise}
~~Review~~ any attempt that I may
make (by compilation)?

2nd What & how much aid
can you give me relating ~~to~~ to
genera you have given special
attention to, - as Oenothera, Cuscuta,
etc.?

3rd What aid ^{relating} ~~relating~~ to oaks, &
Conioperes, or anything else? (How
modest I am in my queries!). As
I have said, the more aid I get the better
I will like it. I will of course pay
something - but not what I could wish,
for I will not get enough for my work &
pay my board bills while preparing it,
after deducting the direct outlays, but
I can & will pay something, where
asked.

Hoping for a most charitable
answer, I am as ever

Yours truly

Wm A Brewer.



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Rec Oct 4th
43 — 4

New Haven Conn
Oct 12th 1841

My Dear Dr. Engelmann
We are digging on
that Californian Botany -
I wish to begin to print
before the first of November,
and as yet we have done
nothing with the Cactae.

I ask now one of
two favors - it is asking
much I know, but I will
try -

1st Will you prepare
the part relating to the
Cactae - no plates or
figures but English
descriptions, about as
full as is given in the
"Coloniæ Floræ" - or like
the "sample" I sent you



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two years ago. - If I
could have such of the first
of November or even December,
it would be a great favor,

Dear,

If you cannot give that,
will you give me a list of the
species known to grow in California
or on the immediate
borders - and descriptions
may be compiled from
your other descriptions.
The material does not
exist east for anything
better than that, if
such a list were furnished,
and with it, any notes
or digressions, they would
be needed, - And next ^{volume} up
to the full preparation
I have spoken of, ~~it would~~
would be such a list, hence



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I am emboldened to
ask.

Yours truly

Wm A Brewer

via



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Rec^d Octob 11th
Am - 18

Cambridge Mass. Oct 7th 1877

My dear Dr Engelmann

Your of Sept 18th was
duly received, I am most
delighted with what you will
do for me - Whitney is crowding
me, the people of California
are clamoring for their Botany
and it is desirable, for the
continuance of the Geological
Survey, that it be done as
soon as possible, and that as
good a show towards that
end be made at the meeting
of the coming legislature (the
legislature meets only
biennially) - I have seen



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done as well as I could, but
I feel that I work slowly, but
am pressing on to have as
much of it ready as is possible
by the first of December. If
now, you will send me any
part as soon as done, say when
you have done the Cactae (I
only want in each case, the
Species actually reported
within California or on its
immediate borders) if you
will send the MSS, I will have
that much more to show, and
I need not say, that the earlier
any part is done, the better
the authorities above we
will be.



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I never saw any Agave in
California, except the
common "Century plant" which
flourishes well in the open
air in the southern half of
the state - and near the old
missions are sometimes seen
plants - I saw a large one that
had flowered, some years before,
and numerous younger plants
had sprung up about the
old root, near Sta. Barbara.

I can easily believe that
specimens occur in that region
lying towards the S.E. part of
the state, including the
desert and semi-desert
regions lying north and east



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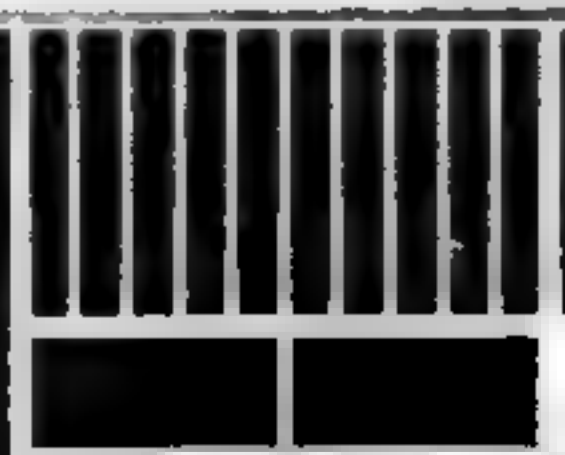
of San Bernardino Mt.

There is but one species, I
think of Vitis in the state. My
material rather scanty. I
will look again -

I am at work at the
Aspetaloe now.

Yours truly

Wm. W. Brewer.



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Rec^d Nov 1st
Chy Nov 5

Cambridge, Mass., Oct 28. 1871

My dear Dr. Engelmann

Yours of 18th was rec^d several days ago, I have delayed because I thought I could tell you out precisely where Duffield's Ranch was, - and I have failed - all I know is that it was somewhere in the Foot Hills, of the Sierras, in region between the Guba and the Tubulume Rivers - not very definite I know - My impression is, that it was in the region between Auburn and Placerville

I have done nothing with the Loantaceae - The family was new to me when I went to Cal., I gave it no study there, absolutely none



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Collected some specimens
but rather meagre, &
they have lain in the bundle
ever since, without even
the attempt to ~~arrange~~
arrange them. - I send you
the entire package, please try a
pay through, if they come to you
with any charges let me know
& I will pay them) by express,
directed to you - This package
embraces all the specimens
I have, including those
collected by Dr. Cooper, & the
few of Dr. Horri's. - After you
have looked them over, made
such examination and study
as you wish, and retained
such specimens as you need,
please send return the
others. This may be done
at any time. I send the
whole lot, that you may have



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After looking over of all the material - The more you do on it the better I will like it, as I will have to begin at the beginning when I take them up -

I have no fruiting Vitis of California, at least here - if I find any specimen at New Haven I will send it, but I have the impression that I have only very imperfect (immature) specimens - I enclose in the package a flowering specimen, from Bolander. Vitis is rare in the state. I saw but very few wild grape vines in the state, and never saw the fruit - Even in the famous Cañada de las Uvas (where I was in very early spring) I saw very few vines. If they are anywhere abundant, it is where I did not visit.



