Rec'd Jan 12th
Ans Feb 1

1866 according to McVaugh

Fort Whipple A.T.
Nov 26th "

Dr George Engelmann

Sir

please excuse the liberty I take in addressing you. You are no doubt aware that when Dr Bones returned from Arizona to the States he brough a collection of plants the joint property of us boath I have not herd from him since, ~~he has not fulfilled the agreement between us~~ If you have not I wish you would not publish any report of the same untill my arrival in the states which will be as early next season as I can finish my travels in this Territory, have two boxes of plants & seeds &c &c. which I will forward to you as soon as a good opperturnity offer. will if found safe on arrival at Sonora visit lower California so I wish all the plants dis-cribed together have the seeds thrived with you, the seeds and plants which I will this time send you may only be numbered as I will have no time to send the notes if the numbers are preserved with them you can have the notes when I come. A long continued fever has injured my health so much that I have been compelled to leave my station and travel for my recovery as I will make the best collection possible hope you will cultivate the seeds as I

think they will be found good. The Indians are so bad here that it is very hazardous to go any where without a strong force

Will you please inform me of the number of your residence so I can find you on arrival at Saint Louis. By directing to Fort Whipple the letter will be forwarded

Prof Baird informed me the plants where sent to you

Very Respectfully
Your Ob Serv
Edward Palmer
Act Ass. Surg U. S. A.

P. S. In overhauling the seeds if any insects are found preserve them with the number or mark of the wrapper. If any of the seeds prove and prove new preserve a bloom for a drawing.

Edward Palmer
Act. Ass. Surg U. S. Army
Fort Whipple
Arizona Territory

Engelmann

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GEORGE ENGELMANN PAPERS

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Rec'd March 20th
Ans June 27

Camp Grant A.T.
February 15th 1867

Dr Coyleman.

I is having a few packages of seeds which I send you for planting the pods and a seed please preserve as I will collect blooms of them this summer

One package called (Chia) by the Mexicans grows abundantly among the foot hills it is very useful as it answers every purpose of flax seed and slippery elm it is much used steeped in water and sweetened for Disentery it makes a fine cooling drink for summer especially for travellers it being very nutricious

Very Resp

Edward Palmer
Act ass. Surg U.S.A.

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Rec^d May 25th
Ans June 27

Lecanite bugs
Cactus

Camp Grant A. T.
Apr 28th 1867

Dr G Engelmann

Dear Sir

Your welcomed letter of Febuary came to hand to day and in reply allow me to say the action you have taken with regards to the plants meets my approbation Am sorry the cactus did not live many packages of seeds sent where numbered to correspond with those attached to dried specimens of parent plants sent thinking that after examining and preserving some with the plant if you thought best the rest could be planted

last summer collected two boxes of plants, and seeds the seed with numbers corresponding to the plants they where left at Fort Whipple to be forwarded to you but cannot here any thing from that post as to there departure will during this season collect all the cacti possible of every kind with bloom seed and live plants to the first one opens a few days since, every thing will be done that can be by one labouring under the disadvantages a collector does here as the Indians are in open war and no one

MISSOURI BOTANICAL GARDEN
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can travel out of sight of the post without a strong guard this being now a four company post have a good deal to do and to morrow leave in company with three companies after the Indians into a very rough and allmost unknown country. anticipating many specimens on my return will try and visit Tucson as between here and that place is a fine cactii country I have already thought of visiting Lower California and will do so if I can and return to the states by way of California, I left Fort Whipple in a great hurry had not time to make a copy of the notes belonging to the two boxes of plants mentioned above the book is at that post or would make it here being numbered will serve to indentify the seeds with the parent plants. be assured wile do all I can for science. what has become of professor Baird as I cannot here from him direct to this post I will on my arrival be able to inform you relating to the cactii sent in the boxes you have already received

Yours Truly
Edward Palmer
Act Afs. Surg U. S. A.

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Washington D. C.
Dec 25th 1867

Sir

Allow me the pleasure of presenting to you a walking cane which is to day forwarded by express, it was cut from a live Cereus Gigantus which grows abundantly over South them Arizona & Sonora, is very stony and Susceptible of a fine polish.

You will pobibly remember receiving from the Smithsonion Institute a box of plants collected by me in Colorado Territory from the base of Longs Peak accross the summit through Middle and South Park to the base of the Mountains in 1860 but they where lost while enroute to Washington but three years after turned up - Allso from Colorado a Quantity of seeds was sent, did any grow,

In 1864 while enroute from Fort Lyon to Fort Scott Kansas and thence to Fort Gibson Cherokee Nation I collected packages of plants which was forwarded to the Smithsonion with the request they be forwarded to you

Will you have the kindness to examine them and eithe publish the result forwarding a copy to the Smithsonion

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for me or let the Smithsonian publish it
you would oblige me by examining them at
your earliest convenience leaving to your
dis-cretion the publishing of the result.

Very Respectfully
Your Ob Serv
Edward Palmer M.D.

Asia Gray M.D.

MISSOURI BOTANICAL GARDEN
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Mexico Sept 5th
Cuernavaca

Dear Sir,
My pay by this is
this is ~~[illegible]~~ right
I shall then
see, if Dr. Palmer
wants I in Zacatecas
I remain I have
the Mitlla & Mexico
Sartorius to Mexico
I remain Your Obedient
Ad Serv Alfredo Dugès
Start another Lecture
4 cents, - Orphan
a cent of his
heads, Microcephalus
Osphrid to have it
now, I am
Yours and 18
Cuernavaca Sept
Sept 5th
Alfredo Dugès

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Rec'd March 18th
Ans 29

DEPARTMENT OF AGRICULTURE

Washington, D.C. March 12 1870

Dr George Engelmann
St Louis Mo

Dear Sir:

By the accompanying mail I send a parcel of seeds from the recent collections of Dr E. Palmer in Arizona, and Sonora Mexico.

Please report on the results of your examinations, and how they succeed in cultivation

Respectfully Your
Horace Capron
Commissioner

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Rec'd May 14
Ans 23

DEPARTMENT OF AGRICULTURE

Washington, D.C. May 10th 1870

Dr Engelman

My Dear Sir

For some time have hoped to see you this spring but I find circumstances will compell me to go another way on my new trip but on my return will try and see you had intended to settle down but my recent loss of nearly all my collections made during the last ten months compells me to try and replace the lost materials so expect in a few days to leave for Utah thence to Fort Mojave on the Colorado River and then for the Sanfrancisco & Bill Williams as circumstances

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may offer in fact my dependence for success is based upon assistance which I expect to obtain from the inhabitants and Military of the Country which is at best uncertain — funds are limited so do not expect great things

You will remember the several varieties of grapes collected at Camp Lincon Arizona you told me you had raised some if they should fruit and are interesting it would be well to preserve a part of the plant and a bunch of fruit in alcohol for a drawing as I wish to report upon my collections if you could have an especial eye on all which you may have grown from my collection and preserve the new and interesting matter for the report which ~~the~~ will be made on my return — could you overhaul all my dried collections in your hands Yours Truly Edward Palmer M.D.

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Ans May 23

Dear Dr

Your parcel not yet made up – I shall get despatch soon & do up in a hurry. I have my table loaded up with bundles, and more on the way – I shall go down to S. W Virginia next month, and get a survey of the high Alleganies –

Rawchelle sent the seed of Yucca filamentosa he can give you more material in regard to the Southern Yuccas

Palmer intends to get off next week and go direct to Salt Lake. thence by the Mormon settlements to the mouth of Virginia and to Ft Mojave & San Francisco. Mr Hayden goes next month to Washington Territory will not do much for Botany. I expect to leave for England in July – In haste Yours

A Gray

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Fort Yuma, Arizona
Aug 13th. 1870

Dr. G. Engelmann

Dear Sir

Sometime since yours of May 23 came to hand inclosed in one from Dr. C. C. Parry but was absent at the time thus the delay and in reply would say that I will call and see you on my return shall leave here in a boat probably in two days for Adair Bay will get what I can. from this place forward to the Department of Agriculture two boxes of live fresh cactus plants with a can of fruit of the Cereus Gigantia in Alcohol have already forwarded to the Department of Agriculture a number of ripe fruit dried in the shade with their seeds inside Am sure of their freshness made a trip of 75 miles on horse back especially for them at starting in the morning thermometer was 92 but between three and four in the afternoon it was 117 in the shade some people may question on this but let them come and live on the Colorado river and they will soon wish it was colder.

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expect this is my last trip

In Utah passed through vast stretches of the tree ~~Cactus~~ Yucca but not one was in bloom last year they bloomed but the Inhabitants said I was to early that I think was not so but will return though Utah to get the blossoms if any. but will get if possible several live plants

Cannot say what I shall find at Adair Bay, one of the principle things will be the celebrated Sonora Parasite - your thorny children will be remembered

Dr. Parry will send you sets

Will try and stay long enough at St Louis on my return to give you what information you may require as on my Return to Washington with to make out my Report to include all my collections. - much of the confusion about my cactus collections was owing to the numbers on living plants being lost thus the dried blossoms are numbered - but the number of the parent plant is lost. - It is hard to tell where a letter would find me so it would be useless to write to me

Very Respectfully
Your Ob Servant
Edward Palmer M.D.

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Rec'd Nov 19
Ans Dec 26

DEPARTMENT OF AGRICULTURE

Washington, D.C. Nov 16 1871

Dr G Engelman

Dear Sir

You will receive a letter from me in a few days regarding my plant collection.

