Rec Jan 4
Ans — 28

Jan — May 1881

ARNOLD ARBORETUM, HARVARD UNIVERSITY,

DIRECTOR'S OFFICE,

Brookline, Mass., January 1 188 1.

Dear Doctor,

The new year begins well, because it brings me a letter from you.

No doubt your box is all right. It takes a long time to get any thing by freight in these days, when all the roads are blocked with the unusual traffic. I sent a box home for S. 7. Some time before yours was sent; and it has only just reached home.

I am still certain that you have somewhere some of those photographs, and that the negatives

before we left S. 7 for Soda Springs. I handed you one half of the lot. The handing back to me, of what you speak was auditorium to them, and before an other of our stirring opp. Many they not be in the long lost lot?

I am not yet prepared to agree that the Alnus rubilis of the Cascades and Shasta are different species. The two forms may differ but do they differ enough to justify their separation? But we must

studying them more carefully: as

for Crocodile & Lizards. I am

more than ever satisfied that

they should not be separated.

or certainly by some they made

important than either the length

or color of the horn — characters

that vary not every plant

almost.

Sent before leaving California

$10.00 to the Mrs Jones.

the rest of Douglas' mountain

with me, asking him to try

& procure some seed of Amaryllis

for me; but I have not heard

a word from him yet!

Farlow promises to collect all the trees for me. So we may get you. P. Ellis collects for some of the Islands.

I am about buying that house, and find first rate. — weather very cold. hier — I am they must suffer at the South!

Hope you are well and having a good time.

Every yours.

C. S. Sargent

Rec'd Jan 17th
Ans Jan 28

ARNOLD ARBORETUM, HARVARD UNIVERSITY,

DIRECTOR'S OFFICE,

Brookline, Mass., January 13th 1881

My Dear Dr. Engelmann,

I send you to day some experimental plates which I have asked Mr. Chas. Faxon to make for me in the hope of being able to arrange to have a series of drawings illustrative of North American Trees made in connection with the New York Museum collection which I have undertaken.

Failing in that there is always the hope of being able to secure from the General Government an appropriation for this purpose. Of course this is all speculation on my part but I think it would be as well to get Mr. Faxon started on work of this sort. I like his one of Pinus Jeffreyi. The other plates are of course more or less open to criticism and they are certainly too crowded, two plates not being too much (or enough) for the species. Then, too, they were made

ARNOLD ARBORETUM, HARVARD UNIVERSITY,

DIRECTOR'S OFFICE,

Brookline, Mass., 23 Jan 1887

in winter from insufficient material. I send them to you with the request that you will criticise them as fully and as severely as you can. It seems, perhaps, almost hopeless to try to get a complete set of plates of trees made by the same hand, as to do this it would require I should think fully twenty years. Calling the number of species 450 to properly illustrate them would require fully 1000 plates and I doubt if any one person could make more than fifty such plates a year, still there has to be a beginning to all things and I should be very glad to see this important work undertaken.

Of course as this whole matter is only in embryo it will be best to say little about it at present

I will be much obliged if you will send me a large paper copy of your paper on Prunus for Mr. Sargent if any are left. Have you seen the new plates re-

3.

ARNOLD ARBORETUM, HARVARD UNIVERSITY,

DIRECTOR'S OFFICE,

Brookline, Mass., 13 Jan 1889

cently issued by M. Lavallée; although not colored I like them better than any plates of trees I have ever seen.

Yours faithfully,

C. S. Sargent

[7—155.]

TENTH CENSUS
OF THE
UNITED STATES.

Tree Covering; Forest Wealth; the Lumbering Industry.

CHAS. S. SARGENT,
Expert and Special Agt.

Department of the Interior,

CENSUS OFFICE,

Brookline, Mass., January 14th, 1881.

Dr. George Engelmann.
St. Louis, Missouri.

My Dear Dr. Engelmann,

I send you to day two specimens of Pine marked A. and B. They were collected last summer by Mr. Mohr in the Pearl River Valley of Mississippi.

Can one be P. mitis and the other P. glabra, and if so which is which; or are they both P. mitis or both P. glabra? I confess I am all at sea in regard to these two specimens especially after what you say in regard to Burtisses Apalachicola specimen which I sent you the other day.

Yours very truly,
C. S. Sargent

[7—155.]

TENTH CENSUS
OF THE
UNITED STATES.

Tree Covering; Forest Wealth; the Lumbering Industry.

CHAS. S. SARGENT,
Expert and Special Agt.

Ans Jan 21
— 28

Department of the Interior,

CENSUS OFFICE,

Brookline, Mass., January 18th, 1881.

Dr. Geo. Engelmann,
St. Louis, Missouri.

My Dear Dr. Engelmann,

I think that we must have packed all the bark specimens which I got on the Cascade Mts. with the Oregon woods as I cannot find them here.

This collection is now en route from San Francisco here and when it arrives I will send you if possible the specimens asked for in your letter of the 30th. of December.

I shall have now soon the extracts from Douglas' journal which you desire. This has been too long delayed.

Have you got for me herbarium specimens of the following to accompany the wood specimens

[7—037.]

Tenth Census
of the
United States.

Jan. 18 1887

you have already sent from San Diego;—
Hymenoclea, Baccharis, Emoryii, Isomeris,
Ephedra Californica.

Do you know yet to what species the wood specimens of Ceanothus you sent from Auburn belongs?

Do you want specimens of the gum of the Mesquite of which, you remember, Skinner got a supply at Tucson.

Yours very truly,
C. S. Sargent.
Special Agent.

Rec Jan 31
Ans Feb 1

[7—155.]

TENTH CENSUS
OF THE
UNITED STATES.

Tree Covering; Forest Wealth; the Lumbering Industry.

CHAS. S. SARGENT,
Expert and Special Agt.

Department of the Interior,

CENSUS OFFICE,

Brookline, Mass., January 27th, 1881.

Dr. Geo. Engelmann,
St. Louis, Mo.

My Dear Dr. Engelmann,

I send you to day a few oaks from Texas collected principally about Austin and in the neighborhood of San Antonio by Mohr. Please look at them when time permits and tell me what you think about them. They seem peculiar enough to me.

I have to go on Saturday to Philadelphia and Washington and shall be gone probably about ten days. If, when you receive this letter, you have not already returned Mr. Faxon's drawings I wish you would mail them to me at Wormley's Hotel, Washington as I may have occasion to show them to somebody while

Tenth Census
of the
United States.

