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About the Institute

The Hunt Institute for Botanical Documentation, a research division of Carnegie Mellon University, specializes in the history of botany and all aspects of plant science and serves the international scientific community through research and documentation. To this end, the Institute acquires and maintains authoritative collections of books, plant images, manuscripts, portraits and data files, and provides publications and other modes of information service. The Institute meets the reference needs of botanists, biologists, historians, conservationists, librarians, bibliographers and the public at large, especially those concerned with any aspect of the North American flora.

Hunt Institute was dedicated in 1961 as the Rachel McMasters Miller Hunt Botanical Library, an international center for bibliographical research and service in the interests of botany and horticulture, as well as a center for the study of all aspects of the history of the plant sciences. By 1971 the Library's activities had so diversified that the name was changed to Hunt Institute for Botanical Documentation. Growth in collections and research projects led to the establishment of four programmatic departments: Archives, Art, Bibliography and the Library.

UNIVERSITY OF CALIFORNIA
COLLEGE OF AGRICULTURE
DIVISION OF GENETICS
BERKELEY, CALIFORNIA

Mar. 28, 1933.

Dear Dr. Ball-

Enclosed are two very modest contributions which may be of some interest to you. The reprint from Seisua you may keep if you care for it. As my stock of reprints of the "species-concept" paper is exhausted may I ask you to return this copy of the manuscript? I shall feel honored if you will read it and make any comments you wish.

Sincerely E. B. Babcock.

May 22, 1933.

Dr. E. B. Babcock,
College of Agriculture,
Division of Genetics,
Berkeley, California.

Dear Professor Babcock:

I am exceedingly regretful that your note of March 28, the accompanying reprint from Science, and a portion of your manuscript entitled Cyto-genetics and the species-concept, read at the Fifth International Botanical Congress, Cambridge, England, on August 21, 1930, should have been overlooked by me, as expressed in our telephone conversation. I have read them both with much interest and greatly appreciate your courtesy in making them available. I am returning the manuscript herewith in accordance with your request.

To state my own position briefly, I would repeat that I by no means deny the occurrence of hybrids in nature. I merely decry the increasing prevalence of predicating hybrids without evidence and of predicating increasingly complex hybrids the identity of which would obviously be impossible to prove except by experimentation. My first statement was that with our knowledge of the variations resulting from hybridization, there is no need to predicate the mixture of three, four, or five species or previous hybrids in explaining the forms met with in nature.

Historically, I do not know the reason for the frequently met with statement that willows hybridize freely. I find them no more variable than the species of many other genera. Artificial hybridization of willows would make a fine life work for a scientist. While the progress would be slower than in the case of annual plants, there would be the advantage of having your living material available for many years.

With renewed appreciation of your courtesy, and regret for my neglect, I am

Most cordially yours,

CRB:CSB

Carleton R. Ball

WAYNE UNIVERSITY

BOARD OF EDUCATION

DETROIT 1, MICHIGAN

COLLEGE OF LIBERAL ARTS
DEPARTMENT OF BIOLOGY

Mrs. Virginia Bailey
5841 Second Blvd.

Detroit 2, Michigan
September 5, 1950

Dr. Carleton R. Ball
3814 Jocelyn Street, N.W.
Washington 15, D. C.

Dear Dr. Ball: ^{yesterday}

We returned from a trip to Alaska and found your letter waiting for us. It had not been forwarded.

We very much appreciate your kind words about our "Woody Plants of the Western National Parks" and especially your suggestions for improving the willow section.

We were trying to make the keys easily followed by the laymen and still trying to keep the account scientific to the best of our ability. I'm afraid we did not pay close enough attention to relations in many of the groups of plants.

We should like very much to have any reprints which you can spare. I suppose you were waiting to hear from us before sending them.

We collected some plants in Mt. McKinley National Park this summer and would like to send you some

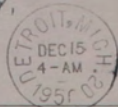
of the willow specimens for
your help in determination. We
also have some specimens from
the California parks and the Rocky
mountains collected the last two
summers.

We are now working on a comparison
of all of the flowering plants of the
western National Parks, including the
herbaceous as well as shrubby ^{and tree} species.
To cut down on size, this will probably
be only a check-list, but we wish
to include keys and arrange
the species systematically according to
relationships. Hence we will welcome
from you any suggestions for the
improvement of the Salix group.

Sincerely yours,

Harold and Virginia Bailey.

Mrs. H. E. Bailey
5841 Second Blvd.
Detroit 2, Mich.



THIS SIDE OF CARD IS FOR ADDRESS

Dr. C. R. Ball
3814 Jocelyn Street, N.W.
Washington 15,
D.C.

Detroit, Mich.
Dec. 13, 1950.

Dear Dr. Ball.