I send you in this bottle some print of Cereus Gigantia the one sent dry has some fine spines on so may have one in the bottle Mr J. E. Johnson of St George Utah Territory who sends you so many cactus wishes to have some seeds and plants of the Guava fruit could you not get from Mr Shaws garden some seeds

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of the guava fruit and send to him and get them to strike some young plants that might be sent to Mr. Johnson in the spring the department has no guava plants or would not trouble you to get them Mr. Johnson wishes to try and grow the plants out doors the climate of Southern Utah will I think admit of it.

Very Respectfully
Edward Palmer M.D.
Smithsonian Institution.

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Rec'd Nov 22
Ans Dec 20

DEPARTMENT OF AGRICULTURE

Washington, D.C. Nov 14 1870

Dr. G. Engelmann

Dear Sir

Yesterday Dr. Parry and myself packed and forwarded to you a quantity of oaks in fruit collected by me. Many had the locality marked inside the boxes while those in paper where on marked they where collected near Fort Whipple in August 1869 but have neglected to mark the locality on the packages. Could you examine them at your earliest convenience and if you will return them named with instructions as to how the leaves may be softened so as to press and form them for the Herbarium one set of which shall be sent to you.

There is a quantity of more oaks in bloom that will be sent as soon as we get to them.

The unmarked opuntia sent by Dr. Parry from my collection and which you showed me is from St George Utah it has nice claret colored blooms some of which was collected. Soon hope to overhaul the Yuccas and cactus then

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you will hear from us.

Dr. Parry thinks it would be better if you would send to the Department all the collections made by me in your possession, except the yuccas and cactus, and those destributed in your detained or private collection. could you send a list of what ever you have in your private collection with what notes they may suggest — so they may be reported upon and the undestributed ones or duplicates you may have will you forward if in accordance with your wish for the use of the Department or to be returned to you if desire

Could you send all the specimens ~~of~~ of Grapes and their fruit which after being examined will be returned to you — as I wish to see them for some notes, have you any information to impart regarding them. ~~any~~ any information regarding my collection will be acceptable for the report, and placed to your credit.

My kind regards to Mrs. Engelmann

kind believe me to Remain

Your Ob Servant

Edward Palmer M.D.

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Ans Dec 15
Ans Dec 20

DEPARTMENT OF AGRICULTURE

Washington, D.C. Dec 12 1867-70

D. G. Engelmann

My Dear Sir

Am much occupied preparing an Article for the next Agricultural Report upon the various vegetable production used as Articles of food by the Indians As it is wished to have it illustrated by drawings of the most prominent articles, it occured to me that a fruit of the Datable yucca would do - could you not send me an accurate drawing of the fruit of the Yucca Baccata you have old and young fruit And if you could manufacture a picture out of them, you will much oblige by sending it as soon as you can to this Department

Could you also send me the number of different packages of grapes collected by me on the Virde River Arizona And was one small like the frost grape of the Northern woods - this information is wished in order to more accurately prepare an Article upon the grapes used by the Ancient And modern Indians. as food.

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My Sanfrancisco Pine was sent to you to day
My kind regards to Mr. Engelmann and
Believe me to Remain
Your ob Servant
Edward Palmer.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

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Washington Jan 16th 1871

Dear Doctor Engelmann

Your letter of Dec 20 would have been answered before but have been hard pressed Am much obliged to you for the Yucca drawing My things from St Thomas Utah have not arrived nor have those from Arizona as soon as they do will send you your specialities Dr Parry left here yesterday for New York and will go to Sandomingo with the Commissioners on behalf of the Agricultural Department and will be absent some time.

Have not made up my mind what I shall next do if I go out again will try and go to the cactus regions of Arizona and Sonora as it will afford as much new or interesting matter as any place As soon as it is determined will acquaint you that you may furnish me with what memoranda you may deem necessary in order to collect your specialities.

Dr I will not trouble you to send the leaf specimens of grapes as your discriptions will answer my present purpose If you have any friend that would like to plant the grape seed so as to fruit them you might let them try or if you think the Department of Agriculture could best make the experiment you may send them to me some future day may wish some of the grapes in order to test the size but would say if there is but few grapes and in takeing the seeds if the grapes are spoiled for use should you think they might be wanted for any purpose would not spoil them if you have sufficient and think best you might send some seeds to plant

It is very strange from Arizona I sent to the Department in August last a quantity of nice dried fruit of the Cereus gigantens the fruit was perfectly ripe when dried and I sent it at once by mail in order that they might be distributed while fresh they came safely and some was sent to Hooker but the rest is not to be found in the Department Dr Parry was absent when it came what was done with the seeds is a mistery A number of dried perfectly ripe fruit of Cereus Thottii was sent with the live specimens one of which you have but they are not to be had it is vexatious after taking all the trouble I did to get them and

after their

arrivel in Washington to have them disappear so completely is poor encouragement.

As to the oaks Doctor could you find time to work them up when the days get longer you would much oblige me

Am very sorry Dr. Bones should act so unjustly as he only collected a few small specimens while the collection was allmost entirely my collection but as he was going to Washington from Arizona agreed to share the credit with him on condition that he would see the collection worked up but as he has so acted depriving me of any credit will say no more about it, it is not your fault Doctor. And you are not to blame.

but you remember the collection made by me at Camp Grant Southern Arizona and sent to you by me Dr. Bones had nothin to do with that collection as he had long before left Arizona the two collection may have become confounded One thing I wished that is have you any undetermined grasses in the Camp Grant collection as Dr Parry has written to Boulander asking him to work up the grasses of my collections in the Agricultural Department it occurred to me if you had any undetermined grasses collected by me they might be sent here to be forwarded with the rest and should you desire they can be returned to you after being examined, you may however wish to work up what you have yourself.

The suggestion is made with the best feeling

My kind regards to Mrs Engelmann, and best wishes to yourself

Your Ob Servant
Edward Palmer M.D.
Smithsonian Institution
or the Department of Agriculture

Dr George Engelmann
St Louis
Mo.

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Washington city
Jan 17 1871

Dr. George Engelmann

My Dear Sir

some time since by request of Doctor Parry wrote to Mr. Bloomer of San francis California regarding Photograph of Yucca bicata which bloomed in that city and was photographed he says that Dr. Trask made the photograph and Mr. Bloom says he has a number of dried specimens of bloom of the same plant in the Herbarium of the Academy of Science Should you wish the use of them if they have not duplicates by writin to Bolander he would procure them for you he would get the Photograph for you also have no doubt as he is acquainted with Dr. Trask.

My kind regards to Mrs Englemann

Yours Truly

Edward Palmer M.D.
Smithsonian Institution

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Rec' Feb-11

DEPARTMENT OF AGRICULTURE

Washington, D.C. Feb 6th 1871

Dr. Engelmann

Dear Sir

Your letter came this morning with the grape seeds part of which will be planted here and the others will be sent to a warmer place for trial.

I send you some leaves of yucca of the large variety collected last summer and of which we talked of and of which Dr. Parry sent blooms lately

Edward Palmer M.D.

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Recd March 1st

DEPARTMENT OF AGRICULTURE

Washington, D.C. Feb 23 1871

D. G. Engelman
300, 3 Locust St.
St Louis.

Dear Sir

The other day in a damp out of the way corner in an out building attatched to the Green house of the Department was found the seeds of the Cereus Gigantens they where much injured some of the best have been planted and the balence of the good have been sent to you and Dr Gray hope you will be able to grow them and that they are as fresh as you wish them for distribution in Europe. several nice healthy plants of the Yellow Yucca of St George are up if your seeds do not grow you must have some plants from here

Mrs Parry received a letter from the Doctor this day he will leave San domingo two weeks after the date of her letter, it is considered useless to write to the Commission as there is only one mail per month and befor letters would reach them they would either be on their way home or at some part of

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Sandomingo out of the reach of the mail on its arrivel, your note to Dr Parry was handed in to be forwarded but it may not reach him

I have been appointed Agent for the Pimo and Maricopa Indians of Arizona as soon as instructions are ready will start for Arizona.

Should you have any suggestions to make regarding your specialities please forward them so that I will get them before my departure

My Regards to Mrs Engelmann

Believe me to

Remain your ob Servant

Edward Palmer M.D.

P.S. the specimens you spoke of will be attended to before I leave. The Department has me nice large plant of Cereus Gigantus doing wel – the offshoots that I sent last year have all been distributed but I will try and send you a live plant next summer. The paper have been planted that is part of them and the other half have been sent to Mr Johnson of St. George.

E. Palmer.

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Rec'd March 21st
Ans March 25th

DEPARTMENT OF AGRICULTURE

Washington, D.C. March 14th 1871

Dr. Engelman

Dear Sir

I sent yellow Agava in the
of yellow yucca, it was collected
in St. George Utah
The leaves of the yucca last sent
from Sacramento valley Arizona belong to
the ~~Agavaceae~~ yucca flowers sent
to you by Dr. Parry just before he
left, he sent some notes with
them. And you may remember
writing some notes from my infor
mation when at your house there
is more leaves and a chunk of wood

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Mar 14 '71

which can be sent when the Doctor Returns there are plenty of more flowering specimens the flowering stem is scarcely above the leaves.

Your letter to Dr. Parry was sent to him - he is expected soon Am not certain how soon I will leave. All the oaks Trees & will be sent as soon as the Doctor returns, no more seeds of Cactus has turned up - of the Yucca last sent you, have the complete top of one it bein old the leaves are shorter than the leaves of younger plants the flowering specimens sent was

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was marked with locality,
so that whatever yucca flower
are make Sacramento valley
belong to the large broad leaf
yucca I sent you last.

