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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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DISEASE RESISTANCE
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RESEARCH FELLOW

UNIVERSITY OF MICHIGAN
ANN ARBOR
BOTANICAL GARDENS AND ARBORETUM

FELIX G. GUSTAFSON
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CAREL HAMEL
COLLABORATOR IN ASIATIC
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FREDERICK J. HERMANN
TAXONOMY OF PHANEROGAMS
KENNETH L. JONES
GENETICS; COMPOSITAE
WALTER KOELZ
COLLABORATOR IN ASIATIC
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C. LONGWORTH LUNDELL
BOTANY OF MEXICO AREA
E. B. MAINS
DISEASE RESISTANCE
WILLIAM C. STERE
SOLANACEAE; GENETICS AND
CYTOLOGY; MOSES
JOSEPH S. TIDD
RESEARCH ASSISTANT

September 14, 1934.

Mr. C. R. Ball
Office of Cereal Crops & Diseases
U. S. Department of Agriculture
Washington, D.C.

Dear Mr. Ball:

It is several years since you kindly offered to name willows for me. Now I have about twenty sheets of *Salix* from the Vinta Mts., Utah and the White River Plateau, Colorado, the determinations of which I should very much like to have you check for me or identify those which I have been unable to name; but before sending them on to you I thought I had better make certain that you could still find opportunity for such work and would care to undertake it. If you should I shall be very grateful for your kindness, indeed. You would be welcome, of course, to retain the specimens; and I believe you would find the Vinta collections of interest since I obtained a good number of range extensions there and have turned up three undescribed species in other genera which I have worked over so far.

Sincerely yours,
F. J. Hermann

Replied by card, 9/22/ that I would be glad to name them any time, either with or without retaining the specimens. Sent him foll. papers:

Two vars *Saxifraga*
v. *west.* W

H. H. BARTLETT, DIRECTOR
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SOLANACEAE: GENETICS AND
CYTOLOGY; MOSES
JOSEPH S. TIDD
RESEARCH ASSISTANT

October 5, 1934.

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

Dear Mr. Ball:

Thank you very much for the reprints
you were kind enough to send me. They are a valued
addition to my library which I am trying to make as complete
as possible in taxonomy. Before long I shall have several
on *Juncus* and *Carex*, which are my pet genera, to send you
in return if you care for them.

I sent on my western *Salices* for your determination
a few days ago. I believed I mentioned that you are to keep the
specimens if you can use them. Whenever I collect again in
a region where the willows are more out-of-the-ordinary than
in this neighborhood I shall make a more comprehensive
collection for you and do my best to get more adequate specimens.

S. pellita in upper Mich

S. subsericea in "

S. planifolia in Minn.

S. discolor in swampy form

Sincerely yours,

F. J. Hermann

December 2, 1934

Prof. F. J. Hermann,
Botanical Gardens,
Univ. of Michigan,
Ann Arbor, Mich.

Dear Prof. Hermann:

Your good letter of Oct. 5, and the willow arrived safely. I am glad the papers came safely. Have been delayed on the willows by the public speaking I have been doing, and by the flood of material in the fall.

I inclose a list of the determinations, by number, species, and locality. Listing them in this way gives me a geographical check list, which is very handy. Congratulations on the material, as it contains some interesting species and lacks some that should have been present.

S. lasiandra. This is the 'farthest north' for this species in the Rocky Mountains. It has been found in So. Colo. and adjacent N. Mex., and goes to Alaska nearer the Coast.

S. cascadiensis Ckll. One of your specimens contains portions with the normal narrow leaves, and another portion with shorter, broader blades. Will look into this further.

S. planifolia seems to be represented in this area only by the narrow-leaved variety, *Nelsoni*.

S. petrophila. Your 5631 has the leaves more hairy on the upper surface than normal, which is a transition toward the var. *caespitosa* of the Sierras and Cascades.

S. saximontana. One of your numbers has small leaves, approaching *S. nivalis* Hook. I forgot to note which one it was.

S. pseudo-kapponum. Your 5206, as noted by you, has serrulate blades and glabrate capsules. Probably hybrid, and perhaps with *S. pseudo-cordata*.

You did not find *S. monticola* or *S. pseudo-cordata*, which is somewhat surprising. Also *S. Geyeriana* and *S. subcoerulea*.