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That set of plants sent
by Bolander Kelly, Harper &
Dunn - two or more years
ago, is still in New Haven,
unarranged - It was a great
pile, all mixed, ~~put~~ ~~up~~
imperfectly arranged into
orders even, - I am sure we
get them arranged and
distributed here, so I took
hold of them, worked on at them
some weeks, (time I ought to
have devoted to my report) but
Eaton said he would do it,
he has done some & thus the
matter stands - It was too
big a job for us to do in a hurry
as a labor of love, mostly
mechanical too - I hope to get it
off in time.

Yours truly

Wm. W. Brewer



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Ans. Nov 1891

5

P. P. Dr Gray puts in a
little package that has
accumulated in your
"pigeon-hole" - also two mats
of drying paper we are
ordering - It is the paper used
for roofing before it has
received the composition -
costs $4\frac{1}{2}$ - or 5 dollars per
100 lbs. - Have just ordered
a ton of it for various
botanists - How do you
like it, & do you want
any of it?

W. H. S.,



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Rec^d Nov 14
Am - 15

Cambridge, Mass., Nov. 10th 1871

My dear Dr Engelman

I am in receipt of yours of the 5th - it came yesterday - Dr Gray found that a part of H. Braght. had something to say on the matter concluded the better way was for him to read it and the specimens you asked for - I put them up & I think he sent them last evening

A. & Blanders Dates -

2671. on *P. Yabiniana*, Lake Co. was in a lot collected September 1863, and was probably collected between the dates of the 10th & 20th of that month.

~~5094~~ 5095. - on *P. Contorta*, Yosemite Valley, probably collected between Aug 20th and Sept 1st I judge so



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from his notes - but it is not
definitely stated
6380, on P. Ponderosa, Yosemite
valley, was in the summer of 1886,
and may have been any time
between the middle of June &
first of Sept. There are no
data to fix the date nearer.

I was always careful
about the correctness of my
notes, as to localities, &c., and
while I can only refer relative to
2055 growing upon Juniperus, I
can say as witnesses do in
court "true according to the
best of my knowledge and
belief" - and I have a
strong belief in the matter.

My note says Juniperus
occidentalis. I had made no
careful examination of the
cedars of that place, but then
(a state) supposed that the



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Juniperus ~~occasional~~ ^{Common} on all
the dry slopes & hills of the
region, as a low crabbed tree or
large bush, was one species,
and that it was *J. occidentalis*.

I have the impression, so
far as my recollection goes,
that *Sarothamnum* plants
are vastly more common
on a greater variety of hosts
than my (or other) meager
collections indicate - In the first
place, the plants always have
such an immature look unless
in fruit, ^{but they are liable to be not collected} - they are difficult to
dry, - rather brittle - & in
my case, no time & expense
for characters in the field, &
very meager facilities for
transportation - I tried to get
representatives, but on such
excursions but few duplicates
that species was collected



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on a trip where four ^{persons} ~~persons~~
had but 2 pack mules for all
their baggage - and indeed, that
summer, I cursed the great
chain more than half a dozen
times with only 2 light
laden pack mules. For my entire
baggage, blankets, provisions,
blanco ropes &c &c - hence
everything was reduced to its
least weight, - hence another
cause for meager specimens - but
I believe my notes on them to be
correct, so far as they go

I enclose a transcript of them
as I think you want

Yours truly

Wm Brewster



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Recd Dec 1st
am - 22

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

Cambridge Mass, Nov. 27. 71

My dear Dr. Engelmann

Your of the 15th Dr. Gray handed me a week ago. Dr. Torrey copies certain figures, which I dare say you have by this time - & I now again look over the authorities relative to the time when the ripe fruit bursts - Grenier & Godron, in "Flora de France" v. 2. p. 4 - in their description, were 100, "at maturity" (that is to say, 14 months after flowering) the fruit is separated suddenly and with the elasticity of the peduncle, and the seed is thrown sometimes a meter in distance out of the pericarp, which remains empty. - It seems to be a rare plant in France.



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The rest of the matter which
you enquired about. Prof,
Gray & Meyer, letter of last
week covers, as I understand
it.