Very Respectfully
Your Ob Servant
Edward Palmer M.D.

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Recd March 30

Washington
March 27th 1871

Dr G. Engelmann

Dear Sir

It affords me pleasure to answer any enquiries you may do me the honor to make As to the yucca of Sacramento valley you are correct I intended to say that the long and short leaves that are broad with rough edges and bark are the same the longer and broader leaves are from a young plant while the short ones are from an old plant about to decay the upper part with its green leaves was cut off as a specimen as it gave the character of the plant at the same time was easier of transportation than a large younger part a section of the wood was cut off now as soon as the Dr Parry return the section of wood and the top of the plant shall be sent to you the flowers marked Hardyville are from Sacramento valley are from this species am positive and are not yucca Biccata at all as that does not grow there but this plant is between five and six feet high as I could but just reach the flowering stem which

was but a very little above the leaves having a number of latterals with its numerous blooms form a short compact white mass

The Hardyville flowers are from the large rough leaved species of the Sacramento valley the leaves had not arrived at the time they were sent this plant looks like a dwarf forest over the valley

The small species from St George Utah is not angustifolia I think it grows abundantly is small its leaves are used to tie up grape vines the flowering stem is several inches above the leaves has a number of latterals the flowers are small and the leaves narrow and short the leaves sent you are of a very young plant thought they would do to accompany the specimen and that old leaves could be got from Mr Johnson if you would write Mr Johnson and say you would like leaves of the short narrow leaved Yucca used to tie up grape vines by himself he would sent you some

The narrow leaved species of Sacramento valley I saw but few plants they grow close to the ground with out stump above ground leaves rather close together upright with a stiff appearance

Mar 27 '71

The yucca Bicata is from St George utah

Dr Parry is expected back to morrow as to day they are expected to land at Charles town South Carolina

Yours Respectfully
Edward Palmer M.D.

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Washington City D. C.
June 16th 1871

Dr. Geo Engelmann

My Dear Sir

A few days since found that I had been cheated out of my expected Appointment as Indian Agent. And now I change my occupation, as to night leave for Woods Hole to assist Prof Baird in his labours as Commissioner of Fish and Fisheries will be absent all summer, my address will be at the Smithsonian Institution

On the return of Dr Parry from San Domingo he had so much to do that he was not able to attend to the requirements of several of your last letters but on my return we will read over the letters and send what is wanted

In one of your letters you spoke about a thin man

June 16 '71

row leafed Yucca from Union pass Arizona did not find aney in bloom it grows close to the ground the leaves sent are an average

The other Yucca with large leave you said was bicatta you may be right the blossoms sent marked Union Pass are from that plant and the reason why I thought it was not Bicatta was because in Utah New Mexico and every place else in Arizona except Union Pass Bicatta is a very dwarf plant but at this place it was so tall that had to get a stick to bend the flowering stem down with before the flowers could be got the flowering stem is scarcely above the leaves. the plant is more generally a single stem some times has one or more side branches, hope your garder is doing fine did the last Cactus. sent you from St Thomas grow do you know what it is, Hope your self and Mrs Engelmann are well, with my best wishes

Remain &c Edward Palmer M.D.

1876

Recd Dec 25 1871
Ans — 27

Washington City
Dec 19th

Dr. George Engelmann

My Dear Sir

I returned from Woods Hole Mass. some time since but owing to a multiplicity of causes have not written you my will was good – Am now putting in order the Alcoholic collection of the Smithsonian which is very large.

Am sorry Dr. Parry has left what will be done with regard to appointing his successor is not known. As a good deal of my collection of plants remain unworked up will you please inform me if you would like any part to assist you in working up any thing you are now at work upon if so please inform me and I will endeavour

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Dec 19

to procure it from the Department as soon as possible.

Paid a visit to Dr. Gray his garden and Green houses are very nice you remember the flowering end of the Cactus Shottii from ~~Lower~~ Lower California collected by me it is growing nicely and its long slender spines are all on and as tight as ever is a great contrast to the non flowering part which has but a few short spines both parts are growing several cactus sent to the Department by me have died from neglect why, cannot say, but little care is bestowed upon cactus at the Department.

Hope you and Mrs Engelmann are in good health, allow me to wish you a merry Christmas and happy new year

Edward Palmer M.D.
Smithsonian Institution

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Rec'd April 16 1872

Washington
April 11th

My dear Dr Engelmann

Your letter dated Dec 27th 1871 would long since have been answered but every day expected to be able to ascertain the information you wanted but not untill to day could I ascertain any thing definitely what could be done with the Herbarium in the Agricultural department. the new botanist wished me to ascertain if you wanted only the Mistletoes collected by me or all in the

MISSOURI BOTANICAL GARDEN
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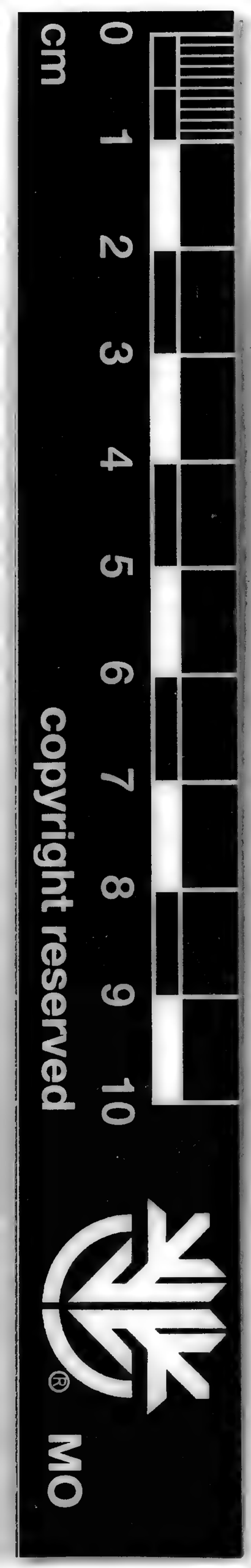

Gentlemen

I have the pleasure to
acquaint you that
my business
has been so
much increased
in consequence
of your
having
taken
the
agency
for
the
sale
of
my
Patent
Medicines
in
your
vicinity
that
I am
induced
to
request
you
to
procure
another
supply
of
the
same
as
soon
as
possible

April 11

Department Herbarium

Do you want any other plants to finish up any thing commenced Let me know what you want and it shall be attended to at once

The Information you wanted regarding the Agaves will be furnished as soon as the New Botanist and my self have time to go over the Agaves in the Department by the time your answer to this is received. My kind regards to Mrs Engelmann

Yours
Edward Palmer.
Smithsonian Institution

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Rec'd Jan 6
Ans Jan 11

SMITHSONIAN INSTITUTION,

WASHINGTON, Jan 1st 1873

My Dear Dr. Engelmann.

Your last letter to me was misdirid and not found until the other day. You wished some information regarding a species of Agave from me november 1872 I went over to the Department of Agriculture and looked over their Agaves that was assorted together but none resembling it could be found could not see all as much of the Herbarium had been removed to a new room and not arranged. Your letter getting misdaid, and was my self, absent all summer was the cause of my not fully answering your letter before. And on my return found all the Department Agaves had been sent to You in reviewing your letter am sure that the Agave flowers collected June 6th near Date creek Arizona (are of the same species as that species collected by me at Wickenburg the places are near each other and the plants grows all over the hills the reason no more flowers was obtained was because

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Jan 1 '43

no more could be obtained as the plants had ceased blooming I was going in an ambulance to California at the time so could not get plants or flowering stem being crowded with people and baggage — the flowers was placed in a memorandum book — My second visit to that spot was not in season for flowers but procured plants at Wickenburg and I think seeds you may rest assured that the flowers collected at Date creek and the plants from Wickenburg are the same. In looking at the two flowers which you sent (and which are returned) My recollection is that they must be from St George if collected in 1870 Dr Parry sent you at two different times specimens of a Nitrophendis and I think a small species of Yucca from St George it may be possible that they might have been collected before but not sent to you untill 1870 but rather think not as I do not remember collecting Agaves only at St George in 1870 — The Agave first collected by me has a very wide range extending in fact all over Southern Arizona. As the Agricultural

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Rec Jan 6 1873

Department has sent its leaves to you it may help to clear up the mistery — as you may find more of those send to you by Parry and if they are on the original paper the locality — and date will be marked. some of my specimens had the scout or trip marked (Journey) on the paper during which the specimen was collected. Any information in my power will be given you — Original papers with the inscriptions if I could see them might recall fact to my mind.

All the mistletoes of mine have been sent you am sorry there was no more as Arizona abounds with them I think they are marked with Locality and date if not and you will inform me what is deficient will try and replace it.

Dr Vasey has sent you many specimens with the hope that you will have time to work them up in the future.

You will be surprized am sure to learn that the new Cactus Johnsonii is dead they have let the greater part of my collection rot only two of Leboriginum and three of the new one named after me remain have you both species do you know if they were sent to Hooker — have asked that one each be sent him but doubt if it will be done — you will remember berens Schottii collected in Lower California one of the non flowering parts was sent to you the non flowering end has not made any new wood but the flowering end has commenced to

make a new growth I will watch it so as to see if it produces the long white pendent shines of the flowering end or the short black ones of the non flowering parts the old white pendent shines remain as firm as when the part was removed from the parent plant not a shine has fallen off I will keep you posted regarding it

Am disgusted with the management at the Agricultural Department Green houses a cactus receives the same drainage, soil and water as a swamp plant or one from the humid tropics

Hope your health is good

Did the Johnsonii collected by me in Arizona live — Have you all the Agaves and Yuccas growing the seed of which was collected by me.