I must have been in a hurry when answering your letter of Dec. 5. and overlooked several questions. The two glacier collections of Salix anglorum var. antipicata, one unnumbered and the other no. 4575, are actually two different collections 10 years apart. We collected plants for the glacier park herbarium in 1939 while numbering them. The duplicates we have are some of the unidentified ones left at the University of Calif. Herbarium. The type. Emps collections of Rocky Mts. N. P. are also duplicates and we have duplicate labels on our sheet. Best wishes, Baileys.

673 West Ferry
Detroit, Michigan.
Sept. 12, 1953. (Saturday)

Dear Dr. Ball:

I just received this telegram from East Lansing. Since I have not received any manuscript from you, I thought perhaps Dr. Petrides may have been mistaken in thinking that you sent the manuscript to me. I have written him that I have not received it. He certainly seems to be in a hurry.

Hope you are not too bogged down with work.

Sincerely,
Virginia Bailey

P.S. I trust that you received the two letters ^{sent} ~~sent~~ last week - those evidently meant for Dr. Petrides. - V.B.

MILO S. BAKER
KENWOOD
CALIFORNIA

Oct 1, 1934

Dear Dr. Ball,

Thank you for the copies
just received of "New or Little Known Willows"
And two reprints on *Salix Lemmonii* and
Salix Scouleriana. I wish I had something
in literature to mail you.

I wonder did you receive a willow
from me, kindness of Ethel Cress, collected
West of Lakeport this last spring? I sent it
down to W.C. perhaps 6 weeks ago. I did not
study it at all, but it seemed to my
untrained eye to be different from any
willows I had collected in Lake Co. or
thereabout. It is numbered # 77 P.S. If anything
different would like to get the name included
in a revised list of plants of the North Bay
Counties.

Cordially

(See over)

P.S. I have also another willow from the Santa Lucia Mts.
Milo S. Baker.

October 31, 1934

Prof. Milo S. Baker,
Kenwood, Calif .

Dear Professor Baker:

In further regard to your inquiry letter of October 1, and our conversation of last Saturday I am happy to say that Prof. Mason has hunted up the willows you turned in last August.

I find that I had named them and returned them to him at that time. The number, names, and annotations are as follows:

7375a. *S. lasiolepis*, probably var *Sandbergii* (Rydberg) Ball
Was this Oregon or Washn?

7754. *S. S. Breweri* Bebb, Lake Co.

7785. *S. Tracyi* Ball. This has the slender habit, coetaneous fruiting, and short styles. The pedice ls are unusually long, and the seeds, tho apparently fertile, are few in number. It may possibly be a hybrid, but I think not.

7803. *S. laevigata* Bebb

I'm sorry for this delay, but assumed that the Dept. Botany was reporting determinations on other plants and would include these. Will always report directly hereafter.

Most cordially yours,

Carleton R. Ball

P.S. My assistant reports that you have already supplied us with specimens. M.S.B.

MILO S. BAKER
KENWOOD
CALIFORNIA

Apr. 2, '35

Dear Dr. Ball,

I want to thank you for your endeavor to secure for me specimens of *Salix Hookeriana*, I suppose it but I have already probably waited too long. Several times I have thought of it at home & could of attended to it then but I have given my herbarium to the College & when I get there it does not occur to me. But today I will try to ~~correct~~ ascertain whether or not I have these specimens already. ~~Then I will then.~~ Thank you

Cordially
Milo S. Baker

November 20, 1933.

Dr. A. L. Bakke,
Dept. of Botany,
Iowa State College,
Ames, Iowa.

My Dear Dr. Bakke:

I have the circular letter from the Committee under your chairmanship, in regard to the bust of Dr. Pammel and a bronze replica of it. It appears to me that this a most excellent plan and I am very glad to contribute toward it. The check inclosed is not large but I hope it will help. It is the best I can do after two salary cuts.

I have not so much to report in the botanical field, as that is not my real work and there is not any too much time left for avocations. However, the start I made at I.S.C. has held me firmly since. I cannot get away from the willows:

When the botanists of California first found out that the Salix specialist was in their midst they scheduled me to speak at the annual dinner of the State Botanical Society. I took as my topic: "The Private Lives of the Willows", which is the fascinating tale of the thousand and one uses of which man has found for willows since first the world began. These very miles of giant aprons the Army Engineer Corps makes for the mighty Mississippi to the seed-hair tinder of the Eskimo on the frozen Arctic Coast and from the cricket bats of Merrie England and the wooden shoes of the Netherlands to the wooden legs of America, and from the willow charcoal that made the black powder for all our wars from the Revolution to the Civil War to the willow charcoal that made the famous American gas masks in the World War. And so it goes on, and on, and on, and on.

California willows have been collected by many botanists from the days of Brewer and Bolander to the present hour. Many new species have been described from the State. But since I arrived two new species and several new varieties have been found and described by me and the end is not yet. Botanists throughout the State have started collecting and several species not before known to occur in the State have been found here and others will be so found as the work goes on.

I have three papers on the California willows in press now (publication being slowed down by the depression) and two more well along. I could tell tales also about what we are doing to the willows of Alaska--but that is another story.