Yours truly
Wm W Brewer

If other matters suggest
themselves, in which I can
be of service, let me know,
& I will do what I can -



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Nov 21

Am Dec 4

Brewer

Sheffield Scientific School of Yale College,

New Haven, Connecticut, Nov. 18th 1872

My dear Dr. Engelmann

Last week I went to
Cambridge, saw Prof. J. D. Whitney,
Dr. Gray, & Mr. Watson, and have
entered into arrangements
that ~~Dr. Gray~~ Dr. Gray is to go to
work immediately on the
Monopetalae of California, &
Mr. Watson is to go to
work on other parts, assisting
towards the general work.

I hope to get to printing next
Spring, and get the work out
during the year. This is the
preface of a request that I
have to make of you.

Will you prepare the Cactae



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and how much other
work can we induce you
to undertake? What will
you do on the Conifers, or
oaks, or anything else?

I sent you in 1870 a printed
sheet of the proposed title
of the work, and any & all
help that we can get, we
want. It is very important,
not only for the interests of
Botany, but of Science on the
Pacific Coast, that this
work be now pushed. It has
run on so long, and the
interests of the Ecological
Survey demand that the
vol. on botany be got out as



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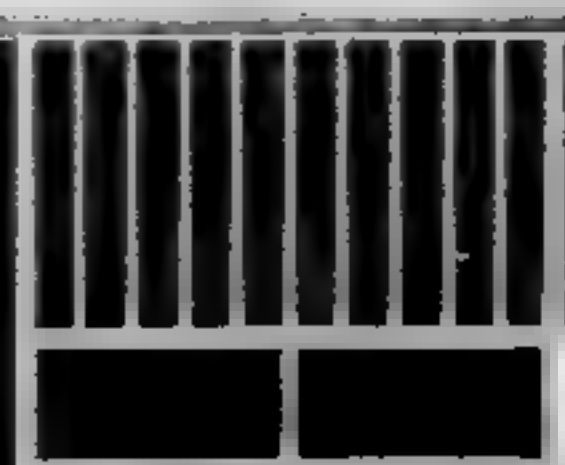
won as the work can be
done, and I hope for your
aid in it. It will not be an
attempt at the Botany of the
Pacific States, merely that of
the State of California and its
immediate borders.

Hoping for much help, I
am, as ever

Yours truly

Wm. Brewer

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GEORGE ENGELMANN PAPERS



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Rec Nov 29
an Dec 1/2

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Sheffield Scientific School of Yale College,

New Haven, Connecticut, Nov. 25th 1872

My dear Dr Engelmann

Do you take or see the
"Gardners Chronicle & Agricultural
Gazette" - Mr. McNab gave in the
Spring ~~read~~ some articles on the
"Coniferous plants of British
Columbia, relating largely to the
Collection of Jeffries - & I see a
lot of synonyms used
I was not familiar with
before -?

I wrote you a week or
so ago, relating to aid on
the Col. Botany, which we have



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again got under way, I hope
to completion,

Yours truly

Wm. H. Brewer



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Rec Oct 23
Ans Nov 7

SHEFFIELD SCIENTIFIC SCHOOL OF YALE COLLEGE,

New Haven, Connecticut, Oct 20th 1873

My dear Dr Engelmann
You came so early
nearly two weeks ago, -
I have delayed answering
until I could say several
things - and my eyes do
not see of much time - they
are still weak and have to
be favored.

I am greatly obliged
that you will do the
Cactaceae.

Regarding the Coniferae
I am still in a serious
quandary - If you will
prepare that order, then
I will be happy. but I have
hardly typed it, from what
you wrote when I last ^{proposed it} -



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But I am not equal to the
work. - Watson don't want
to try it even - We are working
on towards that order
with a sort of general feeling
that "sufficient unto the
day is the evil thereof" - that
when it comes to the pinch
"It must be met - yet we
have a hope that we will
get much out of you on
that ~~case~~ order.

You ask about my notes
on Guccia Whipplei -
Whipplei - I have not my
specimens just now
very accessible - perhaps the
quickest way will be to
refer to yours - did I give
a specimen with ticket
from north of San Francisco?
that you remember of, or was



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it merely my recollection or
impression - if the latter, I
may easily be mistaken - if
the former, & you can refer
me to the number, I can
easily settle it - for my
numbers I am pretty
sure - I was very careful
about my notes, when in
the field. If you can refer
me to the number I can
settle it immediately - if not
I must wait until I
can get at the specimens.

I received the pamphlet
on yucca for which you have
my thanks - the note is here,
in Prof. Eaton's paper - he
sent some Wormy copies
to Prof. Gray this summer -
What is your
precise address - do you



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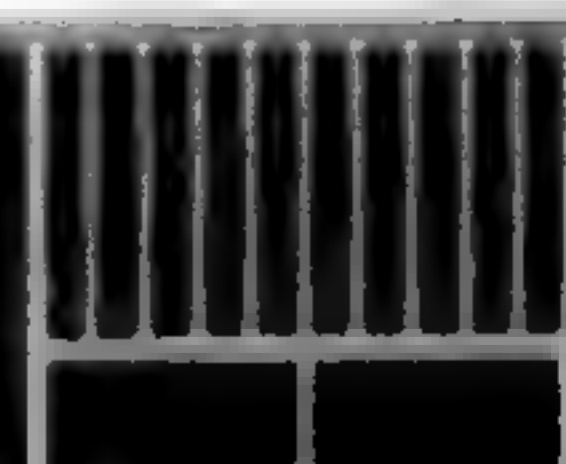


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prefer that street a number
be used - or simply
St Louis?