Should you collect in Upper Michigan, the rare *S. pellita* occurs in the river swamps. *S. planifolia* has been found among the rocks on the Minn. shore of Lake Superior. *S. subsericea* occurs in the Thumb.

In the swamps of Wisconsin and part of Mich. occurs a dwarf form of *S. discolor*, with low growth, small, oval, thickened and veiny blades. It may be merely the physiological response to swamp aridity. No one has collected the aments, probably because of water in the spring. Needs investigation.

Many thanks for the specimens. With personal regards to yourself and to Professor Mains.

Most cordially yours,

Carleton R. Ball

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RESEARCH ASSISTANT

December 7, 1934.

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

Dear Dr. Ball:

Thank you very much for determining my western willows. I am very glad to have them authentically named, and when I collect in the West again should be able to go at *Salix* more intelligently after studying these correctly-named specimens.

If you pick up many *Juncus* or *Cariceae* in your own collecting, and have not yourself given these genera particular attention, perhaps I can repay you by naming them for you.

I shall be on the watch for the more interesting willows of Michigan which you have kindly pointed out, and if I can locate any of them promise you more ample and better material than what I recently sent you from the West.

With best regards,

Very sincerely yours,
F. J. Hermann

January 7, 1937

Professor F. J. Hermann,
Botanical Garden, Univ. of
Michigan, Ann Arbor, Mich.

Dear Professor Hermann:

Your letter of December 28 and the packet of Canadian willows were promptly received but the holiday season, plus some difficulties in determinations, have delayed reply.

I have worked these over with much care but am not completely satisfied with the results yet.

The material with oblanceolate leaves which I have assigned to *S. brachycarpa* Sansoni is not typical but seems to belong there, nevertheless.

The specimens on which Schneider based his variety *antimima* of *Salix chlorolepis* seem to me to be doubtfully referred to that species but rather to *S. desertorum*, when we know what that was. However, I have called one specimen "*var. antimima*" as it matches his material.

One of the specimens (3634) was a mixture of two species. I am not quite sure about one of the collections of *S. cordifolia* Macounii but as it was sterile I did not separate the material. It is possible that those with broadly oval leaves represent the *var. typica* but the leaves were so small that I put them under the variety.

Some of this material was so critical that I did not return as much to you as I had expected to do. As it turned out, I think I have returned about half of the specimens. Both my herbarium and the National Herbarium lack much of the Lower Canadian material and it makes identification more difficult. That is my excuse for keeping so much of this.

The return packet goes forward by this mail and I hope it arrives safely. *(also 2 cop. of list)*
Just forget about the return postage.

I am interested in Farwell's collection of "*S. phyllcifolia*" in Houghton Co. This will be *S. planifolia* Pursh, or one of its varieties, as *S. phyllcifolia* is confined to the Old World. *S. planifolia* ranges from the Mts. of N.H. in a great circle across central Canada to the Rocky Mts. and south in them to New Mexico. It was collected by Minn. Univ. several years ago on the N. shore of Lake Superior in Minn. This is the only record for our No. Cent. States, previous to Farwell's specimen. If you have his, please send it down for a look over at some convenient time. I would like to be sure just what he had.

With best wishes for the New Year, I am

Most cordially,

Carleton R. Ball



THIS SIDE OF CARD IS FOR ADDRESS

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

Botanical Gardens
University of Michigan
Ann Arbor, Mich.
Dec. 26, 1937.

Dear Dr. Ball:

Among some specimens which I have just received in exchange from Prof. W. P. Fraser of the University of Saskatchewan were some thirty willows. These I believe are apt to be of more use to you than to me so I am sending them on to you for your herbarium. Prof. Fraser writes that he is uncertain about the specimens labelled E. Barclayi Roders; he thinks they may be nearer your E. pseudomonticola. If you can find an opportunity to send him the correct determination I believe he would be grateful for it.

Sincerely yours,
F. J. Hermann

Dr. F. J. Hermann, Botanist,
Plant Introduction Section, ARS.,
U.S. Dept. of Agriculture,
Beltsville, Maryland.

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

21 January, 1957.

Dear Dr. Herman:

I have received your letter of January 15 and thank you for the information given therein.

If the number of duplicates was so small, because of the conditions mentioned, it would seem probable that the specimens of the 5 *Salix* collections, of which you have duplicates, are likely to be better and more complete in the lot you sent me than in the duplicates you still have. Therefore, it would seem better that I transmit the entire 22 specimens to the U.S. National Herbarium. That will insure their having the most representative collection.

