



Hunt Institute for Botanical Documentation
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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.

January 24, 1944

Dear Mr. Ek:

I am sending you a carbon copy of the manuscript on our Shenk's woods work. You will note that it is written on "scratch" paper as we are doing all of our carbons now when they and only for safety purposes. After you get time to go over it I shall be glad for criticisms and corrections. I am not sending the graphs because they are too bulky.

We will publish this in the next issue of our Butler University Botanical Studies which will come out sometime this summer. Our teaching program is so heavy that we have little time or energy for outside things which this type of work must be in our program. The University authorities pat you on the back when you put out research but they unconsciously put almosy every conceaveable obstacle in your way for doing it.

I hope your condition has improved since you last wrote.

Sincerely yours,

CHARLES M. EK
1812 N. PURDUM STREET
KOKOMO, INDIANA

Jan. 26 - 1944.

Dear Dr. F. F. Fickner and Potzger! -

Read the big MS, yesterday and
at once gave it the once over. I
intend to go over it more carefully
and will then make some com-
ments - not corrections or criticisms.
I intended to send you a big en-
velope containing several of my
Bulletins - but on reading your nice
letter - saying you were very
busy - I concluded
that they would have found their
way to waste-basket. So I'll send
you only 1. In Fact, Better look one
well - than glance over a lot.

The last days of Dec. I read that
much talked-of book - "Under Cover".
It is very concrete, - and easy. It
simply exposes a lot of our Fascist
Crack-pot organizations. I know
much of them anyway.

2.

Dr. Dean has sent me 2 packages
of magazines lately I am well sup-
plied with Time - Nation, N. Rep. Sci-
ence - and others. I presume his eyes
are still bad. It always something to
take the joy out of old age. We
have to live on memories. I was
always interested in something - always
busy during idle moments when working.
That is - had a booklet, etc. in my
pocket - Every chance I got I read.
An old person with an empty
head is a pitiful sight. I am still
collecting in logs, swamps, vacant
lots - R.R. woods, fields, etc. (in my
mind - memory.) Though I read con-
tinuously (pp?) the memories of the
lost 10 years are the most pleasant.
I'll not go on. Best wishes. I know you
won't enjoy an Fast age tho. I'd make a good
Prof. of current events! Sincere wishes
Truly Yours. Chas. M. E. K.

CHARLES M. EK.
1812 N. PURDUM STREET
KOKOMO, INDIANA

Jan. 30, 1944.

Dear Dr. Potzger, Just the other day,
Dr. Dean sent me a big package
of mags. - among them Sci. Nation.
N. Rep. etc. - Most of the articles in
Science - under Discussion, appear-
ance - Special Articles - are beyond me.
I was glad to see your name to one
in Dec. 31, issue. I can guess you
wrote it and that you did the work.
I can only partly get it. Isn't that
Rivina misspelled? Should it be
Marchantia polymorpha - a
t for an l. I remember of working
with M. P. in 1897 - under Anders
who guessed at so many species!!
I am so glad to see your

2
name in Science. It is only
once in a while that a name
occurs that I recognize - and these
generally in death columns.
such as Andrews, Clark, Coulter,
Mottier, Rettger, etc.

In justice to you, you may as well
consider the Dr. Stone case
closed. I have never heard
a word. Mrs Stone used to
work in the War Dept. I never
knew her. She once wrote to
Dr. Friesner, inquiring
some of my financial dealings
with ~~with~~ the War Dept. They have not been
of a cordial nature.

3
The story is too long and ~~hard~~
so I'd like to relate. Any way, why
should I torment you with
such dribble? If you want a lot
of humor -- ~~an index~~ to our dern
cracy, - I could regale you.

I wish you well in all
your daily tasks. Thought
you could use clipping.

Sincerely yours,

Chas. M. Ek.

(over)

To Dr. Friesner

Dear Dr. Friesner!

I hope you got long - fine -
paper. May be you can in-
clude the 2 fine - perfect trees -
- Gymnocladus and A. Krav-
entium - in the plant
census. Of course - - -
You are the Doctor.

I listened to 2 entire Church
services, classical music - 2-3 -
new - not new - etc. - wrote
to Max - read a little & listen to
to Dr. John Holland, Dr. Ralph Lockman
and others - These are great - unlike
the 'Crackpot' ones.

Gray Herbarium



Harvard University

M. L. FERNALD, Director
Fisher Prof. Nat. Hist. (Bot.)
CHARLES A. WEATHERBY, Research Associate
FRANCIS WELLES HUNNEWELL, Research Associate
LYMAN B. SMITH, Junior Curator

RUTH D. SANDERSON, Librarian
MARJORIE W. STONE, Bibliographer
ROBERT C. FOSTER, Technical Assistant
BERNICE G. SCHUBERT, Technical Assistant
JAMES H. SOPER, Teaching Fellow
in charge of Laboratory

79 GARDEN STREET,
CAMBRIDGE, MASSACHUSETTS, U.S.A.

Feb. 8, 1944.

Prof. Ray C. Friesner,
Butler University,
Indianapolis, Indiana.

Dear Prof. Friesner:

It is most kind of you to let us have one of these two sheets of the Ruellia as type of the new variety. I am returning the other sheet with the new name entered upon it, this, of course, being an isotype.

The group has proved to be, as I anticipated, a very complex one and, most singularly, the few specific names of the past have been hopelessly misapplied to species far outside the range of the original descriptions. It almost looks as if no one in recent years had looked up the original accounts, but had tossed them into a hat and drawn them out without checking!

Again thanking you,

Sincerely yours,

M. L. Fernald

MLF/FMG

Have sheet is returned by express -

SAMUEL C. WADMOND
305 WASHINGTON
DELAVER, WISCONSIN

Feb. 21, 1944

Dr. Ray C. Friesner,
Butler University,
Indianapolis, Indiana

Dear Dr. Friesner:

I suspect you are considerably more interested in Solidagos than in Cyperaceae, but it occurred to me that you might have picked up some numbers in the latter group in the last year or two which I could use to fill in gaps in my holdings:

In CAREX I need the following:

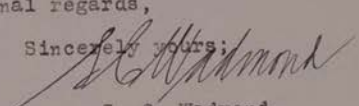
C. decomposita
crus-corvi
stenophylla
Garberi Fern. (C. bicolor of recent Am. authors not All.)
Halleri
Shortiana
assiniboinensis
typhina Michx. (C. typhinoideis Schwein.)
bromoides
Willdenowii
macrocolea
Hitchcockiana
suberecta
Leavenworthii

If you happen to have any of the above in your duplicate files, I would appreciate them and will try to reciprocate with things from this area.

I hope your Department is not being upset too greatly by war conditions: some of our Wisconsin privately endowed institutions are in for a pretty hard time, I fear. Beloit College, from which one of our daughters graduated, will - when the army pulls out - be reduced to about 300 women and 40 men - normal enrollment pretty close to 600, about equally divided between the two sexes.

With my kindest personal regards,

Sincerely yours,


S. C. Wadmond

VIRGINIA POLYTECHNIC INSTITUTE

DEPARTMENT OF BIOLOGY

BLACKSBURG, VIRGINIA

March 8, 1944

Dr. Ray C. Friesner
Department of Botany
Butler University
Indianapolis, Indiana

Dear Doctor Friesner:

Although we are complete strangers I am taking the liberty of seeking your willingness to check our named specimens of Virginia Solidagos, and later working over our unnamed specimens.

I hope that from this you might become interested in working up a report on the genus in Virginia as you have done with the West Virginia Solidagos.

As chairman of our committee on Virginia Flora I wish to secure the aid of specialists of certain groups.

Very truly yours,

A. B. Massey
A. B. Massey

ABM:HJ

P.S. If still available please send me a copy of your fern key for which I enclose stamps.

March 11, 1944

Dr. A. B. Massey
Virginia Polytechnic Institute
Blacksburg, Virginia

Dear Massey:

I shall appreciate very much the privilege of studying your material of the genus *Solidago*. There is a serious condition which I will need to attach, however, and that is that I will require more than the ordinary amount of time to complete the task because of the heavy load of teaching and committee work for which I am just now responsible.

I would be very glad to work up a report on the genus in Virginia provided I can get it finished in time to suit your needs. If the general plan followed in the West Virginia report suits your needs, I would be glad to follow it, or if you prefer some other plan I would glad to try to conform to any scheme you might wish.

Under separate cover I am sending you a copy of the fern key. In it you will note that I have followed the nomenclature of Brown who, I thought, had the approval of the Gray Herbarium before publishing. Since then, however, Weatherby and Fernald have both deviated from Brown's names. I use Wherry's little manual as text to accompany the key for my classes, but I do not accept all of his names. I hope the new Gray Manual will not be much longer delayed.

Sincerely yours.

VIRGINIA POLYTECHNIC INSTITUTE

DEPARTMENT OF BIOLOGY

BLACKSBURG, VIRGINIA

March 20, 1944

Dr. Ray C. Friesner, Professor
Department of Botany
Butler University
Indianapolis, Indiana

Dear Dr. Friesner:

It was a pleasure to learn from your letter of the 11th that you would be interested in working on our Virginia Solidago material. I did not have in mind any special time for completing the job. But, of course, would be interested in having it as early as practical. It would be my plan to send you labelled material which we have on hand and as soon as I can get to it, to go through my material which is still in the field press sheets, write up the notes properly, and send them to you. I believe, also, it would be well to plan to do at least one more seasons collecting since our collecting of Solidago material so far has been largely routine matter. Having the definite objective in mind of working them up in the near future, we will probably be stimulated into more careful collecting. After you have looked over material which I can send you this spring, we can then consider further the advisability of delaying the write-up of the work after next fall.

I am now in the midst of bringing together all of our data on the Pteridophytes. I hope that this will be out in the early summer. I am anxious to have a copy of your fern key and trust it will be coming in the near future.

Your interest and willingness to work on our material of the genus Solidago is greatly appreciated.

Sincerely yours,

A. B. Massey

AEM: lks

Do not know why my secretary uses the double title.
The fern key has come in since writing the above. I appreciate your generosity in sending it. I have
a key planned and started for our Virginia ferns. It is of the
dichotomous type. I find this the clearest system for beginners.
Whereas key is out of the question + Brax is difficult.

INDIANA UNIVERSITY
BLOOMINGTON, INDIANA

DEPARTMENT OF
BOTANY AND BACTERIOLOGY

March 22, 1944

Dr. R. C. Friesner
Botany Department
Butler University
Indianapolis, Indiana

Dear Dr. Friesner:

I am looking for an assistant to work with me on the cytogenetics of the evening primrose under the auspices of the Rockefeller Foundation. I will consider a woman, or a man who is likely to be deferred for the period of employment. I can employ this person on a half-time or a full-time basis for the months of July and August, 1944, and on a half-time basis for the period September 1, 1944 to July 1, 1945. The stipend will be as follows: for the period July 1 to August 31, \$350.00 for full-time work, with corresponding reduction for less than full time; for the period September 1 to July 1, \$900.00 for half-time work, for the full period. If the same person is employed for the full year, July 1 to July 1, a month's vacation will be allowed plus Thanksgiving, Christmas and New Year's Days.

A graduate student working half-time can carry eight to ten hours of graduate courses per semester. Fees for such courses have to be paid by the student. They amount, for two semesters, to about \$75.00, including medical and other contingent fees.

I should like to consider only superior students of excellent character, who will work conscientiously and independently. Some knowledge of cytology would be desirable, but intelligence and adaptability are more essential. The candidate must be able to satisfy the entrance requirements of the Graduate School of Indiana University.

If you have anyone to recommend, I would be glad to have your appraisal of this person and would appreciate it if you would have the candidate write me a letter of application.

Sincerely yours,

Ralph E. Cleland

Head of Department

REC:mjc

OREGON STATE COLLEGE

CORVALLIS, OREGON

LIBRARY

March 22, 1944

Butler University
Department of Botany
Indianapolis, Indiana

Dear Sir:

We received a complete file of Butler Botanical Studies from you recently. It seems there was some misunderstanding when Butler University was added to our exchange list in January 1944. We already had a complete file of the Botanical Studies and were receiving them currently. Probable you understood that we wished the back numbers as well as the current ones in exchange for the Oregon State College Monographs.

Since we already have on copy of the Botanical Studies, we would be willing to return them to you at our expense. However, if you do not care to have them returned, we will have them bound for our Botany department.

Yours very truly,

LUCY M. LEWIS, Director of libraries
by
Irene L. Craft
Serials department

THE NEW YORK BOTANICAL GARDEN

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TREASURER
ARTHUR M. ANDERSON

March 27th 1944.