I enclose a sample of
the type used - also the
table for each order for the
analysis of the genera -

Yours truly
Wm A Brewer -



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Rec Nov 6th
An - 7

SHEFFIELD SCIENTIFIC SCHOOL OF YALE COLLEGE,

MISSOURI BOTANICAL GARDEN New Haven, Connecticut, Nov. 3rd 1873
GEORGE ENGELMANN PAPERS

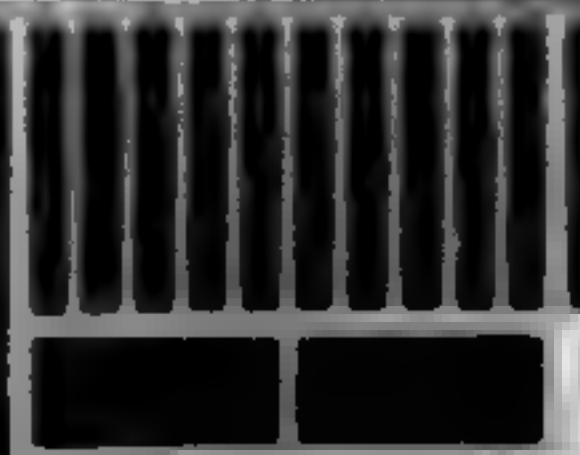
Dr. Geo. Engelmann

My dear Sir,

I am at work
overhauling a lot of *Colepimer*
Rutaria - I have come across
this mass of cottony stuff,
with a label,

"Seed of a large Melon
Cactus, 2 feet high from the
Colorado desert - from
J. P. Clay and"

brought in San Francisco
before I left, but which the insect
immediately reduced to the
condition in which you see it -
I supposed it long ago thrown
away - but have just come
on it again and I send it



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in the belief that you will
think it worth while, yet may
wish to see it. - is this
cottony fibre common with
such fruit?

Yours

Wm. H. Brewer



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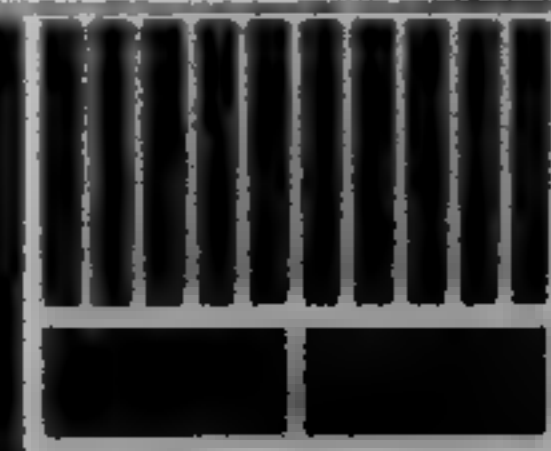
Rec Nov 21

Cambridge Mass.
Nov. 17th 1893.

My dear Sir

Your of the 7th came
just as I was starting
for this place, where I am
again at work on the Botany.

I strongly suspect that you
are correct in your surmises
about that yucca and
that I was wrong - that I
had seen ^{the} yucca north of
San Louis Obispo and had
assumed that it was the
same species that we
found south when it was
not. - The tender flower
stalk when two feet high or
less is eaten roasted by the



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natives, both of the southern
and more northern species,
The spongy center of the
stalk is quite sweet, but it
does not make a very
desirable article of food.

I have never seen,
or recognized, the true
Juniperus virginiana in
California, and I was
never at all clear as to the other
species. I have the impression
that the berries of all are
blue. ~~relative~~ to the
difference in size and
texture I have no accurate
recollections. - In the Coast
Ranges from San Geronimo
& Los Angeles to the Bay (I
think indeed much farther north)



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a juniperus is common
on the dry summits &
slopes of the hills, as a great
cragged shrub, ^{in habit} rather than a
tree, widely branched &
crooked. The wood is red, &
less fragrant than our
Eastern cedar, and also
less fragrant than the high
mountain form. ^{the stalks}
are often ~~very~~ ^{very} large, near the base.

Then, high up in the
Sierra Nevada, among the
highest cedars in range,
growing to a tree, is another
form, which I always
supposed was another
species, - erect, and a
tree, ^{in habit} after the trunk is
wonderfully tapering, that is,
tapers very rapidly. I have



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seen specimens, 3 or 4 feet
in diameter, with the
trunk as regularly tapering
upward as other cedars,
and yet not over 30 or 40
feet high. I have heard
of such trees 6 feet in diameter,
but have seen none so
large, but 3 ft is not rare, &
grows in exposed, rocky places.
The wood is very like *J. Virginiana*,
but not quite so fragrant
and is rather lighter in
color. I know these characters
are not good specific ones,
but they are marked and
conspicuous ones in the
landscape.

