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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.

H. O. Heistad
Landscape Architect
Camden Hills State Park
Camden, - - Maine

Rockport, Maine,
January 1, 1940

Prof. Ray C. Friesner
Butler University - Dep't of Botany -
Indianapolis, Indiana.

*Try Bassenia
Schreiben*

Dear Prof. Friesner:

It is the first day of the New Year, and one of my resolutions is to answer your letter of October 4 of last year, and to express my thanks for all the valuable information you have given me - valuable not only to me but to the two counties in which I am working. It surely will be of help to me, and of great value to all interested.

A short way southwest of the place where I met you first, alongside Bald Rock, is a swamp, perhaps five to six acres. Here I found two waterholes about 75-feet square, I would say. In one of them I found a small water lily of a different type than I have ever seen. A tiny little pad 2 to $2\frac{1}{2}$ -inches long, oval in form, and about $1\frac{1}{2}$ -inches broad; the stem fastens to the center, growing from a small white stock about $\frac{1}{2}$ -inch in diameter, with a multitude of small white silky roots. From this a number of brownish stems, about 4-6 inches from the surface, send out 4 to 6 very small blossoms. I was too late to see the blossoms so do not know the color. The water was clear as crystal and I take it there must be a spring below the mucky bottom which was about 4 to 5 feet in depth.

I am sending you a rather small sample of the stem and the seedpod, hoping it will reach you in good condi-

H. O. Heistad
Landscape Architect
Camden Hills State Park
Camden, - - Maine

Prof. Friesner

Sheet 2

Jan. 1, 1940

tion. If not, I hope to take you to the spot next summer, for I am already looking forward to the time when we shall meet again.

Also I found a red cedar, I believe, growing near a pond in the Town of Searsport. The plants do not come true to color, running from golden green to quite blue. Most of the plants were in shrub form but some of them ran up to 20 feet in height.

Until now we have had no snow this winter, but the last day of the year brought quite a snowfall; not more than 6-8 inches, I would say, but enough to cover up all things left from the year past, and give us a nice white blanket for the New Year.

In my spare time, which is not much, I have been playing with the rockery in my sunroom, adding to it, and I think it looks beautiful, especially at times. I wish you could be here, you and your wife, to enjoy it with us. My wife and I are well - and can say the same of all my family. We had a wonderful Christmas, and hope you had just that same kind.

With sincere wishes for a good New Year for you and yours, I am

Sincerely yours

Hans O. Heistad

HOH-GH



Portland Society of Natural History

22 ELM STREET

PORTLAND, MAINE, U. S. A.

January 4, 1940.

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

Dear Dr. Friesner:

I have the honor of extending you the thanks of the Portland Society of Natural History for your contribution of 44 specimens of plants from Waldo and Knox Counties. This is a welcome set as we have comparatively few plants from that section of the state.

I note one misplaced label. The folder bearing your marginal No. 14012 contains Dulichium arundinaceum, while the label bears No. 14017 with the name Potamogeton epihydrus. There is no specimen of the latter in the lot.

I certainly appreciate your generosity in sending us specimens. When going over my collections, (which is slowly accomplished) if I note duplicates which seem of interest will be glad to report to you and possibly there may be something which you could use.

I note that the 45th annual meeting of the Josselyn Botanical Society of Maine will meet July 22-26 1940 at Belfast. I hope we may have the pleasure of your presence at some or all of the trips and meetings. Final announcements with particulars will be issued in the spring, and I will see to it that a copy is sent to you.

With best wishes

Very truly yours

Arthur H. Vortex

THE NEW YORK BOTANICAL GARDEN

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

PRESIDENT
JOSEPH R. SWAN

VICE-PRESIDENTS
HENRY DEF. BALDWIN
JOHN L. MERRILL

TREASURER
ARTHUR M. ANDERSON

DIRECTOR
WILLIAM J. ROBBINS

January 5, 1940

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

Dear Dr. Friesner:

You will be interested to hear that I just got back home from Bolivia with a large collection from the basins of Rio Bopi and Rio Mapiri. We hope the collection will be ready for distribution late this summer. Please let me know the approximate number of plants that you think you will be able to assemble for me this summer, so that I will be in a position to tentatively reserve a suitable set for your institution. I also would be pleased to hear from you as to how we stand in reference to the exchange. I would like to be sure that my records are correct. I have not seen my records for a long time and your statement will be helpful.

Very truly yours,

B. A. Krukoff

B. A. Krukoff

Bak:Jdc

$$89 \times 3 = 267$$

$$\begin{array}{r} 1353 \\ 1322 \\ \hline 4131 \\ 8 \end{array}$$

$$\begin{array}{r} 67 \\ 8 \\ \hline 37 \\ \hline 112 \end{array}$$

$$\begin{array}{r} 50 \\ 3 \\ \hline 4 \overline{)150} \\ 37 \end{array}$$

From Elk

Kokomo, Ind. Jan'y 5, 1940.
1812 No. Purdue St.

Dr. Roy C. Friesner: -

My Dear Professor: -

The entire history of mankind can be summed up in 7 words: - Man is born, he suffers, he dies. - Of the first event I have forgotten, of the last event I am slowly experiencing, - but of the second, I am painfully cognizant of these cold days. With cold feet in July with 3 pair socks a Prof. can finish the story in Jan. sub-zero weather. Yet I am not complaining. Doubtless there are several million in the good-old U.S. who are worse off. - And in Europe - Asia - a Com - parison with U.S. - is futile.

Permit me to ramble with items of little relation to one another.

Just revised my 1939 list new species -
- 6 new to me from our N. Ind. trips and

60 from other places² - a fine record. The fall drought prevented 2-3 distant trips, Safonette, Cicoth &c. 121 new species - 3-4 doubtful.

Dec 9 & 16 would have been fine tree days. I was not at all surprised that you could not come - committees, new home, sharing of appts. &c. - busy days. I can guess that this weather would be bad and that snow would make quadrat work impossible. There is always good weather ahead and hopes. So I am very patient and trust that you will have objectives in N. Ind. in 1948.

Finished all my specimens - about 15 bundles - a week ago. There are 3 bundles yet of N. Ind. specimens which I regret were not ready on Nov. 18. --- stump day. I could send them to you if they would do you any good for your Lake Reports. Happy that the others gave you a few records.

I realize that Howard Co. is well represented in your Herbarium. I have a good number of specimens from the Willis - also the Miller bog 1 mile S. Since you pored the Willis bog, may I suggest that you

keep these duplicates to make your
 paper on The Kokomo Bog more complete. -
 Only a suggestion. The Miller bog so near
 has a quite different flora - a fact of some
 value. I know you are making the best
 possible use of these specimens - Class. Dr.
 Potzger - exchange - High Schools - & C.
 I speak of the best ones - Some are no good.

Been planning to spend most of next
 week at Purdue - Fern week - Jan. 8-13.
 or Mon. - Thurs. - But this new Cole - COLO
 wave - may change it. There is no Botany
 there in our sense, classification - but many
 interesting topics - erosion - conservation
 Wild Life - Corn show - weeds - music, games &
 The Contacts are fine too.