Dr. Ray C. Friesner
Department of Botany
Butler University
Indianapolis, Indiana

Dear Dr. Friesner:

Thank you for the 53 herbarium specimens (in triplicate), referred to in your letter of March 20th. The specimens were received in good condition and, as usual, were excellently prepared.

Very truly yours,

B. A. Krukoff

B. A. Krukoff

JD/ga

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TREASURER
ARTHUR M. ANDERSON

March 28, 1944

Dr. Ray C. Friesner
Butler University
Indianapolis, Ind.

Dear Dr. Friesner:

We have received today the one package containing 86 unmounted sheets which you state in your letter of March 20 are being sent on a basis of exchange. We indeed thank you kindly for the material.

Sincerely yours

G. L. Wittrock

G. L. Wittrock
Custodian of the Herbarium



THIS SIDE OF CARD IS FOR ADDRESS

Prof. Ray C. Friesner,
Dept. of Botany,
Butler University,
Indianapolis,
Indiana.

GRAY HERBARIUM OF HARVARD UNIVERSITY

CAMBRIDGE, MASS., March 29, 1944.

Dear Prof. Friesner:

Thank you for the 96
herbarium specimens noted in your letter of
March 20. We have accessioned these in
continuation of exchange with Butler University.

Sincerely yours,

Lyman B. Smith.

Lyman B. Smith.

UNIVERSITY MUSEUMS
UNIVERSITY OF MICHIGAN
ANN ARBOR, MICHIGAN, U. S. A.

UNIVERSITY HERBARIUM

March 29, 1944

Professor Ray C. Friesner
Department of Botany
Butler University
Indianapolis, Indiana

Dear Professor Friesner:

We have received the package of 116
herbarium specimens. We are glad to have them
for our Herbarium. They have been credited to
your exchange account.

Yours truly

E. B. Mains
E. B. Mains
Director

April 3, 1944

Dr. Ralph E. Cleland
Head of Department of Botany
Indiana University
Bloomington, Indiana

Dear Sir:

Your letter of March 22 regarding your need of a graduate student for assistance in your work on cytogenetics is at hand.

I am very sorry that we do not have anyone whom we could recommend for this work. I greatly appreciate the fact that you have written me about the opening and hope that at some future time, we may be able to offer a candidate.

Very truly yours,

Ray C. Friesner

RCF:LW

April 3, 1944

Miss Lucy M. Lewis
Director of Libraries, Serial Department
Oregon State College
Corvallis, Oregon

Dear Miss Lewis:

I have your letter of March 22 regarding an extra set of the "Butler University Botanical Studies" which were sent you through a misunderstanding in exchange for the "Oregon State College Monographs".

We will be very glad to have you keep this extra set to be bound, as you suggest, for your botany department.

Very truly yours,

Ray C. Friesner

RCP:LW

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TREASURER
ARTHUR M. ANDERSON

April 5, 1944.

Dr. Ray C. Friesner,
Department of Botany,
Butler University,
Indianapolis, Indiana.

Dear Dr. Friesner:

I wish to again refer to your specimens that you so kindly sent to me recently.

In addition to a set which I am depositing here with the New York Botanical Garden, the other two sets were useful, inasmuch as I was able to distribute these to two of my correspondents who are usually very critical concerning the quality of specimens and labels.

Very truly yours,

B. A. Krukoff
B. A. Krukoff

BAK/ml

P. S. Under a separate cover, I am sending you two reprints, one entitled "A Revision of Couma and Parahancornia (Apocynaceae)" which was recently published in connection with a project on which we are cooperating with the Chicle Development Co., which is designed to evaluate the coagulated latices (gums) as produced by different species, and the other entitled "Studies in the Simaroubaceae, I, the Genus Castela", which is a by-product of our chemists' work on this family.

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TREASURER
ARTHUR M. ANDERSON

DIRECTOR
WILLIAM J. ROBBINS May 3, 1944.

Dr. Ray C. Friesner,
Dept. of Botany,
Butler University,
Indianapolis, Indiana.

Dear Dr. Friesner:

Under a separate cover we are sending you reprints of two papers entitled: "Pharmacologic Action of Erythrina Alkaloids" (1 and 11) recently published by Dr. Klaus Unna and his co-workers in connection with our project on paralyzing principles.

Reference is made to our previous correspondence with you in regard to the collection of plants for testing in connection with our work on anti-malarials and insecticides. We are here-with enclosing a list of the plants requested from you in the course of 1943, of which we would still like to receive samples. You will recall writing us that you would keep these plants in mind when collecting this year and obtain samples for us, if possible. We have also included on the enclosure two additional plants which we recently came across and for which we should also like to have samples for our testing, namely,

Hydrangea arborescens (Saxifrag.)
roots and stems, 1 lb.
few leaves as voucher for identification.

Melilotus officinalis (Legum.)
tops with flowers, 1 lb.

Please note that we are not in any particular hurry to receive any of the samples with the exception of Hydrangea arborescens, which we should like to have as soon as they are collected, as we have had some promising results with one of its relatives.

Very truly yours,

B. A. *K*
B. A. Zrukoff

JD/ml
Enc. (List)

May 11, 1944

Dr. B. A. Kruckoff
New York Botanical Garden
New York 58, New York

Dear Dr. Kruckoff:

I have your letter regarding collections of plants for your chemical investigations. I am sorry that the only one I can be certain to be able to send is Melilotus officinalis. All of the others occur in our general area but not near enough to secure without the use of my car. My gasoline allowance has been cut twice since last season and I shall be limited to very short trips or very few longer ones. I shall certainly ^{on} the lookout for the species on the list. I have an abundance of Lespedeza intermedia on my 30-acre research tract in Brown county (45 miles south) and if it is at all possible to visit it at the proper time, I should be able to send an abundance of this species. Hydrangea arborescens is also abundant in this Brown county area but here again it is almost outside my reach under the present restrictions on driving. At any rate, I shall do my best.

Sincerely,

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WILLIAM J. ROBBINS

TREASURER
ARTHUR M. ANDERSON

May 15, 1944

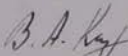
Dr. Ray C. Friesner
Department of Botany
Butler University
Indianapolis, Indiana

Dear Dr. Friesner:

I have your letter of May 11th and I note that you have the usual present difficulties in making trips because of gas allowance.

Enclosed herewith is a self-explanatory letter which probably will not serve its purpose with your Ration Board; however, at least on three occasions in three different states my correspondents were able to obtain extra gas by presenting this letter to the Board.

Very truly yours,



B. A. Krukoff

Bsk/Jd
Enc.

May 18, 1944

Ration Board 49-2
819 E. 63rd Street
Indianapolis, Indiana

Dear Sirs:

For several seasons I have been collecting Indiana plants as a part of a research project whose purpose is to discover new sources of insecticides. This work is carried on in the laboratories of Merck and Company as a part of a federally sponsored program. For the 1944 season my gas allowance is such that I am unable to make the trips necessary to secure the species of plants needed. I am writing to ask whether it would be possible for me to have an increase in gas allowance for the months of June thru October in order to collect this material.

I am enclosing a verification of my past work from Dr. B. A. Krukoff under whose direction I have been working. I am also enclosing a list of the plant species he needs with my notation as to where I would have to go to get them and when. From the summary you will see that it would take an addition of 250 miles per month for the 5 months to get all of the material he asks for. This work is entirely gratis on my part and in case you are unable to make the allowance of gas I shall merely be unable to make my usual contribution to this portion of the war effort. In case you cannot make the allowance, will you please return the list of materials in the enclosed envelope.

Sincerely yours,

Professor of Botany

THE NEW YORK BOTANICAL GARDEN

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TREASURER
ARTHUR M. ANDERSON

DIRECTOR
WILLIAM J. ROBBINS May 19, 1944.

Dr. R. Friesner,
Department of Botany,
Butler University,
Indianapolis, Indiana.

Dear Dr. Friesner:

Our chemists at Rahway report interesting results with four of your Indiana plants that were supplied by Mr. Ek. They would like to have additional samples for chemical testing. The plants to which I refer are listed below:

1. Echium vulgare (Boraginaceae)
Roots, 1 lb. or more.
Few leaves as voucher for identification.
2. Inula Helenium (Compositae)
Upper parts, 1 lb. or more.
Flowerheads, 1/4 lb. or more.
3. Uvularia grandiflora (Liliaceae)
Roots, 1/2 lb. or more.
Few leaves as voucher for identification.
4. Bicuculla cucullaria (Fumariaceae)
Leaves, 1 lb. or more.

We would be pleased to hear from you as to whether or not they are within your reach. The illness of Mr. Ek and curtailment of your trips certainly may affect our plans for evaluation of your Indiana Plants, which so far proceeded very satisfactorily. Lance

Very truly yours,

B. A. Krukoff
B. A. Krukoff

BAK/ml

June 5, 1944

Dear Dr. Krukoff:

I have delayed answer to your letter of May 19 regarding the collection of plant materials in order that I might check on some of them.

I find that it is too late to find the *Bicuculla* for this year because the topground parts have all disappeared. If it will do you any good, I can get them next year.

I will be able to supply the *Inula helenium* when it comes into the proper stage because there is a patch of it along the road on my way to work. I will not be able to secure the *Ovularia* unless I should chance by a patch whose location I am not aware of at present.

There used to be a colony of *Echium vulgare* along the New York Central railroad east of Indianapolis and I will visit it soon and see whether it is still there and whether there is enough of it to secure the material you need.

I have made application for additional gas on the strength of the letter you sent but so far have not had a reply.

Sincerely yours,

THE NEW YORK BOTANICAL GARDEN

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NEW YORK 58, N. Y.

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JOSEPH R. SWAN

VICE-PRESIDENTS
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DIRECTOR
WILLIAM J. ROBBINS

TREASURER
ARTHUR M. ANDERSON

June 8, 1944

Dr. R. Friesner
Department of Botany
Butler University
Indianapolis, Indiana

Dear Dr. Friesner:

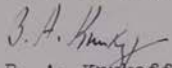
Acknowledgment is made of the receipt of your letter of June 5.

We note that it is too late to find Bicuculla this year, and we should be pleased to have a sample of it in 1945.

We note that you will be able to supply us with material of Inula helenium, and possibly Uvularis grandiflora and Echium vulgare. We shall await this material with interest.

Under a separate cover, we are sending you a reprint of a paper recently published entitled: "Studies in the Simaroubaceae--II. The Genus Simarouba" -- which is a by-product of our chemists' work with members of this family.

Very truly yours,



B. A. Krukoff

JD:hk

INDIANA UNIVERSITY
BLOOMINGTON, INDIANA

July 2, 1944.

Dear Friesner:

Two of my students, who are doing some work in taxonomy, would like to have copies of the supplementary lists of plant records published after the appearance of Deam's book. My supply of the reprints is about exhausted. One copy of each of the reprints to each of them will be sufficient.

They are

Mrs. Helen Zeiner,
3117 "N" Street,
Lincoln 8, Nebraska.

and

Miss Dorothy Sanders,
620 East Second Street,
Bloomington, Indiana.

Postage is enclosed.

Very sincerely,

Paul Weatherway

STATE OF INDIANA
DEPARTMENT OF CONSERVATION
INDIANAPOLIS

Commission
Ernest H. Atkins
J. I. Holcomb
Milton Matter
William W. Roth



Hugh A. Barnhart
Director

July 13, 1944

Professor Roy C. Friesner
Butler University
Indianapolis, Indiana

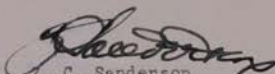
Dear Professor Friesner:

I have been referred to you by Dr. Stanley A. Cain relative to a matter that I have taken up with him.

I am preparing a new book on Spring Mill Park in which I cover the typography, geology, plant life, animal life, pioneer history, etc. Dr. Galloway of Indiana University has been kind enough to furnish the department with a chapter on geology. I would like to talk with you on the chapter on plant life.

In the report of the Indiana Academy of Science, Volume 41, Dr. Cain has written three excellent articles on ferns, shrubs, and trees with a special chapter on the virgin forest in Spring Mill Park. However, this material is too technical for the average reader, and I am wondering if I could call on you to talk over the possibility of the treatment of the same subject with you.

Sincerely,


L. C. Sanderson
Director of Research

ZCS/mm
enc. - 1

July 20, 1944

Dr. E. C. Sanderson
Director of Research
Indiana Department of Conservation
Indianapolis, Indiana

Dear Dr. Sanderson:

I have your letter of the 13th instant. I appreciate the honor your confer in asking me to prepare a chapter on plant life for your forthcoming volume on Spring Mill Park. I would be glad to do this but I believe Dr. John E. Potzger of our Botany Department would be able to give you a better write-up than I. I have mentioned this to him and he would be glad to do it if you care to have him.