[Jan 27 81]

there. In the mean time I would respectfully suggest that you devote at least five minutes to writing to me and illucidating a few of the many problems with which, I fear, I have lately overwhelmed you.

Mr. Watson is, as you know, at home again but I fear in a more hopeless condition in regard to Cupressus than ever. I don't see that he knows anything more about it than we do and I regret more than ever that we left California without having paid more attention to this genus.

How do you feel about that Arizona and San Gabriel Oak?

Yours very truly,

C. S. Sargent.

Rec'd Febr 14th

Photo of Machinery

ARNOLD ARBORETUM, HARVARD UNIVERSITY,

DIRECTOR'S OFFICE,

Brookline, Mass., ~~November~~ Febr 10 1881

Dear Dr Engelmann.

I received your letter in Washington and from the long one here on my return yesterday. Thanks for both. And for remarks on Texas drawings. What I am glad to get. This book has done for these material: and is the first of the sort, which has been attempted. We will shape the better. If such as I choose cover takes any definite shape.

It is impossible for me to

satisfactorily discuss the many
doubtful questions raised by our
journey by letter. and Early
next month I must get St
Louis to "have it out with you"
in person.

I looked over some of the
Boundary Plants in Washington.
will do the same in New
York. next week.

According to the Washington
Census Tags signed
L. oblongifolius & L. mexicana
is one such of the foot hills
of the Santa Lucia Range. This

Shelburne you agreed to. but then what
in the San Gabriel talk? of Pennie
Chapline & there was a specimen
of Coleoneg. for the Pots East of
San Diego but no Cone.

Pringle seems to greatly fear
Indians. Snakes. but Stofie
never seems his courage ob
to the point of getting off
next ~~week~~ month.

Stone brought back a heavy
cold. which makes me feel
most uncomfortable. Weather
here down mostly – the great
bodies of snow going off very

fact.

Don't pray be in the great to bring you that Jesup on for Carolina..!! An individual tree is a dangerous thing on which to base an opinion.

If Curtiss could only find an forest of it – You know how greatly the Hemlock varies in cultivation. And what an enormous number of seedling varieties are sent out in all museums.

In haste.

Rec March 4

Ans

ARNOLD ARBORETUM, HARVARD UNIVERSITY,

DIRECTOR'S OFFICE,

Brookline, Mass., March 1 1881.

My dear Dr.

This long talk of Bebb's may interest you.

So our "Black Willow" or "Salix Sericea" = S. Scouleriana.

(you have I think the measurement of the big specimen. You saw one in Mr Trask's place at Victoria)

Salix Hookeriana. is the plant we first saw at Astoria. and afterwards in a small tree near the Sea. in Winchester Bay.

Practices within that are fortunately
not to appear in the Chronicle.
What I want some time soon —

Stay to go with them. I want
very much to my notes of the
trials after Robbins & Annabelle
for the Concordia.

<u>Shall</u> be leaving for St Louis
on the 13th or 14th of this month.
If possible — So get ready
to leave. I can. or. that
we may have a big pow. low.
I am really happy at the thought

of seeing you on the morrow.

Yours very truly,

C. S. Sargent

Did we get seeds of Aphanostemma undulatum? I remember we collected it near the Santa Rita. Have not as yet received any seeds for you.

I suppose the tall Rhamnus near Shreb. collected by the road just south of Tucson is a new Crossotherus.

I am reading with much interest Bartlett's Personal Narrative of the Boundary Survey. Have you read it?

C.S.S.

Rec March 7
ans — 10

ARNOLD ARBORETUM, HARVARD UNIVERSITY,

DIRECTOR'S OFFICE,

Brookline, Mass., March 4 1881

Dear Doctor,

I have your note but not yet the Picea, which will be gratefully received — No I have not seen Gropius' Catalogue — of what? and why does he catalogue only wood fibre with Atmosphoschlüsse?

Yes, I have looked at Pennothrix — When you collected C. Spinosus Sun, you remember, in bed. Have you a specimen for

me? I don't find either that Gray C. papillosus, but I gave have from Santa Cruz. Gray only C. thyrsiflorus from there from the tree we cut from a wood specimen.

Shadley make out from your note, whether the wood specimen from Auburn is C. cuneatus. Is it?

Suppose the Santa plant is C. divaricatus, although I don't well distinguish. C. crassulosus Cater. for C. divaricatus: and I dare say they must go together again.

the plant certainly has very
serious fruit. You have. I hope
a specimen of the Tucson plant.

I am waiting to get a few
more seed and passes from
Pringle. Then he will start going
via St Louis to Salem City. or
then probably (if the Indians allow
let him) into the Nts &
western New Mexico.

Will send you Hundred
specimens next week.

Hope to have here 14 or 15
for St Louis. Often if the weather
is decent. Just three or four
minutes with Torr. Yours

New Orleans. La.

It is vile here to day. but has been bad, I believe, when with you.

What a winter!

I hope we this Watson has sent you his observations. I have not seen them. and when I was last at Cambridge he had not even unpacked his packages.

Yours always.

C. S. Sargent.

An large fruited (var) Ribes from Reichenbach. V.S. was again in crossing the Sierra Nev. lots. was first time of A. Lucerlen. in R. Lobbii. in good flower. the fruit not discovered. I have a good supply of seed fortunately. I have not yet looked at the Roses. Have you?

Rec March 12

[7—155.]

TENTH CENSUS
OF THE
UNITED STATES.

Tree Covering; Forest Wealth; the Lumbering Industry.

CHAS. S. SARGENT,
Expert and Special Agt.

Department of the Interior,

CENSUS OFFICE,

Brookline, Mass., March 9th, *1881.*

Dear Dr Engelmann.

Thanks for your letter. I am trying hard to get ready to get off to St Louis on Tuesday of next week. What we shall want to discuss are.

Oaks of S. California. & Oregon.

Abies. S. Western Juglans.

Oaks of Texas.

Watson's Plants. what I hope you will have by that time. Pinus Clausa.

This should well fill the short or memorandum I am give to St Louis.

I send you to day specimens of all the Hemlocks we have growing. Also so you should of the botanists collections in the Cascades Mts by mere. I put labels

Tenth Census of the United States.