Have been copying for several days.
 Thank you for your Fern Key. Used it
 in my few specimens where there was
 fruit or spores. As to sending me a set
 of Fern specimens, I shall be glad to get
 them. I wanted to rush my bundles thru,
 thinking you might be past some Saturday.

However you can wait until you come up if you like, - since it takes time + stamps to mail. So as you like. Its gracious of you to offer them.

Presume you attended the Science Meetings at Columbus, O. - I am I heard was intending to go. The contacts are greater than the papers - i.e. to me. Dean's Flora may not be out this year - His last Xmas picture of himself and Mrs. Dean said Apr. June.

I know of nothing herein that needs a reply - only a card when weather permits woods work. I really do not know what weather precludes work can be done in - or rather cannot be done.

With Very Best Wishes for the Year 1940 and the Years to follow
I am,

Very Sincerely Yours.
Charles M. Ek.

Butler University

INDIANAPOLIS, INDIANA

Daniel S. Robinson, President

DEPARTMENT OF BOTANY

Ray C. Friesner, Professor
C. Mervin Palmer, Assistant Professor
John E. Potzger, Assistant Professor
Mabel M. Esten,
Lecturer Evening Division
Scott McCoy,
Lecturer Summer Session
Charlotte L. Grant,
Lecturer Evening Division

January 5, 1940

Dr. Robert Stratton
Oklahoma A.&M. College
Stillwater, Oklahoma

Dear Dr. Stratton:

As a result of attempting to determine specimens of Solidago received during the past year from a number of botanical areas of the United States, I have decided to construct a key that will bring together under one key all of the North American species.

In order that my key may have a real work-out I need to secure material from as many regions as possible and I am writing to ask whether you would be willing to help me out by picking up as many specimens from your region during the coming collecting season as possible. It would help me greatly if you would name those familiar to you but I shall be glad to have them either named or unnamed and with habitat and locality data.

You may send them to me express collect. I shall be glad to send you a copy of the key after I have given it a thorough test, in case you care for it.

Sincerely yours,

Sent to the following:

Dr. Lowell A. Mullen, Box, 488, College Station, Pullman, Wash.

Dr. Lewis A. Rose, California Academy of Science, Golden Gate Park,
San Francisco, Calif.

Ray C. Friesner

Dr. John A. Moore, Wayne College, Fremont, Nebraska

* Dr. F. C. Gates, Kansas State Ag. College, Manhattan, Kansas

* Dr. Delzie Demaree, Arkansas A. & M. College, Monticello, Arkansas

RCF: meb

Also sent to the following:

* Dr. Frank A. Gilbert, Marshall College, Huntington, W. Va.

** Dr. Wilbur H. Duncan, University of Georgia, Athens Georgia

** Dr. Stanley A. Cain, University of Tennessee, Knoxville, Tenn.

Dr. Russell C. Artist, Amarillo College, Amarillo, Texas

* Dr. Robert Stratton, Oklahoma A & M College, Stillwater, Okla.

** Dr. William Drew, University of Missouri, Columbia, Missouri,

** Dr. Dwight Billings, Univ. of Nevada, Reno, Nevada

* Dr. Rexford Daubenmire, Univ. of Idaho, Moscow, Idaho

Replies *
Herbarium loan **
offered →

January 8, 1940

Dear Mr. Heisted:

Your letter of the first has remained unanswered until now, partly because of pressure of work following the Christmas vacation and partly because the package did not reach me until this morning. From your description of the water plant it seems to me that the plant might be *Brasenia schreberi*. If you have your Gray's Manual handy you might see whether the description there seems to fit what you found. The little *Brasenia* is a beautiful small water lily with flowers faint orchid to purple in color and several flowers from the same plant. We have it in Indiana in some of our ponds that are in the final stages of being choked with vegetation.

The specimen of *Juniperus* appears to me to be a form of the northern variety of red cedar, *Juniperus virginiana* var. *crebra*. Of course you may have some horticultural form that I know nothing about.

I am very anxious to visit the wet place you showed me on the way to the Ski Trail last summer for I am sure it will have some surprises. I hope that it will be possible for us to have more time together for botanizing next summer. I have started a nucleus of Knox and Waldo county plants in the Museum at Portland and I am anxious to increase this collection as well as my own from these counties.

I also ran across some promising places along the back road from Camden to Warren near the end of my stay last summer and I want to investigate these some more, but I am more interested in the Camden mountains than any where else.

I was kind of you to send me the specimens and I am counting the months until we can be back more of Maine. With best regards to both of you, I remain

Sincerely yours,

THE UNIVERSITY OF TENNESSEE
KNOXVILLE
DEPARTMENT OF BOTANY

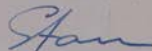
January
9th
1940

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

Dear Pete:

I don't know yet where I will be in goldenrod time but I will bear in mind your wishes for specimens. Do you want me to ship you the goldenrods which we now have in the herbarium? Billings worked them up over three years ago but there have been some additions and you would likely want to see the specimens anyway. If you wish to borrow these sheets I will be glad to send them on receiving an official request.

Sincerely yours,



Stanley A. Cain

SAC:B

January 10, 1940

Mr. Arthur H. Norton
Portland Society of Natural History
22 Elm Street
Portland, Maine

Dear Mr. Norton:

I am sending you the corrected label for specimen 14,012.

I am sorry that in my checking I overlooked this wrong label.

I would be very glad to attend the meeting of the
Jeselyn Botanical Society next July; but it will be im-
possible because of my teaching duties to be in Maine at
that time. I hope in future years to be able to spend a
very large portion of the summer in Maine.

I shall be on the lookout for additional specimens
for you from Knox and Waldo counties.

Sincerely yours,

Ray C. Friesner

RF:mob

January 10, 1940

Dr. H. A. Krukoff
New York Botanical Garden
Fordham Station
New York, N. Y.

Dear Dr. Krukoff:

Thank you very much for the three airmails just received. I have a box of specimens ready to send as soon as I can find time to check the labels. This week is entirely taken with student conferences but I should be able to get it done sometime next week. The set contains 80 specimens in triplicate.

According to my record I have sent you 1553 specimens and you have sent me the equivalent of 1322. As to the number of specimens I may be able to secure this summer there is considerable doubt as to the number of species I can secure for you this summer. We might estimate it at 50 species or 150 specimens.

In case I can secure that estimated number, you would need to reserve a little over 100 specimens to bring accounts even after next summer's work.

Sincerely yours,

Ray E. Friesner

RF:geb

UNIVERSITY OF MISSOURI
COLUMBIA

COLLEGE OF ARTS AND SCIENCE
DEPARTMENT OF BOTANY

January 10, 1940

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

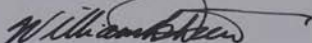
Dear Doctor Friesner:

I should be very glad indeed to keep in mind your request for specimens of Solidago as I make collections this summer. If present plans mature I expect to do a considerable amount of field work in connection with the study of grassland vegetation in northern Missouri. It is very likely, therefore, that I shall come upon a fairly representative group of the species of the genus.

I do not expect, however, to have much opportunity to collect in the Ozarks where a number of different species may grow. I wonder, then, if you would also be interested in borrowing our herbarium material of the entire genus from this state. We should be glad to have the material critically annotated and it might give you the opportunity to test the key which you desire.