If you wish to give the 5 duplicates to some other institution, that will be OK with me. But if you wish me to have them, I will appreciate the favor, and you can send them to me or leave them for me with Dr. Swallen when you deposit the other material there.

I inclose a copy of the list of *Salix* collections, the full label data included my own information. copy

I thought I had them arranged in numerical order, but discovered that I had left No. 12693 in with the 13000s, and it will be found second from the end of the list on page 2. I regret this error.

By the way, you listed the 5 duplicates as Nos. 12404, 12873, 13160, 13189, and 13405. According to the labels, there is no No. ~~12404~~ 12404, but there is a No. 13404 with the same label data as 13405, as shown in the list inclosed.

I am sorry to have been delayed in the determination of these specimens and trust that it has not inconvenienced you in your work. I have enjoyed the study greatly, altho there were a few problems in final decisions.

Cordially yours,

Carleton R. Ball

Collaborator.

P. S. I expect to take the specimens to the National Herbarium on Wednesday or Thursday of this week.

UNEMPLOYMENT BENEFIT ADVISORS
FISCAL DATA FOR STATE UNEMPLOYMENT COMPENSATION SYSTEMS
1949 - 1948

STATE, DISTRICT OR TERRITORY	Collections in (000's)		Benefits in (000's)		Ratio of Benefits to Taxable Payroll		Reserve in (000's)		Ratio of Reserves to Taxable Payroll		Average Contri- bution Rate	
	1949	1948	1949	1948			Dec. 31 1949	Dec. 31 1948				
ALABAMA	11,884	11,459	19,323	7,945	2.2	0.9	56,415	62,566	6.6	6.9	1.1	1.1
ALASKA	1,364	1,574	2,578	1,409	3.1	1.4	10,335	11,323	12.3	11.3	1.4	1.7
ARIZONA	3,730	3,829	3,801	1,496	1.4	0.6	28,377	27,845	10.8	10.6	1.4	1.4
ARKANSAS	5,346	5,978	6,653	3,318	1.7	0.8	37,951	38,456	9.5	9.8	1.2	1.6
CALIFORNIA	117,398	116,063	253,084	146,528	3.9	2.3	591,309	713,350	9.0	11.0	1.8	1.7
COLORADO	3,940	6,917	3,575	1,195	.8	0.3	54,729	53,200	11.7	11.5	.6	1.5
CONNECTICUT	11,477	3,806	46,639	14,131	3.1	0.9	157,541	189,015	10.5	11.6	.7	.3
DELAWARE	1,446	1,304	2,346	854	1.1	0.4	14,546	15,126	6.6	7.1	.7	.6
DIST. OF COL.	2,929	2,249	3,922	3,001	.8	0.6	45,443	45,468	8.9	9.2	.6	.5
FLORIDA	7,704	7,939	11,121	6,713	1.3	0.8	71,821	73,716	8.7	9.0	.9	.9
GEORGIA	12,058	10,395	13,465	5,469	1.3	0.5	102,728	101,974	10.1	10.0	1.2	1.0
HAWAII	2,425	2,596	4,342	1,571	2.1	0.7	22,271	23,698	11.0	10.2	1.2	1.1
IDAHO	4,243	4,000	2,797	1,355	1.3	0.7	26,187	24,227	12.0	11.9	2.0	2.0
ILLINOIS	61,944	61,128	105,384	50,230	1.7	0.8	484,011	516,743	7.9	8.3	1.0	1.0
INDIANA	16,567	13,008	27,026	10,108	1.2	0.4	187,781	194,159	8.2	8.3	.7	.6
IOWA	10,556	9,872	5,312	2,597	.7	0.3	92,736	85,598	11.6	10.9	1.3	1.2