Please present my regards to Mrs Engelmann

Very Truly Yours

E. Palmer

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specimen was collected in Arizona. As the agricultural

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Rec'd Febr 4th

Washington City
Jan 30th 1873

My Dear Dr. Engelmann

I should have written to you before but waited untill I could go over to the Agricultural Department.

At last they have removed the cactus to a new and dryer place in the greenhouse and they will soon improve its to be hoped E. Schottii is growing both the flowering and non flowering ends are throwing out young shoots, the spines are (the young ones) like the non flowering part of the plant — the long white spines still adhere to the flowering part.

No 4 Grows on pines in thick clumps, high localities it was seen but a few times and near Fort Defiance New Mexico, Middle of June — 1869

No 2 — Dec 6th 1865 Rio Virde Arizona from high rocky recesses near the summit of a prominent peak (called Squaw peak) on maps (I call it Dagger peak after Dangaer the originator of ~~the~~ pictures because from this spot the country is seen for many miles. and it is the most prominent feature in the lone ranges of mountains which hem in the valley of the Rio Virde Arizona

I heard from Johnson not long since he had then just returned from a visit to Salt Lake city.

Many of my specimens was necessarily small as they was collected on journeys made on foot while in the field with soldiers after Indians placed between boards and folded in my blanket which was carried on my back often five or six days, not only what I collected but food - arms - ammunition - blanket - dressings, instruments, and necessary medicines had to be carried I weighed my pack several times and it averaged 45 lbs a good burden to be carried for several days over a very rough country on foot so could not collect as I would under better circumstances - no Animals was allowed to be taken. I am going to try and make an effort to return to Arizona.

Dr. Vasey and myself are on the best of terms and I think he stands well with the Department he is getting all his duplicates ready for distribution and arranging the entire collection in good order

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Jan. 30 '73

Catalogue ing it as he go along he has a big job before him. Should I make any more collections hope circumstances will enable me to get larger more complete and satisfactory specimens. The Agava question I have thought over and feel convinced that A. Palmeri – the leaf you have 11 inches long & 3 wide Southern Arizona and into Sonora 1869 and the one Aug 1871 through Dr. Parry (Wickenburg 80 miles north of the Gila I am of the opinion they are all one and the same species in fact the Agaves of Southern Arizona and contiguous portions of Sonora are the same A Parryi is from the northern portions of Arizona and New Mexico if it is not the same as that from Southern Arizona its very near, it is generally larger and longer in the leaf. The A. of Schotts collection must have a limited range and confined to mountain

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recesses near borders of Sonora as there some one else would have found it

I return the agave blooms feeling confident they belong to the Wickenburg and Southern Arizona species as I have before said there is but one species in Southern Arizona that has a wide range

My regards to Mrs Engelmann and believe me to be

Your ob Servant

Edward Palmer

Smithsonian Institution

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Rec'd April 20 1876
Ans May 1st

Care of Goldwater & Co

Ehrenberg Arizona Terr
March 31

Dr. George Engelmann

Dear Sir

Echinocereus Wislizeni

I send you by mail a plant of cactus and in another box the fruit and seed of the same species of cactus, Previous to the advent of whites the Mojave Indians of Arizona used the spines of this cactus for fish hooks - I got an old Indian to make me some he first placed the fresh spines in water for a short time, then wrapping his thumb and the contiguous finger with rags these was protected from the effects of the sharp points at the same time forming a condion against which the two ends of the spine rest. one being taken out of the water the Indian took a torch made of twisted rags the thickness of ones small finger this he lit and held to the spine which he continually moistened in his mouth and applied the gentle heat as he gradually pressed down

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Mar 31

the point to the desired curve ~~truly~~ by this simple process cactus spines are gently tempered so as to bend to a serviceable and strong fish hook

I expect to leave hear for Wickenburg the Cactus & Yucca Garden of Arizona will see what can be obtained in your line

Yours truly
Edward Palmer

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P.S. Told W. H. Hardy you would return what postage he paid on plants for you L. S.

Rec'd June 27 1886
Ans — /30 —

San Bernardino
June 15

Dr. Engelmann

Dear Sir

Your letter of may 1st reached Ehrenberg after I had left that place so slow are the mails of Arizona that the letter was sent after me from place to place and only reached this place a day or two before I returned. I would willingly have attended to your wishes expressed in the letter

Returning to this place from Arizona by coach passed the cactus you want on the Mojave River and on the Desert I saw them but none in bloom saw their fruit

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the wooley seedpods was numerous
coach being loaded with passengers
could not stop - fifteen miles
further and a station was come
to near I staid several days
collecting plants but could
not find any cactus it being
near the mountains, there was
no team to be had or would
have went back after the
cactus -

The coach did not pass on the
Road where Agave Newberryi is
to be found a gentleman told
me it was not in bloom - as
he would probably visit the
the locality of the plant while
in bloom have given him
your address and instructions
how to send you some fresh
flowers, and leaves by mail he
will comply with the request

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June 15

if possible thought it easiest for him to send fresh than go to trying to dry them and have spoilt specimens his address is W. H. Hardy at Hardyville Arizona if he send the specimens you can then arrange for him later in the season to send plants by mail - now would dry quick

The oak you speak of as from Larkens and Las Juantas is the finest for cultivation of all the Dwarf oaks it resembles the Holley its very green thorney leaves no old blossoms could be found - had hoped to have visited this locality earlier this year but could not do so and will wait untill some future time (spring) before going

to Lower California and around San Diego. will leave here for San Luis Obispo to collect in a few days.

The oaks was collected in July and August last year

The oak from San Francisco mountains was not in bloom nor could any fruit be found none of the oaks about Prescott Arizona was in bloom.

As soon as my injuries admitted took team and went over to the Mojave Desert and reached nearly the Cactus field when in consequence of pain and heat (110 in shade) had to return was quite exhausted on reaching the nearest house nearly all vegetation had dried up since my former visit, hope to have succeeded so as to get plants of each of those rare cactus very truly

Edward Palmer, San Luis Obispo, Cal.

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Rec'd Jun 30' 1876
Ans same day

San Bernardino
June 15

Dr. George Engelmann

Dear Sir

Just after posting my last letter Dr. Parry received a letter from you in which you asked two questions about the Yucca brevifolia — the fruit grows erect one is sent with stem on to show this fact — two more fruit perforated by insects and one is more mature than the others Prof Riley may like to open one to examine the insect larva inside they may hatch if the fruit is hung up in a muslin bag. A short time since Dr. Parry and myself was talk

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ing about evergreen oaks shedding their leaves he remarked you was anxious to get information upon that point. for fear he may not have communicated my observation upon that point would say that in Arizona as the dwarf and tree oaks put forth their young leaves the old ones put on a yellowish shade and fall off that is part of the old crop what appear to be the oldest leaves I noticed that when the new leaves was nearly grown there was yet some of the old one on - now can it be that these are the ones to fall the following year. with the oldest of new crop. very truly

Edward Palmer

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June 15th
Rec June 30 '76

P.S. forgot your second question is the fruit pulpy or dry on my last visit was to unwell to walk much, the old but one or two seen which pods seemed to be huskey, as you will observe the fruit are very fleshy now so much that it is scarcely possible it should all dry up any more than on the yucca baccata — Dr. Parry stay near longer and may get more mature fruit

Very truly
Edward Palmer

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P. S. Send to Dr. Vasey - fibers of Agave & Yuccas - with large sections of wood of same and wood of that new oak besides many other things.

San Francisco Cal

Rec Aug 18 1876

Aug 11

Dr. George Engelmann

Dear Sir

Yours of June 30 reached me on the way to this city I would say that that I never saw the fruit of Yucca brevifolia only in the condition sent - its color from the fruit I think would indicate a pale yellowish not white I do not know if it is eaten as there is no Indians living near it it does not seem to have much pulp - like Y. Baccata it is rather inclined to dry (all) seeds of Yuccas and Agaves are used as food by Indians after being reduced to flour - Yucca Baccata dry very easely in the

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climates of Southern California - Utah & Arizona Indians gather quantities and dry them for winter use they are very sweet but have a cathartic tendency - ~~have~~ its ~~a~~ pleasant taste is somewhat marred ~~but leave~~ by a slight bitterness left - There is not much shrinking in drying when fresh the fruit is much the form size and but little lighter in color to the ordinary yellow Bannana its pulp of the same consistency - in drying it assume a brownish hue

There is a gentleman going to the locality of that new oak 2. Palmeri have asked him to get a peice of mature wood blanches with cups and ripe fruit and to send the same to you think he will do so. the plant

Aug 11

has uniform thorney leaves
all over the plants young
and old branches alike
its Holley like character
attracted my attention - its to
late for flowers have asked
the gentle man to pay particular
attention as to the uniform
spiney charater of its leaves.
The Agave and oak papers
you may please retain for the
low present - I fear the gentle
man I spoke to about flowers
of R. Newberryi was not in
time to get them for you it
was W. H. Hardy Esq of
Hardyville Arizona - fearing
if you should write to him
d it might be to late for seed
t so I have written to him
to day to get you seeds &
nt plants and forward the

same to you, if you wish
to ask him any questions about
the plant he will answer them
as he is a good observer and knows
the plant he goes to Peacock
Springs he has cattle near
there and spoke to me of the
plant. Hardyville is on
the Colorado River Arizona
this gentle man is constantly going
from one place to another over
Arizona

I presume Parry has told you
of our plans — shall go with
Parry to Davenport to work up my plants
have sent cactus and agava from
Arizona to Agricultural Department
should you go to Philadelphia could
you not call at Washington

Very truly, E. Palmer

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Rec'd March 7 1877
Ans — 14 x5

St George Utah
Feb 25

Dr. G. Engelman

I have not gathered the locality as that seems to have as it would cost two days time and so I think it better to wait untill it flowers then will be able to get plants to pay for trouble

The fruit of the common opuntia of this section was all gone the birds had eaten the fruit nothing left but the empty husk inside gone notewor a seed to be found.