With personal regards and also greetings to mutual friends,

I am most cordially yours,

Carleton R. Ball
Research Associate in Government Relations

Alumni of the Botany Department:

Those of you who were on the campus at commencement time last spring had an opportunity to see the bust of Doctor Pammel which was made by the Des Moines sculptor, Mr. Carl Peterson. It is the consensus of opinion of those who have seen the bust that it is a very good likeness of Doctor Pammel.

President Hughes has purchased the bust for \$250.00, making a down payment of \$50.00, with the thought that colleagues, former students and other friends of Doctor Pammel would like to have a part in making available to the college such a memorial. In order to make a permanent bronze cast of the bust the expenditure of an additional \$125.00 will be necessary.

At President Hughes' suggestion a canvass of the botany department staff has been made which resulted in contributions from all members of the staff. No one was made to feel obligated to contribute but all seemed to feel that here was an enterprise in which they wished to have a part, because of the fitness of the tribute to the man and to the profession.

The committee appointed by Dr. Melhus thought that you, too, as an alumnus of the Botany Department, might like to have a part in this enterprise. The sum to be contributed is left wholly to your own discretion. We believe that every alumnus will wish to contribute something. Later, other alumni of the college will be given an opportunity to contribute, but we should like to inform the President as to the part which the Botany Department, including the alumni, wishes to play in the matter before others are canvassed.

May we hear from each of you so that we may report to the President by the first of December?

We are planning also a department news letter for our alumni and would appreciate any items concerning your interests and achievements which we could include.

Sincerely yours,

A.L. Bakke, Chairman
J.C. Gilman
Charlotte M. King
J.M. Aikman
J.J. Wilson

LETTER DEPARTMENT
IOWA STATE COLLEGE,
AMES, IOWA.

November 28, 1933

Dr. Carleton R. Ball
University of California
Bureau of Public Administration
Berkeley, California

Dear Doctor Ball:

At this time I wish to thank you for your contribution to the purchase of the bust of Doctor Pammel. We are having a very favorable response. We were all very much interested in your account of your studies of the willow. I hope we may be able to hear your account of willows first hand.

With kindest personal regards, I am,

Very truly yours,

A. L. Bakke
A. L. Bakke
Professor of
Plant Physiology

ALB:CR

STATION STAFF

E. D. BALL, Director and Entomologist
 W. W. McLAUGHLIN, Irrigation Engineer
 R. S. NORTHROP, Horticulturist
 H. J. FREDERICK, Veterinarian
 JOHN T. CAINE, III, Animal Husbandman
 ROBERT STEWART, Chemist
 J. C. HOGENSEN, Agronomist
 S. H. GOODWIN, Economic Ornithologist
 E. G. TITUS, Entomologist
 L. A. MERRILL, Agronomist
 (In charge of Acid Farms)

UTAH AGRICULTURAL
COLLEGE

J. A. WIDTSOE, PRESIDENT

Experiment Station

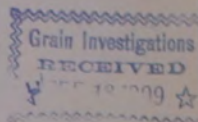
Logan, Utah.

Ans'd
 2-20-09

STATION STAFF--CONTINUED

T. E. WOODWARD, Dairyman
 J. E. GREAVES, Assistant Chemist
 E. H. FAVOR, Assistant Horticulturist
 H. W. CROCKETT, Assistant Horticulturist
 F. D. FARRELL, Assistant Agronomist
 G. M. TURPIN, Assistant Poultryman
 W. L. WALKER, Assistant Chemist
 J. R. HORTON, Assistant in Entomology
 J. L. COBURN, Financial Secretary

Feb. 11th, 1909/



Prof. Carleton R. Ball,
 Bureau of Plant Industry,
 Washington, D. C.

My dear Brother:

Mr. Horton dug up the missing specimens of willoughs still in the press and I am expressing them to you at the department, and trust they will reach you safely. Everything goes lovely with us here, the Legislature visited us Saturday some 350 strong and have gone away again leaving us to clean up the wreck. It was the best natured Legislature that I have every seen and from all signs it looks as if we were going to have very good treatment.

We have had some of the worst weather the Lord ever visits upon an arid region. About two weeks solid rain, winding up with about two feet of snow.

I have been getting back to my bugs again for the first time in several years. Have already got about thirty species described and twenty five of them off to the printer. I think I can double that number for spring if too many things do not bother.

Sincerely yours,

EW Ball

Dr. Theodore P. Bank, II,
Botanical Gardens, Univ. of Michigan,
Ann Arbor, Michigan.

3814 Jocelyn St., N.W.,
Washington 15, D.C.

30 July, 1952.

Dear Dr. Bank:

In reading your interesting article on studies of Aleutian soil profiles, I noted your reference to scattered prostrate willows in the present flora.

In the lists of plants whose pollen was found in these deposits, *Salix* was not included, although *Populus* (the only other genus in *Salicaceae*) was listed for one locality.