Dr. Potzger is at Butler this summer and could be reached most any time between now and August 9th. I would be glad to act with him in a sort of advisory capacity but without recognition in the manuscript. He and I work together very closely in such a way regularly in our work.

Sincerely yours,

THE NEW YORK BOTANICAL GARDEN

BRONX PARK (FORDHAM BRANCH P. O.)
NEW YORK 58, N. Y.

PRESIDENT
JOSEPH R. SWAN

VICE-PRESIDENTS
HENRY DEB. BALDWIN
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DIRECTOR
WILLIAM J. ROBBINS

TREASURER
ARTHUR M. ANDERSON

July 20, 1944

Dr. R. Friesner
Department of Botany
Butler University
Indianapolis, Indiana

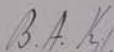
Dear Dr. Friesner:

Under a separate cover we are sending you a re-print of a paper recently published entitled: "Studies in the Simaroubaceae, III. The Genus Simaba", which is a by-product of our chemists' work with members of this family.

You will be interested to hear that our work on anti-malarials, insecticides and repellents is progressing satisfactorily, and we are looking forward with interest to the receipt of samples of some of the plants concerning which we have written you and which you have advised us we might expect from you during this collecting season.

We appreciate your willingness to cooperate with us in this matter, and we hope to receive samples of some plants from you in due time.

Very truly yours,



B. A. Krukoff

JD/hk

P.S. Since dictating the above, I attended a conference at Rahway. Apparently they have some interesting results with samples of two plants ~~of~~ which were sent to us by Mr. Ek. These are listed below. Kindly let me know at your convenience as to whether you are in a position to supply these to us.

Triostemum perfoliatum (Caprif.)
Roots, 1 lb. and few leaves as voucher.

Passiflora incarnata (Passiflor.)
Roots, 1 lb. and few leaves as voucher.

B. A. K.

July 31, 1944

Dr. B. A. Krukoff
New York Botanical Garden
Bronx Park, Fordham Station
New York 58, New York

Dear Dr. Krukoff:

Your letter of July 20 has just today reached me. *Passiflora* occurs in the state in any quantity in only one place and that is about 76 miles north of Indianapolis. I do not know whether it will be possible for me to make a trip there for this material but will add it to my list so that I will be sure to get it if opportunity offers. *Triosteum* in sufficient quantity to secure a pound of the roots is not available to my knowledge, but I will contact Mr. Ek and find out where he got it. In case it is possible from the standpoint of gas I will get it.

So far this season I have collected the following and can send them to you at any time or wait until the season is over. I case I do not hear from you I will hold them until the season is over and send all in one shipment. Species collected to date:

Melilotis officinalis
Parthenocissus quinquefolia
Inula helenium
Saururus cernuus
Cuscuta sp?

I plan a trip 50 miles south where I hope to secure *Lespedeza intermedia* and *Hydrangea arborescens* soon.

Sincerely yours,

August 7, 1944

Dr. M. L. Fernald
Gray Herbarium
Harvard University
Cambridge, Mass.

Dear Dr. Fernald:

On Saturday, August 5th, I visited the
an area north of Indianapolis where the specimens of the
its proposed new variety of *Ruellia* (*R. humilis* var.
frondosa Fern.) were collected just two years ago and
found it growing in great profusion and in a considerably
larger area than when first collected. I took 50 specimens
for you and will be glad to forward them when they are dry
in case you care for them for distribution.

In case you do not care for them, please do not bother
to reply.

Sincerely yours,

MISSOURI BOTANICAL GARDEN

ST. LOUIS

OFFICE OF THE DIRECTOR
2215 TOWER GROVE AVENUE

ARBORETUM, GRAY SUMMIT, MO.
REPRESENTATIVE IN TROPICS:
BALBOA, C. Z.
REPRESENTATIVE IN EUROPE:
HOVE, SUSSEX, ENGLAND

August 8, 1944

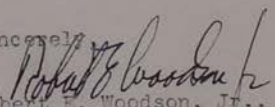
Dear Dr. Friesner:

I have been studying the genus *Asclepias* for ten years with an eye toward a revision of the species, but recently have become sidetracked on some very interesting problems in geographical variation in the genus. My botanical contacts in Indiana are very meagre indeed, so I am writing rather anxiously to see whether you can give me some help.

My chief trouble is with the common *Asclepias tuberosa*. Does this plant grow at a convenient place in your neighborhood, or do you know of someone else who could get to it easily? What I want is a "mass collection" or so of leaves, which in this case means merely one leaf taken from about the middle of the stem of any plants available, pressed flat, say in a notebook, and simply mailed to me in an ordinary envelope.

Of course I would much prefer to do my own work, but this year I am not able to do any extensive field work, for obvious reasons, and am having to beg for help from others. I do not want to inconvenience you in my behalf, but if, on the other hand, you can help me, I will surely appreciate it.

Sincerely,


Robert E. Woodson, Jr.,
Assistant Curator of Herbarium

August 10, 1944

Dear Jake and Ella:

I am sorry to have delayed so long in answering your letter regarding flowers native to certain foreign countries. Your letter caught me in the midst of final examinations for our summer session and not until yesterday did I find time to work on your question. There is no official list available to my knowledge but I have taken a few of our common flowers and looked up the native country from which they have come. Some of them have come from a number of countries and hence the countries which I have listed are not the only ones from which they come. It is an interesting fact that more of our cultivated flowers and shrubs and native to China and Japan than to any other one area. The following list is very incomplete and if you will make up a list of additional flowers or shrubs whose native country you would like to know, I will be glad to get the information for you.

England:	Carnation	Scotland:	Heather
Ireland:	Shamrock	Holland:	Tulip
Belgium:	Peppy	France:	Anemone, Mistletoe
Spain:	Crocus	Italy:	Olive
Germany:	Common Cornflower	Switzerland:	Idleweiss
Greece:	Narcissus, Anemone, Stocks		
Bulgaria:	Ragged Robin	Poland:	Violet, Pansy
Russia:	Tamarisk		
Indiana:	Mahonia, Golden Shower		
Mexico:	Zinnia, Cosmos	Australia:	Eucalyptus
Japan:	Honeysuckle, Morning Glory, Bleeding Heart, Lotus		
China:	Aster, Magnolia, Wax Myrtle		
Africa:	Forget-me-not, Coleus, Marigold		
Transvaal (Africa):	Clematis		
Bolivia:	Fringed Campion	Chile:	Calceolaria
Brazil:	Canna	Argentina:	Golden Senna
Ecuador:	Orchid	Peru:	Night-blooming Cereus
Turkey:	Bellflower	Armenia:	Blueets
Persia:	Larkspur	Morocco:	Chrysanthemum
Sicily:	Sweet-Pea	E. Indies:	Job's Tears

I hope this finds you both well. I have not heard from John recently but I presume he is well and happy in his work.

August 12, 1944

Dr. Robert E. Woodson Jr.
Assistant Curator of the Herbarium
Missouri Botanical Garden
St. Louis, Missouri

Dear Dr. Woodson:

Your letter regarding collection of material for study of Asclepias tuberosa is at hand. This species is very infrequent in the middle of the state and is abundant only in the sandy areas of the northern part. The nearest area of any abundance that I know is about 70 miles northwest. The gas situation is such that I am not able to get far from home.

In case I should run across any specimens of this species, I shall be very glad to collect the material which you request.

Sincerely yours,

August 18, 1944

Dr. Erdman West
Curator of the Herbarium
Agric. Exp. Station
Gainesville, Florida

Dear Dr. West:

Dr. Eleanor Scull has just paid us a visit and has asked me to write to tell you that she is ready to have the plants which she has left with your herbarium shipped to her at Butler University Herbarium.

You may ship them express collect and address them merely to Butler University Herbarium, Butler University, Indianapolis, Indiana.

Sincerely yours,

Butler University

INDIANAPOLIS, INDIANA

MAURICE O. ROSS, PRESIDENT

DEPARTMENT OF BOTANY

RAY C. FRIESNER, PROFESSOR

JOHN E. POTZGER, ASSOCIATE PROFESSOR

C. MERVIN PALMER, ASSOCIATE PROFESSOR

MADEL M. ESTEN, LECTURER EVENING DIVISION

CHARLOTTE L. GRANT, LECTURER EVENING DIVISION

THE HERBARIUM

RAY C. FRIESNER, CURATOR

C. M. PALMER, PHYCOLOGY

J. E. POTZGER, AGROSTOLOGY

C. M. EK, CARICES

W. A. DAILY, PHYCOLOGY

FAY N. DAILY, PHYCOLOGY

WILLIAM HOMEIER, ASSISTANT

Monday 3:30 pm

Dear Joe:

We have exhausted the possibilities we can think of here. Our people all seem to be placed under circumstance where they cannot change now. We have one unusual promise due to graduate in 1945 but that does not help any now.

Gray Herbarium



Harvard University

M. L. FERNALD, Director

Fisher Prof. Nat. Hist. (Bot.)

CHARLES A. WEATHERBY, Research Associate

FRANCIS WELLES HUNNEWELL, Research Associate

LYMAN B. SMITH, Curator

RUTH D. SANDERSON, Librarian

MARJORIE W. STONE, Bibliographer

ROBERT C. FOSTER, Technical Assistant

BERNICE G. SCHUBERT, Technical Assistant

79 GARDEN STREET,
CAMBRIDGE 38, MASSACHUSETTS, U.S.A.
August 21, 1944.

Professor Ray C. Friesner,
Department of Botany,
Butler University,
Indianapolis,
Indiana.

Dear Dr. Friesner:

It is most kind of you to secure the fifty sheets of topotype material of *Ruellia humilis*, var. *frondosa* and we shall certainly be glad to distribute it in our exchanges. It is a very characteristic and well-marked variety. With the present restrictions on publication and the difficulty of meeting the expenses of illustration it will be early in the next year before I can publish the monograph of *Ruellia* which has a great many half-tone illustrations.

Thank you for your kindness in getting the material.

Sincerely yours,

M. L. Fernald

M. L. Fernald
Director

MLF:S

ORLAND E. WHITE, DIRECTOR
MAIL ADDRESS APRIL 1 TO AUGUST 15
BOYCE, VA., AUGUST 15 TO APRIL 1,
BIOLOGICAL BUILDING
UNIVERSITY, VIRGINIA

"THE BLANDY EXPERIMENTAL FARM"
UNIVERSITY OF VIRGINIA
BOYCE, VIRGINIA

R. E. ANTRIM, MANAGER
ALL BILLS SHOULD BE
SENT TO THE MANAGER
AT THE FARM
ADDRESS

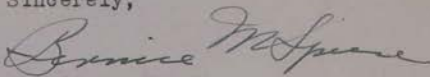
August 21, 1944

Dr. R. C. Friesner
Department of Biology
Butler University
Indianapolis, Indiana

Dear Doctor Friesner:

I should appreciate very much having a
reprint of your publication: Indiana plant distribution
records. lll. 1942. Proc. Indiana Acad. Sci. 52: 97-
108. 1942.

Sincerely,


Bernice M. Speese

The Blandy Experimental Farm
Boyce, Virginia



MUSÉE

SECRÉTARIAT DE LA PROVINCE
QUÉBEC

Quebec, August, 28, 1944.

Butler University Press.,
Indianapolis, Indiana, U.S.A.

Gentlemen:-

I have noted a report issued by
your University about Solidago in your Vol.
3 No. 1, 1933.

A copy for our reference files would
be much appreciated; would you kindly let me
have a copy and the price for it.

A complete list of your publications
will be welcome.

Very truly yours,

Rolland Dumas
Rolland Dumas L.Sc.N.,
Musée de la Province
Québec, Qué. Canada.

Send Vol 3 #1

6 #1

On the cover pages of these a complete list

August 29, 1944

Miss Crystal L. Rork
Associate Professor of Botany
Houghton College
Houghton, New York

Dear Miss Rork:

Your letter regarding specimens of Gentiana
puberula is at hand. I am sending you five specimens of
my No. 17519 and two specimens of my No. 17507. The for-
mer were collected in the same area from which the cyto-
logical material was sent to you last year. The latter
were collected in an adjoining county but under quite
similar soil conditions. We have other specimens of
this species from other states but this is all we have
from Indiana. I shall be glad to have you place any
annotations you may care to make directly on the sheets.
I believe we have a considerable amount of duplicate
material of these collections from Indiana and I would
be glad to send you specimens for your own herbarium in
case you care to have them.