I send you a package of juniper with flowers and unripe fruit on the same specimens thinking you

Feb 25

Might not have before been supposed, the Juniper from this section in that condition it may also be to compare with the flowering specimens of the Juniper from Prescott Arizona sent you last winter.

The specimens sent to day was collected on the 13th of February.

It is delightfully pleasant here — but little rain has fallen for several months — it is wanted and unless rain come soon spring my plant collecting will be very meager in this section. I can only take what comes and make the best out of it

Yours truly
Edward Palmer

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Apr May 4th 1877

St George Utah
Apr 25

Dr George Engelmann

My dear Sir

I have just returned from my visit to the Muddy. 100 or more miles South of this place am up to my eyes in work it is past midnight so cannot write much found some good plants among them your long desired Cactus with wooly seed pods you wanted me to get on the Mojave River last summer I found it abundant 55 miles South of St George (Start in two days South East of this place is an unfrequented place) send you to day by mail ~~to day~~ 1 cigar box containing fresh flowers of that new Cactus Johnsonii marked on

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Box (no 1) attached to one of the flowers they are in a layer by themselves

(no 2) is the flower green ish yellow of the Opuntia you wanted

(no 3) flowers of the long white spine Opuntia

1 Tin Can marked on the outside (no 4) contains an offshoot from an old plant of the wooden podded Cactus you wanted no young one with root found they grow a number on one stem 2 to 12 have a nice bunch that will not weigh much as soon as have time will send it by Rail Road as freight to you you will then see its character I will send some plants to Cambridge

1 Cigar box containing peices of Opuntia corresponding to flowers marked (no 2) and with that number outside

1 Cigar box marked (no 3) plant corresponding to flowers no 3

1 Tin can small plants new cactus Johnsonii with peice of old plant to correspond to flowers marked

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Ap. 25

I put up another can
one tin can containing the
woolly seed pods of the plant
the off-shoot (no 4) was taken
from. In the same can will
be found some dried seed
pods of the Agave Parvifolia
that hung on all winter they
may contain some seeds
you will see how much pulp
they might contain by steaping
one a little time in warm
water as it would soften
and give the character when
ripe
Hoping these may reach
you safely and in good
order Remain yours
Edward Palmer

P. S. have two nice plants of
Cactus Johnsonii for you which
will send with the other cactus when
I can get time E. P.

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Rec 14 May 1877
Ans same day

St George May 5

My dear Dr. Engelmann

Returned yesterday from a very hard trip among the broken mountains 75 miles little E of S from St George and not far from the Colorado River and to day ship the following by mail to your address from the localities one box containing branches of a very peculiar juniper growing and looking like a pruned monterey cypress branches growing close in giving the tree a solid look it gradually tapers from the bottom to the top around the branches at the base six feet but at top say 15 feet is but a single twig it has a much brighter green with more white about it than the surrounding juniper californica

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but few trees was met another
cemetrical form readil led
you to detect the difference
from the J. californica which
is a rough ugly tree with a
very irregular shape even in
the young ones, in the same box
will be found some loose seeds
they are not ripe thought
you might like them the
white coat was rubed off
in packing then in a loose box
there was but few seeds
The long peice of wood sent
is taken from one of the largest
limbs would have sent peice
of trunk but forgot to take axe
Trunks three times the size
of this peice. a few inches
from the ground the tree
~~[illegible]~~ sends out several stems
which themselves give out laterals

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May 5th

which forms the trees shape
is peculiar, later the leaders
decreasing in neighbor as the shape
approaches until only one forms the
apex of a single stem or twig
a short piece of wood will
see form. this was sent as
Juniper Californica but have
detected two kinds among this
juniper so lay this preide aside
as soon as I go to the woods again
will look into the matter and
send specimens of wood for com
parison (Arizona juniper not
among them). you will find
two bundles of the young
plants of that species like
the two sent to Cambridge
by me last winter young
stems in abundance the
young plants from poor dry places
look different from plants in
good soil with moisture have
a large plant for you which

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will be forwarded to you in box with bacteus & photos of in previous letter.

The plant, of average size at the time of blooming is sent it is to represent that part which the Indians roast and eat only they cut the leaves a little closer to the heart and bake it is very sweet & relished even by white men just as the plant shows signs that it will bloom it is cut & roast as then it is best — this weighed 3 lbs ounces The flowering stem is sent along in sections to give you some idea of it and to show the gradation of spines from the plant to the apex of this stem — none was further advanced Indians roast this in hot ashes and esteem it highly. A box of earth is sent to show what kind the plants grow in.

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May 5th

A Can of old Capsulis and two pods with seeds in piece of paper (will try and make another later trip for blossoms, In old and past growing plants spines are further apart on the leaf which is wider while the spine at end of leaf is much longer. Send also box of Cactus fruit. These specimens was collected April 2nd 1871

Am contemplating two extended trips to isolated places before leaving here

Yours Truly
Edward Palmer
St George
Utah

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Rec'd May 29 1877
Ans June 13

St George Utah
May 22

My Dear Dr Engelmann

Just returned from a trip and find your letter of May 7 just visited Mountain Meadows 60 miles west of this place May 20 was caught in a severe snow storm just as going to camp in Mountain Meadows and soon three or more inches of snow covered mountains & valleys had to return with out doing much ice half inch killed many plants in bloom takes some, that Juniper sent by me to Dr Vasey was from near Prescott Arizona the same as in the picture I gave you and pointed out to you as the same peculiar barked juniper the

wood of which I sent to Jersey
branches of the same in bloom
was sent you by me last Winter
from Davenport. this Juniper is
not easily mistaken I took it to
be Jack Pine. (Fort Whipple
and Prescott are only one mile
apart and this Juniper is common
all about both places.

The two young plants sent you —
I am certain are Ech. Johnsoni, the
largest seen is a foot or more, will send
you a full size plant.

Did you get a box with ripe
fruit with section of cactus to
identify, the fruit was it same
as flowers marked (2)

I will get some plants of
no 3 and send you one.

Have got track of another
Opuntia not yet in bloom will
look after it it has not been
seen by me any where before.

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May 22

Hope again to visit you & then can tell more about its flowering the plant I will send you will no doubt bloom so you may see it, in June I will send it could not find ripe seed nor any sign of flowers Last year you wrote to me to look after Echeveria polyanoistus with 5 or 6 long slender spines several inches long strongly hooked in the center of each bunch Think I have got on track of this will look after it and send you grown plant.

Am watching that new Agave find it in two localities will visit them both so will be likely to get flowers will try and arrange to have all seeds sent you in case I am gone Am desirous to gather up the odds & ends in this section before leaving it as in all

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probability I shall never visit here again, it is not only so much trouble to get from place to place, but plants are so scattered there being such wide, barren sections between the fruitful places which render travel slow and costly. Have laid aside for a time my mound exploration in order to look after plants &c

Very truly yours
Edward Palmer

I shall send to Cambridge and to Asa Gray plants of the above mentioned Cactus and Agave and will try and send you the most characteristic plants
E. P.

Missouri Botanical Garden
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Rec'd Jan 5 1877
Ans — 13

St George Utah
May 27

My dear Dr

Just returned from my trip found only one plant of Agave Utahensis in bloom the stem 7 feet two inches sent you all of the flowering end Am satisfied there is but one species the larger growth we is owing to additional soil & moisture in fact I cannot see any differ ence but what is the result of local causes — soon expect to go to Mount Trumbull near the Colorado River will look after Agave Newberry
On visiting the locality of Ech poly cephalus this trip I examined another Ech which seemed to answer

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your description of Echinopsis ancistrus you wished me to look after in the Mojave River last summer there seemed much difference in spines have one of each variation which I will send you after everything is got together — the spines of the two plants sent yesterday differ with the spines with the flowers sent at the same time. Age may make changes in spines.

Echinocactus johnsonii the larger seen was 14 inches high will send you an average one.

Opuntia Whipplei have seen it 3 feet high, very bushy many short branches birds build there nests in — two feet is its average height — will look after skeletons you desire

Will send you more Juniper material belonging to the small

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May 27

Price of [illegible]

I will look after cactus this time as they will bloom later in this locality - on the Mundale trip I fear one species was overlooked

Now Doctor have looked over your two letters and have attempted to answer your questions if anything is omitted in bod, it with any further questions you may wish to ask

I have worked all day since 5 A.M. so am very tired

Yours truly

Edward Palmer

P.S. the cactus flowers sent was all could be found open -

Gk. [illegible] flowers?
Gk. [illegible] fruit?