With best regards, I am

Sincerely yours,



William B. Drew
Assistant Professor

WBD/fe

KANSAS STATE COLLEGE
OF AGRICULTURE AND APPLIED SCIENCE
DEPARTMENT OF BOTANY AND PLANT PATHOLOGY
MANHATTAN, KANSAS

January 12, 1940.

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

Dear Prof. Friesner:

Replying to your letter of January 5, I certainly will be pleased to have you run over the *Solidagos* which we collect around here. At present I have but very few in our duplicate piles but will get them out as I run thru them to get out certain other exchanges, probably during February. Others would need to wait until the usual fall collecting. We have some which are quite puzzling.

Glad to see you again at the Columbus meetings and hoping that you will finally be able to get a really workable *Solidago* key, I remain

Very truly yours,

F. C. Gates

F. C. Gates
Professor of Taxonomy & Ecology

FCG:NEJ

Prof. Potzger is to send me the name, specifications, including price, of a peat sampler which I believe is made locally at Indianapolis. While we did not think there was any hurry at Columbus, the request for the information has come in from Ann Arbor, and I should appreciate your letting him know this.

January 12, 1940

Dr. William B. Drew
Department of Botany
University of Missouri
Columbia, Missouri

Dear Dr. Drew:

Thank you very much for your kind letter regarding
collection of Solidago.

I also appreciate your offer to loan your herbarium
material. I shall be glad to have the privilege of going
over it. With the close of the old semester and the open-
ing of the new so near at hand I will not have time for a
few weeks, but will let you know as soon as I can find the
time to get at it. In case you have a large amount of
material it might be well to send it in installments.

I hope you will not hesitate to let me know when I
can be of some service to you.

Sincerely yours,

Ray C. Friesner

RCF:mab

U. S. Bureau of Education, Biennial Survey of
Education, V. 2, 1931-32.
U. S. Bureau of Education, Biennial Survey of
Education, V. 2, 1931-32.
U. S. Bureau of Education, Biennial Survey of
Education, V. 2, 1931-32.
U. S. Bureau of Education, Biennial Survey of
Education, V. 2, 1931-32.
U. S. Bureau of Education, Biennial Survey of
Education, V. 2, 1931-32.

January 15, 1940

Dr. Stanley A. Cain
University of Tennessee
Knoxville, Tennessee

Dear Dr. Cain:

Thank you very much for your willingness to help
me out in regard to the golden-rods. I shall be glad to have
the opportunity to see your herbarium material but will ask
you not to send it until you hear from me again because I
do not want too much coming in at one time. Duncan and Drow
have both offered to loan me the specimens from their respec-
tive schools and there will probably be a few other loans.

Thanking you again for your kindness,

I remain,

Ray C. Friesner

RCF:meh

January 15, 1940

Dr. P.C. Gates
Kansas State College
Manhattan, Kansas

Dear Dr. Gates:

Thank you very much for your proposed help in the golden-rod work.

Dr. Potzger has asked me to send you the data regarding the peat borer. Our borer was made by a Mr. Artist here in Indianapolis at a cost of \$49.41. This was \$18.41 for the materials and \$31.00 for labor and machine-shop bill. Our borer consists of two brass cylinders each 15 inch. long, the one revolving within the other. Both have a longitudinal opening 12 by $1\frac{1}{2}$ inches. The outer cylinder has a sharp cutting blade rivetted to one longitudinal edge of the opening. The cylinders contain an auger on one end and a short mounting stud on the other. To this mounting stud detachable handles in sections may be mounted. The handles are made of cold-rolled steel cylinders each section 3 feet 7 inches long. A short steel core is welded and riveted in the end of each handle joint and the other end is made to fit over the projecting end of the core of the joint next to it. These joints are held together with special rivetts made with automatic triggers so they can be inserted or removed quickly when the workers' hands are gloved in heavy canvas rubberized gloves.

Our entire outfit will bore a hole 65 feet deep but it could be made to bore deeper by simply securing additional sections of the handle.

In case you wish to have one of these made by someone other than the person who made ours, we would be glad to loan you our borer and a section of the handle to use as a sample. Should you wish one made here, we could probably arrange with Mr. Artist to do it. In the latter case, I think you should let us send you ours so you would know what to expect and also you might want some changes, though I have no suggestion in that respect because ours works so well for our work that we are very well satisfied with it.

Sincerely yours,

Ray C. Friesner

University of Saskatchewan

Saskatoon, Saskatchewan

DEPARTMENT OF BIOLOGY

Jan. 17, 1940.

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

Dear Professor Friesner:

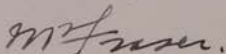
I have your letter of January 4th and am very glad to know that you plan the preparation of a key to the North American species of Solidago. I shall be pleased to assist you with specimens from this region and any others that I may visit during next summer.

in Sask.

I have not yet gone over my collections of last season but when I do I shall forward you any that I think may be of interest. I sent you last year a fairly representative collection of this genus which you were kind enough to determine for me. I shall be glad to add to this as many specimens as I think will be of interest.

When the key is completed I shall be very pleased indeed to get a copy. Thank you for the offer of this.

Very truly yours,



W. P. Fraser.

Kokomo, Indiana, Jan'y 23 1940. - From Ek
1812 No. Purdue St. -

My Dear Dr. Friesner: -

For once - I'll attempt to be brief -
Rec'd your package of labels - also the Fern
specimens - I have not yet begun on Ferns -
For 10 days - have not left home - the longest
'home period' in years - Plan to go to Library
in a day or so - At that - busy - + always
behind - Thanks for these packages - more
than a rusty pen can put on paper -
Was not surprised when you could not
come on Jan 13 - You must not take chances
on bad roads - especially the sts in cities - +
tours. - Weather was pleasant on 13th but on
20th would have very cold for me - If not
before, - June will be perfect for tree work.

I was wondering if you wanted me
to label the specimens I have - one for
one ~~each~~ sheet - where I have several sheets of one
species - etc - or were they for next year - I
shall be glad to do as you wish - name -
date - location - etc - habitat - Sorry I did not
have them ready on Nov 18 - I have 3 bundles

- which I could make each into 2 bundles - of
1 Lake species - which I'd be glad to mail you.
The postage would be little. - I think you need
them - I should have sent them soon as I was
there with them - I'd be glad to send them
this week. - They will help in your next papers -
as you said they 2 lake packages - I am
very anxious for you to get them soon -
- in fact - all of them 18-20 bundles - so
that the genial factor McCoy may
be digging into them as time permits.
However, unless urgent - it would not be
practical to send all of them. - Hope to
work them up as I go in 1940 - This tho
gives me a winter job - & keeps me in con-
stant touch with names - flora - terms -

So you can use postal and answer
the 2 ~~fast~~ questions: - 1. Use of labels. -
2. Shall I mail you the Lake specimens?
This last seems silly. - I should have sent
them. - But I looked for you up in Dec.
(+ so did you) - & thus time slipped away -
With wishes to you & Mrs. Friesner -
your many activities - Sincerely - Yours
C. M. K.