Very truly yours,

Ray G. Friesner

RCF:LW

September 5, 1944

Dr. M. L. Fernald
Gray Herbarium
Harvard University
Cambridge, Massachusetts

Dear Dr. Fernald:

Under separate cover, I am sending you sixty specimens of *Ruellia humilis* v. *frondosa* Fern. I am hoping that out of the lot you can find fifty sheets that will be worthy of your consideration.

Very truly yours,

Ray C. Friesner

RCF:LW

September 6, 1944

Dr. Harold F. Moldenke
Box 240
North Warren, Pennsylvania

Dear Dr. Moldenke:

I am sending you a package containing a few specimens of Verbena for which I would be please to have your determination. All of these specimens were collected in marly-peaty soil, locally known as Carlisle Muck. They were collected along a drainage ditch 0.8 miles east of Maxwell in Hancock County, Indiana. No. 18613 is probably V. hastata and No. 18618 is probably V. urticaefolia. No. 18620 has blue flowers and I have considered it to be the hybrid, X. V. engelmannii Moldenke. No. 18619 is similar to No. 18620 except that the flowers are pink in color and somewhat distant in their distribution on the branches of the inflorescence. I am wondering whether No. 18619 might be the F-2 segregates of No. 18620. All four of these specimens were collected within 30 feet distance along the bank of the drainage ditch.

A week or so ago Mr. Charles Deam sent me the list of county records for Verbena species for inclusion in our Indiana Plant Distribution Records. I notice two species new to the state in the list, namely, V. illicitae Moldenke and V. rydbergii Moldenke. It is our custom in reporting species new for the state to give the citation for the original description of the species. I shall appreciate it very much if you could give me the references for these two species.

The species which I am sending to you need not be returned.

Very truly yours,

Ray C. Friesner

RCF:LW

September 8, 1944

Dr. S. F. Blake
U. S. National Herbarium
Smithsonian Institute
Washington, D. C.

Dear Dr. Blake:

Last Saturday we located an unusually large and excellent colony of Solidago deamii Blake in Randolph County, Indiana. Since there are very few known locations for this interesting species, I thought you might be interested in receiving one or more specimens from this location for your herbarium. I collected about 40 specimens and can therefore supply you with as many as you might care for. I shall be glad to send them upon receipt of information from you.

Very truly yours,

Ray C. Friesner

RCF:LW

Box 240, North Warren, Pa.
September 8, 1944

Dr. Ray C. Friesner,
Department of Botany,
Butler University,
Indianapolis, Ind.

Dear Dr. Friesner:

Your very kind and interesting letter of the 6th reached me today. The parcel has not arrived yet, but when it does I shall be delighted to examine the specimens and report my determinations to you. Thank you so much for saying that we may keep the specimens for the New York Botanical Garden herbarium.

Being away from any botanical library here, I am not able to give you offhand the citations for the original descriptions of my two new hybrid names, x Verbena illicita and x V. Rydbergii. The former is the natural hybrid between V. stricta and V. urticifolia and the latter is the natural hybrid between V. stricta and V. hastata. However, I am writing to my office in New York tonight and am asking that this information be sent to me. I'll forward it to you just as soon as I receive it. I think both were published by me in the REVISTA SUDAMERICANA DE BOTANICA around the year 1940.

On my recent furlough I looked up the Indiana records which Deam said were new for your list. He stated that he wanted the names of the herbaria in which each was deposited. I found the information for all save one, the Lake County record of V. bracteata, but I'll continue to search through my notes for this on subsequent furloughs. You can understand that since my things are all packed up in trunks and boxes for the duration, it is difficult to lay one's hands on just the right note-book or record when it is wanted. I'll do the best I can for you, though. One of the records I gave him was an error - I cited V. illicita from Tippecanoe County on page 6 of my "The Known Geographic Distribution of the Members of the Verbenaceae and Avicenniaceae" (see enclosed circular), but see now that this was a mistake for Lafayette County. It seems I read the label as "Lafayette" (in Tippecanoe County according to the Postal Guide) instead of "Lafayette Co." which it actually is. I'll correct this in the supplement to my Geog. Distrib. soon to be published in the BOTANICAL GAZETTE.

By the way, though I've examined and annotated over 75,000 specimens of these families and Eriocaulaceae from 143 herbaria, I find that I've not as yet examined your herbarium material of these groups. Would you be willing to send it to me on loan to this address for such study and annotation? I would take the best care of it, annotate every specimen, cite all specimens in forthcoming monographs or their supplements, and return all material to you promptly. Dr. Yuncker has just sent me all the DePauw University material and it was a pleasure to go over it all. It added a number of records to my lists.

Would you please call the attention of your librarian to the enclosed circular?
With kindest regards and all best wishes, I beg to remain,
very sincerely yours,

Harold N. Moldenke

Center of XI Ranch
pasture.

(*Solidago trinervata* Greene)?

Duplicate

Specimen No. 44-171

Name

Post Office Plains

Distance from P. O. - N. E. S. W.

Habitat: Creek, Pond, River, Flood land, Valley, Slope, N., E., S., W., Cliff N., E., S., W. Fixed dune

Moving dune, Grassland, Thicket, Forest undergrowth, Forest, Swamp, Hydrophytic,
Mesophytic, Xerophytic, Halophytic.

Soil: Sand, Rocky, Gravel, Clay, Loam, Calcareous, Saline.

Soil Moisture: Wet, Intermediate, Dry

Prevalence: Scattering, Common, Prevalent,

Introduced, Escaped Native,

Color of Flower:

yellow

Past, Present, Future.

Notes:

About 8 inches high.
Growing in dense mats
Found in several places.

Center of XI Ranch pasture

Specimen No. 44-172

Name

(*Solidago mollis* Barth.)?

Post Office

Plains

Distance from P. O. - N. E. S. W.

Habitat: Creek, Pond, River, Flood land, Valley, Slope, N., E., S., W., Cliff N., E., S., W. Fixed dune

Moving dune, Grassland, Thicket, Forest undergrowth, Forest, Swamp, Hydrophytic,
Mesophytic, Xerophytic, Halophytic.

Soil: Sand, Rocky, Gravel, Clay, Loam, Calcareous, Saline.

Soil Moisture: Wet, Intermediate, Dry

Prevalence: Scattering, Common, Prevalent,

Introduced, Escaped Native,

Color of Flower:

yellow

Past, Present, Future.

Notes:

About 14 inches high.
Clare, but not dense, colonies.
Found in similar places over county.

Dup.

September 11, 1944

Dr. Harold F. Moldenke
Box 240
North Warren, Pennsylvania

Dear Dr. Moldenke:

Thank you for your letter of September 8th. I shall be very glad to send you all of our material on the Verbenaceae and the Ericaceae for your identification and annotation. Just now we are in the work of registration and it may be a few days before I can get the specimens ready.

Your "mistake" with regard to Tippecanoe County is not a mistake at all. Lafayette is the county seat of Tippecanoe county, hence your first citation is correct and I am sorry to put you to so much trouble regarding the references for the new species and for the herbaria where the new county records are located but this information makes our annual report so much more valuable that we like to have it if at all possible.

Very truly yours,

Ray C. Friesner

RCF:LW

Box 240, North Warren, Pa.
September 12, 1944

Dr. Ray C. Friesner,
Department of Botany,
Butler University,
Indianapolis, Ind.

Dear Dr. Friesner:

The parcel of unmounted verbena specimens reached me yesterday and I have examined the material with great interest. Thank you so much for letting me retain it for the Britton Herbarium.

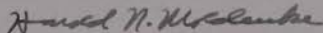
I agree with you as to the determinations:

- 18613 -- *Verbena hastata* L.
- 18618 -- *Verbena urticifolia* L.
- 18619 -- x*Verbena Engelmannii* Moldenke
- 18620 -- x*Verbena Engelmannii* Moldenke

It is my opinion that you are correct in your assumption that 18620 is probably the F_1 generation of the hybrid and 18619 the F_2 . One would naturally expect a sorting out of characters in the generations succeeding the F_1 - some of the progeny probably would pass for *V. hastata*, some for *V. urticifolia*, while the majority would exhibit all manner of intermediate characters. I use the name x*Verbena Engelmannii* both for the F_1 specimens and the various intermediate forms in all succeeding generations. It is my opinion that the system of using a binomial name to designate hybrids is chiefly a matter of convenience in referring to them. Such hybrid names are of most use if they include all the intermediate forms derived from any cross between two given parent species. DeCandolle, Engelmann, and others, you know, felt that a differentiation should be made nomenclaturally between the progeny of *V. hastata* (male) x *V. urticifolia* (female) -- for instance -- and those of *V. urticifolia* (male) x *V. hastata* (female). To my way of thinking this is not necessary or even desirable and I use such names for hybrids to include all intermediates which cannot be easily placed with either parent species. Bailey has the same idea when he proposes names like x*Gладиолус hortulanus* to include all the cultivated hybrid glads, x*Delphinium cultorum* for "the florists or garden larkspurs that cannot be readily referred to botanical species", etc. I think this system should be extended to all groups where there are so many hybrids, especially in cultivated genera like *Dahlia*, *Chrysanthemum*, *Rosa*, etc., etc.

It was very kind of you to send me these interesting specimens and we are happy to have them for our herbarium. I hope you will be willing to let me study all of your herbarium material on these groups on loan while I have the time.

With kindest regards and all best wishes, I beg to remain,
very sincerely yours,


Harold N. Moldenke

September 13, 1944

Dr. Rolland Demais L. Sc. N.
Musée de la Provence
Quebec, Que., Canada

Dear Sir:

I am pleased to send you under separate cover volume 3, no. 1 and volume 6, no. 1 of our Butler University Botanical Studies. The former number is the monograph on Solidago for which you asked. This number together with the latter will give you, on the cover pages, a complete list of our botanical publications.

We would be pleased to furnish you, gratis, a complete set of this series and to place you Museum on our mailing list for future numbers as issued.

We would be pleased to receive any publications you might have for exchange.

The closing numbers of volume 6 are now in press and are expected at any time.

Sincerely yours,

Ray C. Friesner

THE UNIVERSITY OF TEXAS
AUSTIN 12

DEPARTMENT OF BOTANY AND BACTERIOLOGY

September 14, 1944

Dr. Ray C. Freisner
Butler University
Butler, Indiana

Dear Dr. Freisner:

We should like to increase our specimens from your area as fast as possible and I am hoping that we will be able to open an exchange with you.

We would have only approximately one hundred specimens per year to exchange. If the opening of such an exchange is satisfactory with you I will forward by prepaid express a bundle of forty-four specimens which I now have on hand.

Sincerely yours,

Fred A. Barkley

Fred A. Barkley,
Assistant in the Herbarium
Instructor in Botany

FAB:mjb

Houghton College

Department of Biology
Houghton, New York

September 15, 1944

Prof. R. C. Friesner,
Dept. of Botany
Butler University
Indianapolis, Indiana.

Dear Prof. Friesner,

The seven herbarium specimens of Gentiana
puberula arrived on September 11th. I thank
you very much for them. It may be several
weeks before I return them as it is necessary
to send them to Dr. Clausen in Cornell. I should
be greatly pleased, if, as you suggest, you
would keep the specimens for my own herbarium.
I am enclosing stamps to reimburse you
for the postage of the package received Sept. 11th.
I thank you for your kindness.

Most sincerely yours.

(Miss) Loretta E. Rock.

Assoc. Prof. of Botany.

2817-1st Rd. N.

Arlington Va.

15 Sept. 1944

Dear Prof. Friesner:

I should certainly appreciate a good spec. of *Solidago leamii* for my own herbarium, & also another to turn into the herb. of the Nat. Arboretum at Beltsville. We have an office rule (quite a proper one) that material sent to a botanist at the

office is office property, but if you
can spare 2 and will send them
to my home address I shall be able to
turn one in to the office & also
keep one myself.

Sincerely

L. F. Blake

Rimouski, September 18, 1944

Dr. Ray C. Friesner
Butler University
Indianapolis, Indiana
U.S.A.

Dear Dr. Friesner:

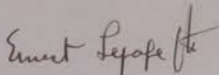
The reading of your papers on Golden Rods
has made me acquainted with your science on this genus.
Are-you ago interested in this group of vascular plants?

This summer, with Father A. Dutilly, Naturalist
of the Arctics regions, I have taken a long trip along the East
coast of James Bay and Hudson Bay, inspecting mostly the estuaries
of rivers (Moose, Rupert, Eastmain, Old Factory, Fort-George,
Great Whale, Little Whale), from the extreme South till the Richmond
Gulf (Lat. 56° N.) and I have collected some Golden Rods, in August
and early in September.