As willows are so abundant in most of Alaska, I was surprised at the absence of their pollen in these sites. If you have any comments on this lack, I will be much interested in them.

We still lament the untimely death of Dr. Louis Jerdan while engaged on the studies of Alaskan plants.

Cordially yours,

Carleton R. Ball

UNIVERSITY OF MICHIGAN
EXPEDITION TO THE ALEUTIAN ISLANDS

SPONSORS

UNIVERSITY OF MICHIGAN—1948-1952
OFFICE OF NAVAL RESEARCH—1948-1949
MICHIGAN MEMORIAL PHOENIX PROJECT—1950
INSTITUTE FOR ALEUTIAN RESEARCH—1945-1952

BOTANICAL GARDENS
ANN ARBOR, MICHIGAN, U.S.A.

4 September 1952

Dr. Carleton R. Ball
3814 Jocelyn St., N. W.
Washington 15, D. C.

Dear Dr. Ball:

Thank you for your note of July 30 in which you ask about the lack of *Salix* pollen in our Aleutian profile. I have delayed answering this long because I really have no good answer.

Sven Anderson, who did the actual pollen determination, writes that he is sure he wouldn't mistake *Populus* pollen for *Salix*, and he is equally sure that there was no *Salix* pollen in our samples. As you well know, dwarf willows are common in the Aleutians today, especially at higher altitudes and on the extensive "heath" slopes. It would certainly seem that willows were also present in former times, although it may be that the numbers were smaller at a time when our humic sample Tanaga-39 was laid down (This is the sample which shows pollen predominately of Ericales, Gramineae and Cyperaceae). This particular stratum overlies thin ash and thick clay beds. I believe it to be formed from some of the first vegetation invading the site after the local ice cap had withdrawn from that part of Tanaga island. I have very little information concerning the pioneering ability of dwarf willows on clay soil; perhaps you may have a suggestion? The absence of willow pollen in our more recent sample (Tanaga-18) I think is explained by the fact that there are practically no willows occurring today near the site, and the vegetation as shown by the pollen of that particular sample must have been pretty much the same when the humic layer was formed.

The question you bring up is indeed most interesting, especially since *Alnus*, *Betula* and *Populus* pollen occur in our sample, yet none of these genera is represented on Tanaga today, or for that matter on islands hundreds of miles away. Perhaps I'd better just admit that I am stumped. We are going to have more of our samples studied for pollen (we have almost a thousand samples from more than twenty islands), and perhaps your question will be answered in the near future.

Again, thank you for writing. Professor H. H. Bartlett sends his regards. He was on an extended field trip this summer, collecting *Oenothera* and dwarf birches between Ann Arbor and the West Coast.

Sincerely,

T. P. Bank

T. P. Bank, II

Professor T. P. Bank, II,
Botanical Gardens,
University of Michigan,
Ann Arbor, Michigan

3814 Jocelyn St., N.W.,
Washington 15, D.C.

q4 September, 1952.

Dear Professor Bank:

Your letter of 4 September was received promptly but neglected because I have been off the reservation recently,

I am glad to have your comments on the absence of willow pollen in your deposits. I have no personal knowledge of the early appearance of willows on recent clays. But in writing to my collector friends long familiar with Alaska and its willows, I will ask for information. Anything they turn in I will make known to you.

I note that many samples are yet to be studied and if they show any different results I will be glad of the information. But do not go to much trouble in this matter because it is not really important to me.

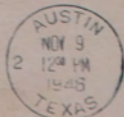
Glad to hear of Dr. Bartlett's activities and hope that he got what he needed for his studies.

With all good wishes for your work, I am

Cordially yours,

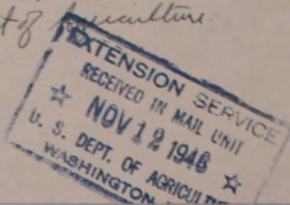
Carleton R. Ball

Digitized by Hunt Institute for Botanical Documentation



THIS SIDE OF CARD IS FOR ADDRESS

Dr. Carlton K. Ball
Extension Service
U. S. Department of Agriculture
Washington
DC.



1620 University Station
Austin 12, Texas
8 November 1946

Dear Doctor Ball:

The specimens have arrived safely and we are very happy to have your determination.

Chester Howell tells me that he is not related to the Chester Howell, editor of the San Francisco Chronicle.

I must admit that I was more than a bit irritated by your article as reviewed in Science -- where I felt that you had picked on a flaw in a field and had magnified it far beyond its importance -- I felt that you had failed to see the "forest of importance" in the science of taxonomy for an "individual tree or two of imperfection" and thereby was much disappointed in your reflection. My objections to your paper were not that what you said was untrue, but that the amount of imperfection pointed out was much overdrawn. Cordially yours,
Fred A. Barkley

MICHIGAN STATE UNIVERSITY

OF AGRICULTURE AND APPLIED SCIENCE • EAST LANSING

DEPARTMENT OF BOTANY AND PLANT PATHOLOGY

1 August 1957

Dr. Carleton R. Ball
3814 Jocelyn St., N. W.
Washington 15, D. C.