[Mar. 9, 1881]

in them all when I packed them in Portland, but there are many of the specimens are nearly obliterated. I think, however, they are all straight with the exception of the two specimens (1 & 2) of the two Abies. These were taken from trees less than 100 years old, but I cannot tell what is what. Perhaps you can.

Salix:

"White Willow" given us by Wright = S. laevigata.

"Black Willow" " " " " = S. lasiandra var lanceifolia.

Tree at crossing of Cow Creek, August 17 = S. lasiandra

" " Cowlitz, ~~August~~ July 16 = S. lasiandra var lanceifolia.

Black Willow, Vancouver, Scottler = S. Scouleriana.

Narrow leaved Willow with glaucous foliage common on the banks of the Klamath = S. longifolia var argophylla (S. argophylla, Hutt)

Willow of the Santa Rita Inlet = S. longifolia.

The Shrub of Astoria & the tree on the shore at Winchester Bay = S. Hookeriana.

Tenth Census
of the
United States.

[Mar. 9, 1881]

[illegible]

[illegible] S. [illegible].

[illegible]

[illegible] [illegible] [illegible] [illegible]

Does your friend at Presidio get Pistacia Mexicana. or Parkinsonia florida.?

I am most anxious to get more (some) information in regards to these plants = esp. habit. mode of growth &c. &c. And if I can to get the wood specimens necessary for our investigations.

Can you help me.

Church from tomorrow Istead. I hope be with you.

Yr very tly
C S Sargent

Rec March 28 1880

Tenth Census
of the
United States.

Austin, March 24
Post mark 25

Dear Doctor,

To day I have been among Buckley's oaks.

Durandii as a form of the Post oak must be given up. I have specimens in all stages, which you shall see in due time. The bark is peculiar (see the enclosed) more flaky (even on all the branches) than any oak I know, except perhaps Michauxii, & quite white. It grows, too, along the wet edges of streams in the bottoms, while here the Post oak, unless the Black jack, is confined to the ridges above the bottoms. If not a species, what is it? Buckley says he saw no specimens of the same tree in central Alabama, none on the Red River below Shreveport! Do you believe it? How it probably is widely distributed out of the Bottoms, & from here to the coast. I stereomicro is bark, habit & foliage is a red oak, but the ~~cup~~ fruit! It certainly is not Coccinea, and if one of your favorite hybrids — what the parents? There is no Coccinea or tinctoria this side of the Trinity. I probably have grown specimens than you have seen — and there may

Ulmus – Buckley says it flowers in August!!! – Lonicera is beautiful!

help. It is <u>beastly</u> – I have been trying to refute this Juniper for the western species it looks so very different – Do you know that it may grow in Lower Texas ridges. was there the best of the young trees, was the branches. is <u>milky white</u>? Geographically it is far away for the New Mexican & Colorado plant. but nothing I believe must further west than San Antonio. At least so says your friend Buckley. We had a cold time at first. Spring 24 hours in 10 days a snow drift at Sedalia.. Very pleasant! Just warm before reaching Marshall.. Then lovely spring. with Lilacs. Cornus. Apple blossoms &c &c. I never saw anything more lovely than the great sheets of blossom of Cercis in the Indian Territory. I never imagined that <u>Cercis</u> to be so plentiful. or so beautiful! We passed a night in Dallas. one in Marshall. visited Shreveport. & got here this morning. Leave tomorrow morning for San Antonio. So you see that this is strictly on the "fine morning" plan – the only one when you really want to see anything. We have had one regret – that you were not with us. So hoping for you,

C. S. Sargent

[7—155.]

TENTH CENSUS
OF THE
UNITED STATES.

Tree Covering; Forest Wealth; the Lumbering Industry.

CHAS. S. SARGENT,
Expert and Special Agt.

Rec April 11
Ans — 12

Department of the Interior,

CENSUS OFFICE,

Brookline, Mass., ~~March~~ April 8, *1881.*

My dear Doctor,

Home this morning direct from New Orleans finding that I could not get back to St Louis without a loss of more than five minutes. Very sorry indeed! Will send you Texas specimens on my return. and only write now to enclose this letter for Mr Lewis. & to say that I am sending you botany that he sends me.

No I take to be P. Tweedia. & the other not very much like the forms of P. Elliottii that Curtiss found in the extreme Southern portion of Florida. If so. where is your specimen!!

I have not even washed my face after the long journey. & so must say farewell for the moment.

Ever yours,

C. S. Sargent

(over)

Will you please send me by mail when time permits. My bundle of specimens for your herbarium. the Vitis seeds and Lettermann Hickory buds. Ashley. C. S. S.

[7—155.]

TENTH CENSUS
OF THE
UNITED STATES.

Tree Covering; Forest Wealth; the Lumbering Industry.

CHAS. S. SARGENT,
Expert and Special Agt.

Rec'd April 15
Ans — 17

Dr Engelmann Botany

Department of the Interior,

CENSUS OFFICE,

Brookline, Mass., April 12, 1881

Dear Dr Engelmann.

I send you to day some of my Texas plants. Every specimen of I. Durandii is sent. Take what you want & send me back the rest. The large leaves are I. pubescens nearly fully grown. They are from the lower branches of the largest tree I saw — about 20 inches in diameter. The specimens were all taken from three or four trees growing near together and in the neighborhood of Austin, the only place where I met the tree. I am most anxious to hear what you will have to say in regard to it. I don't think that there is much in Juncus Texanus. If you connecting it with the typical plant are not sure. The Red bark is a very common along the streams

[7—155.]

TENTH CENSUS
OF THE
UNITED STATES.

Tree Covering; Forest Wealth; the Lumbering Industry.

CHAS. S. SARGENT,
Expert and Special Agt.

Department of the Interior,

CENSUS OFFICE,

Brookline, Mass., [Apr. 12], 188[1]

of West Texas growing very large at San Antonio — fully three feet in diameter. In Eastern Texas the leaves of L. Michauxii are all green on both sides, so far as my dry specimen indicates. It is a truly magnificent tree.

The little specimen of what I think to be L. hypoleuca is really interesting as showing the time of flowering of the species. What I believe may be from two to three weeks later than the other species with which it is associated. For this reason the flowers are often injured for the late frosts, so this species appears to be only certain crop of "acorns" in East Texas. I have found no signs of flowers of the other oaks. East of the Trinity I believe they have all been killed by severe weather. The Nuttall I found again in the

[7—155.]