Could I send you my lot to be identified?

Hoping to hear from you soon,

Yours very truly



Ernest Lepage ptre

Ecole D'Agriculture
Rimouski, Québec, Canada

September 19, 1944

Dear Dr. Moldenke:

Yesterday I sent to you via parcels post our herbarium material of Verbenaceae, Avicenniaceae and Eriocaulaceae. It is certainly a privilege on our part to have all these specimens gone over by you. We will appreciate it if you will return them to us by express collect, or if this is not convenient, if you will let us know we will forward postage to return them parcels post,.

I am also grateful to you for the references for V. illicita and V. rydbergii which came a few days ago.

You have a number of references to the Britton herbarium. Are these plants a part of the herbarium of the New York Botanical Garden, or is the Britton herbarium a separate herbarium. We have been citing all material in each herbarium by the over-all name rather than by unit names and I would like to have the citation of the herbarium for these specimens in our next annual report according to our general plan. For your convenience in replying I am enclosing the accompanying card.

Sincerely yours,

September 19, 1944

Dr. Fred A. Barkley
The Herbarium
University of Texas
Austin, Texas

Dear Dr. Barkley:

In 1935 and 1936 we maintained exchange relations with your herbarium and I am happy to resume these relations. I have kept a list of the plants we have sent to your herbarium and can, therefore resume the exchange relations without duplicating the species.

As soon as I can find the time I will go over our duplicate material and send you all the species I can which do not duplicate those already sent. Since the collecting season is nearly over for us, I may not be able to send so many this year, but I will be on the alert next year for all non-duplicating species I run across.

We will, of course, be glad to get your material whenever you find it convenient to send it.

Sincerely yours,

Ray C. Friesner

THIS SIDE OF CARD IS FOR ADDRESS



Dr. Ray C. Friesner,
Department of Botany,
Butler University,
Indianapolis 7, Indiana

Box 240, North Warren, Pa., Sept. 21, 1944

Dear Dr. Friesner:

Thank you so much for your two letters, received today. Thanks also for your order of my three booklets. They will be sent to you from New York by my wife in a few days, with an invoice.

I returned your card. The Britton Herbarium is the official name for the phanerogamic herbarium of the N.Y.Bot.Gard., named in Dr. Britton's honor after he died. The Garden's fern collection is the L.M.Underwood Herbarium, the moss collection is the E.G.Britton Herbarium - named after the people who were in major part responsible for building up these collections.

When your specimens come I'll start work on them once. I still have 275 sheets here from U.of Ill., but expect to return these to Dr. Jones in a day or two, so the decks will be cleared for your material.

With all best wishes, I am,
very sincerely yours,

Harold N. MacDougal

September 22, 1944

Dr. Ernest Lepage ptr
Ecole D'Agriculture
Rimouski, Quebec, Canada

Dear Dr. Lepage:

I have your letter of September 18th regarding determination of Golden Rod specimens collected along James Bay and Hudson Bay. I shall be very glad to study these specimens and give you my best judgment regarding them. I have had no experience with such far north material and therefore will be doubly pleased for the privilege of studying it.

I would be pleased also, in case you have duplicates which you might spare, to have some of them for our herbarium.

Very truly yours,

Ray C. Friesner

RCF:LW

September 22, 1944

Miss Crystal L. Rork
Associate Professor of Botany
Houghton College
Houghton, New York

Dear Miss Rork:

Your letter of September 15th is at hand. It will be quite all right in so far as we are concerned for you to keep the specimens of Gentiana puberula as long as you may need them. As soon as I can find the time, I will go through our duplicate material and hunt out some specimens to send for your herbarium.

Very truly yours,

Ray C. Friesner

RCF:LN

September 22, 1944

Dr. S. F. Blake
2817 1st Street, N.
Arlington, Virginia

Dear Dr. Blake:

I am sorry that I made a mistake in my recent letter regarding herbarium specimens of Solidago deamii. This should have been Rudbeckia deamii. I am taking the liberty of sending you two specimens even though they are not of the genus you are expecting in the light of my letter.

I thought that since R. deamii is known in so few places that, even though you might have specimens inasmuch as you named it, you might wish additional ones from new localities. In case you do not care for these specimens, you may merely discard them since I have a considerable number of duplicates.

Very truly yours,

Ray C. Friesner

RCF:LW

THIS SIDE OF CARD IS FOR ADDRESS

Dr. Ray C. Friesen

Department of Botany,

Butler University,

Indianapolis, Indiana



Box 240, North Warren, Pa., Sept. 22, 1944

Dear Dr. Friesner:

Just a line to tell you that the three boxes of specimens arrived today in good condition. I shall begin work on them tonight and return all to you as quickly as possible. It is fine material and I'm sure will give me a number of new county and other records. I'm glad to see that you even have material from outside of the USA. That is fine. You included two specimens of Xyris. I am not expert on the Xyridaceae, so will return those unannotated.

With kindest regards and all best wishes, I beg to remain,

very sincerely yours,

Harold N. McClancke

Box 240, North Warren, Pa.
September 24, 1944

Dr. Ray C. Friesner,
Department of Botany,
Butler University,
Indianapolis, Ind.

Dear Dr. Friesner:

I am returning to you in the same three boxes in which they arrived, 359 sheets of the material recently sent by you on loan. You'll find each specimen annotated with my usual printed annotation labels. Each will be cited in my forthcoming generic monographs or their supplements.

The remaining 9 sheets are too complex for me to identify here, so I am taking the liberty of retaining these longer than the rest. I'll take them with me to the New York Botanical Garden on my next furlough (probably first week in December), will work on them there in our big herbarium where I can compare them with authentic material, and they will then be returned to you direct from the New York Botanical Garden. I hope that this is satisfactory to you.

Please accept my most sincere thanks for your kindness in letting me see this fine material, which has given me a number of new records. The boxes are being returned, as you suggested, by express collect. I would have preferred to return them in fresh boxes, since the ones they came in looked as though they had seen perhaps a little too much service already, but I just have no other packing materials available to me here, so had to return the materials in the same boxes in which they came. I hope they arrive safely. I made no effort to place the sheets in the same manila covers in which they were since you will have to re-shuffle the material anyhow because of numerous changes in identification. So I just placed three to five sheets in each cover regardless of the species involved.

I notice numerous specimens from various parts of the United States collected by a "Wm. Rhodes" and others by a "William Rhodes" and others by a "W. H. Rhodes". They look like they were all collected by the same man, since various features of the data on the labels are strikingly similar. If this is all one collector, what is the correct spelling of his surname and what are his two given names?

One of the specimens collected by yourself in 1925 says it came from "Pleasant Run and Brookville Rd." - in what county is this? The plant is Verbena stricta. Another one, also collected by yourself, is from "just west of I.N.G. camp, Shakamak State Park" -- in what county is this place? The plant is Phyla lanceolata.

With kindest regards and all best wishes, and, again, my sincere thanks for letting me see your splendid material, I beg to remain,
very sincerely yours,

Harold N. Moldenke

September 28, 1944

Dear Dr. Moldenke:

Your letter of the 24th is at hand and I will answer at once even though the plants have not yet reached us.

It is quite all right with us for you to keep the 9 plants as long as you may need to. It is a real privilege to have all of these specimens authoritatively annotated and we appreciate it very much.

Probably the best citation of the the Rhoades specimens is by referring all of them to William Rhoades. He was a character amongst us at Indianapolis. A highly intelligent but greatly misfit and misunderstood individual. He travelled all over the United States and much of Canada on a motorcycle and slept by the roadside or wherever he happened to be. His botanical collections were not specially good because of the handicaps under which he worked. He probably never determined any of them. Rather, he would take them to the nearest professor of botany and get him to name them, often probably hastily and superficially. All of the labels with the various modifications of the name should be credited to the same person.

Regarding the locations of the specimens collected by me: Pleasant Run and Brookville Road is in Indianapolis (Marion Co.) Shaakamak Park is in the corner of three counties but the exact location to which the specimen of *Phylla lanceolata* should be referred is in Clay county.

Again expressing my appreciation for your study of these specimens, I remain

Sincerely yours,

THE NEW YORK BOTANICAL GARDEN

BRONX PARK (FORDHAM BRANCH P. O.)
NEW YORK 58, N. Y.

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JOSEPH R. SWAN

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HENRY DEB. BALDWIN
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TREASURER
ARTHUR M. ANDERSON

September 28, 1944

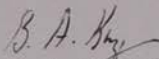
Dr. R. Friesner
Department of Botany
Butler University
Indianapolis, Indiana

Dear Dr. Friesner:

The collecting season is almost over and we would like to hear from you as to whether or not you are in a position to send us samples of any of the plants concerning which we have had correspondence with you.

Since writing you we have succeeded in receiving samples of Hydrangea arborescens and Osmunda claytoniana, and we are, therefore, no longer interested in receiving samples of these plants from you.

Very truly yours,


B. A. Kruckhoff

BAK/hk



THIS SIDE OF CARD IS FOR ADDRESS

Dr. Ray C. Friesner,
Department of Botany,
Butler University,
Indianapolis, Indiana

Box 240, North Warren, Pa., September 30, 1944

Dear Dr. Friesner:

Thank you so much for your nice letter of the 28th and the information contained in it.

Some time ago I wrote Dr. Deam about the counties in which several specimens from Indiana in various herbaria were collected. He has not replied and I suspect he has forgotten the matter. Knowing of his bad eyesight, advanced age, and the many things he has on his mind, I don't want to bother him again. Maybe you can give me the information. The localities are (1) Wea Bottoms, Ind., (2) Clarke, Ind., and (3) Clark Junction, Ind.

With kindest regards and all best wishes, I beg to remain,
as ever,

very sincerely yours,

Harold N. Moldenke

Salt Lake City, Utah
791 Ninth Avenue
Sept 30, 1914

Dr. Ray C. Friesner,
Butler University,
Indianapolis, Ind.
Dear Dr. Friesner:

Yesterday I took the liberty of mailing to you
a few specimens of Solidago. I would very much
appreciate it if you would determine these for me
if you have time.

You need not return the specimens.

Thanking you, I remain

Yours truly
A. O. Garrett

October 2, 1944

Dear Dr. Friesner,

Your very welcome letter came some time ago but was not answered due to the fact that my cousin was in the hospital. However, she is better now, I am getting caught up with things in general again, and am beginning to have just a little leisure.

You guess that the small fern is Upland Brittle Fern is probably correct though how you came to a decision from my meager description I can't imagine. We knew it resembled *Cystopteris bulbifera* with which we are familiar and also the *Woodwards*, but could do no more with it as ^{*Cystopteris frag.*} *var. protensa* is not in our books. ¹ Doubtless due to the lateness and

dryness of the season I was unable to locate a specimen to send you, but upon looking in our fern books, found the enclosed aged specimens. I shall wrap them, but if they crumble on the way, shall send you some in the spring. I would be glad to have your key to the ferns and will reimburse you if you will let me know the cost. I am glad to know of Dr. Wherry's book too and may send for it later.

Bill was even more delighted with the studies you sent than I. I am going to let him make the decision as to what back members we want. It may have to be later as he dissipated this evening by staying in for a show and has not come home yet.

If there is ever anything I can do for you in the way of gathering specimens or the like, please do not hesitate to ask me.

From Willer
2-2-13

If you are ever in St. Wayne, we should be pleased to have you come and go through our woods. Ours is a portion of a woods about 14 or 15 A. in size. We have, I suppose 3 A., in woods, that is.

At the present time we are the victims of the War and have not been able to add any to our house for three years. It is modern but entirely too small. However we got a priority through for materials to add about one half of what we want to add. We hope to do this yet this fall. Some of our friends wonder why we don't move back to the city but we love our woods so much that we won't give up. Did I tell you that we have two bays? They are 7 and almost 11 and completely rural.

Sincerely yours,

Kathleen Willer.

October 2, 1944

Dr. B. A. Kråkoff
New York Botanical Garden
New York 59, New York

Dear Dr. Kråkoff:

In response to your letter of September 28 I am able to say that I have the following plant materials ready to send at any time.

Cuscuta sp?
Saururus cernuus
Parthenocissus quinquefolia
Commandra richardsiana
Lespedeza intermedia
Hydrangea arborescens
Melilotus officinalis
Inula helenium

Since you have indicated in your letter that you already have the material of *Hydrangea*, I will not include it in the shipment unless you wish my material as an additional supply.

I shall ship the material about the end of this week and hence will give you time to get word to me in case you wish my material of *Hydrangea*.