Dear Dr. Ball:

Thank you very much for the study of our Michigan specimens of Salix. I am sure that we miscounted the Gillis specimens sent you and as you say there were seven rather than eight. I shall ask Mr. Gillis to obtain, if possible, specimens with mature leaves when he returns in the fall.

At present I am on a collecting trip in the Rocky Mountains. I am primarily interested in alpine plants. I would greatly appreciate your examining my Salix collections ^{in the fall} if you have time.

Sincerely yours,

John H. Beaman

John H. Beaman

Curator of the Herbarium

Prof. John H. Beaman,
Curator of the Herbarium, Dept. of Botany,
Michigan State University,
East Lansing, Michigan.

3814 Jecelyn ST., N.W.,
Washington 15, D.C.

9 August, 1957.

Dear Professor Beaman:

Your letter of August 1, from somewhere up in the Reckies, was promptly received and I was glad to know that the Michigan willows arrived safely. It will be fine if Mr. Gillis can collect mature leaves in the fall. Besides the normal branch-
letes and twigs of that season, it always is well to look for big-leaved summer sprouts from larger branches or trunk. They serve to show one very different additional aspect of the whole plant.

I am delighted to know that you are spending the summer in the Rocky Mountains. There is much beautiful scenery and interesting collecting in the mountains of Colo., Wyo., and Mont. In the Great-Basin States beyond, (Utah, Nevada, & Idaho), there also is an infinite variety of desert, lake, and variety, besides the mountains.

I will be most happy to determine your Salix collections at any time they are ready for shipment. When sending them, please indicate clearly which one are to be returned to you, and which, if any, are to be kept by me. Please be assured that I am perfectly willing to determine specimens when all are to be returned to sender, but if I am not informed at the time it often caused correspondence delays which slow down my progress.

With all good wishes for your summer, I am Most cordially yours,

Carleton R. Ball.

FOREST PATHOLOGY



UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

Keijo, Corea, 8 June 1928,

Dr. C. R. Ball

Cereal Crops, Bureau of Plant Industry,
Washington, DC.

Dear Dr. Ball: Today I mailed a small package of seeds to Foreign Plant Introduction. Among them were 5 numbers of *Salix* seeds for you, - nos. 689-690-693-694-695. These are all willows I found in the Kongo-San or Diamond Mountains of Corea. I know nothing about collecting willow seeds so these may not be viable but I saw them & knew you had a willow garden under your wing at Michigan & suppose you will want to help develop one in the new National Arboretum so I take a chance.

Ever since I came to Corea I've been trying to get *Chosenia* for you but thus far have not succeeded. It grows up in the northeastern & northern part of the country where I have not yet been. But I'll still keep it in mind for future acquisition both as dried plants & as propagating material.

There are 28 species of *Salix* and one of *Chosenia* listed for Corea in Ishidoya and Tei. *Chosen Shinrin ju moku kanyo*. (Key to the Trees of Chosen). Unfortunately this publication is all in Japanese except the latin names of the species so the keys do not help me any.

I hope that you will be able to get something to grow out of the seeds enclosed. If not send me some instructions on how to gather willow seeds.

Very truly yours

at Inspection House
E. P. L.

R. Kent Beattie
Senior Pathologist.



Photo by Geo. M. Thompson

Modern four-lane highways skirt miles of Coeur d'Alene Lake shoreline in North Idaho. Here is a portion of the East-West highway at Silver Beach on Lake Coeur d'Alene, which is also situated on the North and South highway.

Edwards Resort, Bend Ore. Co.

Wash. 21 July 1946

Dear Dr. Ball: On 12 July from Pullman I shipped 2 boxes of dried plants to Marvin Fowler Forest Pathology, Beltsville. In Box no. 2 was a pkg of willows for you. I told him to take them out & send them down to you. Please look at them & make any suggestions which will help in collecting more. From here I go to Kettle Falls & then down the Columbia. Address till 29 July Ben Bolser, Elkinsburg, then Eugene Ore.

R. Kent Beattie

Think I got Salix bella near Coeur d'Alene. It is not in the shipment sent. Could n't find it at type loc. 6 mi E of Pullman.

POST CARD

Dr C. R. Ball

Agricultural Economics

U S Dept Agric

Washington

D.C.

PLACE
ONE CENT
STAMP
HERE
MADE IN U. S. A.

December 20, 1941

Professor Lyman Benson,
Department of Botany,
University of Arizona,
Tucson, Arizona.

Dear Professor Benson:

I have just received from you two reprints, one on the mesquites and screw-beans and one on taxonomic studies. As my botanic work and interest is confined wholly to the willows, I am frank to confess that papers on other subjects are just about wasted on me. I therefore take the liberty of turning these two reprints over to the taxonomists of the National Arboretum in the Bureau of Plant Industry and would suggest that you drop my name from your mailing list unless you have something that contains willows.