TENTH CENSUS
OF THE
UNITED STATES.

Tree Covering; Forest Wealth; the Lumbering Industry.

CHAS. S. SARGENT,
Expert and Special Agt.

3

Department of the Interior,

CENSUS OFFICE,

Brookline, Mass., [Apr. 12], 188[1].

only from Texas in Texas was in bloom

very different from what I have seen before.

What do you think of the specimen of L. albus?

Here to day we have one of the heaviest snow storms of the year! It blows sort of thing never going to end! Very busy. but as always yours faithfully.

C. S. Sargent.

Bobbie has sent a few seeds of Picea Morinka. that I hope will grow.

Yucca Treculiana. was magnificent, in bloom in the Austin Gardens.

Rec April 21

[7—155.]

TENTH CENSUS
OF THE
UNITED STATES.

Tree Covering; Forest Wealth; the Lumbering Industry.

CHAS. S. SARGENT,
Expert and Special Agt.

Department of the Interior,

CENSUS OFFICE,

Brookline, Mass., April 18, 1881.

Dear Dr Engelmann

Your package has arrived. Many thanks.

I send you to day a specimen (Rubset) just sent by Buckley of his L. San Saberna. He says "bark of main stem light grey very scaly 2-3 in. + 5-10 ft h. grows in dense clumps often making impenetrable thickets of many acres in extent in limestone hills & mesas. Called Shin-oak. Do you think it is what Engelmann calls it? I do not". Yes why not. If not however some peculiar form of L. stellata.

A great letter from Gray this morning what I will send you tomorrow. Don't go to Arizona without letting me know.

Yours faithfully, C. S. Sargent.

Must write to Gray. If Prof. Gray is anything.

[7—155.]

TENTH CENSUS
OF THE
UNITED STATES.

Tree Covering; Forest Wealth; the Lumbering Industry.

CHAS. S. SARGENT,
Expert and Special Agt.

Rec April 27

Department of the Interior,

CENSUS OFFICE,

Brookline, Mass., April 23, *1881.*

Dr George Engelmann
St Louis Mo.

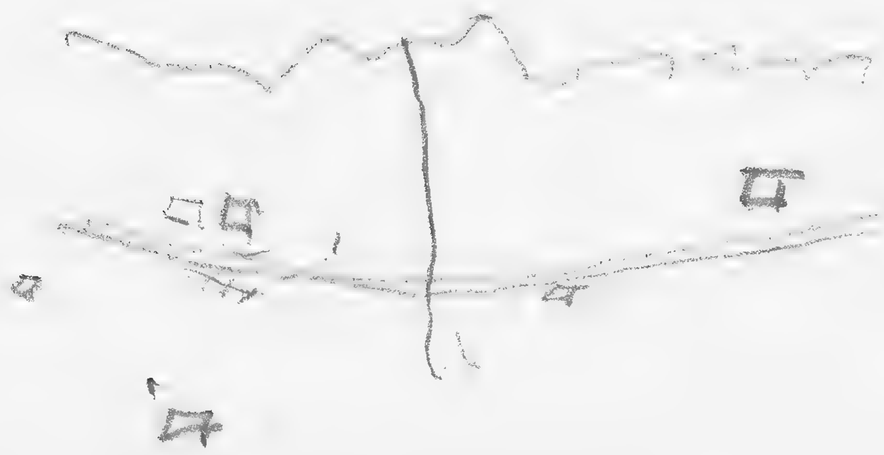
Dear Sir

Prof. Buckley says he has found Juniperus pachyphloea in the mountains near Fort Davis, Texas, and also in the valley of the Rio Grande near El Paso.

Of course he has nothing to show for it in the way of specimens. Have you any reason to believe him to be correct? Have you any specimens from this region? Has he not probably in mind J. Californica, var Utahensis, or perhaps J. occidentalis?

Have you anything to tell me in regard to the West Indian pine — I am very anxious to hear something of it — as fully as possible

Yours very truly
C. S. Sargent — Sp. Agt



Rec'd April 30
Ans Cu'd P.C.

ARNOLD ARBORETUM, HARVARD UNIVERSITY,

DIRECTOR'S OFFICE,

Brookline, Mass., April 27 1881

Dear Dr Engelmann.

Find Buckley's original description of Q. Durandii in proceedings Phil. Academy 1860 p. 445. Where is also his Q. annulata? Q. Shumardii? Quercus texana? Holesia reticulata? &c &c.

What are these???? Are you in Enigma? Beware of Antifeudin!

Ever yours, C. S. S.

Rec'd May 7th
Ans same day

ARNOLD ARBORETUM, HARVARD UNIVERSITY,

DIRECTOR'S OFFICE,

Brookline, Mass., May 4 1881

Dear Dr Engelmann.

I am very sorry at what you write me about your rheumatism. It is too bad! You must have "nervous stimulants" and that you can't get as long as you are in your back in St Louis. You will have to start off again, as soon as you are able. Either to the Amazon or to Europe. In the latter

Case we should have you here,
what a welcome the greatest
pleasure.

Pringle writes very little — he
has visited the Santa
Catarina Range. near
Jacan. often there a Cupressus.
of which he sends specimens.
Then Coast like what Jamison
gets. Pringle also sends
of ~~bulbs~~ bulbs in bloom. Which
he has. Shearman — not
Quite yet. Gave hint to
blow him up for not writing

more in detail. Nothing

for Summer. Heavenly

to have been for Penny. Wright.

to the Parish Brethren. who

will seem more or less.

actors.

In one of my many letters

I wrote to you about the

Specimens from Curtis's of

P. Clusea. var = glabra.

I believe you are right.

Is not then Jussiæ

Grows Florida. var. reflexa.

represent for Mr Santa Rita

plant. & identical with Jos
ses P. stroblitoxmii. ? a distinct
distinguish. the scale of the latter
what you gave me for those
sent by Jesup. But you don't
want to be bothered with
the thousand questions now. What
I want is something new
& exciting & that I have not
got to offer to day. So good
day for the moment.

Ever yours,

C. S. Sargent -

Rec May 14
An — 17

ARNOLD ARBORETUM, HARVARD UNIVERSITY,

DIRECTOR'S OFFICE,

Brookline, Mass., May 11 1881

Dear Doctor.

Glad you are better. or at least out of pain. With this hot weather (if you are having it) you will come round all right I hope.