P. S.

May I use a sheet of scrap paper to tell ~~you~~ you that I enjoyed the 4 days at Purdue - Jan 8-12. Made 1 good contact among others - a Prof. Cunniff who wants me to come in June & go out to a prairie habitat along Monon R.R. - & other places - He is in fungi - plants - or in old Dr. Arthur's place & wants to learn higher forms. Seems to know higher plants - about as much & well as I do - will make a good pair - also wants me to meet & botanize with a Dr. ~~Wm~~ Wm Mott now at Cornell - Agronomy Dept. at Purdue. - So with you & Butler coming Nov. - I am happy & hopeful for 1940. - Yours for a Better Day, a New Age - and Peace for all the World. Ch. E.

WORKS PROGRESS ADMINISTRATION
OF INDIANA

811 Ewing Street
Fort Wayne, Indiana

JOHN K. JENNINGS
STATE ADMINISTRATOR

August 14, 1939

Mr. Charles M. Ek
1812 North Purdue Street
Kokomo, Indiana

Dear Mr. Ek:

Your request for assignment of your son has been referred to Miss McElhenie, Supervisor of Employment, who is in charge of this part of the program. You will hear from her, I am sure.

I note your continued interest in botany and the classification of plants. There is no project in the Education Department which would make your services possible in the way you would like to work. And I know of no other project which would permit you to work as you would wish.

Glad to hear from you again.

Sincerely yours,

Lillian Kent

(Mrs.) Lillian Kent, Supervisor
Professional and Service Projects

J.H.J.
John K. Jollief
District Education Supervisor

JHJ:Th

cc: Woodward

*Mr. Ek finally got a - Sept. - but
not doing much for this winter.*

UNIVERSITY OF NEVADA
RENO, NEVADA

DEPARTMENT OF BIOLOGY
PETER FRANDSEN, ZOOLOGY
P. A. LEHENBAUER, BOTANY
MARGARET E. MACK, BIOLOGY
W. C. BILLINGS, BOTANY
E. W. LOWRANCE, ZOOLOGY

January 23, 1940

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

Dear Dr. Friesner:

I received your letter concerning goldenrods a week ago and I am sorry that I have been slow in answering. This has been because of the pressure of work in getting the laboratories and classes of the new semester under way.

I will be very glad to collect goldenrods for you wherever I may be during the coming season. During last season I picked up a few which I had already set aside for you, and since that time, we have set aside all *Solidagos* in our exchange material for you. As soon as we have a fair number of these, I will send them on to you; and next fall I will send the results of summer collecting. I may also have a few goldenrods of my old collections from Tennessee and North Carolina which I have not yet disposed of, and I will also send them. In case you care to borrow our *Solidago* material from the herbarium, we will be glad to lend them to you for as long as you care to use them. Such a *Solidago* key as you propose will be valuable, and I look forward with pleasure to be able to use it.

Things are moving along quite smoothly with two weeks of the spring semester already gone. The classes are large, and the students seem to be interested in the work, which is a big help in teaching. We were very sorry that we were unable to get back to Columbus for the meetings, for we would have enjoyed seeing you and talking with you. However, we plan to get back to next winter's meetings and see you then, if not before. With our best regards to you and Mrs. Friesner,

Sincerely yours,

Dwight Billings

WDB:mb

32. Fairman

WHITTIER COLLEGE
WHITTIER, CALIFORNIA

January 24, 1940.

Dr. D. S. Robinson, President
Butler University
Indianapolis, Ind.

My dear Dr. Robinson;

I have your note of the 10th. regarding my motion picture lecture I LIVE UNDER THE SEA. Thank you for the address of the Filmarte Company. I think I shall try to see them when I pass through Indianapolis.

I was not certain that you understood that I carry my own projection equipment so that I could present this lecture in any available room that can be made dark, or in the evening. I am wondering if some associated organization, say a biology club, might not like to sponsor this, perhaps charge a small admission, and share the proceeds? Would you refer this letter to your Biology Department. I have worked under such sponsorship many times. May I refer you to Dr. Markel of Earlham College.

Thanking you again, I am,
cordially yours,

Floyd Schmoee.
Floyd Schmoee.

address Friends University until Feb. 10.
Earlham College until Feb. 19.

May we call your attention to the motion picture lecture

"I LIVE UNDER THE SEA"

by
FLOYD W. SCHMOE

well known naturalist, lecturer and author, of the University of Washington, at Seattle, Washington.

This is a picture (much of it in full color) of Oceanography and marine life. The pictures and observations were made largely at the Oceanographic Laboratories of the University of Washington on Puget Sound. Here for parts of three summers Mr. Schmoë actually lived twenty-four hours at a time in a submarine observation chamber on a rocky reef. This underwater apartment was lighted and heated by electricity. It had cooking equipment and a comfortable bunk.

Mr. Schmoë remained "on location" day and night because he wanted to see and photograph what went on day and night. From the inch-thick windows of this strange observation post he looked out into water 200 feet deep. Rare dwellers of the sea swarmed about his door and looked in at his windows.

This beautifully illustrated lecture has been presented in almost every state and in Hawaii, Mexico, and the West Indies; before public schools, colleges, churches, clubs and scientific societies. Such institutions as Stanford University, Columbia University, the University of Hawaii, and the National University of Mexico. At some places it has been presented several times.

It is a story and a picture which is always very popular with students and adults alike as it is exciting, colorful, and unique, and at the same time entirely authentic and strictly educational in nature.

Mr. Schmoë is a member of the faculty of the University of Washington. (He secured leave of absence this winter for lectures in England. Now that the war makes that trip impossible he is available for lectures at home.)

He carries his own projection equipment. Fees are based upon the available resources of the sponsor, or where admission is charged he is willing to accept a share of the proceeds.

address

Floyd W. Schmoë
13434 - 40th N. E.
Seattle, Washington.

AMERICAN EUGENICS SOCIETY
30 WEST 50TH
NEW YORK
TELEPHONE CIRCLE 3-8000

January 30, 1940

Dr. Ray C. Friesner
Butler College
Indianapolis, Indiana

Dear Dr. Friesner:

In connection with our effort to enlist the intelligent and cooperative interest of many more individuals in the eugenics movement, we are bringing the enclosed leaflet "What I Think About Eugenics" up to date and should like to include a short paragraph by you.

We are anxious to get the re-issue out shortly and would appreciate hearing from you.

Sincerely yours,

Rudolf C. Bertheau
Rudolf C. Bertheau
Secretary

RCB:EB

THE NEW YORK BOTANICAL GARDEN

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

PRESIDENT
JOSEPH R. SWAN

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

TREASURER
ARTHUR M. ANDERSON

January 31, 1940

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

Dear Dr. Friesner:

I acknowledge the receipt of your card of January 25, 1940. The case with specimens reached here safely. I have not seen the specimens yet and will do so in March.

I am leaving shortly for a brief stay in Guatemala. My Bolivian collection is now being taken care of by Dr. A. C. Smith, and we expect the specimens will be ready for distribution late this summer. One set will be reserved for your Institution.

Very truly yours,

B. A. Kruckhoff
B. A. Kruckhoff

Bak:Jdc

On the bottom of each label add "Det. R. C. Friesner"

1725. *Solidago leavenworthii* T+G.