Thanking you for your courtesy, I am

Cordially yours,

Carleton R. Ball,
Executive Secretary

University of Arizona

TUCSON

COLLEGE OF AGRICULTURE AND
AGRICULTURAL EXPERIMENT STATION

January 5, 1942

✓
Dr. Carleton R. Ball
Extension Service
U. S. Department of Agriculture
Washington, D. C.

Dear Dr. Ball:

Thank you for your letter concerning reprints. I have long known, of course, of your interest in willows, and I have had a considerable interest in the genus myself, although I have done nothing but field work with the group and have published nothing on it. Since you have no special interest in other groups, I shall not include you on my mailing list, as you suggest.

Sincerely yours,

Lyman Benson

Lyman Benson
Assistant Professor of Botany

LB:R

THE UNIVERSITY OF NEBRASKA
DEPARTMENT OF BOTANY

LINCOLN, NEBRASKA, U. S. A.

July 11 1906

C. R. Ball
Washington D.C.

My dear Sir:

Yes. I shall be glad to have
a set of your willows -

Very
Charles E. Berry

Good you like the books.

March 24, 1910

Dr. Charles E. Bessey,
Botanist, University of Nebraska,
Lincoln, Neb.

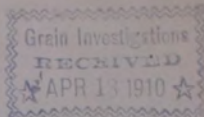
Dear Dr. Bessey:-

I am trying to determine the southwest limits of the range of Salix lucida Muhl, which I found in the Black Hills in 1908. I note that all the recent manuals credit it to Nebraska and that Webber, in his Catalogue of the flora of Nebraska, gives a single locality, Weeping Water. This is several hundred miles south of any other locality of which I have record. I will be under much obligation if you can tell me whether it has since been recorded for other localities in Nebraska, and to what extent it occurs at Weeping Water, that is, whether a single plant or several plants and over how wide an area distributed. I shall heartily appreciate your courtesy in this matter.

Under separate cover I am sending a recent paper on this genus.

Very sincerely yours,

THE UNIVERSITY OF NEBRASKA
LINCOLN
DEPARTMENT OF BOTANY



April 16, 1910.

Carleton R. Ball,
Bureau of Plant Industry,
U. S. Department of Agriculture,
Washington, D.C.

My dear Mr. Ball:

Although I have not yet completed my inquiries I am able to say that on the best of authority Salix lucida Muhl. grows in the Weeping Water region of Nebraska, and I have not been able to locate definitely any where else in the state. Rev. J. M. Bates of Red Cloud, Nebraska, for whom I made inquiries a few days ago, thinks that even at Weeping Water it may have been a planted tree. I doubt this, and so does Professor Pool of the Department of Botany. Mr. Bates says furthermore that it is planted considerably in the northern part of the state. I am not giving you this as authoritative, for I suspect that he has another species in mind. I shall follow the matter up more fully as the spring opens."

Very truly yours,

Charles E. Perry

Parts copied for Notes on N.W.H.

May 27, 1910

Dr. Charles E. Bessey,
University of Nebraska,
Lincoln, Nebr.

Dear Dr. Bessey:-

Yours of April 16th was duly received, and I wish to thank you heartily for the time you have given to solving this problem. If you are able to get any further data with regard to the distribution of Salix lucida in Nebraska, or other parts of the Missouri valley, I will gladly receive the same and appreciate your courtesy.

Very sincerely yours,

CRB-MH

Jaegerplatz 7, Halle a. S. Germany
June 24, 1903.

Dear Bill,

On your recent I have made the following
distributions for books

1/2 Friedländer's book	
Anderson's book on Berlin	1.50 ✓
Putze on same	.30 20
Cut of many other	.10

1/2 Oswald Weigel	
Anderson's book on Berlin	2.50 ✓
Engelmann's book on Berlin	8.00 ✓
Putze on same	.60 50
Cut of many other	.20

1/2 Felix L. Dames	
Anderson's book on Berlin	1.50 ✓
Putze on same	1.00 ✓
Cut of many other	.30 20
Anderson's book on Berlin	6.00 ✓
Delandelle's book on Berlin	12.00 ✓
Putze on same	1.60 10
Cut of many other	.20
Total	M 35.80

I owe you for duty - till etc \$5.22
which @ \$.21 per 1 book
Balance in my favor

M 22.90
M 12.90

What Robert in postage will be more than covered up
by what you report for postage on my recent list sent to
Hagen and this money you must do in Chymung and right
away (as I have been July 20) or you must wait till I get back
(Oct 1st). Do what you choose.

Left Cologne rather monthful Wednesday evening
I took a short-cut with McCook and the human beings
and the better fare.

Thursday Oct. 1st left Cologne with Dr. Kuster
to Kosen and Radeburg (on the edge of Thuringia) on a
botanical excursion, leaving by train at 1st and getting back
8³⁰

Friday Oct. 2nd left Cologne with Professor
Kuhn and Mey and Dietrich, taking the train to Cologne (only
9 miles) and then to Trier, in the direction of the
Trierbachthal and the four of us walked back to Trier
9 or 10 miles while the others came back by train.