Yours truly

Wm. A. Brewer



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Rec^d June 11th

SHEFFIELD SCIENTIFIC SCHOOL OF YALE COLLEGE,

New Haven, Connecticut,

June 8th 1875

My dear Dr Engelmann
Yours reached me
nearly two weeks ago. Bad
eyes have interfered with
an earlier answer - in fact,
I have had a realising sense of
the force of that rural emblem
of total worthlessness,
as expressed in the phrase of
"a sore-eyed bitter" - but
my eyes are much better
now -

We want to get the
Polypetalae a Monopetalae in
type by Hall - and would like
the Cactae first, say by August,
a reprint. If then we can
have a good copy of the ^{remainder} ~~placards~~
ready, the legislature will



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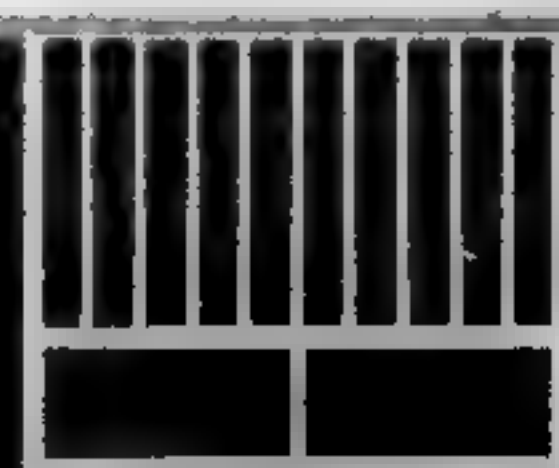
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doubtless print it.
Much of the Apetalas
has been worked over, after
a fashion - but must
be reversed.

Dr Gray is at work at
the Apetalas Monopetala,
and has the Eythre with
him, I think.

I think you have had
all, or essentially all, of my
coniferous materials, unless
it be specimens of the
fruit of Torreya & of Taxus
in alcohol, of which I have
a few -

Bolander is, in the office
of State Superintendent, of
Common Schools, & is
very busy - but with a
little nudging would



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MISSOURI
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I think send the material
you speak of, if he has it.

If anything more
suggests itself, drop me
a line -

Yours truly
Wm. Brewer



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MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



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rec'd Jan 27
Am. and day

SHEFFIELD SCIENTIFIC SCHOOL OF YALE COLLEGE,

New Haven, Connecticut,

Jan. 24th 1876

My dear Dr Engelmann -
Mr Watson has
sent me a letter from
you of Jan. 16th - about
some acorns.

The acorns belong to
the Geological Survey of
California, and there is no
objection to your keeping
specimens where they are
numerous enough to divide.
I wish them to ultimately
find the "place where they would
do the most good" as our
Congressional friends say.



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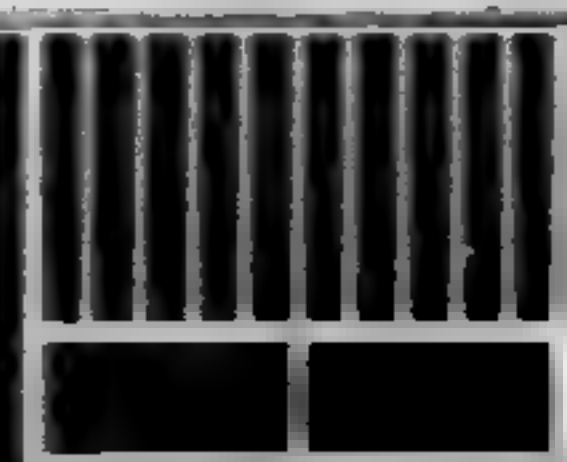
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For a week or two I will
be very busy - but soon after
~~that~~, if you wish, I will
send you all my oak ^{material} ~~material~~,
and oak notes (I would have
to select & rewrite from
several volumes) -

Will you take it & look it
over? - I cannot pay at
the moment, whether it is
at Cambridge or here, but
such as I have, do you
want to see? - if so I will
send it to you, & be returned
at such time as you
wish, & at my
expense.



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Please drop me a line
as I don't know what!
have your precise
address.

Yours truly in haste

Wm H Brewer



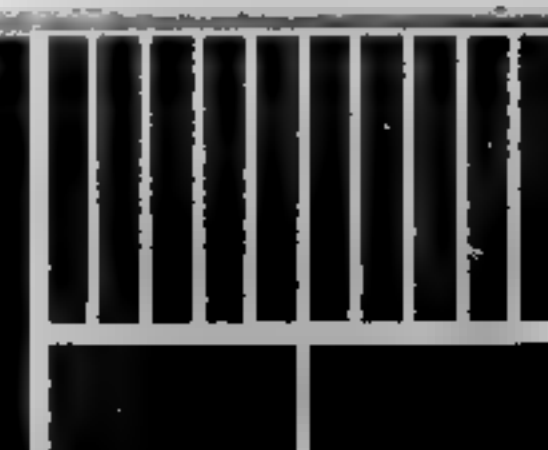
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Rec^d March 22

Am. Sunday

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GEORGE ENGELMANN PAPERS

SHEFFIELD SCIENTIFIC SCHOOL OF YALE COLLEGE,

New Haven, Connecticut,

March 20 1876

My dear Dr. Engelmann,
I have not received
any list of ~~the~~ numbers of
oaks and acorns that Mr.
Watson sent you. If you will
send me a list of the numbers
on which there are notes, (I think
that he sent you notes on the
numbered specimens) I will
look through my note books
and see if I find anything
else that I think may be
of use to you. When in the
field I took many rambling
notes on oaks, they may be



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of some use - but whether
or not of use, they may be
of interest.