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Rec'd June 13th 1877
Ans same day

St George Utah
June 4

Dear Dr Engelmann

Just returned from a trip, will start again on another Journey of 60 miles & to Moroni Trumbull in three days I send to day by mail a package of branches of Juniper belonging to that small peice of Juniper wood sent you a short time since with rough scaley bark the tree in height and size is that of Juniper Californica but it seem to be a little better shaped tree more compact & graceful its rough bark is certainly different from the long fiber

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Jun 4

ous bark of J. Californica in the same package is scalp of a small round cactus which you may have. in small tin box sent to day by mail will be found flowers of two species and the scalp of the cactus and Juniper was collected in a mountainous section 30 miles East of South of this place

very truly yours
Edward Palmer

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

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Rec June 23d 1877
Ans June 25

[illegible]

[illegible] v. 6
[illegible] it was
that they were pretty, very little
[illegible] but [illegible] which
[illegible] in this country in
[illegible] but
[illegible] Lake Collection
[illegible] along [illegible] railroad,
[illegible] that the
[illegible] River did
not meet that year however.
But [illegible] in
[illegible] without
[illegible] fresh No. 1 in fine
fresh [illegible]
No 2 dark [illegible] color. The
plants of these [illegible] that
[illegible] but the [illegible]

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June 15

I offer much in exchange for other plants and make planting in the office many days & work — with the plants of both for planting.

No 3 Seemish yellow all the blooms in the pound plant will be sent you it is a large image than the branching and growth the ground and rooting at head, every joint so that one plant spread out quite a distance — grows in rocky localities

will write again in sending the rest of the plants which will be soon

Yours truly
Edward Palmer

MISSOURI BOTANIC
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Rec July 2d St George Utah June 22

M Dear Sir

I sent by mail yesterday to your address several packages of plants — and to day ship two boxes of Cactus to you — I start to day for Red Creek in four days will reach that place then will write you fully regarding the plants sent by mail & by freight —

Very truly Edward Palmer

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POSTAL CARD.

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

U.S. POSTAGE ONE CENT

Dr George Engelmann
3003 Locust street
St Louis
Mo.

ST. LOUIS, MO. JUL 8 1 8 A.M. REGISTERED

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Rec'd July 12 1877
Ans — 21

Red Creek
or
Paragoonah Utah
July 4th

My Dear Dr

I left St George for this place with the intention of writing to you at once but a severe indisposition prevented am now better and thought it was a good way of celebrating the day by writing to you and other friends The old name of this place is Red Creek Have collected a few plants hear nothing in your line cactus are left behind and frost has killed oak flowers and fruit. shall stay hear for a few days to open an Indian mound will then go to the mountains northward at Beaver direct as usual to

To George my mail follow after me. Sent you four packages by mail one contained the wood of the greenish yellow colored flowered Opuntia, the fruit was not ripe as I left but have arranged for some to be sent you. one package contained dried specimens of oak, from Mount Trumbull 60 miles little South of East of St George - two contained small cactus that would not keep fresh sent as freight No 1 is the same as flowers sent you with the same, No. a beautiful flesh color, No 2 flowers previously sent of a fine rose color these are very fine for cultivation and profuse bloomers - No 3 yellow flowered sent with the above this leaf is to is to identify them and may prove this is all

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July 4th

the plants corresponding to flowers sent last & some you will see no ~~[illegible]~~ flowers was sent of as they was not found in bloom, I cannot say if the Juniper seed sent you last is sweet or not when ripe but think it may be as & all the Juniper seeds were that I have tasted are. I'll try and remember the oaks — I have twice visited the locality of that wooly fruited Echno cactus and find only the unripe fruit sent they must have been blighted while in bloom or bud as yet there was no sighns of of even buds but have brought to Mr. Johnsons garden large plants if they bloom he will send them to you

The Opuntia Whipplii have not yet found for you but will keep a look out.

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We hope the ~~four~~ two boxes sent will soon arrive safe and in good condition they was sent as freight charges paid to the Salt Lake Rail Road — some had no roots they wood be dead and now one have to be formed so send in this manner as the size seemed best to assure growth I would suggest to plant them in a gravely soil in pots and place these in an exposed place in the ground the hotter the better with a slight shade for a day or two — moderate water as your rains is frequent they will root by winter then place them in a dry place to rest untill nesc spring as they must have rest — and only one period of growth if you try to push them to grow all the year they will perish a period of rest with dryness they must have if you think the large plant (wooley fruited) had better be seperated it may grow better the off shoot grew freely Yrs J. E. Johnson off garden.

Very truly E. Palmer

Rec July 20th 1877
Ans f 21

Paragoonah Utah
July 11

My dear Dr.

Heard to day that some cactus was growing 10 miles West of this place so hired team and went, secured a few flowers and just returned in time to get them in the mail but not in time to write this letter before the mail went out so the plants will be received first. there is not many plants this seem to be the northern limit of cactus the tallest was two feet very bushy many branching flowers as you see not very large greenish yellow or rather the green seem to predominate colors quite bright this plant is short of stature owing to the very cold winters near further South it is often four feet. I send by mail a peice from the

July 11

same cactus the flowers was taken. He had expected the two boxes of cactus was in your hands but to day received notice of their detention in Salt Lake freight office for want of Guarantee of the freight the party who agreed to go to Salt Lake and see them off neglected to do so they will be 16 days delayed have written to a gentleman in Salt Lake to see them off and for fear he was absent have written to another at York to arrange with the freight office of that place to become responsible that I will indemnify them against all losses and to see that the boxes are shipped at once. Hope you will get them in good condition

very truly
Edward Palmer

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Rec July 27th 1877

Beaver Utah July 20

My Dear Dr.

Just returned from my second trip to the high mountains near this place this finish my botanical collecting in Utah found no cactus — Pines an Abies have allmost no fruit — saw a few on Pinus monophylla or the Pine the Indians gather and eat seed of and one or two abies with a few on oaks no fruit frost killed blooms. I send you a news paper containing a notice of my work. Will leave head tomorrow for Spring Lake Villa Utah by wagon will be four days, hard hot and dry journey will locam-

me mounds in that place
hope to finish work in
Utah by last of August
after which have no defi-
nite plans formed have
written to Peabody Museum
to ascertain if it desire my
services longer at the same
time suggesting some work
in Southern California &
Arizona if my suggestions
is concurred in may be able
to fill up some Cactus, Oak
Juniper & Agave gaps
Should I go to San Diego
would it be best to ascertain
the information you spoke
of when I last saw you
about the Libiocedrus that
grow in the mountains
some miles from there also
that new oak you

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July 20

named after me

Please give me what information you can about preserving and forwarding acorns so as to preserve their vitality and how much of the plant is it necessary to send. Hope you will soon get the boxes of plants, they was simply addressed to you at St Louis. so look out for them

What has become of Parry have not heard from him for some time

Very truly yours
Edward Palmer
Spring Lake Villa
Utah County
Utah!

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Rec Aug 11 1877
Ans 15

Spring Lake Utah
August 5

My Dear Doctor

I hope before this that box has been received after being at so much time and trouble to get the plants it would be a pity to have them lost or dead on their arrivel I did every thing to insure their safe delivery - it is gratifying to know that the plants sent in mail are growing. That leaf, large, and spiney of which I said nothing was not found either in fruit or flower I saw it years ago near Fort Whipple Arizona and now South East of St George it is as you say an erect plant - rather tall and with a round and very spiney trunk it grows in crevices of isolated rocks does not seem common.

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As to the last Opuntia sent from 10 miles west of Paragonah I took it for O. Whipplei. I have plants of this species in [illegible] last Winter and as late as last of May they was yet on and turned yellow gathered some at that time ripe but they was accidentally lost as they was seen in several places full of fruit am of the opinion that they remain on all winter and is the reason why the fruit and flowers was sent within two months of each other South of St George have plants with buds and fruit on at the same time as to the solid wood of the species I noticed that and is the reason why it was sent but old dry parts of the plant branches lying about was hollow & fiberous the fruit of O. Whipplei and the common St George one as you remark are strangely different the latter very spiny while the former have none. The cactus wood sent before was the common St George Opuntia and the old wood sent was dead branch off the same plant sent to show any difference that existed.

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August 5

So I said in my former letter I have written to Lambridge to see if they wished to continue my services if they do not I cannot tell what will be my next move as nothing can be done without funds I should like to visit Cape St. Lattery and the Sand which I lands before returning East. Should Lambridge continue my services will go as directed. It has often occured to me that it would assist not only my self but Science generally if the appointment of Inspector of Indians on the Pacific coast was given me this would enable me to go to many places now out of my reach I could attend to the duties of the office and scientific matters at the same time as all Indians Agencies must be inspected and the West is best for exploration the office of Indian Inspector would

give a good opportunity to a collector. It is in the gift of the Secretary of the Interior

Did you receive a thin wooden box covered with rags containing a number of small cactus from St. George

After leaving this place which will be in a few days, will go to Salt Lake to open mounds near the city that will finish my work in Utah

I should like to meet Dr. Gray and Hooker when they visit Salt Lake could you visit Southern California and Arizona as far as Tucson then pass through Sonora to Guaymas on the Gulf of California then return by Panama you would be repaid as you would see the cactus, Agave, and Yucca country of the United States

very truly

direct Edward Palmer Salt Lake City

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Rec Aug 18 '877

Salt Lake Aug 13

Dear Dr. Engelmann
Arrived in this city this morning — find Gray and Hooker had gone on to the Pacific but met Prof Packard of the Grasshopper Commission on going to the R. R. Freight office found the plants sent long since from St George to you was detained because the freighter shipped them wrong We have paid the freight as near as the Agent knew if to much it will be sent to you if to little you will be called upon to pay the balance as they are cactus they may not have died so as not to grow

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Aug 13

if dead may do for Cabinet specimens

Hope to finish here in a few days if nothing else turns up and funds admit of it may go to Cape Flattery if I cannot do that and no word as to continueing at work for the Peabody Museum I shall return to Davenport Iowa and get Parry to help me with my dried plants. Have shipped three large boxes to him