I must close as I have lots of work to do. I am very well
and hope you are also.

You will find that Miss Martin suggests. I
don't know anything about it except that somebody, I
don't know who, mentioned it once before in connection

last summer. Perhaps we not more than some
sufferers.

(With best regards to all)

Very truly yours

Ernst A. Bessey

4-6-07

Miami Florida, April 3, 1907.

My dear Ball -

I'm at last sending you the willow
(*Cleome speciosa* showing staminate & pistillate catkins &
leafy shoots) I promised you in February. I collected
them all on the date on the label on low land near
a small stream about $\frac{1}{2}$ mile N.W. of Miami.

The leafy shoots I took pains to see were on the
same tree not being another species. The specimen
came from trees six to ten feet tall, much branched
shrubs, but the same species makes trees 3 inches
thick and over 20 feet tall.

Please let me know what the "critter" is.

How are things at the Goulds? I've heard
nothing. I saw by the paper that a new
pastor was chosen and had accepted. I'm glad of it.

Kindest regards to Mabel

asked source of leaves
& for mature foliage
Cites from other sex.

Sincerely

Ernest A. Bury

Copy for Mr Tidestrom

Nov. 17, 1924.

Mr. Ellsworth Bethel, Pathologist,
State Museum,
Denver, Colo.

Dear Mr. Bethel:

On my return to the office from a western trip and from attendance on the recent scientific meetings here in Washington, I find your specimen of a supposed willow from Colorado. This is not a willow, however, and I am sending it to Mr. Ivar Tidestrom, of our Office of Economic Botany. He is quite familiar with Rocky Mountain and desert plants, and I am sure will be able to name it for you without difficulty.

Very truly yours,

G. R. Ball,
Senior Agronomist in Charge.

GRB/eos

? *Aster glaucodes* Blake

UNIVERSITY OF NEVADA
RENO, NEVADA

DEPARTMENT OF BIOLOGY

January 30, 1941

Dear Mr. Ball:

I appreciate very much the correction label for the *Salix Lemmonii* specimen, Heller #9740, which you sent me recently. I will see that it is affixed to the sheet in question. We would like to extend our sincere thanks to you for checking over our willows for us; it was a great help.

Sincerely yours,
W.D. Billings
Asst. Prof. of Botany

August 1, 1943

Dr. Miriam L. Bomhard,
Dendrology, Forest Service.

Dear Dr. Bomhard:

I am returning the Yuba Co. (near Tahoe N.F.) willow No. 32 (3155)
F.S. 81278, sent me for resolving of two different determinations which I
had given it. I stick by my earlier identification as *S. melanopsis*
Nutt., and disavow, retract, and utterly repudiate my second determination
as *S. exigua virens*. Redetermination label is affixed.

One must always rationalize his conduct and misconduct. The causes of
my sinning were two. 1. The temporary (?) mental aberration which crops out
in plant taxonomists and perhaps is the primary cause of their electing to

become that kind of an animal. 2. The fact that the specimen is composed of

five fragments, juveniles in growth characters. If the collector had cut

of the branchlet with these five flowering peduncles still attached, the

tell-tale black bark bars the branchlet probably would have been sufficient

to have prevented the error in second determination. The sheet does not

bear a date but probably was late spring or early summer.

Regretfully yours,

Carlston R. Ball, Collaborator
Tahoe National Forest

with description?
HCB 7/28/43

Could you make up a name for
the Ball reworking the label
with description?
HCB 7/28/43

Don't know!

Bromhard, M. L.

Forest Service:

9/24/47

Mr. Ball:

As you know, I am still "cleaning up" certain California Type Map collection specimens, as time permits, on whose identification questions were raised. This one appears to need your review & some statement as to S. cultteri vs. S. scouleriana, if you'll be good enough to check it.

I've copied Miss Schrieber's (now Mrs. J. J. Schrieber) comment on a slip; it's attached to the specimen.

A duplicate of this number is undoubtedly somewhere in your herbarium from about 1939!

Thank you.

If you'll just phone Br. 2660, I'll be glad to come for the specimen when you've finished looking it over.

It was typical S. scouleriana

6-18-07.

Spokane, Wash.
May. 20, 1907.

Carlton R. Ball,
Wash. D. C.

Dear Sir,

Mr. F. H. Dewart has turned your letter over to me, and as I have been collecting in eastern Washington, northern Idaho, and Western Montana, for the last 4 years, I shall be pleased to assist you all I can. It is rather late for collecting material in fruit at present, but I can collect the mature foliage ~~then~~ ^{then} collect fruiting material from same plants next Spring, i. e. if this will be satisfactory to you. Awaiting your reply, I am,

Yours very respectfully,

Thos A. Bonser, ^{Head of Dept. Biology,}
^{Spokane High School}

E. 12 Nora Ave.

Spokane,
Wash.

from E. L. Braun
St. John, N. Br.
July 28, 1956

Dear Dr. Ball:

I was very glad to get your letter of July 8 which came just before I left on this trip to the Northeast, which will keep me away from Cincinnati until Sept. 1. We all felt that you must be ill. No doubt your work has piled up, and you will be very busy for some time.