Sincerely yours,

Ray C. Friesner

Gray Herbarium



Harvard University

M. L. FERNALD, Director

Fisher Prof. Nat. Hist. (Bot.)

CHARLES A. WEATHERBY, Research Associate

FRANCIS WELLES HUNNEWELL, Research Associate

LYMAN B. SMITH, Curator

RUTH O. SANDERSON, Librarian

MARJORIE W. STONE, Bibliographer

ROBERT C. FOSTER, Technical Assistant

BERNICE G. SCHUBERT, Technical Assistant

79 GARDEN STREET,
CAMBRIDGE 38, MASSACHUSETTS, U.S.A.

Oct. 3, 1944.

Dear Prof. Friesner:

The fine material of Ruellia humilis,
var. frondosa came while I was absent on a short trip in
Virginia. Thank you very much for your kindness in sending it.
I will hold the material back until the variety is published --
probably in the February number of Rhodora, and then will have a
proper label made up and distribute it.

I have entered this gift as an exchange with Butler University
and, later on, will see that you receive interesting material in
return. I have just been collecting fine flowering specimens
of Solidago salicina Ell. from the one station in the Manual-range
and have marked one of them to go to you when the duplicates are
sorted.

With kind regards,

Sincerely yours,

M. L. Fernald

MLF/FMG

Director.

THE NEW YORK BOTANICAL GARDEN

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DIRECTOR
WILLIAM J. ROBBINS

TREASURER
ARTHUR M. ANDERSON

October 4, 1944.

Dr. Ray C. Friesner,
Butler University,
Indianapolis, Indiana.

Dear Dr. Friesner:

I have your letter of
October 2nd and am pleased to hear that the
samples of 8 plants are ready for shipment. I
suggest that you make shipment promptly inas-
much as we are now ready to give them our
attention.

With reference to
Hydrangea, you may send this along. Our files
show that we succeeded in obtaining the sample
from a commercial source, but it has not yet
been tested and I think it will be best to test
your material instead.

Very truly yours,

B. A. K.
B. A. Krukoff.

BAK:EMC

October 4, 1944

Professor A. O. Garrett
791 Ninth Avenue,
Salt Lake City, Utah

Dear Professor Garrett:

Your package of specimens of *Solidago* came today. I shall be glad to go over them, but will not be able to get to it until sometime next week. I appreciate the privilege of both studying and keeping these specimens for our herbarium.

Sincerely yours,

Ray C. Friesner

October 5, 1944

Dear Mrs. Willer:

The fern specimen reached in good condition yesterday. There is no doubt that it is *Cystopteris fragilis* var. *protrusa*. This is the most common variety of the species in the state. The variety *makoyi* is also found in the state but I have never run across it. The difference is in the character of the bases of the pinnules. You will find the difference given in the key which I am sending you under separate cover.

We do not often get into the Fort Wayne area for collecting but will surely look you up when we do come that way. We appreciate your kindness in inviting us to do so.

Sincerely yours,

THIS SIDE OF CARD IS FOR ADDRESS



Dr. Ray C. Friesner,
Butler University,
Department of Botany,
Indianapolis, Indiana

Box 240, North Warren, Pa., October 6, 1944

Dear Dr. Friesner: Thanks so much for your card of the 3rd with the locations of those Indiana place names. if ONLY folks would put county names on their labels! Thanks also for Papers 9-14 of Butler University Botanical Studies. These are most interesting papers and I am VERY glad to have them. I suppose your series of Studies is not open to papers from outsiders, is it? I have some papers giving annotated enumerations by species and counties of all my collections and collections distributed by me from each state in the Union. The first Ohio paper was published recently in CASTANEA and the Florida list will be in THE AMERICAN MIDLAND NATURALIST soon. I am anxious to find other journals which will accept others in the series, so I won't have to resort to mimeographing them. I feel the county records, etc., are worth recording formally for use by future Deans in other states. My N.J. list records 2825 collections (1875 species); my Pa. paper has 3980 collections (1921 species), etc. Could you use either? Or some smaller ones? With kindest regards and all best wishes, I am, as ever, very sincerely yours, *Harold N. Moldenke*

October 10, 1944

Dear Dr. Moldenke:

Your card came yesterday. We have occasionally published a paper in our Botanical Studies which was not prepared by one of our students or staff members. There has always been some connection between the work reported in the "outside" manuscript and our work. Our chief deterring force is funds. If we could get the funds, we would be glad to open our pages to any botanical manuscripts worthy of publications. But at present our funds are so limited that we cannot take all of our own material. It is a compliment to us that you should offer a manuscript and I am sorry that we do not have the funds to publish it. We are beginning the editorial work on the next issue now and if I should see that we will have some pages available I shall let you know. We hope to have the next issue out about next March.

Sincerely yours,

Duke University
DURHAM
NORTH CAROLINA

DEPARTMENT OF BOTANY

October 10, 1944

Dr. R. C. Friesner
and
Dr. J. E. Potzger
Department of Botany
Butler University
Indianapolis, Indiana

Dear Sirs:

Hope you don't mind this joint letter!

My thanks for the copy of Volume VI of the Butler Botanical Studies. I am happy to have my file complete.

In your paper with Mr. Ek, which incidentally I enjoyed very much, you have a statement (pg. 93) which I find confusing. You say "a slightly more hydrophytic preclimax". I consider the concept of post- and preclimax a very useful one and use it regularly. However, I would term postclimax a community which is somewhat more hydrophytic than one controlled primarily by the climate of the region and preclimax, one somewhat more xerophytic than the climax. I wonder if you were using the term in this sense or whether you meant it as many folks use subclimax.

I was much interested in your report on hemlock reproduction in relict stands for there is a stand in North Carolina near the fall-line which I have been watching for several years. How to explain its presence some 150 miles or more from the nearest hemlock is beyond me. Perhaps some day I'll get to learn some more about it.

Wherever Finally a comment about the Round Island paper and the calciphiles mentioned. Potentilla fruticosa will illustrate my point. I have seen it growing in a bog I cannot recall any instance where I investigated and did not find it rooted in the marl which invariably underlay the acid surface. Are you not implying that it grows in acid situations? I have always thought of P. fruticosa as an excellent alkaline indicator wherever it grows.

Thanks Dr. Potzger for your card about the Bidens. I think though that your original suggestion about Helianthus was not entirely wrong for I'm almost certain I saw some on the way back from Cleveland.

Sincerely,

H. J. Oosting
Henry J. Oosting

HJO:hd

THIS SIDE OF CARD IS FOR ADDRESS



Dr. Ray C. Friesner,
Department of Botany,
Butler University,
Indianapolis, Indiana

Box 240, North Warren, Pa., October 11, 1944

Dear Dr. Friesner:

Thank you so much for your nice letter of the 10th. I understand fully your situation in regard to the Botanical Studies because that is what I thought would prove to be the situation.

By the way, do you know of Dr. H. Hapeman, 225 Brown Ave., Minden, Nebr.? I suppose you do. He says he will exchange specimens from nearly all points of the USA, Canada, Alaska, and Hawaii for certain species listed in Britton & Brown. If you are not in exchange relations with him, you might like to see how it would work out.

With kindest regards and all best wishes, I beg to remain, as ever,

very sincerely yours,

Harold N. Holthouse

October 11, 1944

Dr. B. A. Krukoff
New York Botanical Garden
Bronx Park, Fordham Station
New York 58, New York

Dear Dr. Krukoff:

I am today sending you three packages
via prepaid express. They contain the following material
for your plant substances research program:

Commandra richardsoniana
Oscuta sp?
Hydrangea arborescens
Isula helenium
Lespedeza intermedia
Melilotis officinale
Parthenocissus quinquefolia
Saururus cernuus

If these do not reach you in reasonable time, please
let me know.

Sincerely yours,

Ray C. Friesner

UNIVERSITY OF OREGON
MUSEUM OF NATURAL HISTORY
EUGENE, OREGON

HERBARIUM

October 16, 1944

Dr. Ray C. Friesner
Department of Botany
Butler University
Indianapolis, Indiana

Dear Dr. Friesner:

The specimen of Descurainia which you wished me to identify arrived some time ago. I am sorry I have not gotten around to reply before this. The plant is Descurainia sophia, as you had already surmised. It is commonly introduced throughout the country, as you probably know.

If I can ever help you in the determination of any specimens in this genus, I shall be glad to do so.

Sincerely yours,

LeRoy E. Detling.

LeRoy E. Detling
Curator of the Herbarium

Acknowledged by card 10-23-44

THIS SIDE OF CARD IS FOR ADDRESS



Dr. Ray C. Friesner,

Department of Botany,

Butler University,

Indianapolis 7, Indiana

Box 24C, North Warren, Pa., October 16, 1944

Dear Dr. Friesner;

Thank you so much for your card of the 12th and the information about the Indiana locality. I am deeply grateful to you.

With kindest regards and all best wishes, I beg to remain

very sincerely yours,

Harold N. Moldenke



THE UNIVERSITY OF OKLAHOMA

NORMAN · OKLAHOMA

October 17, 1944

Dr. Ray C. Friesner
Department of Botany
Butler University
Indianapolis 7, Indiana

Dear Dr. Friesner:

In checking through our files of the Butler University Botanical Studies I find that we have a complete set with the exception of Volume 5, which unfortunately seems to be missing from our shelves. You will within a few days receive an order from our library requesting this volume which I understand sells at \$2.00. We should appreciate very much the receipt of this so that our files of the complete set of these valuable studies will be in tact.

I am very much interested in establishing exchange relations with Butler University and can offer you plants of Oklahoma in exchange for specimens from Indiana and Maine. If you would be interested in exchanging with us I shall be most happy to hear from you and I can probably send you a set within a few months if not sooner.

Thanking you for your kindness in these matters and appreciating your interest, I am

Very sincerely yours,

Milton Hopkins
Milton Hopkins,
Chairman

MH dw

THE UNIVERSITY OF TEXAS
AUSTIN 12

DEPARTMENT OF BOTANY AND BACTERIOLOGY

October 17, 1944

Dr. Ray C. Friesner
Department of Botany
Butler University
Indianapolis, Indiana

Dear Dr. Friesner:

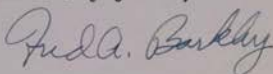
Thanks for your letter of September 19.

I had not realized that we had formerly had an exchange with you. I should be interested in knowing what the relative status of our exchanges is.

Under separate cover I am sending you 100 sheets and in case we are indebted to you, I can send some of our recent collections to somewhat equalize the situation.

With very best regards, I am

Sincerely yours,



Fred A. Barkley,
Instructor in Botany and
Assistant in the Herbarium

FAB:mjb

We sent 435
received 356

October 18, 1944

Dr. S. F. Blake
U. S. National Herbarium
Smithsonian Institution
Washington, D. C.

Dear Dr. Blake:

25
I am very anxious to get two communications to two addresses in Washington but am unable to find the complete addresses and am writing to ask whether you could complete the addresses and post them for me. I am sorry to bother you with them but can think of no other way to get them through.

Thanking you for your kindness in this manner
I remain

Sincerely yours,

THE NEW YORK BOTANICAL GARDEN

BRONX PARK (FORDHAM BRANCH P. O.)
NEW YORK 58, N. Y.

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VICE-PRESIDENTS
HENRY DEP. BALDWIN
JOHN L. MERRILL

DIRECTOR
WILLIAM J. ROBBINS

TREASURER
ARTHUR M. ANDERSON

Oct. 18, 1944.

Dr. Ray C. Friesner,
Dept. of Botany,
Butler University,
Indianapolis, Indiana.

Dear Dr. Friesner:

We wish to acknowledge your letter of October¹¹,
thank you for the plant samples listed below, received in
good condition today:

Commandra richardsiana
Cuscuta sp.
Hydrangea arborescence
Inula helenium
Lepedeza intermedia
Melilotis officinale
Parthenocissus quinquefolia
Saururus cernuus

Under a separate cover, we are sending you today
reprint of paper recently published entitled: "Studies in
the Simaroubaceae--IV, the Resume of the American Genera",
which we trust will be of interest to you.

Very truly yours,

B. A. K.
B. A. Bruckoff

BAK/ml

October 19, 1944

Dr. Milton Hopkins
Chairman
Department of Plant Sciences
University of Oklahoma
Norman, Oklahoma

Dear Dr. Hopkins:

I have your valued letter of the 17th. I am glad to send you, gratis, a copy of volume 5 of our Botanical Studies. Your institution is on our mailing list and should receive these studies regularly. At anytime that there are any missing numbers we will be glad to furnish them if you will let us know.