I am after a very weak dose of heroine only this morning.

Belle sent me a few weeks ago a very fine seed of Pieris Oreotrophes. They are coming up nicely.

I hope you will not be

who can resist to insist

in having me. But I fear

you will!

Where in North Carolina

does you Jenny live

and did they use Gibbs

albert or Lefore Curtiss?

What are your characters?

Sent you long ago Curtiss'

letter in regard to the plant.

You still have it. That is

all he has ever written me on

the subject. You perhaps have

Some above about the house or pile of things. for me. altho' during your sickness. other letter is probably among them.

I want much to know about the W Indian Plants. hey Dear.

So after all you got 2. oblong folios. in that day when you move off for Los Angeles in the hot-Sun. what Jolly tea is best.! At least you seem ~~seem~~ to think so. if I rightly understand your letter.

I am glad of it. It makes me feel mighty happy.

to have from L. Douglas in Southern California. Address in Angeles.

We have been very much alarmed about my father during the past few days. He has an severe attack of gout about a week ago. This left him completely prostrate. He is now better and I think will recover, but at 82 years there is always great anxiety.

I sincerely hope that there will soon be nothing further for gratitude restoring.

Faithfully C. S. Sargent

Rec May 19
An — 20

[7—155.]

TENTH CENSUS
OF THE
UNITED STATES.

Tree Covering; Forest Wealth; the Lumbering Industry.

CHAS. S. SARGENT,
Expert and Special Agt.

Department of the Interior,

CENSUS OFFICE,

Brookline, Mass., May 16, 1881.

My dear Dr Engelmann,

Inclosed I send you the original specimen of your Texas. Lucas reniforme. by the light of what we collected last year in California. Buckley writes me that in the neighborhood of Austin it is often a tree 20-30 feet high. and not, as has been supposed, always a shrub. I inclose specs of the three plants — Atlantic. Pacific & Texas. and a leaf of the last sent by Buckley. This specs is the dark colored one. Notice that the upper & lower sides are quite unequal. the former being almost straight (I don't know the right word to express this shape) while that of the California plant are much wider. the general out-line the 2 sides are much nearer alike. The leaves differ especially

Rec'd May 19

Tenth Census
of the
United States.

[May 16, 1881]

in texture in the Texan being somewhat prolonged at the apex. Then there is (so far as we know) no Cercis growing anywhere between the Sierra Nevada & western Texas, either in territory. So that geographically the two plants are very widely separated. What have you from Gregg or other Mexican collectors? Sorry to re-establish your name. Unless you have some further light to throw on the subject.

Have you got new Palmer's Mexican plants (the last)? Not everlasting Cutleaves turns up again. This time from Chihuahua. Same as Greene's? Same as Pringle's? Or why not same as Hacienda? ???? There is a page in the collection new to me. & also what State for your Uplands.

How is the gout — beg your pardon, rheumatism?

Your faithfully,

C. S. Sargent.

Rec May 20
Ans 4/

ARNOLD ARBORETUM, HARVARD UNIVERSITY,

DIRECTOR'S OFFICE,

Brookline, Mass., May 17 1881

Dear Dr Engelmann.

Well I have Prangle gives you plenty of sessions at last! And do you come right after all about Pinus Arizonica! That an idiot Jim to listen to Massey's humbug. Of course I give up going to the Tops of those Peaks. And then you remember that I promised (or was willing) to stay there on the

day ? but you were demoralized

so we went off. that's all

for Memphis. Hum..! about

you feel badly!

You have seen Memphis rocks.

what shows out; when

do they "pass out"?

Send you some more

western things. of L.

Lucundi! sent by

Buckley. stokes for

the tree for which I think

the large leaves: I have already sent you:

"Auld Eustis Storm has now in its third day."

Yours,

C. S. Sargent.

[7—155.]

TENTH CENSUS
OF THE
UNITED STATES.

Tree Covering; Forest Wealth; the Lumbering Industry.

CHAS. S. SARGENT,
Expert and Special Agt.

Rec'd May 26
Ans — 27

Department of the Interior,

CENSUS OFFICE,

Brookline, Mass., May 23rd, *1881.*

Dear Dr Engelmann.

Glad to hear you are down again. But take good care of Jonesey. For we continue to knock at the two ends of the line. Thanks for your good advice what Shaw terms nutting to Miss Sargent - Use me, better than I know the value of it. But will it do any good. Often not! You must come yourself & give that young woman a serious talking to. Nothing else I fear can long prolong my life in comfort.

Yes! Curtiss letter is signed to you. Sarge. has sent long ago. (when you asked for it). and he it has not been returned. It Either failed to reach you or you have it somewhere in your house. Thanks for Miss L. Dry basis' address. Shared with you family

the N. Indian Sp. American. Then we young men as you say to me sometimes "why cant you look at the Sp. American & make up your mind that then"! My Bulletin maps of the Pine forest of Florida — is in the Longwoods Lands & forest Lands very soon. You know that the Elliottia or Cotinusia. is most of the pine forest of Southern Florida. is made up of other species. What shall it be.?

In a late card from Pringle he says that Simmons think that he has done away with P. virginiana forbesii. Don't you feel bad?

L. Cocciana. Yes yes flowers. ~~as cant~~ calli than L. tinctoria:

Ever yours.

C. S. Sargent.

Rec June 18
Ans — 20

ARNOLD ARBORETUM, HARVARD UNIVERSITY,

DIRECTOR'S OFFICE,

Brookline, Mass., June 15 1881

Dear Dr Engelmann.

I see by the papers that you have gone to Europe. but still venture to address you at 8003 Locust St.

I send you to day flowers & leaves of agave from the Keys of Southern Florida. for what Curtiss wants a name.

I will write Buckley to look after Cercis. Palmer is still in Cambridge. but goes to your part of the

would to dig mounds for

Putnam.

Better write Pringle to

look after Jim Parsons

from of P. Fletcher. He is

doing pretty well; would

get some good things no

doubt. I think I should send

him to the Columbia River

in the autumn to look up

seeds & other tree blows

& then let him winter in

Southern California.

I seem fated not to get

the wood of Prunus Cultrei.

In the last shipment that I might get from Mr Trees has been burned at Ogden, with a lot of other California woods. which finished up the whole collection for the Coast.