My belief is that there
will never be (at least in
our time) a satisfactory
limitation of the Californian
species, particularly of the
evergreen kinds.

Yours truly

Wm A Brewer



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Rec'd May 11th
Aer. Saturday

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

SHEFFIELD SCIENTIFIC SCHOOL OF YALE COLLEGE,

New Haven, Connecticut,

May 6th

1876

My dear Dr Engelmann,

The enclosed (with a smaller fragment just like it) was cast up on the shore at Woods Hole (the place of the US Fish Commission) near Vineyard Haven. It is so rare that anything is cast on our coast from the Gulf stream that they are anxious to know, if possible where this ^{grew} ~~grows~~ - Can you either recognize the species, or give a shrewd ^{guess} ~~guess~~ as to what it is & where



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The cactus grew?

In looking over your notes on
Cactaceae - p. H. Cal. I do wonder
whether that you have indicated the
common name of the most
common ones, "Tuna",
for hedges - - it is abundant as
far north as San Jose, (but
as far south) - The joints 10-15
inches - ^{long} 2 or 2 1/2
inches. I suppose it is
O. Engelmannii var. littoralis -

- Several persons have told
me that the Cereus giganteus
grows sparingly west of the Colorado
River, but never so large as in
Arizona - Clarence King says, not
more than 10 ft high - They have
told me, not over 15 or 20 ft high -
Yours truly
Wm. W. Brewer



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Rec May 25

SHEFFIELD SCIENTIFIC SCHOOL OF YALE COLLEGE,

New Haven, Connecticut,

May 22 1876

My dear Dr. Engelmann
Yours received -
Thanks for the information
- The cactus head was
found far away from line
of steamer from the U.S.
As I think how it came
on the shore, at "Lower
Hole" must remain a
mystery -
Very truly yours



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Similar sig & the specimen -
- fls & fruit -

2916 was of some ^{collection} and does
number, and I have
no notes -

I am much driven
just now - will go to
Philadelphia tomorrow,
but I will try and get time
to note some stems or
measurements in next
month

Yours truly
Wm. A. Brewer

P.S. I enclose photo^s of
the cultivated tuna - is
you please return them
to me - after at your
convenience - WAB -



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Rec Oct 26
Ans Dec 21

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

SHEFFIELD SCIENTIFIC SCHOOL OF YALE COLLEGE,

New Haven, Connecticut, Dec 23rd 1876

My dear Dr Engelmann
I have been in Phil^a
most of the summer,
and have not been able
to give to you the notes
on your oak paper, that
I wish to - I will get at
it when I can - but
before you publish the
fuller revision you
speak of, I think I can
give you some useful items



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I enclose two stereographs -
one has "Mexican Territory"
was rec'd from California, the
other I picked up at
the "Centennial" in Phil^a.
at the "Manure & Grass Vase"
stand - The legend on the
back is all the information I
have - but this is abundant in
Southern Cal - I have seen
it very large - usual near the hills,

Yours truly

Wm Brewster

The stereos need not be
returned -



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Recd April 5

New Haven April 2nd 1878

My dear Dr Engelmann

Your is received - I get
the pamphlets all in due season
and the ones on oaks have been going
on my table ever since, for that leisure
moment, in which to write, which
leisure unfortunately has never
come - The cedar of Southern Cal. as
I remember it, was only a shrub, with
in size and habit - That of the high
Sierra Nevada a tree, sometimes 10,
often 4 feet in diameter, with
the shortest trunk for such a
diameter of any ^{other} tree I know of -
This latter is often half dead,
the living part vigorous, the dead
part it may be, dead for many
years.

Long ago I received my water
^{so far as they relate to oaks & conifers}
copies for your use - I have never
been clear as to just how far this
was done - I will tomorrow send
you by express my ^{piece} wood books - It is
probable that you cannot read all, but



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whenever you can't, pass it ^{g. 2}
return ~~the~~ books, and tell me what you
fail to read, and I will ~~not~~ write it
better ^{or privately write} for you - I send ~~the~~ books now,
because I have not time to copy all
you may want - I will send with
them two stereographs of the
Mountain cedar, and you will find
some notes to the points Vol V. sub.
No. 1909 - and in many ~~other~~ ^{places,}
I have been looking over my notes
to-day to refresh my memory, and
to save you too much trouble, will
send along with it a list of
such places as I find oaks and
Coniferae referred to - where
I give a number, you have doubtless
seen a specimen - when sub.