We shall also be very glad to exchange herbarium specimens with you. Within the next few weeks I hope to find time to go thru our duplicates and make up a set for you. We shall also be very glad to receive your specimens at your convenience. With all of our regular herbarium exchanges we have been keeping lists of all species sent and in subsequent years do not send duplicating species. I would be very glad to enter into such exchange relations to extend over a period of time if you care to have them with us.

Looking forward to a period of mutually helpful exchange relations,
I am

Sincerely yours,

Ray C. Friesner

UNIVERSITY



OF KENTUCKY

LEXINGTON 29

COLLEGE OF ARTS AND SCIENCES
DEPARTMENT OF BOTANY

October 20, 1944.

Dr. R. C. Friesner,
Butler University,
Indianapolis, Indiana.

Dear Doctor Friesner:

Under separate cover I am sending a *Solidago* which I raised from seed collected in 1941 on top of Mt. LeConte, Tenn. and I have had this plant growing under some trees and due to the dry weather the plant did not do very well, but the only branch that had flowers I am sending to you in hopes that you will be able to name it for me. Can it be *S. Randii*? That is as far as I can take it.

Missed you at the Cleveland Meetings but I was aware of the fact that you had a big celebration on at home and for that reason you probably could not get away. Anyway we had a fine meeting and after the meeting I went over to see Dr. Deam and stayed two and a half days with him looking at plants as well as digging up a lot of roots of things which I wanted and he did not want.

I am very much interested in the Lilies and got all the bulbs that he had besides got a lot of them from Mr. Paul Cook.

Have been busy all week digging my sweet potatoes and finished yesterday afternoon and have about 25 bushels.

Thanking you very kindly for the determination of the *Solidago*, I am,

Yours very sincerely,

Frank T. McFarland

Frank T. McFarland,

Specimen received and acknowledged 10-23-44

Promised answer by Nov. 15

*11-1-44 It is *S. glomerata* Mx.*



THIS SIDE OF CARD IS FOR ADDRESS

Dr. R. C. Friesner
Butler University
Indianapolis
Indiana

2817-1st Rd. North,
Arlington Va.
20 Oct. '44

Dear Dr. Friesner:

I hate to keep bothering you about those Rudbeckias, but the fact is that they have not arrived yet. The delivery of mail seems to be uncertain these days, with the great number of new postmen who are not familiar with routes.

Duplicates sent
10-25-44

Iincerely
L. F. Blake

October 23, 1944

Dr. Fred A. Barkley
Department of Botany
University of Texas
Austin, Texas

Dear Dr. Barkley:

Your letter of the 17th is at hand. According to my records we had sent your herbarium 435 specimens and had received 356. This leaves a small margin in our favor but I have never worried about having accounts absolutely at a balance, at least not so long as I was not the one who was a little behind.

I have gone thru our duplicate material and have about 100 specimens (not actually counted yet) that do not duplicate species previously sent. I have my last week of collecting for the present season yet to check and it may have an occasional duplicate for you, hence I will not send the material until I have had time to work up this last group of specimens.

We will be glad to get your specimens when they come for we have always received good material from your herbarium in the past.

Sincerely yours,

Ray C. Friesner

VIRGINIA POLYTECHNIC INSTITUTE

DEPARTMENT OF BIOLOGY

BLACKSBURG, VIRGINIA

October 24, 1944

Dr. Ray C. Friesner
Butler University
Indianapolis, Indiana

Dear Dr. Friesner:

We recently sent you copies of our latest bulletins on the Willows of Virginia and the Ferns and Fern Allies of Virginia. We have discovered that there was some mix-up in assembling the fern bulletin due to having to employ inexperienced help. Kindly have the copies of the bulletins we sent you examined for missing pages. If you have received an imperfect copy, please let me know.

Mrs. Dady
The copy of your botanical studies, including papers No. 9-14, has come promptly to hand. I find this to contain very worthwhile data, especially the papers on the Characeae.

In the summer we had some correspondence relative to a study of the genus Solidago in Virginia. As yet I have not sent you any material but I have recently received some from different collectors in the State and can start sending you material in the near future. In recent collections I have asked those cooperating with me to collect in triplicate in order that you may retain a specimen and two others to be returned to the State. The number of mounted specimens will have to be returned to the herbarium from which they come. I do not feel that the material which I will send you will be as complete a coverage of the State as would be desired.

At present I have in mind developing a journal article on the group with you as the author and those of us in Virginia who have contributed being acknowledged. At present it is not my plan to do much toward developing the actual study as in the case of the willows which I prepared with Dr. Ball, however, as the work develops and I hear from you further we may decide to change my plans. Possibly you are busy at this time of the year and do not want the material at the present. Consequently, I am not sending any until I hear from you.

Sincerely yours,

A. B. Massey
A. B. Massey

AFM:m

October 26, 1944

Dr. A. B. Massey
Department of Biology
Virginia Polytechnic Institute
Blacksburg, Virginia

Dear Dr. Massey:

Your letter of the 24th is at hand.
I have examined the bulletin on Ferns and Fern Allies
and find that it is a perfect copy. I think you
have done a fine piece of work in this bulletin.

Mrs. Daily

In case you should run across any Chara species
Mrs. Daily would be pleased to have any duplicates
you may have to spare as well as to determine any
that you might care to have her study. I feel that
she has done and is still doing a very creditable
piece of work.

I have just two small collections of Solidago
on hand to be determined and I hope to finish both
of them this coming Saturday so that I could begin
work on your material as soon as you may find the
time to get it ready to send. Please do not feel
under any obligations to get the material to me at
any other rate than is convenient for you because I
have a fairly heavy load of committee work and will
not lack for work to keep occupied.

I shall be glad to work into any plan that you
may prefer in-so-far as the publication of results
is concerned. At least, that can go until such time
as we may have more data available for consideration.

Sincerely yours,

Ray C. Friesner

October 27, 1944

Dr. Rolland Dumais, L. Sc. N.
Musée de la Provence
Quebec, Quebec

Dear Dr. Dumais:

Your letter the 22nd is at hand.
I am wondering whether you would be interested in
exchanging specimens of Solidago. I could send
you a set of species from our area and I would be
pleased to have any that you might be able to send
from present duplicates or from future collections.

Sincerely yours,

Ray C. Friesner



THIS SIDE OF CARD IS FOR ADDRESS

Dr. R. C. Friesner
Butler University
Indianapolis 7,
Indiana

2817-1st Rd. N.
Arlington Va.
28 Oct. 1944

Dear Dr. Friesner:

The last package arrived safely, but the first has never shown up yet. Many thanks; I will turn in one sheet at the office for the Nat. Arb. Herb. I have forwarded your two letters. The Corr. Sec. of the Biol. Soc. has gone into the Navy & his correspondence got into arrears.

Sincerely
J. T. Blake

November 1, 1944

Dear Dr. Edington:

Since the botany sectional program of the Academy is so short, Mr. Deam has suggested that we might throw pictures of some of the botanists, past and present, on the screen with an opaque projector from photographs. He has a collection which he will bring and he has asked me to invite you to bring any that you might have and care to let us use. I feel that it would be well worthwhile to give some of us a chance to see the likeness of some of those whom we know only from the literature.

Please do not take time to answer this note, merely bring any pictures that you care to let us use.

Sincerely yours,

Memorandum

Typed and dated

November 1, 1944

TO: Mr. Deam

FROM: Mr. Deam
SUBJECT: Mr. Deam
RE: Mr. Deam
DATE: November 1, 1944
PLACE: Mr. Deam
BY: Mr. Deam

TO: Mr. Deam

FROM: Mr. Deam
SUBJECT: Mr. Deam
RE: Mr. Deam
DATE: November 1, 1944
PLACE: Mr. Deam
BY: Mr. Deam

November 1, 1944

Dear Dr. Cleland:

Since the botany sectional program of the Academy is so short, Mr. Deam has suggested that we might throw pictures of some botanists, past and present, on the screen with an opaque projector from photographs. He has a collection which he will bring and he has asked me to invite you to bring any that you might care to show. I feel that it would be quite profitable to be able to visualize some of the individuals whom we know only professionally.

Please do not take time to answer this note, merely bring the photos, if you care to do so.

Sincerely yours,

November 1, 1944

Dear Dr. MacFarland:

The specimen of *Solidago* which you sent recently for determination is *S. glomerata* Mx. This is a high altitude species from the mountains of North Carolina and Tennessee.

You did not indicate whether you wished the specimen returned. If you do, I shall be glad to return it to you, but if you do not, I shall be very glad to have it for our herbarium since I have only one other specimen of this species.

I appreciate the privilege of studying this material and shall be glad to be of any further service along this line.

Sincerely yours,

November 2, 1944

Dr. Winona Welch, Secretary
Indiana Academy of Science
DePauw University
Greencastle, Indiana

Dear Dr. Welch:

I am sending you letter from Professor Margaret
Hodson of Marion College which I think will be self explanatory.
I shall appreciate it if you will check up on the matter and let
her know the situation.

We have mailed her some copies of the program for herself
and others at Marion College.

We are looking forward to another group of good meetings
next week.

Sincerely yours,

November 2, 1944

Dear Miss Hedson:

I have forwarded your letter regarding the Indiana Academy of Science to the secretary, Dr. Winona Welch, of DePauw University and asked her to look into the matter. I am also forwarding to you under separate cover some copies of the program for the coming meetings. I shall look forward to seeing you and your group next Friday and Saturday.

I owe you an apology for not answering your very kind criticisms to the flower keys sent last summer. The truth is I have filed them away without having time to consider them to date. I shall probably not get around to them until next February or March when I begin to get ready for next semester's field class. I appreciate them nevertheless and will make use of them.

Do you have a copy of Dean's Flora of the state? This is the final word in plant classification in Indiana. We keep it up to date by additions and reports of name changes each year. If you have a copy of the Flora and I have not sent you the published lists of additions and changes, I will be glad to give you a set when you come next week. Please mention it, in case you want them for I may not think of it when you are here.

Sincerely yours,

Ray C. Friesner

791 Ninth Avenue,
Salt Lake City 3, Utah
Nov. 7, 1944

Dr. Ray J. Friesner
Indianapolis, Ind.

Dear Dr. Friesner:

Please accept my thanks for the determinations of the *Solidago* recently sent to you. You say "if you have my permission, you would like to name one of the hybrids when additional material comes in." You have my permission to name anything I may send in.

By the way, in his recent treatment of *Solidago* in Kearney & Peebles' "Flowering Plants and Ferns of Arizona," ~~he~~ I note that Blake includes *S. trinervata* Greene as a synonym of *S. sparsiflora* A. Gray. Is this acceptable?

Very truly yours
A. Garrett



November 9, 1944.

Doctor Ray C. Friesner,
Department of Botany,
Butler University,
Indianapolis, Indiana.

Dear Doctor Friesner:

Many thanks for the identification of the *Solidago glomerata* Michx.

I do not have a specimen of the plant in the herbarium here but since this was the only stem that bore flowers this summer there will be a chance for me to get some good flowering branches next year since I have 4 nice plants of it.

I saw this plant on top of Mt. LeConte in September 1941 and since I did not have a permit to collect there I took a few blooms that had ripened and got my start of nice plants in that way. So you may keep the specimen I sent you for your collection.

It was so different from anything that I had seen, with its thick greasy leaves and beautiful glomerules of heads, I thought it worth while to grow so I now have it growing in my garden. It has been hampered quite a bit since I started it because I had it growing under some plum trees where it was entirely too dry for it and I was surprised that it bloomed at all this year, as dry as it was all summer.

Again thanking you for the identification, I am,

Yours very sincerely,

Frank T. McFarland

Frank T. McFarland.

P. S. My next Century will contain good specimens of *S. albo-pilosus* collected at Natural Bridge, Ky. A newly described species by Brann.

ADDRESS FOR MAIL
BROOKLYN BOTANIC GARDEN
1000 WASHINGTON AVE.
BROOKLYN 25, N. Y., U. S. A.

THE BROOKLYN INSTITUTE OF ARTS AND SCIENCES
BROOKLYN BOTANIC GARDEN
1000 WASHINGTON AVENUE
BROOKLYN 25, N. Y., U. S. A.
TELEPHONE: MAIN 2-4433

November 10, 1944

Dr. Ray C. Friesner
Department of Botany
Butler University
Indianapolis, Indiana

Dear Dr. Friesner:

I have been greatly interested in your account of the Berkey Woods which I had the good fortune to visit with Mr. Deam a couple of years ago. Now what I want to know is this. Do you know whether a picture or photograph can be obtained of these or similar woods in Indiana? I am interested in these woods as representing part of the primeval forest of the North Central States.