There are therefore no or two sets (complete) of Palmer's last Mexican & Texas plants. If you want to get one. I just send you. his compliments. to examine. but I think you should have them. "The other set" sent

with L. Grandiei in Buckleys

Sam Sabinum which is rather

Slightly than undulate. I

shall think. Share our

for Philadelphia Buckleys.

Signed L. annulata and

Equal. L. Grandiei

Fine weather at last after

a month of cold Easterly

Rain storms!

Yours

C. S. Sargent

Rec'd July 4th
Ans —

ARNOLD ARBORETUM, HARVARD UNIVERSITY,

DIRECTOR'S OFFICE,

Brookline, Mass., June 30 188 1

Dear Orton,

Good for you. So you are off to the Nuts again! Don't Jump too young: but of course Cont. Some of a practicum of 5 mts.

Return Simmons letter. Think Pringle is put out with him. I don't say with cause. He is a disagreeable fellow.

a good letter for Gray

tells of his return to Kew.

this more than possible

return to Cambridge than

autumn..

Cooley is in Rome but

had been at Colson's

Hens. in the neighbourhood

of which he had seen a

good deal of Jon Lenga.

Why did not you call

on the Dawson when you were

there?

Mohr

Mohr. found at last

in another it is found again.

at last. by Mohr — Darby.

other time among the hills

of northern Alabama. You should

have the annex. It is

monoecious. but unfortunately

he came too late for the ♀ flowers.

although the swelling [illegible]

show traces of the hooks of

Buckley's. to which perhaps

it must be referred.

Judging from your theme advertisement the fundamental Chemical must effect a big sale for your portrait!!

Keep me well posted as to your movements, address.

Hope you will have a splendid time. Let me know that you know. Arrenthorium what will amuse yourself with.

Yours faithfully,

C. S. Sargent.

Rec'd July 12
Ans Aug 15

BOTANIC GARDEN,

HARVARD UNIVERSITY,

Cambridge, Mass. July 9 1871

My dear Dr Engelmann.

Accidentally, Forestiera is known to in advance! Some of your plants show every signs of moving from the roots as yet. but I fear not one of the seeds will grow. I have looked into about potting. most they all contained in white goods. with patterns with the contents of the cans. The rest will be planted in the hope that one or two may grow. but I have not much hope.

I fear I must have to trouble you for a botany of Pinus Jeffreyi specs.

as yours is the only northern-October
I can hear from. Could Egypt
undertake the job? I can take
care of 10 or 15 lbs of clean, good
seed, if that amount can be found.
This would necessitate a stay of
several days among the trees, and
probably he would have to take some
men with him. Of course, as the seed
is intended primarily for
Massachusetts, he will be paid for
his work, what it is worth. Write
to Istanbul know about the difficulties
and expense of the undertaking.
I can form no idea of how much
he should receive. I am faithfully

nothing, however, to have that matter
to go to settle. Flora is very doubtful
a person. Does not seem to me
to be an unusually smart person. However
perhaps I'm in both more.

Parker arrived this morning in
fine condition; and Thursday they
start via Philadelphia for
Cincinnati, where they will be
Saturday evening. They will pass
Sunday there, but be with you
sometime on Monday P.M. The 10 inch
Jap cuttings to know ~~some~~ what
you make of the oak. It is
customs struggling.

Ever yours
C. S. Sargent.

[7—155.]

TENTH CENSUS
OF THE
UNITED STATES.

Tree Covering; Forest Wealth; the Lumbering Industry.

CHAS. S. SARGENT,
Expert and Special Agt.

Rec'd July 18th Answ'd 19

Department of the Interior,

CENSUS OFFICE,

Brookline, Mass., July 11, 1881.

Dear Dr Asa,

I am glad you are off. (or going)! It is a wise thing for you to do; and if I could but be with you. I should see no objection whatever to the plan as it is, my only objection is a selfish one.

You must not blame me about the Carolina Tsuga! You and the others might have seen it, but I saw it at Lissen's Pond, or at any of the stations where it is said to grow! Pugh sends fine flowering specimens of the Magnolia, the same as the plant collected long ago by the Boundary Botanists. What you know Nattan. Characters, or a new species, whether rightly or wrongly I don't know. He sends, too,

flowering specimen of that Bupleurum which to be sure is far away from home, was what I want for its common leaves upon flowered umbels. I can't distinguish from the form for that Mr. (Austin?) of B. longiradiatum.

I don't feel very clear about Yucca baccata: a plant I have not seen growing wild anywhere I have yet been. Does the Continent as you call it the southern from come within the limits of the U.S.; and if so where can it best be got from?

The Baron Von San Paul of Berlin with whom I have long corresponded about trees, wants me to get for him some 200 lbs of the seed of the Douglas Fir from Colorado!!! I had counted on Brandegee to undertake this job, and I don't know certainly yet that he will not undertake

Rec July 18 Rep'd

[7—155.]

TENTH CENSUS
OF THE
UNITED STATES.

Tree Covering; Forest Wealth; the Lumbering Industry.

CHAS. S. SARGENT,
Expert and Special Agt.

2.

Department of the Interior,

CENSUS OFFICE,

Brookline, Mass., [July 11], 188[1].

it; although I fear that he cannot. as I wrote him some time ago in regard to making a collection of wood the owners of the Rocky Mt Trees for the New York Museum. He felt that he could not undertake owing to previous civil-wood engagements. Since then the Barnum argument has come & I have suggested that Brandegee could possibly afford to take a vacation for the purpose of getting the specimens & the seeds. I do this I have not yet an answer. I fear that he will not be able to see his way clear to doing that I want of him.

Now if you can find some local botanist in the region where you could best start the trees, who would be glad to make a

little money, or indeed a great deal, if he succeeds in getting any thing like a good specimen — an impossible task I fear. Even if the trees are bearing this year, which seems by no means certain, I might be able to arrange something with him. Please think this over, & if any thing suggests itself to you, let me have your ideas on the subject.

There are only Shebino, Snow & Hay left yet. Shebino is all what I need from Colorado.

Unfortunately Brandegee is the only botanist there in the State.

Yours in haste,

C. S. Sargent.

[7—155.]

TENTH CENSUS
OF THE
UNITED STATES.

Tree Covering; Forest Wealth; the Lumbering Industry.

CHAS. S. SARGENT,
Expert and Special Agt.

Rec'd Cuyamaca Aug 13 1881
Ans 15

Department of the Interior,

CENSUS OFFICE,

Brookline, Mass., July 30, 1881.