Jan 1940

1733. *Solidago minor* (Mx) Fernald.

1778. *Solidago altissima* L. → (*S. purantissima* Mill. in Small 3ed.)

1762 *Solidago petiolata* Mill.

Do not show this on the labels.

†

43 *Solidago rugosa* Mill.

1657 *Solidago caesia* & *axillaris* (Pursh) Gray

1860 *Chondrophora nudata* (Mx) Britton

Duncan - U. y Ga.

THE HUNT INSTITUTE
FOR BOTANICAL DOCUMENTATION
HUNT INSTITUTE FOR BOTANICAL DOCUMENTATION

1940, 2, 1

February 1, 1940

February 1, 1940

D
Dr. Rudolf C. Berthou
American Eugenics Society
50 West 50th Street.
New York, New York

Dear Dr. Berthou:

In response to your note regarding "What I think about Eugenics" I am pleased to send the following paragraph, any part of which you may use in the forthcoming revision of your leaflet.

Without quality we are helpless in our efforts to improve. Schools, colleges, churches and all the various social agencies cannot maintain the ideals and privileges of a democratic people without a high-grade mental level among their people. A sane and ethical eugenical program can go a long way toward reducing the number of individuals at the lower end of the quality scale and increasing those at the upper end. A sound application of our knowledge of the laws and fact of heredity is far more important regarding human beings than it can ever become in the case of plants and animals and yet how much more careful we are in the pedigrees of the latter than in the former.

Sincerely yours,

Ray C. Friesner

RCF/meb

BUTLER UNIVERSITY
Office of the Registrar
Indianapolis, Indiana

January 9, 1939

To the Advisers:

We are sending you at this time course books for the first semester students who have indicated that they plan to major in your department and the preliminary enrollment slips, and a list of the students for whom we are giving you course books. Please send any students for whom you have no course books to this office where he will be provided with one if he is eligible for it. This is especially important in the case of students registering in Butler University for the first time, since we must arrange for their admission.

Students who plan to change their major subject should petition to do so through the Dean's Office. There he will be provided with the necessary form which he must have signed by the heads of the departments concerned. Blanks for the change of college may be obtained in the Registrar's Office.

Freshmen must continue in the same classes for which they are registered the first semester in order to keep the classes balanced. Any change in class must be approved by the department head and instructors concerned. Blanks for the change are attached.

Please fill out the course book and the preliminary slip and sign each. The preliminary slip is given to the student, the course book is retained by the adviser until the end of the advisory period, January 20th, when it is returned to the Registrar's Office. The preliminary slip is to be taken to the Office of the Bursar during the week of the 16th and the week of the 23rd in order that the fee cards may be made out.

This system enables us to withhold the registration of students who will be ineligible to register for the second semester.

Very truly yours,

(Mrs.) Ruth Deming
Acting Registrar & Examiner

TO THE EDITOR

RECEIVED
FEBRUARY 5, 1940
BUTLER UNIVERSITY
INDIANAPOLIS, INDIANA

Dear Dr. Schaefer:
I am writing you in regard to a lecture which you are planning to give at Butler University. I am sure that your lecture will be most interesting and educational to our botany and zoology classes as well as to many others but I am skeptical about financing it.

It is with deep regret that I must decline your offer to show your underwater films. We do not have any funds available at Butler University for this purpose and knowing the tenor of our student body I feel certain that we could not expect to obtain enough from charging admission to make it profitable to you. The largest room we would have available for such use would not seat over 175 students and I feel that a sufficient sum to make it profitable to you would entail a rate which would be so high that attendance would be too greatly reduced.

I am certain your lecture would be most interesting and educational to our botany and zoology classes as well as to many others but I am skeptical about financing it.

Sincerely yours,

RAY C. FRIESNER
BUTLER UNIVERSITY
INDIANAPOLIS, INDIANA

Ray C. Friesner
BUTLER UNIVERSITY

RCF:mab

West Virginia University
MORGANTOWN, W. VA.
COLLEGE OF ARTS AND SCIENCES

DEPARTMENT OF BOTANY AND ZOOLOGY

February 6, 1940

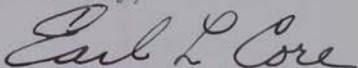
Dr. Ray C. Friesner
Butler University
Indianapolis, Ind.

Dear Dr. Friesner:

I am engaged in the preparation of a new Flora of West Virginia and as a basis for it I have been gradually (and slowly!) going over the specimens in our herbarium or having them studied critically by specialists in various groups. After about five years of this I have at last gotten out of the way the Pteridophytes, the Gymnosperms, and most of the monocots. Two of the largest genera yet awaiting study are Aster and Solidago. I wonder if you would have time to go over our material in those two genera, with the idea of preparing for publication under your signature two separate papers on their occurrence in West Virginia, and allowing me, from the annotations on the sheets, to use your work in the preparation of my new Flora, in which, of course, you would receive due credit.

With kindest personal regards.

Sincerely,



Earl L. Core
Curator of the Herbarium

ELC/eab

February 8, 1940

Dear Dr. Clements:

We have just received thru your courtesy a copy of Mr. Martin's and your paper on Adaptation and origin in the plant world. Dr. Potzger and I are both deeply indebted to you for your repeated kindnesses. We have enjoyed perusing the paper very much. I am sorry that we did not get it a month sooner for Dr. Potzger and Dr. Cain have just recently sent a manuscript to the Midland Naturalist dealing with physiological anatomy of leaves in relation to evaporation. The manuscript is based upon some work they did in our laboratory in 1931-33. Your paper would have been a most valuable help to them. It may be that they will need to send some footnotes to the editor to be added as last minute additions.

You don't by chance need a botanist of more than ordinary but not exceptional ability to do some work about your laboratory do you? One of our Master's degree boys is now in Sacramento and in need of employment. He is Mr. John Howell at 915 - 21st Street. His Master's thesis was published in our Botanical Studies volume 4, number 9. He has been employed in Ohio in U.S. conservation work in directing some of the N.Y.A. program but was cut off last summer when the pruning knife was used on appropriations. He would be faithful and efficient in any work that he is prepared to handle. I shall not say anything to him about this so that you need merely to ignore the matter unless you can use him. Please do not take the time to answer me in the matter unless there is some other information you might care to have concerning him.

We hope to have another issue of our Botanical Studies out some time this spring. We have not been lacking in manuscript but the money for publication costs has been difficult to get together. You may be interested to know that a friend has just recently given us enough money to purchase dendrometer equipment for a study of growth in some of our beech trees. There is a private estate about a mile from our campus on which we expect to set up the apparatus as soon as Dr. MacDougal has had time to get it ready for us. I believe that this will be the first use of a dendrometer in this part of the United States.

We both send our best regards to Mrs. Clements and you and also would appreciate being remembered to Dr. Long.

Sincerely yours,

Oklahoma
Agricultural and Mechanical College

SCHOOL OF ARTS AND SCIENCES
STILLWATER

February 12, 1940

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

Dear Mr. Friesner:

In regard to your letter concerning the genus Solidago, after thinking over the matter I wonder if it might not be possible for you to look over all the specimens which we have belonging to this genus in our herbarium. In case you wish to do this and could possibly look them over and get them back to us by, say May 30 at the latest, I think I could box them and send them to you at once.