Your articles and those of Dr. Potzger which appear in the Butler University Botanical Studies are most interesting, and I would like to use the photographs for comparison with similar photographs of our eastern woodlands. The cost of such a photograph would not be a limiting factor.

Best regards to you and the Solidagos.

Sincerely yours,

Henry K. Svenson
Henry K. Svenson
Curator of the Herbarium

HKS:r

November 17, 1944

Dr. Henry K. Svenson
Curator of the Herbarium
Brooklyn Botanical Garden
Brooklyn 25, New York

Dear Dr. Svenson:

I have your letter of the 10th regarding pictures of Indiana woods and especially of Berkey's woods. We have a few photographs from a number of woods about Indiana but do not have any of Berkey's woods. Dr. Potzger would be glad to loan you his negatives from which you could have prints made as you might select. He has about 8 or 10 negatives which we think you might care to make use of. They are small size but he has had some very nice enlargements made from them. If you will let us know whether this arrangement is satisfactory, we will send you the negatives at once.

I have written to the Chamber of Commerce at Warsaw asking them whether they have any pictures available. I think they have made a great deal of the large bur oak in this woods, which recently blew over.

This summer we ran across a large colony of Rudbeckia deamii which is known in only three places, including the one we found, and I collected a large number of good specimens. If you should care for one of them, I would be glad to send it.

Sincerely yours,

Ray C. Priesner

November 17, 1944

Chamber of Commerce
Warsaw, Indiana

Dear Sirs:

A few years ago members of the Botany Department of Butler University made a study of the trees of the Berkey woods a few miles northwest of Warsaw and published our findings in the Butler University Botanical Studies. This paper has come to the attention of Dr. Henry K. Svenson of the Brooklyn Botanic Gardens, 1000 Washington Avenue, Brooklyn 25, New York and he has written asking whether we have any photographs either of the woods or of the big bur oak tree in it. He is collecting pictures that will give comparative stories of forests in different parts of the United States. We do not have any pictures of this area and I am writing to ask whether you may know of any that would be available. Dr. Svenson states that cost would not be a limiting factor.

If you can give me any information as to where I might secure one of more pictures for him, I shall appreciate it very much.

Sincerely yours,

Ray C. Friesner
Professor of Botany



THIS SIDE OF CARD IS FOR ADDRESS

Dr. R. C. Friesner
Butler University
Indianapolis
Ind.

2812-1st Rd. N.

Arlington Va.

20 Nov. 1944

Dear Dr. Friesner:

Your first sending of
R. dearmii finally arrived, a couple of weeks or
more after the later sending had come. As you
told me not to return them, I shall keep one
additional sheet & turn the other in to my
office. Many thanks for all.

Sincerely

J. F. Blake

ADDRESS FOR MAIL
BROOKLYN BOTANIC GARDEN
1000 WASHINGTON AVE.
BROOKLYN 25, N. Y., U. S. A.

THE BROOKLYN INSTITUTE OF ARTS AND SCIENCES
BROOKLYN BOTANIC GARDEN
1000 WASHINGTON AVENUE
BROOKLYN 25, N. Y., U. S. A.
TELEPHONE: MAIN 2-4433

November 20, 1944

Dr. Ray C. Friesner
Curator of the Herbarium
Butler University
Indianapolis 7, Indiana

Dear Dr. Friesner:

Thank you for your kind reply to my letter regarding pictures of Indiana woods, especially Berkey's woods. I would like very much to borrow a few of Dr. Potzger's negatives showing climax forest and would be glad to pay the mailing expenses. It is very kind of him to make this offer.

It is a pity that the large bur oak blew down. It was the most spectacular single tree that I have ever seen.

We would be delighted to have a specimen of Rudbeckia deamii. Is there any way in which I can reciprocate to you and Dr. Potzger for all your kindness ?

Sincerely yours,

Henry K. Svenson

Henry K. Svenson
Curator of the Herbarium

HKS:r

November 22, 1944

Dr. E. B. Blakeslee
Box 789
Panama City, Florida

Dear Dr. Blakeslee:

I have recently received a specimen of *Solidago* sent by you to Dr. Wilbur H. Duncan in Atlanta, Georgia. As near as I can tell from the material included, the specimen is *Solidago petiolata* Miller. Since your material included only the upper parts, I cannot be absolutely certain that this determination is correct but I feel there is a high degree of likelihood that it is correct.

If it should be possible for you to secure material of the entire plant, I could be absolutely certain with regard to the identification.

Very truly yours,

Ray C. Friesner

RCF:LW

November 22, 1944

Prof. A. O. Garrett
791 Ninth Avenue
Salt Lake City 3, Utah

Dear Professor Garrett:

Thank you for your letter of November 7 regarding the determination of Solidago. I was not aware until you mentioned it that Solidago trinervata had been reduced to a synonym of S. sparsiflora. We have a copy of Kearney and Peebles but I had not done any work on Arizona material recently and the reduction had not come to my attention. I am not in a position to know whether this change is entirely justified but I think Blake is sufficiently accurate and conservative that his opinions are abundantly worth following. I would therefore change all of the specimens labelled S. trinervata to S. sparsiflora.

Thanking you for your kindness in offering this information, I remain,

Sincerely yours,

Ray C. Friesner

RCF:LW

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and Finance
THOMAS R. WALTER Merchants Dept.

THE
WARSAW CHAMBER OF COMMERCE
WARSAW, INDIANA

November 28, 1944.

Mr. Ray C. Friesner
Professor of Botany
Butler University
Indianapolis, Indiana.

Dear Sir:

I enclose two of our lake guides with the picture of the big Berkey bur oak tree in them. This is the only picture that the Chamber of Commerce has of this tree, but I think that we have the negative in our files and a better picture could be made if desired by Dr. Svenson.

It is possible that the Blosser Studio here in Warsaw may have a defferent picture than the one shown in the guide.

For your information this tree was blown down last spring and we will miss it very much, as it was well known.

Thanking you for your inquiry, I remain

Yours very truly,



Sec'y.

THIS SIDE OF CARD IS FOR ADDRESS



Dr. Ray C. Friesner,
Department of Botany,
Butler University,
Indianapolis, Indiana

Box 240, North Warren, Pa., Nov. 29, 1944

Dear Dr. Friesner:

On my recent furlough to New York I completed my study of the last nine (9) specimens which I still have on loan from your herbarium. All have been annotated and turned over to Mr. G. L. Wittrock, who will return them to you from the New York Botanical Garden shipping department in a few days.

Please accept my sincere thanks once again for your kindness in letting me examine this fine material.

With kindest regards and all best wishes, I beg to remain,

very sincerely yours,

Harold N. Moldenke

Harold N. Moldenke

November 30, 1944

Dr. H. K. Svenson
Brooklyn Botanic Garden
1000 Washington Street
Brooklyn 25, New York

Dear Dr. Svenson:

I am enclosing some material which came today from the Chamber of Commerce at Warsaw having to do with the large bur oak in the Berkey woods. It is possible that you may be able to secure some of the material you wish either from the Chamber of Commerce or thru the Studio which they mention.

Within a few days I will send you the negatives from Dr. Potzger. Since some of them are at his home I have to keep him reminded to bring them until he finally gets around to it.

Under separate cover I am also sending you two specimens of Rudbeckia deamii Blake.

Sincerely yours,

Ray C. Friesner

THIS SIDE OF CARD IS FOR ADDRESS



Dr. Ray C. Friesner,
Department of Botany,
Butler University,
Indianapolis, Indiana

Box 240, North Warren, Pa., No. v. 50, 1944

Dear Dr. Friessner:

Thank you so much for your kindness in sending me the copy of the 1945 additions and corrections to Deam's FLORA. I am very glad to have this. I am filing all these lists of additions and corrections right in back of the FLORA where they will be always readily available. It is gratifying to see how fast our knowledge of Indiana plants is being perfected. I do hope that Jones' proposed Flora of Illinois will measure up to Deam's standards. We should have a flora like his for EVERY state!

With kindest regards and all best wishes, I beg to remain,

very sincerely yours,

Harold N. Moldenke

November 30, 1944

Mr. W. Robert Hall, Secretary
Chamber of Commerce
Warsaw, Indiana

Dear Mr. Hall:

Please accept my sincere thanks for your kindness in sending the material dealing with the large bur oak in the Berkey woods. I am forwarding it to Dr. Svenson today and it is likely that you may hear from him in the near future.

Some little time ago we published a scientific study of this woods in Butler University Botanical Studies and I am taking the liberty of sending you a copy of a reprint from this paper. It is not likely that you will have much use for it, but I thought you might care to make a note of it for your files and in case there should ever arise an occasion where you could use additional copies we would be glad to furnish them to any one who might care for them.

Again thanking you for your kindness, I remain

Sincerely yours,

Ray C. Friesner

ROBERT R. TATNALL
1100 W. TENTH STREET
WILMINGTON, DEL. 27

Dec. 1, 1944

Department of Botany,
Butler University,
Indianapolis, Ind.

Gentlemen:

I thank you for forwarding to
me INDIANA PLANT DISTRIBUTION RECORDS IV,
just now received.

Will you please correct your
mailing list, in accordance with the
enclosed slip.

Yours truly,

Robert R. Tatnall

ARNOLD ARBORETUM, HARVARD UNIVERSITY
JAMAICA PLAIN (30)
MASS.

December 4, 1944

Dr. R. C. Friesner
Butler University
Indianapolis, Indiana

Dear Dr. Friesner:

May we have Indiana plant distribution records I, II, III? May we also be put on your mailing list for future numbers?

If there is a charge for these please send us bill in duplicate.

Very truly yours

Lazella Schwarten
(Mrs.) Lazella Schwarten
Librarian

We had your name on our mailing list but did not realize that we had not sent to previous issues. We are glad to send them.

Ray C. Friesner

ADDRESS FOR MAIL
BROOKLYN BOTANIC GARDEN
1000 WASHINGTON AVE.
BROOKLYN 25, N. Y., U. S. A.

THE BROOKLYN INSTITUTE OF ARTS AND SCIENCES
BROOKLYN BOTANIC GARDEN
1000 WASHINGTON AVENUE
BROOKLYN 25, N. Y., U. S. A.
TELEPHONE: MAIN 2-4433

December 6, 1944

Dr. Ray C. Friesner
Department of Botany
Butler University
Indianapolis, Indiana

Dear Dr. Friesner:

I have your letter of November 30 which included the fine letter sent to you by the Warsaw Chamber of Commerce, which I am returning. The folder about the Warsaw region with a picture of the large tree I am keeping. I am looking forward to the negatives which you are sending and will return them as soon as they are copied.

The specimens of Rudbeckia deamii came and I greatly appreciate them. So far I have never done anything to help you, but if there is any way, Solidago or otherwise, that I can do so, I hope you will let me know.

Sincerely yours,

Henry K. Svenson

Henry K. Svenson
Curator of the Herbarium

HKS:r
Enclosure

THE UNIVERSITY OF KANSAS
LAWRENCE

DEPARTMENT OF BOTANY

Dec. 18, 1944

Dr. Ray C. Kriesner
Dept. of Botany
Butler Univ.

Dear Dr. Kriesner:

I should have written to you when I sent the two plants but our stenographer does not take dictation and I'm just lazy.

The two data cards ~~included~~ indicate my guess on them. I wonder if you considered them the same way before calling them the same species.

Growing in the field these two plants look very different. This may be due to the difference in height but it seemed not. Another interesting point is that they were often found in separate colonies but very close to each other. I do not remember seeing the two plants intermingled except in one place. The two colonies from which I took these specimens were within two

THE UNIVERSITY OF KANSAS
LAWRENCE

DEPARTMENT OF BOTANY

feet of each other. I will look through my material and see if I do not have these same plants taken from different localities where they were not close. If so I will send them to you.

Please keep the specimens as I have duplicates.

Thank you very much for your help. I still feel quite stupid when I pick up a Solidago.

Very truly yours W. T. Howell.

Houghton College

Department of Biology

Houghton, New York

Professor Ray. P. Friesner,
Butler University
Indianapolis, Indiana

My dear Professor Friesner,

You will remember that last August you sent me buds of Gentiana puberula collected in Northwestern Indiana. I had buds from Ripon, Wisconsin, collected by Mr. George Leland which showed the same ^{chromosome} number but a very great difference in size. Therefore I need to study herbarium specimens. Would you kindly send me herbarium sheets of the plant from which you collected - that is the species. This is one of the most interesting phases of my study.

Yours very sincerely

17519-5 ^{Newton} Miss Crystal L. Rock
17507-2 ^{Jasper} Assoc Prof of Botany.