KANSAS	6,427	7,392	5,450	2,817	.9	0.5	64,350	62,022	11.0	11.4	1.0	1.4
KENTUCKY	14,395	14,074	15,415	4,878	1.8	0.6	117,874	116,411	13.7	13.9	1.6	1.5
LOUISIANA	16,197	16,467	18,117	6,374	1.9	0.7	99,717	99,471	10.3	10.8	1.6	1.8
MAINE	6,222	6,507	11,402	5,481	3.1	1.4	38,658	42,967	10.5	10.7	1.7	1.6
MARYLAND	14,307	14,709	29,838	10,130	2.4	0.8	116,344	129,243	9.3	10.2	1.1	1.2
MASSACHUSETTS	44,173	41,695	115,249	50,053	3.6	1.5	107,949	175,979	3.3	5.3	1.4	1.3
MICHIGAN	78,261	77,977	80,783	34,342	1.9	0.8	297,095	293,181	6.9	6.7	1.8	1.9
MINNESOTA	10,447	12,996	13,342	5,547	1.1	0.4	122,946	123,232	9.8	10.0	.5	1.1
MISSISSIPPI	4,154	7,352	6,380	2,618	2.0	0.8	43,052	44,341	13.8	14.1	1.3	2.0
MISSOURI	24,148	25,273	22,479	13,410	1.2	0.8	187,516	181,867	10.3	10.2	1.3	1.4
MONTANA	4,235	3,837	2,668	1,270	1.1	0.6	31,257	29,055	13.0	13.5	1.8	1.7
NEBRASKA	2,366	2,892	2,016	984	.5	0.3	34,854	33,774	9.5	9.6	.7	.6
NEVADA	1,533	1,663	2,163	1,133	2.3	1.2	13,190	13,545	13.9	14.0	1.6	1.7
NEW HAMPSHIRE	4,208	3,818	10,659	3,557	3.9	1.2	22,069	27,995	8.2	9.7	1.6	1.3
NEW JERSEY	35,510	81,490	87,390	47,693	2.7	1.4	427,806	470,175	13.1	14.0	1.1	1.7
NEW MEXICO	3,822	3,518	1,786	680	.8	0.4	21,450	18,981	10.1	9.9	1.8	1.8
NEW YORK	167,286	150,714	356,432	163,928	3.3	1.6	887,033	1,055,656	8.2	9.4	1.9	1.4
NORTH CAROLINA	17,601	20,667	19,470	6,826	1.6	0.5	154,107	152,662	12.7	11.9	1.4	1.6
NORTH DAKOTA	1,869	1,571	848	349	.8	0.4	9,637	8,425	9.0	9.2	1.7	1.7
OHIO	40,523	37,964	79,542	20,043	1.5	0.4	530,196	557,375	9.7	10.1	.7	.7
OKLAHOMA	8,024	7,408	7,987	4,098	1.2	0.7	47,963	46,909	7.2	7.7	1.2	1.2
OREGON	13,785	14,187	19,277	7,608	2.4	0.9	81,379	85,093	10.0	10.4	1.7	1.7
PENNSYLVANIA	62,751	61,550	140,505	45,973	2.0	0.6	574,070	638,928	8.1	8.5	.9	.9
RHODE ISLAND	8,285	8,063	31,396	14,259	6.3	2.5	24,983	47,363	5.0	8.4	1.8	1.4
SOUTH CAROLINA	7,089	7,701	12,052	3,907	2.0	0.6	50,077	53,918	8.2	8.9	1.1	1.2
SOUTH DAKOTA	1,153	1,115	649	285	.5	0.3	9,823	9,116	8.1	8.2	.9	1.1
TENNESSEE	12,995	14,792	23,459	10,956	2.4	1.1	96,874	105,208	9.8	10.1	1.3	1.4
TEXAS	26,436	25,169	11,918	4,845	.4	0.2	219,046	200,128	7.9	7.8	.9	.9
UTAH	3,302	3,203	5,194	2,764	1.8	1.0	32,400	33,592	11.0	12.0	1.1	1.1
VERMONT	1,728	2,206	3,908	1,328	3.0	0.9	14,880	16,719	11.5	11.6	1.3	1.5
VIRGINIA	7,783	8,255	14,025	5,029	1.3	0.5	79,776	84,294	7.5	8.1	.7	.7
WASHINGTON	33,643	23,789	35,031	18,412	2.6	1.4	150,768	148,950	11.2	11.2	2.7	1.9
WEST VIRGINIA	13,111	13,808	17,325	5,203	1.8	0.5	86,733	89,009	8.8	8.8	1.4	1.3
WISCONSIN	12,543	12,180	19,562	4,881	1.1	0.3	216,648	218,991	12.1	12.0	.7	.6
WYOMING	1,581	1,516	906	354	.6	0.3	12,884	11,945	9.1	9.3	1.1	1.2
TOTAL (ROUNDED)	886,905	999,635	1,735,992	789,935	2.2	1.0	7,009,586	7,602,964	8.9	9.5	1.3	1.2