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Some number, that means
 some other notes. Thus - in the
 notes on ages of oaks, I tried to
 see if successions, or cycles of wet
 and dry years could be re-
 traced - I could not locate
 them in time, yet dry years
 were often but too well indicated

Remember that the notes were
 all written when I had a
 multiplicity of other labors - I
 had charge of the party, looked after
 everything, had to make my botany
 secondary to geology, had
 books in my pocket for coleoptera
 and papers for butterflies - had
 to keep full geologic, topographic
 and barometrical notes -
 but after the number 40, 50, 60, 70, 80, 90, 100 -
 for I never enjoyed the luxury of
 being mere botanist or collector -
 so my notes were such as I could
 jot down in the snatchings of



time I had-

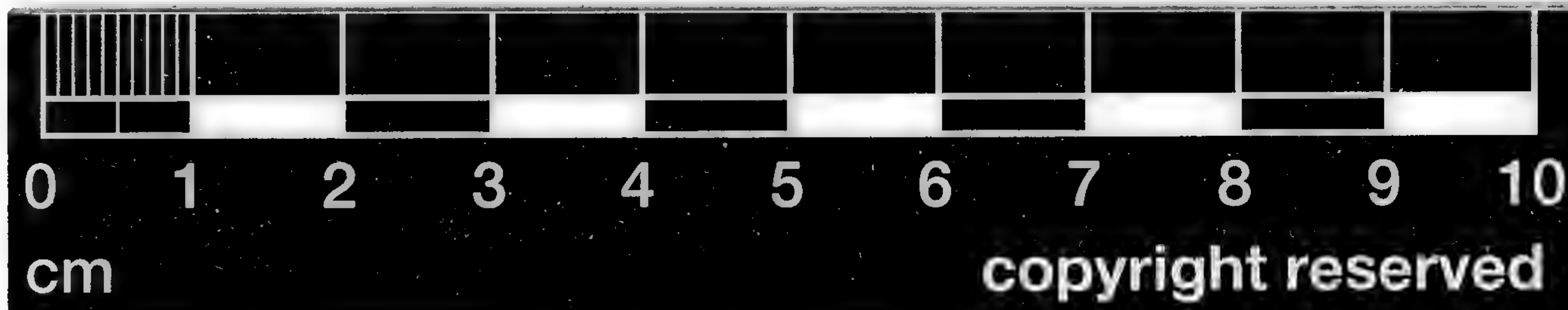
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When you have used the
negs - looks & stereos, please
return them to me - and should
feel sorry to lose them - send
both ways at my expense

Yours truly,

Wm. Brewer

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



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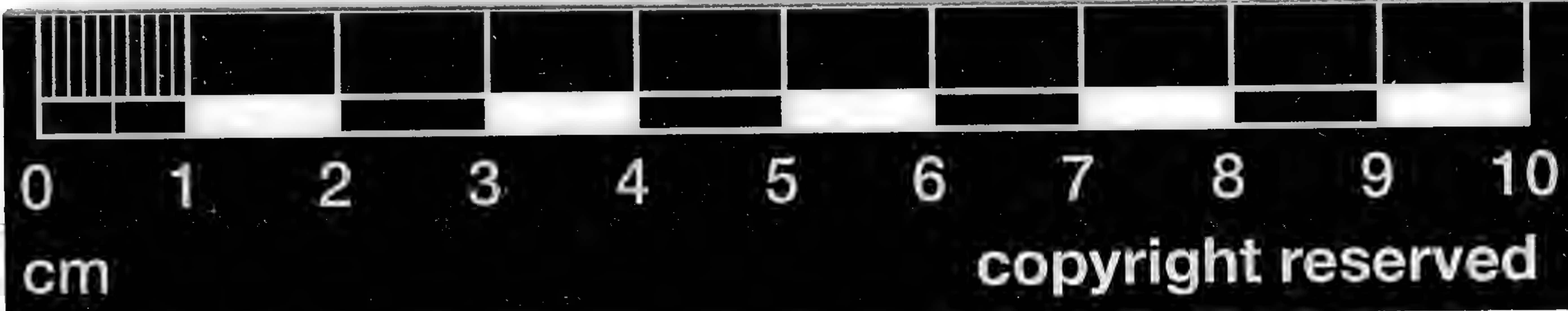
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Rec April 26th
and May 2^d

New Haven April 22nd 1878

My dear Dr Engelmann

In 1871 I had some correspondence with you relative to getting Mr. Watson to publish an index to our Western Botany - an index of references. - The Smithsonian agreed to print the work if the botanists would pay Watson - I ~~paid enough~~ got enough subscribed to warrant the beginning, Mr. Watson enlarged the scope, and now the first volume is printed - It includes (as far as it goes) all the North American plants North of Mexico - this volume makes 470 pages - and to print it requires at least three of that size. (Your subscription was for \$25, or \$50 should that latter be necessary to raise the sum - The first



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Volume being out and awaiting
your order, I could now ask, that
if convenient the subscription
be paid in part or the whole, as
you may prefer.