I might be able to include some duplicate specimens that are not mounted which my students have collected and which you could keep for your herbarium.

In case you wish to tackle the above proposition, I shall be glad to hear from you at once.

Yours very truly,

Robert Stratton

Robert Stratton
Associate Professor
Botany and Plant Pathology

RS:mb

CARNEGIE INSTITUTION OF WASHINGTON
DIVISION OF PLANT BIOLOGY

ECOLOGICAL RESEARCH

P. O. ADDRESS:
MISSION CANYON, SANTA BARBARA, CALIFORNIA
(OCTOBER-MAY)
ALPINE LABORATORY, MANITOU, COLORADO
(JUNE-SEPTEMBER)

February 13 1940

Dear Friesner :

I am glad to learn that you and Dr. Potzger have found the booklet of interest in connection with your work. Though this was not the primary objective, an endeavor was made to put all the parts of the xerophytic Humpty-Dumpty together again in as brief a space as possible. The format is an experiment on the part of the Carnegie Institution, but turns out better than expected. Like the printer, the offset typist has the last word as to typographic innovations.

The Institution has met a serious shrinkage in income in the last year, and this has reduced our summer staff to half the usual number. The consequence is that more of last year's men wish to return than there are places for them. However, all its members can be grateful for the fact that it has never reduced salaries.

I shall be interested to hear about your experience with the dendrometer. We had one at the Alpine Laboratory for a summer or two, but always longed for a second to yield checked results.

With best wishes to Mrs. Friesner and yourself from both, I am

Yours as ever,

Frederick E. Clements

February 13, 1940

Dr. Earl L. Core
Department of Botany
West Virginia University
Morgantown, West Virginia

Dear Dr. Core:

I have your letter regarding study of *Aster* and *Solidago*. I shall be very glad to go over your material of *Solidago* but I would not be at all competent to judge the material of *Aster*. I shall be glad to annotate the sheets and to have you make any use you would care to make of the notes. As to the advisability of a separate paper on the genus *Solidago* in West Virginia, I would want to reserve judgement until I see how well the species which are likely to occur in the state are backed by specimens. Perhaps your herbarium material covers fairly well both the species and their distribution. You may have the published literature pretty well condensed on the matter of distribution within the state. At any rate I'll be glad to go over what you have and we can see then whether other herbaria should be inspected for additional distributional data.

Sincerely yours,

Ray C. Friesner

RCF:neb

Eyderdam
13-II-40

Plants of Alaska and Washington

Herbarium Specimens and Labels with full
Data.

Alaska Plants offered for 15¢ each Her-
barium Sheet.

Washington Plants for 10¢ each U. S.

Write to Mr. Eyderdam for more informa-
tion.

Personally collected by

Walter J. Eyderdam,
7531 19th Ave., N. E.
Seattle, Washington, U. S. A.

February 13, 1940

Mr. Walter J. Eyerdam
7531 19th Avenue, N.E.
Seattle, Washington

Dear Mr. Eyerdam:

I have notice from George L. Fisher that you have plants of Washington and Alaska for sale. I am interested in species of *Solidago*. Will it be asking too much for you to send me a list of the species you have available in this genus from these areas. I would be interested in having a specimen of each species from each area.

Sincerely yours,

Ray C. Friesner

RCP:mob

THE NEW YORK BOTANICAL GARDEN

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

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TREASURER
ARTHUR M. ANDERSON

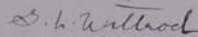
February 13, 1940

Mr. Ray C. Friesner
Butler University
Indianapolis,
Indiana

Dear Mr. Friesner:--

We have received today the
sixty-one (61) specimens mentioned on your card
of Feb. 5th. The material has been accredited to
your Exchange account with our Institution.

Very truly yours,


G. L. WITTROCK
Custodian of the Herbarium.

GLW:AK

Marshall College

Huntington, West Virginia

DEPARTMENT OF BOTANY

Feb. 14, 1940

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

Dear Dr. Friesner:-

I wish to thank you for the
herbarium specimens which were received a short time ago.
I shall make a special effort this year to collect *Solidago*
for you and I can be certain of obtaining the following
species which are common in this county.

S. erecta
S. bicolor
S. nemoralis
S. altissima
S. caesia
S. ulmifolia
S. latifolia
S. graminifolia

Sincerely yours

Frank A. Gilbert
Frank A. Gilbert

February 16, 1940

Dr. Robert Stratton
Department of Botany
Oklahoma A. & M. College
Stillwater, Oklahoma

Dear Dr. Stratton:

I appreciate very greatly your kindness in offering to send your material of *Solidago*. I shall be glad to go over it as rapidly as possible and will return it to you promptly. Of course, the time I shall need to keep them will depend upon the number of specimens.

Appreciating your cooperation, I remain

Sincerely yours,

Ray C. Friesner

RCF:mcb

West Virginia University
MORGANTOWN, W. VA.
COLLEGE OF ARTS AND SCIENCES

DEPARTMENT OF BOTANY AND ZOOLOGY

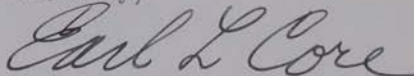
February 19, 1940

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

Dear Dr. Friesner:

Under separate cover I have sent you 366 specimens of West Virginia golden rods for your study and annotations. If you wish, I shall be glad to have sent to you the material from Concord College and from Marshall College, in the southeastern and southwestern parts of the State, respectively. Their herbaria, while smaller than ours, represent fairly well their local flora. When you are finished, if you feel you have sufficient data, we should be glad to publish your results in Castanea.

Sincerely,



Earl L. Core
Curator of the Herbarium

ELC/eab

Kokomo, Indiana, Feb. 21, 1940.
1812 N. Burdum St.

My dear Dr. Friesner: -

I have just completed the Fern set you long ago sent me, and shall return them and Peattie's Flora at some time. I shall not attempt to put in words what the Fern specimens have meant to me. I enjoyed every one of the 36 sheets and ~~to~~ wished there were more. This gives me a fair idea of ferns and Lycopodium and will enable me to classify all I ever find here. Please grade me on corrections - correctness of determinations. In flowers I like fresh specimens. Fresh ferns may have fewer advantages. Fern rootstocks are not always easy to get. - The lack of rootstocks and knowledge of habitat and region at times slowed me a little. - But I got "hurry up" on only 2 or 3 sheets. In 2-3 the fl. in B-B gave the clue. - But I tried everyone by your key. If you had some way to induce the *Endusia* to be a little more conspicuous, and show how it is attached!! (119). The sort - to - some guessing.

I can hardly ² see how you worked out
such an intricate key - so different from Gray
- B-S - I had Clute which in a few cases was
quite helpful - also Parson's - very old - There is
more poetry - romance - Thoreau in these
2 works than real science - Yet I liked them
- It's a relief to go from Key & Manual to such
flowery language & also to return to science
At my stage I much prefer the key - manual -
scientific aspect. I get the other while in the
field.

