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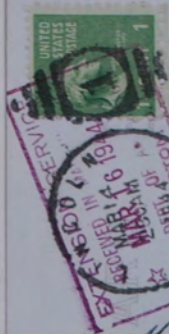
About the Institute

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.



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Mr. Carlton A. Ball
Extension Service
U.S. Dept. of Agriculture
Washington 25, D.C.

Mr. I am not discouraged about the delay in the determination of the willows. I presumed that you would be busy. However I shall be glad to hear from you. Soon summer will be here, and I shall be in the field again and hope to better know the willows than

Sincerely Walter H. Kienner

PHOTO BY WALTER KIENER

December 10, 1945

Dr. Walter Kiener,
State Game, Forest, & Parks Comm.,
Lincoln 9, Nebraska.

Dear Dr. Kiener:

Your letter of Nov. 27, and the carton of willows, came safely and I tried to get them done for you but we have had scarcely a sunny day since they arrived. I wanted to evaluate hairiness particularly and it takes real sunlight to get that accurately. Saturday we had sunlight and I finished the job. List is inclosed.

These specimens gave me some real thrills and some splitting headaches. Taxonomists, as you know, lean to the opinion that all specimens of a species are alike and collect but one in an area. The fact that it isn't like the one they collected elsewhere does not worry them because they don't know, or remember, that fact. The ecologists, on the other hand, assume or know that no two specimens are alike and so collect many in a single locality. This teaches us the range of variation which it is well to know. It also teaches us that there is no clear line of separation between species, which is a painful realization.

These late fall collections are especially interesting, because it shows the ultimate coloring and pubescence under dry-land conditions. I really should have studied the temp. and precip. records for stations in the counties like Dundy and Lincoln for this year but have not the time.

Your specimens of *S. amygdaloides* (Nos. 19676, 19677, 19682, and 19684) from Dodge, apparently shows strong seasonal effects? BUT I do not know the causative conditions.

The extensive series of *S. interior* and varieties from Dundy Co. shows many small-leaved specimens. Under those conditions, there seems to be complete intergradation between the species and var. *wheeleri*, and I made the final determination on some specimens by the remaining pubescence. Earlier-collected specimens probably would have been less confusing. I did not stop to compare these with previous Dundy Co. material. There was the same confusion between *S. cordata* and var. *vestita*.

Your Lincoln Co. No. 19611, which I determine as *S. interior* var. *angustissima* (Anders.), is the farthest north for this var., altho I have it from NW Texas. It matches some of the Rio Grande material very well. However, I have had to get the type material of several species and varieties from So. Texas and adjacent New Mex. to find out just what each author had. Andersson assigned about three different types to his var. I have about all the material from Gray and Mo. Bot. Garden and only await sunny days (snowing hard and freezing just now).

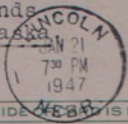
Greatly appreciating your splendid material, I am

Cordially yours,

Carleton R. Ball
Collaborator

Best Holiday wishes.

Dr. Walter Kiener
Game, Forestation & Parks Commission
State Fair Grounds
Lincoln 3, Nebraska



BUILD YOUR FUTURE
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THIS SIDE OF FLAP IS FOR ADDRESS

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U. S. DEPT. OF AGRICULTURE
WASHINGTON, D. C.

DR. CARLETON R. BALL
U. S. Dept. of Agriculture
Extension Division
Washington 25, D. C.

Lincoln 3, Nebraska
January 21, 1947

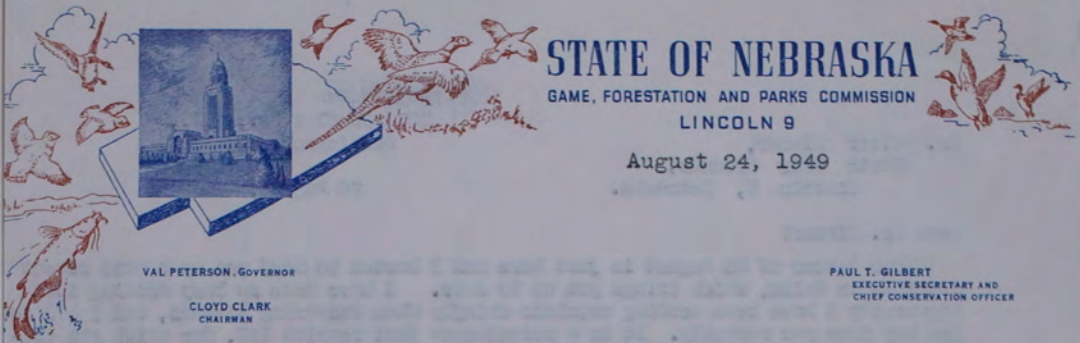
Dr. Carleton R. Ball
Washington, D. C.

Dear Dr. Ball:

Could you kindly favor me with reprints of your recent papers on taxonomy and MORE PLANT STUDY....

Yours very truly,

Walter Kienner



STATE OF NEBRASKA

GAME, FORESTATION AND PARKS COMMISSION
LINCOLN 9

August 24, 1949

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EXECUTIVE SECRETARY AND
CHIEF CONSERVATION OFFICER

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

Dear Dr. Ball:

Could you kindly favor me with a reprint of your recent paper in Madroño, and perhaps some of the other more recent ones.

Before too long I hope to send you some more willows from Nebraska. I have also some growing in my yard.

Thank you.

Sincerely yours,

Walter Kiener

WK:hd

Dr. Walter Kiener
State Fair Grounds
Lincoln 3, Nebraska

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Dr. Walter Kiener,
State Fair Grounds,
Lincoln 3, Nebraska.

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

26 August, 1949

Dear Dr. Kiener:

Your letter of 24 August is just here and I hasten to send you my 6 most recent reprints in *Salix*, which brings you up to date. I have been so busy writing that apparently I have been sending reprints chiefly when answering letters, and I had not had any from you recently. It is a coincidence that reprint 172, for which you asked, arrived on the same mail as your letter.

Have just completed the mss. on *Salix* for the new Britton & Brown *Illus. Flora*. This does not go beyond the west line of Minn.-Ia., etc. but will cover all of the east half of ~~EM~~ Nebraska completely. In your western area you get the mountain flora outcropping. Am now working on Alaska-Yukon and adjacent B.C. The *Illus. Fl.* has 40 species recognized. The Alaska-Yukon will have 35 or more. I am restudying all species, and also determining the ranges with great care. All of this is basic to my final monograph.

I think that you will find some things of interest in "Willows: Helpers of Man". Two requests for permission to reprint have come in already. I have the mss. for a small volume in this field fairly well along. This paper was a summary. Glad that you are growing some willows. I can't do it on my land. I started three different willow plantings on governmental land here during the years but each was destroyed by a reallocation of the land. Just too bad.

I'll be glad to see more willows at any time but my sending of reprints really does not depend on that. If it did, I'd have to buy you a library, for the numbers of specimens you sent me.

Cordially yours,

Carleton R. Ball

By the way, Lynn Batton was my State Leader of Barberry eradication in S.D. and a mighty fine one, too. If you see him occasionally, remember me to him.

P.S. is the above address more or less permanent, and the one I should record for you now?