Yours truly

Wm. W. Brewer

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GEORGE ENGELMANN PAPERS



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May 1879

I find that old, about
Cupressus macrocarpa, No 654.

in notes about Monterey -

"only on the granite rocks -

near the sea, - abundant in certain

localities" - I remember well, ~~that~~ at our

Camp at Near Monterey, the trees of

that species ceased suddenly, on the rocky

shore, when the granite ceased. W. W. Bower



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POSTAL CARD.



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

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GEORGE ENGELMANN PRESS

*Dr. Geo. Engelmann
3003 Locust Street
St Louis
Missouri*



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Rec. Aug 23
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SHEFFIELD SCIENTIFIC SCHOOL OF YALE COLLEGE,

MISSOURI BOTANICAL GARDEN

New Haven, Connecticut,

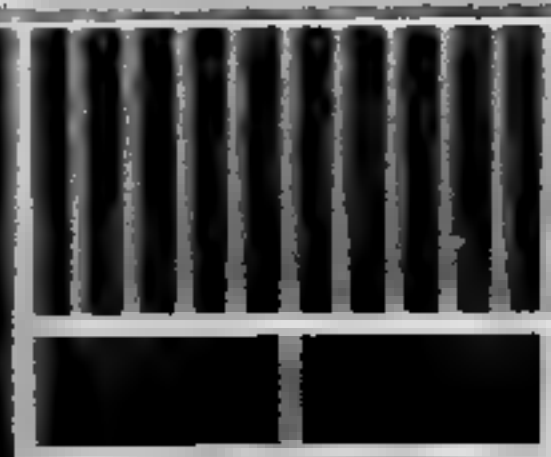
Aug 22-1879

GEORGE ENGELMANN PAPERS

My dear Dr. Engelmann

I am very sorry that I ~~collected~~ have no cones of any *Picea* collected on that trip in 1864 into the Southern Sierra Nevada.

In the note which you quote, "got cones there of undoubted *nobilis*", - the "there" refers to Mt. Shasta. *P. bracteata* had never been found in the Sierra Nevada; *P. nobilis* was believed to be well marked by the character of the scales, projecting and more or less reflexed. While I found trees, the habit and look of which were like *P. nobilis*, but



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of my mast, where I had
cones, they were without the
characteristic scales. - No, if
my word is no position in
its statement, as it seems to
be, the diagnosis doubtless
~~refers to the~~ ^{depends on the} scales. The
difficulties of preserving Picea
cones, deterred me from collecting
more than a very few for
specimens

Will you be this way? - I
leave Tom Towns (^{saturday} ~~saturday~~) until
Monday, will be here Tuesday,
leave again Wednesday (for the
Meeting of the Ann. Assn. Adv. Sci.)
for a week, after which I will
be here, unless indeed it should
be ^{so} strongly desirable that I
run out to come to Cambridge -
Yours truly Wm H Brewer



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Alex Nov 17th
Am Sunday

SHEFFIELD SCIENTIFIC SCHOOL OF YALE COLLEGE,

New Haven, Connecticut,

Nov. 18th 1879

My dear Dr Engelmann
I have been very remiss
in not writing to you
long ago, but between being
distractingly busy and the
hope of something turning
up about a last letter,
I have delayed.

~~About the first of~~
October^{4th}, I received a package
with my red books and
two stereoscopic photographs,
all right, safe and
sound - and this ought



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to have been tickle-eyes. -
On Sept. 5th I received
a letter from you, something
about Pinus palmariana, &
on Sept 9th I sent you a
large envelope, & the Herbarium,
with a letter and eight (8)
stereoscopic pictures of trees.
I believe a sugar pine, a
P. jeffreyi, and the others were
fort-hill views with
distant pictures of
P. palmariana, & show you
the hair of the tree - I
also enclosed stamps to pay
return postage - I cannot



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SHEFFIELD SCIENTIFIC SCHOOL OF YALE COLLEGE,

New Haven, Connecticut,

find that the letter
ever reached the Herbarium,
and this delay has been
mostly that I hoped
to hear something ^{about it.}

I have been very busy
late - I received the
Pinus paper - the
names seem strangely
unfamiliar -

Yours truly

Wm. A. Brewer



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[Faint, illegible handwriting on lined paper]

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Recd Apr 27

SHEFFIELD SCIENTIFIC SCHOOL OF YALE COLLEGE,
MISSOURI BOTANICAL GARDEN
New Haven, Connecticut,
GEORGE ENGELMANN PAPERS

April 22nd 1880

My dear Dr Engelmann
Yours, and the precious
papers or series came when
I was out of town - Many
thanks indeed.

I wish I had the time
and means to devote a
year or two to the Pacific
Coast trees in situ gain,
with our present knowledge I
begin with I might make
a more profitable set of
observations than my
other one was.

The Bot. Cal. we hope
will be out next month



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we have wanted a long
time for Munro's grasses -

The primes paper will
be a most handy
and safe guide, that
ought to be a pocket
edition of it.

Thanking you again for
it I am as ever

Yours truly

Wm. Brewster



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