My dear Dr.

I am sorry to learn from your last that the changes of air has not done every thing for you that you could have hoped. but you must cheer up. so that in your next journey I may hear that you are again, as last year, "climbing like a cat" the highest mountains sides. Your letter solves one doubt in my mind i.e. what two sticks of Juccas were which came with the other specimens from California and in regard to which I could learn nothing. Now I take it that they were the specimens of Yucca baccata. You omit from San Diego. and what else you never wrote me. I am glad to get it. My German Barnes name is Von

Please give the accompanying letter to Charles Sargent

San Paul. I believe he is a retired Admiral. and he is certainly a great lover and planter of trees.

Cusick sends this enclosed. which he says is a common tree at 4.000 feet in the Blue Mts of Oregon. What is it? I can't well distinguish the leaves from those of the grandis of the Mts South of the Columbia. except in the greater number of stomata on the lower side ~~of the leaves~~. I don't find any stomata on the other side. So can it be Concolor. or Louisiana. or the "connecting link" between them. or what? I don't know but you will have to make me a specimen Conc grandis. Concolor. Louisiana. or or. If not, where draw the line. if stomata on both sides of the leaves. fail. Here is a conundrum. which may well test you for a long time. Ever yours, C. S. Sargent.

Rec'd Monitor Sept 4
R. C. Sh. Fe Sept 10

ARNOLD ARBORETUM, HARVARD UNIVERSITY,

DIRECTOR'S OFFICE,

Brookline, Mass., August 30 1881

My dear Dr Engelmann.

I am well pleased to learn from your late notes that you are still alive and well. I am getting anxious lest the storms "thunderbolts", of which we read such accounts in the papers, had done you harm. I at least caused

for some days inconvenience

I am greatly obliged for the

varnish the cuttings for have

sent. what I am delighted

to get.

I have not much to write you

to day. but the enclosed

is interesting, first you seem

be correct in regard to

the specimen of Cusicks, that

I sent you the other day. then

we are pretty well out in

to the geographical range

of the species. Why not take

the bull by the horns. and
make me polygamophobe. Shows
to cross Jonathan. Overlook.
Invitation. no ?? And if
not, they will? You will
have to come to it sooner
or later.

My family are all at the
Sea-Shore in Rhode Island.
for six weeks. I think I generally
go for Sunday. Morning generally
at home. during the week.
I have not felt so well
for a long time as I have
this summer. although
an occasional twinge in my

right hand. Remember me. that there may be a good time coming. if I don't follow your instructions pretty closely I send known. that horse back riding again wonderfully well with me.

Bugle reached San Francisco, after a delay of 10 days owing to unknown storm. astonished on the following day for Port Shasta. We will be on the Columbia in time for sender of the letter. Good bye for the moment. Have a good time, and come back full of health & vigor.

Your friend
C. S. Sargent

Rec Sept 24

ARNOLD ARBORETUM, HARVARD UNIVERSITY,

DIRECTOR'S OFFICE,

Brookline, Mass., Sept 21 1881

Dear Dr Engelmann.

Glad to hear that you are safe at home again from your long journey & hope, although you say nothing about it, that you are quite well & strong again.

Many thanks for your kind sendings. The seeds are already in the ground. With hope. Yours. Sam.

going away for a few days
in the country. On my return
will write at more length.

Have you got a letter from
Gray when I sent you to
Newton? He wants for homes.

Yours &c.

In great haste yours
faithfully

C. S. Sargent

Rec Nov 21
Ans " 9

ARNOLD ARBORETUM, HARVARD UNIVERSITY,

DIRECTOR'S OFFICE,

Brookline, Mass., Nov 17 1881

My dear Dr Engelmann.

I feel ashamed when I think how long it is since I have written you even a line. I should at least have asked how you were getting on in health in these later times told you something of Gray. But I have been horribly busy and much distracted by many conflicting calls on my time!

Gray, of course, you have heard from; but you will be glad to hear he is rather hoarse, and feeble. he looks. one of his

Please?

Soundness in body & mind. I don't
see that the time which has passed
since Jesse's loss, in June
1880, has added anything to
his age. He resists the attacks
of Astra & Solidago. Yes Sutton
cannot be considered proof against
all human ends.

How far is fun ???

Been some time ago a land
for you to Watson in which.
You speak of having found
the true L. gracilis of Lindman.
That plan is the back. for mean
me. Sent to Rata Camp. with
illustration. Did we treat
to gracilis? Where you found
the main is important to you back

Thank the by the way I received Sandberg's Lindman's L. gracilis & sent it to Watson. "Chattanooga - Eulogy"

for Sir Gabriel? — Hesquiemyth

must say in the Lincolnshire-Guern-

sey-Indian-quotes?

Who will go publish. Thus

upstairs. Yucca. Elata? Stake

down (in undertone in fine minutes)

as I want to quote quote Jm. for

them.

I'm still uncertain about

the subtomentosa form of Yucca.

Facetata. ~~that~~ is whether it

comes with mr flora. or is

only Mexican. assuming Thompson

or. in Bartlett. Repent.

Is the subtomentosa Yucca.

of Santa Fe Mexico.

y. Tricuspidata. or Carnerosa.

Are not there one other dame?

Certainly under the Dotson.

Another. Is the air also gone

but under the air of others?

Do you want have other

Now what that Catalogue

of your neighbourhood, which you

showed me. Shewn. I

thought was herbaceous distinct?

Have you thought of it more

even you speak me some

Shewn. might part from

planting? But this will

do for me there. I see clearly

saying. There is no little

list of suitables of your new

Magnolia Dr. Asa Gray Boston.

Yours faithfully

C. S. Sargent.

Rec Nov 29
Ans Dec 2

ARNOLD ARBORETUM, HARVARD UNIVERSITY,

DIRECTOR'S OFFICE,

Brookline, Mass., Nov 26th 1881

My dear Porter,

I am very much obliged for your letter and the information botanical and otherwise which it contains.

Yes, I know what you have told me about *Yucca baccata*, but I have never been able to find the specimen you sent from San Diego. a year ago. Now do I know yet much about the distribution of

this species in spite of all you have told me about it. but the fault, I suppose, is my fault.

I am delighted that you have taken up Cupressus. They need looking into badly. more than any of our arborescent genera. except perhaps Ceanothus: that seems a hopeless job. except perhaps for your patient and minute investigation.