Hope your health is good and that the plants are alive

Reid Gray & Hooker had quite an adventure they had a twelve mile walk over a new road and did not reach their journey end untill mid night they was quite worn out

Very truly
Edward Palmer

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Rec Sept 4 1877
Ans — 10

MISSOURI BOTANICAL GARDEN
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Davenport Iowa Sep 2

My Dear Dr. Engelmann

After finishing about Salt Lake returned to this place arrived yesterday Have you received the cactus yet My dried plants shipped to this place at the same time as yours was to you have not come to hand I fear they have been detained by the giving way of the bridge at Omaha we are desirous for them to come so the rare plants can be selected to show Sir John Richardson and Dr. Gray on their arrivel at this place Fanny will help me make them into sets so they can be sold at once As Fanny & myself are talking of going to Mexico this coming winter I am desirous of making a collection that is large and payable Mexico seem to be the place for that — The collections made in the Dry Canon sections though of importance limited that they will not pay the outlay many of the places visited this season

Sept 2

over more 80 miles apart and nothing to be obtained between the places because it is all desert waste and a team hired at per month the journey + I am desirous to try a more fertile country As Gray and Hooker have so well visited this place the Members of the Academy at this place are desirous of dedicating or rather laying the corner stone of their new Academy building at that time and have them take part in the ceremony. Gary has asked them to telegraph so everything may be ready on their arrival I spent the day at the Putnams Young J. Duncan Putnam is much better My mound explorations did not prove very productive of specimens but much valuable information was derived therefrom. The Questions you ask about Cactus had better be left for a short time as I may have to go to Lambridge if so will come by St Louis and can explain all points more satisfactorily should we go to Mexico will come your way as we have to go to New Orleans Then you will have the boss of (either dead or alive) cactus and all points can be settled at once — gave up the thought of trying for the superintendency of Woods & Forests in Utah as its a political office

Very truly Edward Palmer

Rec'd Oct 10th 1879

Davenport Iowa
Oct 8

My Dear Dr. Engelmann

Have finished my plants and start in a few minutes for Cambridge to arrange some business matters will then determine my next field of operation and thinking of Mexico if Parry would go along and money can be obtained. In your last you spoke of a set of plants Parry will write you about them & we selected a number of specimens that belong to your specialties which the Doctor will send you as to the Live plants I paid 10 $ Ten dollers

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Freight on them from St. George to St Louis for the expence of procureing them and the articles sent by mail allow any thing that you can afford and it will be satisfactory. You have asked in your last two letters many questions about Cactus &c sent you. I will look over your letters carefully on reaching Cambridge and answer your questions to the best of my ability. Then on going Westward and I pass by St Louis I may stopping an hour or two so as to look over the specimens with you, may be able to complete your information more satisfactorily I may stay several days at Boston & Cambridge

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Oct 8

Hope the frost will not have injured the garden at Lambridge.

Must close as the Carrs are ready to move

Very truly
Edward Palmer

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Rec Nov 5 1877
Ac Jan 3 to Mexico

Cambridge Mass
Oct 30

My Dear Dr. Engelmann

I was over to the Botanical Garden yesterday saw the Cactus a similar lot to those sent you they all seem healthy look as if they all intended to grow — In one of your letters last summer you asked the question if the Juniper berries of Southern Utah was sweet or not as I was writing to Sr George to day asked Mr C. E. Johnson to send you a pint of Juniper berries if they are ripe now so you could determine that point I also asked him to send you a live branch or two of that Cylindrical Cactus that you might and raise it if he find seed to send them also In your letter of Sep 10 you asked if that Ech polycephalus with 11 heads is the usual form it is many headed I did not find one with a single head and only one with two that was sent to Cambridge they grow about as large and tall again as yours. I notice the old ones are inclined to shed the old spine at base as some was bare an inch or more above ground I think the reason why I did not find ripe seed was the flowers of last year just as they opened was killed by some cause those I sent you

appeared so no other kind was found — those of the Botanical garden show no signs of blooming. I wonder if Johnsons bloomed in his garden at St George — he promised to send you the flowers if they did. (it grows near beaver dams

Echinocactus Wislizeni. the larger are much more elevated than the young I did not measure them but it seem fair to say they grow 3 feet or more and 16 inches diameter

Ech Johnsoni, long cylindrical the largest I saw is as large as they generally grow of course a stray one might be found larger — The Opuntia with numerous and slender spines, allmost hoary is the same as the purple flowers sent last summer you called Rutila (the large joint you designate under (no 6) was allso sent by mail and in a former letter you thought it was O chlorotica — it is rather tall, young very spiney trunk — long spines on leaves it has several branches forming big head Grows in crevices of rocks found 30 miles East of South of St George — but in Arizona I also saw the plant near Fort Whipple Arizona

The Opuntia you designate by (no 7) is the same as the flowers no 3 (and your no 8 is my flowers no 1

The last cactus sent by mail 10 miles west of Parasoonah and the wood sent at the same time was taken from the plant from which the flowers and branches sent was taken, I sent immature seed pods in May or April last they are identical, the fruit hang on the plants all winter not far from St George in June

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Rec Nov 5 Oct 30

I saw several plants full of fruit, greenish yellow at the same time the plants was full of flower buds ready to open — the seasons are much later at Bragoonah is the reason why the plant was found so much later in bloom. the old fruit fall off to give place to the new. I am sure the wood sent was taken from the very plant the flowers and branches sent was taken & Whipplei is easily distinguished by its smooth fruit and different spines on the plant from the St George species The solid wood and the old fall of meshes are I am sure the same the St George species part of the plant was dead the other living thus came the solid and decayed with meshes as sent to you (with the Whipplei I saw dead branches with meshes — One thing I ought to have observed if the dead bodies became full of meshes as well as the branches — one would think that if the branches was hollow and meshy the stem would be so also when decayed, I shall write to J. C. Johnson in a few days then I will ask him to ascertain that fact Any other information you may wish please write at your earliest convenience

about so I can inform you as Parry and my self are talking of going to Mexico if we can so arrange am expecting to have his final answer in a day. I may go as far as Vera Cruz in advance of him. And may not be able to call at St Louis if I should go from New York My collection this year turned out very well in new & rare species so says Dr Gray.

Yours truly

Edward Palmer
Peabody Museum
Cambridge
Mass

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

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Rec Dec 4th 1878

E. Palmer

Dear Sir I received the
seeds sent to me the last year
Albania that may be of interest
for you to see it take through the
winter roots they will grow
I hear the roots are out of
before planting have been
gathered from the mountains
found a large cones have
matured if dark - points a little
wet - the top half in shape
large seed. in form high heavy
more like Chios & Aleppo which
with many other pine & seeds
have been sent in three large
boxes to Chios & Aleppo

they may leave here today
by a trifle over land to visit
French Prairie in December I fear
the frost will kill them but
have had them packed that
needed to dent two trains left
before but could not take
them have done all I can do
in this locality one time
out. expect to leave here
in a day or two for the mountains
between this place and
Oregon will not be able
to finish before the middle
or latter part of December
then shall take steamer for
New Orleans via Panama
not Government if my

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Fennis holds me responsible for the Mr. Barnes of the place left me in letter he received from you some time since in which you expressed a wish for plants, as he cannot go to the mountains. I have taken into consideration your desires & obtained all the specimens possible. By mail to day I sent two plants but they will prove one a large very rare Aspic from many rocks in the Mountains of Nashby you will recognize it by all the leaves but the centre leaf off to reduce it for the mail besides it will not only root quicker but will bloom earlier than the two small ferns you by a previous mail sent you in exchange and

Little Dame Lynne - the little
Plant sent is Dethlingwilla Minor and
the other seed pod is the
Kafir with seed pod N. 5 the
Dethlingwilla Manor the flowers
of which are imported bee white
tinged with chocolate color the
plant is from 15 feet - Send
the entire seed pods of the only
plum seen this season of
Mr. W. Grindelmann hope you
are both in good health

Yours truly
Edw. F. Palmer

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

In the package is also a flower
of a large tree Yucca 21/5 in feet
high flower on the top namely side
branches you will see pride at ye
it measures five feet on the lower

E. P. Edw Palmer

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Rec April 2d
ans 6th

Saltillo Mexico March 21 1880

Dr George Engelmann

My Dear Sir

I arrived in this place yesterday and at once arranged to visit a mountain section containing pine & oak start in two days will be absent 8 days then visit another mountain locality for plants and trees finishing up my work at this place by spending some days among the magueys and cactus - after packing up and shipping collection will go to the section about Paras - Lagona and Balsa maps me the unknown sections to spend some time returning by way of mount Clover to spend some days then to Fort Clark Texas &c. Am desirous to carry out this plan as the Election for President comes off June 25 and there is likely to be a Revolution which would prevent me from traveling about thus a desirous of being as near the frontier as possible so can jump over. As you may be absent from home this summer make arrangements to receive the live plants I may send you by mail also those sent in boxes so the plants may be planted and care for

Before leaving Monterey visited the locality of that new Agave it is some miles from Monterey by mail I sent you 7 packages of plants. The Cactus was coming into Bloom those just blooming was sent by mail - small plants of the Agave Victoria and an Agave I never saw before was sent by

In Monterey I left a large box to be shipped at once directed Dr George Engelmann St Louis