My work on the "Woody Plants of Ohio" has progressed more rapidly than I had expected and I am looking forward to publication of the whole in the not too distant future. Therefore, it will not be advantageous to publish a preliminary paper on willows such a short time before.

But, there are two things which I do need in order to incorporate the willows in the manuscript which is now nearing completion.

These two things are:

- (1). A list of all Ohio species and varieties of willows, together with a list of the counties in which each was found. You have records (from the U.S. Nat. Herb. and elsewhere) which we do not have. I will need all the records to make the maps.
- (2). A key or keys to the species and varieties.

Digitized by Hunt Institute for Botanical Documentation

As you are very busy, no doubt you will be glad to be relieved of writing text. Perhaps you can give me items (1) and (2) rather soon, and be free of the Ohio work except perhaps for a few additional identifications, if more specimens are collected.

Sincerely yours
 5956 Salem Rd. Cincinnati 30, Ohio P. Lucy Braun

Nov 2-00

Philadelphia Botanical Club

Academy of Natural Sciences

Logan Square

Oct 31 1900

Mr Carleton R. Ball

Sir of Agrostology

U.S. Dept. of Agriculture

Washington D.C.

Dear Sir,

I am sending you today under
separate cover specimens of several of Nuttall's
types of *Salix*

We only have in our herbarium a very small
proportion of the species desired.

Please return the enclosed blank receipt when
the specimens are received

Yours very truly
Stewardson Brown

Nov 13th 1901

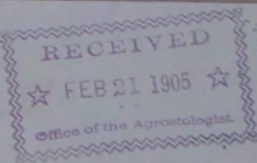
My dear Mr Bell

The package
containing Nuttall's types of
Salix borrowed by you were
received this morning.

I thoroughly understand why
it was necessary for you to
keep them as long as you did
and hope they may have been
of value to you in your study
of this very *Campylorhynchus* group.

Yours very truly
Stewardson Brown

Ms 76 23-05
THE
Academy of Natural Sciences
OF
PHILADELPHIA
LOGAN SQUARE



Philadelphia, Feb 20 1905

Dear Mr Ball

I am sending to you
at the Smithsonian Institution package
containing the specimens of Nuttalls several
types of willows per your request of the
16th the delay is due to the being necessary
to have the loan passed on by the board
of Curators on account of the specimens
being types of a fragile nature.

I am sending also three other letters
which I found in a cover with
your name on the outside and which
you probably set aside at one of the
times you were here but never
asked for.

Please sign & return the enclosed
loan blank & oblige

Yours very truly
Stewardson Brown

Burbank, Luther

UNITED STATES DEPARTMENT OF AGRICULTURE
EXTENSION SERVICE
WASHINGTON, D. C.

Anchter

July 25, 1939.

RECEIVED
JUL 25 1939
OFFICE OF DIRECTOR
EXTENSION SERVICE

MEMORANDUM TO DR. C. W. WARBURTON,
Director of Extension Work.

Dear Dr. Warburton:

I have noted recently in the press that a new series of postage stamps honoring 35 Americans includes one featuring Luther Burbank. In view of the fact that his claims for productions in cereals are known to be false, and that the Carnegie Institution withdrew its financial support from him after a series of confidential reports by their representative to the effect that he was not doing legitimate plant breeding with their funds, it would seem very unfortunate for the United States Government to get itself committed to validate his claims.

You may be interested to know that even California has begun to take some action in this matter. Dr. W. L. Howard, former Director of the School of Agriculture, is engaged at present on writing a history of the Burbank cult. I have loaned to him the manuscript I prepared embodying my findings and those of others, but which the Bureau was unwilling to publish because of the apparent impossibility of making headway at that time, some 20 years ago.

It would seem to me that if you and Dr. Anchter would bring this matter to the attention of the Secretary, if you thought that wise, it might cause a tip off to Postmaster General Farley, which would result in a change in this proposed schedule. I feel certain that California would be grateful to you for such action.

Cordially yours,

Carleton R. Ball
Carleton R. Ball,
Executive Secretary,
Coordinating Committee.

Cc to Anchter

Burbank, Luther

UNITED STATES DEPARTMENT OF AGRICULTURE
EXTENSION SERVICE
WASHINGTON, D. C.

July 26, 1939.

Dear Doctor Auchter:

The attached from Ball came to me just as I am leaving for Cleveland for the World's Poultry Congress. If you think anything should be done about this, I will be glad to go along with you.

CWW.

Dr. Warlinton: 8-5-39

This is returned
in line with our
Chief discussion at
Auch today
H.C.



Plant Industry thinks
no protest should be made.
Cw