I have a good deal of Cupressus material. picked up in gardens. and sent by California correspondents.

Send it all to you. If it will help you at all. Say the word, if you want them.

Enclosed in this a couple of letters from Hooker about Cupressus. Some specimens from him. Take of them you should. and return me the balance. at your convenience.

Should like an herbarium specimen some such opinion of Cupressus if you can spare the former and get Egypt to look up the letter. I found in Mr Ames

garden this morning to transplant of what we have is enclosed.

It is has been there three or four years. is perfectly hardy.

What is good - very!

I want to go to Mexico.

to follow in the footsteps of Bigelow. New plants!

When ~~would~~ will you be ready to start?

In the mean time I am

always faithfully yours,

C. S. Sargent.

Rec Dec 20th
Ans same day.

ARNOLD ARBORETUM, HARVARD UNIVERSITY,

DIRECTOR'S OFFICE,

Brookline, Mass., Dec 17 1887

Dear Doctor.

Jno Pessimist: is you need a new post-master at St Louis. for better packed shamrocks have never sent by any one. to any one. I have been in bed for nearly ten days with a horrid cold. that troubles my lungs and generally makes me unhappy. But good you will say: and I should not nightly. Now I am all right again. and in good condition I hope. for the long winter. and its dangers, social and climatic. Now for your letter. Yes - you are going to have a good set of new cuttings. and I have been waiting for you to come in. and pass a few weeks with me. so that we can go over the collection pick out just what you want. This will

ARNOLD ARBORETUM, HARVARD UNIVERSITY,

DIRECTOR'S OFFICE,

Brookline, Mass., [Dec 17] 188[1]

be better than sending at random. and without knowing what you want. What goes to Lettuce is the tail end of a lot of small bits made up from upper material. and of no great value to you. The wood of Cupressus is for you. That labelled "Southern California. Vasey". is 691. "C. Goveniana" from the Department of Agriculture. was collected in 1875. It is no doubt C. macrocarpa. from Monterey. as he was out there in the Santa Lucia Mts. I had supposed that the finding of C. macnabiana by Jeffrey in the Shasta Region was an error. I had forgotten that Murray had collected at there. No part of California has been more carefully examined by botanists in late years. + I don't believe I shall believe it grows there at all.

ARNOLD ARBORETUM, HARVARD UNIVERSITY,

DIRECTOR'S OFFICE,

Brookline, Mass., [Dec 17] 188[7]

3.

We sadly neglected Cupressus in California, & as it turns out (and as we very well knew then) it is one of the most important subjects for us to look into. The summer was too short for what we wanted to do! Nelson devoted some time to Cupressus. but I have not yet seen his notes. Have you? I find in one of his letters the following "I have been twice to Monterey investigating the Cupressus Goveniana, and was successful. but I am pretty sure that they are not distinct certainly the character given in Bot. Cal. are not yours".

He was at Calistoga, & gave me Fisher's address. He is a strong driver, and I have no notes from him. I shall separate the plant from Bolander's Clear Lake plant, and if

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ARNOLD ARBORETUM, HARVARD UNIVERSITY,

DIRECTOR'S OFFICE,

Brookline, Mass., [Dec 17] 188 [1]

2 specimens from Oliver Cooke.

It is not C. mochatiana. Nor I do not know that plant. I think you must be mistaken

This Mendocino plant seems to be the same specimen which I got as Tamalpais Tamalpais, and also Nancy's Santa Lucia specimen. What he took for C. nevadensis. which I have in bottle the

ARNOLD ARBORETUM, HARVARD UNIVERSITY,

DIRECTOR'S OFFICE,

Brookline, Mass., [Dec 17] 188[1]

East crest slopes of the Santa Lucia. Pt. on the Sentinel 50 feet about high. and two but in diameter. Such trees are entirely unsatisfactory. in view all of Vasey's work.

How do you separate Greene & Pringle's Oregon. Cupressus. that Jepson's Cupressus chistoed? To me they both seem too near C. Guadalupensis. that we saw in Oakland Garden. but without point.

You don't speak the list of Murray (or Jeffrey) Shasta Sp. you say you do. Please do. name other you can spare. But enough for to day.

Hope you will all have a Merry Xmas. & happy & prosperous New Year.

and time to allow — Yours faithfully,

C. S. Sargent —

ARNOLD ARBORETUM, HARVARD UNIVERSITY,
DIRECTOR'S OFFICE,
Brookline, Mass., X mas 188 7

Dear Doctor

Rec Dec 29
Ans Jan 8

Christmas brings me your good letter, for which I thank you. I don't, among the specimens I have seen, distinguish two Cypress in the Clear Lake - California region. Nature saw plenty of the trees at California, and now declares them to be entirely different from the plant from the neighborhood of San Francisco. But who knows?

Thanks. although I hardly see yet my way to get you some Pinus Cypress. You have sent us the stage; along the other so we will wait, perhaps, until we have what Thurber and Jepson may send. Dear Sharp, Jepson and Thurber are at work for us. Mr Bystrom, Bryant, Bryant, Mr Mills, Mr Emerson, Cypress.

Sincerely yours
C. S. Sargent.

Have not book for Purple of
his plant. although there is
plenty of it in Neuquet, that
I will share with you some.
but I am inclined to join
with the new species - Argyra-
thus together. and really
I must separate them from
the Guadalupe plant in
any manner satisfactory to
myself.

Yr. I know of the silly
actions of the foolish Californian.

Jennie we know. and has
write. hopeless. assistance.
that nothing can ever overcome.
Jennie I had hoped better
things of. but he is getting
demoralized. — the climate I
suppose.

I have almost decided to join
Pumpelly in a survey of the
territory tributary to the Northern
Pacific RR. which ~~Hales~~ Villard
is instituting on a great scale.
They want me to take the
forests. timber supply &c. Pelgrim
will have fruits. and agricultural

resources. It is proposed to devote 10 years to the work and map the whole country from Lake Superior to Puget Sound, and from South of the Blue Lines to Alaska, on a scale of 4 inches to the mile. A tremendous undertaking

If I accept it will enable me to keep (if he consents) Dr Engelmann in the field. (and others) for a number of years, and to make my self (and you with me of course) as many trips as I can without to take these parts of the world.

I do [illegible] these, but rather than every to blame. Recall! I dont think I should refuse such an