I must thank you for thinking of so
many ways to help me. I certainly needed
this training - also telling me about Wherry.
I found it O.K. in every respect - but wished
the descriptions were longer - - -

Dr. Potyger sent me his Nature Study
Book; - just now completed reading it carefully.
Very - Good. - Didn't know he had gone so
far in Insects. It's all summed up so
well - good English; scientific - with a literary
value. - I'd like to revise 1 line - He says to
keep the cat in the house at night - to save the
birds: I'd say - "Kill every - Cat." - - - ?
I buried 5 giants - one 10 1/2 lbs. - last summer.

My yard is a Cat cemetery - No matter
what Color, race, Creed or previous condition
of servitude - as the Dago says - "I fix 'em".
Every Cat that crosses my yard valley
bears this time-honored legend tied to it:
"Who enters here leaves hope behind." So
much for humor and fact. . . .

Jan. 29. - rec'd a short letter from Deam.
Thinks Flora will be out by June - I
related my wonderful 7 trips & with you -
my finding over 60 species new to me - none
new to state - but that you, in a letter, told
me about *Polygonum longistylum*. In his
letter he says "If you are correct in your
determination this will be an interesting find
Small gives the range far to the S. W. of Ind." I
am very sorry if ^{he} thought "I" found &
worked it. - I said plainly that Dr. Friesner
told me in a letter. - Nothing serious - but
it would be bad if not corrected. So if he has
written you about it, this will clear up
everything. - so I hope. By "you" he might have

referred to all of us⁴ as the Butler Crowd.
I have never seen this species. I have com-
pleted my Flora - and in ^{each} line - every page,
have tried to be very accurate - as to
locations - abundance, size habitats - meas-
urements - descriptions, - &c. any other way would be
pseudo-science.

In your Card of 1-24 - you had joyful
news for me - that your plans were to
spend most of the Saturdays June 22 - July 22
in N. Ind. - probably beginning in Howard
Co. - Also hope this may be
continued in Sept. or Oct. - to get the
Fall Flora in some new Counties,
bogs - sand dunes, old railroads - virgin
woods - &c.

Lee of Purdue was here Tues. P.M. -
talked about Injurious weeds - had slides
and mounted specimens of weeds - labeled
with Common Names - audience was
farmers. - Discuss this with you next summer.
Sorry I did not have my specimens
ready for you - now. If you ~~so~~ need them
or have time for Prof. McCoy to work

from EK
24-11-40

them up - they could be packed in
boxes about a foot high very easily. - 4 or 5
such boxes would hold all of them. The
express would be swell for either of us. - But
if you are already crowded - June will be OK.
If Dr. Potzger happens to go to Matsigone
- as he has in the past - or any other Butley
Prof. - on any N. trip. - I'll have them all ready.

Knowing that you - like Deam and
all other scientists are busy and
over worked - I'll say - Fair is -
With Many Thanks for Book -
Specimens - letters. Trips - Rides -
and other kindnesses - too numerous
to enumerate.

Best wishes -

Very Sincerely,

Chas. M. Ek

February 22, 1960

Dear Mr. Ek:

I have at last finished going over the plants you so kindly mailed to me and I list below those that have been added to the herbarium from you collecting and which will have your label on them. I am all the more impressed with the fact that you do a most satisfactory piece of botanical work both in collecting and in determination.

Sometime ago I mentioned that I had a plan in mind for our work this summer. My plan is to make up a new "State Flora" catalog as soon as Dean's book comes out which now seems reasonably certain for May or June. Then we will take counties as areas and work them systematically for additional species and each year publish a list of new county records. We will allow our published list to be just one year behind all the time so that we will have time to work up the material from each season's work. For example, we are now in position to make a list of the things we collected last year and have it ready for the Academy meetings next November. Each year we can do the same. I think you and Potzger had some such arrangement for the grasses and you need not interrupt this agreement. You and I can concentrate on the plants other than the grasses. I think you have already a good working knowledge of the sedges and you can concentrate more on them while I concentrate on the ferns and composites and both of us on things in general.

I will make up the list of things we have gotten last year and then when Dean's book comes out we can strike off the things that are not new according to it. I think that it would be well for you to start giving your specimens collection numbers but I will explain that more when we come up the next time.

If this plan strikes you as worthwhile we can have a good time together for the next few years. We will be up to Kokomo some of these Saturday afternoons soon and we can talk the matter over more fully. I can't get away from the lab. until after 10 because of my field class but we can work until dark before starting home and still get in a fair day of work. I'll let you know several days ahead when we expect to come up.

I think Potzger, you, and I will make a pretty good team to "gang-up" on the plants. What do you think about it.

Sincerely yours,

Loon Lake Bog and Vicinity

EK
25-II-410

<i>Habenaria lacera</i>	<i>Panicum huachucae</i>
<i>Carex learsii</i>	<i>Carex granularis</i> (Extra good specimens)
<i>Carex cephalophora</i>	<i>Rubus idaeus strigosus</i>
<i>Hypericum proloflum</i>	<i>Panicum gattingeri</i>
<i>Eriophorum virginicum</i>	<i>Carex laeustris</i>
<i>Scirpus lineatus</i>	<i>Calamagrostis canadensis</i>
<i>Carex comosa</i>	<i>Carex stipata</i>
<i>Carex swanii</i>	<i>Carex bobbsii</i>
sp <i>Sphenopholis intermedia</i>	<i>Carex brevior</i>
<i>Sphenopholis pallens</i>	<i>Polygonum hydropiperoides</i>
<i>Arabis pycnocarpa</i>	<i>Rhus copallina</i>
<i>Phalaris arundinacea</i>	<i>Agrostis hyemalis</i>

Beaver Dam Lake (First lake west of Loon lake)

Carex flava rectirostra
 I collected *Carex aurea* here also. This was a real find for this is a northern species previously reported for Lake, Porter and Carroll counties only
Astragalus canadensis (This is the legume we could not determine that day)

Mill Creek Bog (Laporte County)

<i>Ryomenanthemum flexuosum</i>	<i>Mitchella repens</i>
<i>Glyceria plicata</i>	<i>Stachys ambigua</i> (A real find)
<i>St. Trigonochloa maritima</i>	<i>Hieracium gronovii</i>
<i>Hypericum boreale</i>	

Lakeville Bog (St. Joseph County)

<i>Carex trambuloides</i>	<i>Eleocharis obtusa</i>
<i>Juncus acuminatus</i>	<i>Carex aggregata</i>

Horan Bog (Starke County)

Habenaria leucophaea

North Liberty Bog (2 mi. north of North Liberty along Rd 23 St. Joseph County)

Eleocharis obtusa
Juncus acuminatus

Fulton County

Carex communis (Along Tippecanoe river 0.5 mi. e. Rd 31)
Asclepias amplexicaulis (Along Rd. 17, 2.5 mi n. Rd 14)
Scirpus lineatus

Clinton County

Hypericum cistifolium (RR. yards west of Frankfort)

Howard County

Rosa carolina (This is *R. palustris* in Gray but Gray is mixed up between *R. palustris* and *R. carolina*, has them reversed.)

Tippecanoe County

Rubus flagellaris (north of Soldiers Home)

Miscellaneous notes

Vaccinium from Lakeville bog: I collected there under two numbers. One is undoubtedly V. vacillans. The other is probably V. vacillans also but it does not fit either vacillans or pennsylvanica.