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Mo. it will be shipped to Matamoras in care of A. M. Erhard a merchant who will ship it either to New Orleans or Galveston so you know which transportation company to see, that they may deliver the box to you as soon as it arrives in St Louis. the box contain a number of small cacti of flowering sizes including all the kinds found in Monterey excepting one or two sent by mail. One or two will be found in fruit. You will find in the box an eye opener (a fine large plant of Agave Victoria full size and showing it will bloom this summer it was deprived of its old leaves so as to pack it this will not prevent it growing so as to bloom + It has a flowering stem straight like that of Agave Utahensis 9 to 10 feet high one third of length containing flowers It blooms in the fall this plant will afford you an opertunity of making all the notes you may desire - no flowering plants to be found only old ones grows in dry gravelly elevated hills the plants had to be let down by ropes thus some spines and leaves was unavoidedly injured but only slight you will find seven plants of various sizes in the box also another plant like the other Agave sent by mail it has long elastic succulent leaves which cut like rubber it grows in crevices of rocks has very long smooth leaves should have sent you a larger plant but could not get it into the box several are sent to Cambridge so one can be got from there. it was not seen in bloom nor was any old stems seen

Mar. 21 '80

A cigar box could not be got into your box so sent it to Cambridge with instructions that it be forwarded to you at once on its arrivel. its contents was of too much importence to risk distruction by mail as it contained a paper of seeds of the Agave Victoria a number of capsules and old blooms besides a section of the flowering stem with capsules and old flowers as taken from the plant this is sent you as complete material as could be had and should the plant bloom satisfactorily you will have an opertunity to complete the notes of this important Agave and told it is used in the manufactiere of Mescall As it will arrive about the time your climate will admit of it being planted out doors would suggest that the large plant be put in a large pot or tub so that in case it flowers late in Summer it can be taken in without disturbing it so as to mature its flowers and seeds. its native soil is coarse gravelly. very much water had better not be given it for the first few days after planting it. increasing it as it takes root and throws up the flowering stem hoping these plants will grow to your satisfaction will say I may send more to you from this place should anything be found in your line, live or dead should you wish to write me

address me at Parras Estada Coahuila Mexico
as I will be there some time it will reach me
Hoping you are in good health remain
your obedient Servant
Edward Palmer

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

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Rec May 11
Ans ~ 12 to Parry

Letter of March 28 arrived here April 2nd
was answered to Parry April 6

Saltillo Mexico
Ap 19, 1880

Dr George Engelmann
My Dear Sir

I have to-day turned over for shipment to your address one box containing several species of Cactus and a native species of Agave from this section which I thought in all probability you had not previously received specimens of. Those that do not live had better be preserved so as to assist in forming the notes for the dried blossoms five or six species only have been found in bloom yet — three had done blooming — this is a nice as-

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tortment one kind no
young plants small enough
for packing could be found
to send offshoots which
will grow the have flowered
on top. Cannot write much
for a cactus thorn run into
my finger to the bone causing
me much pain it was with
much difficulty the box
could be packed and this letter
written. It is so very dry in
this section that there is but
few things in bloom untill
the rainey season which began
in July so have decided to go
to Parras* that section known
as the Laguna of rich fertile
soil the flora vest now as
during the rainey season it
is overflown with water
so you cannot get about.

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Ap 19 '80

Then I can return to this section which is surrounded by mountains which must afford a great variety of vegetation have looked up two places for pines & oaks pines in one locality prevented me from getting specimens while the oaks was not sufficiently in bloom for specimens and it was to expensive to either wait or return later as there was no other flowers to get. So later will go and get the pines specimens in the rainey season when there will be other plants I may also again visit Monterey there is pines near there returning by way of

Montclover there is said to be Pines oaks many cacti and Agave there, at Fort Clark near the Rio Grande in Texas an elevated locality will be my last collecting spot in October. then will return. It is exceedingly difficult to get about. as there is some probability of a revolution will not go beyond Parras as every one advise me not the plan adopted gives me an opportunity in case of danger to fall back for safety to a large city besides my funds will not allow of further extension ~~my funds~~

Hope you and Parry will have a good time in Oregon. and return with a good haul

Yours truly

Edward Palmer.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

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Saltillo Mexico July 3
1880

Dear Doctor Engelmann

Yours of June 10 to hand announcing the arrivel of the box of plants from this place. The reason for sending the large plants was because no smaller ones was to be found - as goats eat up the young ones - but I am now going to a section of mountains that I hope may have young plants and will send some by mail to bring. I thought the large ones might flower this season then would do for dried specimens. I will collect all the flowers & print to be found - That large agave may soon flower because it was obtained from a very dry place was some size but cut off the leaves to transport it as they had to be carried on back of mule several miles to Saltillo for packing and had come a

near maturity for flowering
I have some partly ripe pods
with flowers attached obtained
in the Laguna section no other
material attainable, on the coming
trip hope to obtain more & better
I am glad the material I sent
I have Pectoria Pepinae was suffi-
ciently complete to enable you to
describe it for publication.
I have received your former letters
it will give me pleasure to gather
all the information you desire
regarding that last U. S. Mex
to you

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

Pray and return. Yours
I then hope to see you about
October or November. There
four localities yet to visit
near, then towards home will
I am feeling very tired & Eagle has
not dry. Journey. Hope you may
will have a pleasant & profitable
time Yours E. Palmer

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Rec Jan 27
a — 25

Cambridge Mass. Jan 23 1881

My Dear Dr. Engelmann

I send by mail a tin can containing a cactus that died at the botanical garden, last summer I found two of this species and sent them by mail they are from the mountains of Saltillo of a pea green color covered over with numerous white specks like bark lice these show but little now the green has left.

In conversation with Mr. Watson regarding the Yucca from Sierra Nola of which you require information I must say in the herbarium the same species is not to be found And there are two species of which I remember all about either of which yours may be. It will be best to send your leaf then it will enable me to answer your enquiries about the Sierra Nola Yucca.

Very truly Yours
Edward Palmer.

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Ans Feb 19

Peabody Museum of American Archæology and Ethnology.

HARVARD UNIVERSITY.

F. W. PUTNAM,
Curator of the Museum,
LUCIEN CARR,
Assistant Curator.

Cambridge, Mass., Feb 15 1880.

Dr George Engelmann

My Dear Sir

Should have answered your letter before but have been indisposed the severe cold weather to which I am not accustomed effect me sensably. Am better to day many thanks for the post office order. My future operations are undetermined but am negociating with Prof Baird who is desirious that I should duplicate the collection for him which I have made for the.

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Peabody Museum I am thinking of inducing him to allow me to finish up some observations in Arizona and New Mexico then continue on to Chihuahua and Durango Baird will be able to tell what he can do after the fourth of March. In the state of Coahuila Mexico collected material complete of two Yuccas and two Agaves that may not be fully known or may be new. One Yucca Watson think is new. I fear it will be end of March before my plants are in sets.

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July 15. '81

That Yucca of the Sierra Nola was large with body several inches through with branches the old leaves hanging down like the thatch ~~form~~ of a building.

I have seen that tree form of Yucca which you found and I think sent block of stem to Agricultural Department every one call it Baccata it must be the same Kind that grow several feet high near the hills back of San Diego the common baccata has no ~~[illegible]~~ woodey ~~[illegible]~~ stem — In a mountain near Saltillo obtained a few specimens of coniferous trees — with the wood, scarcely a new coon was to be had but got few old ones

A fire had run over the mountain range a few

days before destroying fruit and leaves months after visited the spot but no fruit

While I am waiting untile my plants are ready for me to make them into sets, have concluded to complete as far as possible my collection of peices of historical buildings. In St Louis is the old Chouteau Stone building it was either a mill or trading post of Indians during the early days of St Louis do not know the street could you find out the locality and procure me a peice say 3 or 4 inches square of the stone it can be taken from some obscure part mark on it from what part of the building taken I think the building is now a Tavern. but

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Rec Feb 19 741581

am not certain a long time since saw a newspaper article stating it was still standing and as it is one of the old land marks it may be wel known

Would you inform me if the building is changed from the original form — for what purposes now used and in what state of preservation Can a small photograph be had of the building — building of this class are generally photographed as there is a demand for them.

Am desirous to complete my collection of peices and Photographs of historical objects for the New York Centennial

I shall consider it a favour if can assist me in this matter I know of no one else in St Louis I am aware of the amount of

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work you must have on hand
being absent so long but hope
you will excuse the encroach
ment.

Yours truly
Edward Palmer.

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Rec Dec 15th
Ans Jan 2

Davenport Iowa
Dec 13

Dr. G. Engelmann

My Dear Sir
On the eighteenth instant I will leave this city for St George Utah for the winter and may be the spring - as I am going escploring for Indian mounds and visiting the living Indians in the interest of the Peabody Museum Cambridge let me know if there is any thing in that section you desire A package of peants is forwarded to you Dr. Parry may have written to you yesterday, there each specimen is numbered and a letter attatch which designates the locality. After you have identified them

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forward Dr. Parry a list of the names & numbered so he can name his - the plants you retain They was collected at the following localities Colorado River valley Arizona March. (are marked A.)

Hassayampa valley central Arizona beginning of April (B)

Prescott Arizonia, mountain district central Arizona latter part of April (C)

25 miles north east of San Luis Obispo California July (E)

Hope you will find something to interest you in the package

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Dec 13

Dr Cleveland of Sandiego California informs me that Mr. Dunn did not get the fruit of that new oak or the seed of Abies Macrocapa — I shall have to make a trip after them may possibly by next fall work round to San Diego

Yours truly
Edward Palmer.
St George.
Utah.

Philesia 7.

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