Lilium umbellatum: This name has been changed to L. philadelphicum var. andinum (Nutt.) Ker. I looked over my material from this boggy-sandy field along Rd. 17, 2.3 mi. n. Rd 14, in Fulton Co. and find that I have three different forms, viz. L. philadelphicum, L. michiganense, and L. philadelphicum var. andinum all from this field.

Boehmeria drummondiana from Mill Creek, Laporte Co., bog. You had it B. cylindrica. In Gray it is B. cylindrica var. scabra.

Colegio de San José
Medellín Colombia S.A.

Wishes to exchange herbarium
specimens for monographs or
scientific publications dealing with
Colombia or other S. A. Flora.

If we have no such he would
like specimens of Euphorbiaceae,
Leguminosae and Ericaceae

Medellín Febrero 22 de 1940
Dr. Ray C. Friesner
Butler University
Indianapolis

Postal restrictions at present
do not permit packages over
500 grams in weight outgoing
from Colombia.

Muy agradecido Dr. Friesner:

Su atenta comunicación del 8 del
presente mes ha llegado oportunamente y se la agradezco sin-
ceramente.

Grandemente me ha interesado su propuesta de
cambio de material de ejemplares botánicos; aquí tropiezo con una ~~peque~~
pequeña dificultad para el envío de los paquetes pues según los decre-
tos sobre transporte de correos no se pueden efectuar envíos de peso
mayor de 500 gr.; en esas condiciones, el número de a que tes se
aumenta con perjuicio del número de ejemplares. En todo caso
procuraré enviarle algo una vez que se inicien nuestras permutas
de muestras para herbario.

Me permito hacerle una sugerión, no podría cambiarme
las plantas que le enviara de aquí por algunas publicaciones cientí-
ficas? En ese caso Usted podría calcular el número de especímenes
necesarios para cada publicación, que me quisiera enviar en cambio;
me comunicaría en seguida ese número y yo, tan pronto como recibiera
su indicación, le enviaría las plantas en referencia. Descartaría eso si,
que en tanto fuera posible, las publicaciones se refirieran a algún
asunto relacionado con la flora o la fauna de Colombia o aun de
Sud América. En caso de que esto no fuere posible, entonces, sobre
algún asunto relacionado con el estudio de una familia botánica en
general, o alguna monografía.

En último término, si no fuere posible hacer el intercambio
de plantas por publicaciones, entonces me podría mandar plantas de
las familias de las Euforbiáceas, Leguminosae, y Ericáceas que princi-
palmente me interesan.

En espera de sus gratas nuevas me suscribo como su Affmo.
y seguro servidor.

Atentamente

H. Daniel
H. Daniel

February 22, 1940

Dr. Earl L. Core
Department of Botany
University of West Virginia
Morgantown, W. Va.

Dear Dr. Core:

Yesterday I sent you a card acknowledging receipt of the specimens of *Solidago*. This morning your letter reached me. As stated on the card, I shall be able to begin work on these specimens within a day or so. I think it would be well to go over the material of Marshall College and Concord College, as well as any other collections you know of that have any appreciable number of specimens from the state.

For our plant geography work in Indiana, we use cards containing maps on the back, a sample of which I am enclosing. Do you have any similar thing available for West Virginia. If you should have, I would be glad to have a few. We keep a permanent record of all published data for each species by placing a number (referring to the publication) in each county where the species is reported.

In case you have no such maps, I might be able to secure one from which I could have a cut made for reproducing on cards. After this study is completed, I would turn the cut over to you.

If you think there might be any appreciable number of specimens from West Virginia in the University of Tennessee herbarium, I could ask Dr. Cain or Dr. Sharp to have someone record the species and the localities. I think their determination would be likely to be correct because Dr. Billings, a former student of ours knew the *Solidagos* well and he went over the University of Tennessee material during his stay there. In case there were anything unusual, we could ask for the particular sheets.

Perhaps it would be well not to have the Marshall and Concord material come until I have completed your material.

I want you to know that I greatly appreciate this opportunity and if it results in material which you and I think should be published, I shall be very glad to have it considered for publication in *Castanea*.

Sincerely yours,

7531-19th Ave. N.E.,
Seattle, Washington
Feb. 25/40.

Dr. Ray C. Friesner
dept. of Botany
Butler university
Indianapolis, Indiana

Dear Dr. Friesner:

I have gone thru my collection of named plants of Washington and Alaska and find only two species of *Solidago* which I am sending to you for price of 35¢ including postage. The one from Alaska is not common.

I would like to exchange state of Washington plants for all species of *Salix* in good condition that you can offer.

Sincerely yours

Walter J. Eyerdam

THE NEW YORK BOTANICAL GARDEN
BRONX PARK (FORDHAM BRANCH P. O.)
NEW YORK, N. Y.

PRESIDENT
JOSEPH R. SWAN

VICE-PRESIDENTS
HENRY DE F. BALDWIN
JOHN L. MERRILL

DIRECTOR
WILLIAM J. ROBBINS

TREASURER
ARTHUR M. ANDERSON

26th February 1940

Dr. Ray C. Friesner
Butler University
Indianapolis
Indiana

Dear Dr. Friesner:

My departure to Guatemala has been delayed, and I now expect to leave New York on March 2nd.

You will be interested to hear that we commenced recently studies of plants that might have an insecticidal value ("fish poison" plants, and plants reputedly with insecticidal or anthelmintic properties). This will be a long job (2-3 years) as we hope to cover 100-150 species. We plan not to duplicate the work of others, and will exclude from our investigations the plants, such as *Lonchocarpus* and *Derris*, that contain rotenone as the active principle. My associates on the project are Entomologists of Rutgers University where they have elaborate laboratories with good facilities for actual entomological tests, and Chemists of Merck Research Laboratories at Rahway, New Jersey.

If you come across some plant native to your area that you think is worthy of investigation and might have an insecticidal value please remember us. We would be only too pleased to conduct the entomological and chemical tests. A small sample (approximately one pound) would be sufficient for our tests. The materials should be thoroughly dried in the shade before they are packed.

At the present, I might point out only *Amsonia* spp. that are of interest to us from your area.

I still have had no opportunity to look over the specimens that you recently sent here.

Sincerely yours,

B. A. Kruckhoff
B. A. Kruckhoff

Bak:Jdc

West Virginia University
MORGANTOWN, W. VA.
COLLEGE OF ARTS AND SCIENCES

DEPARTMENT OF BOTANY AND ZOOLOGY

February 27, 1940

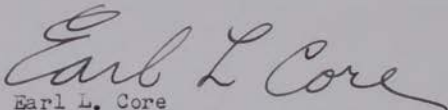
Dr. Ray C. Friesner
Department of Botany
Butler University
Indianapolis, Indiana

Dear Dr. Friesner:

I have a cut of a map of West Virginia (also showing the adjoining counties of neighboring states), which we use in our plant geography work here. Since we paste these on species covers I have had them printed on gummed paper. I enclose a sample. We have also a larger map, a copy of which I am also sending you. If neither fit your needs, I shall be glad to have you make a suitable cut, or I will make one to send you. In either case I shall be glad to pay for it.

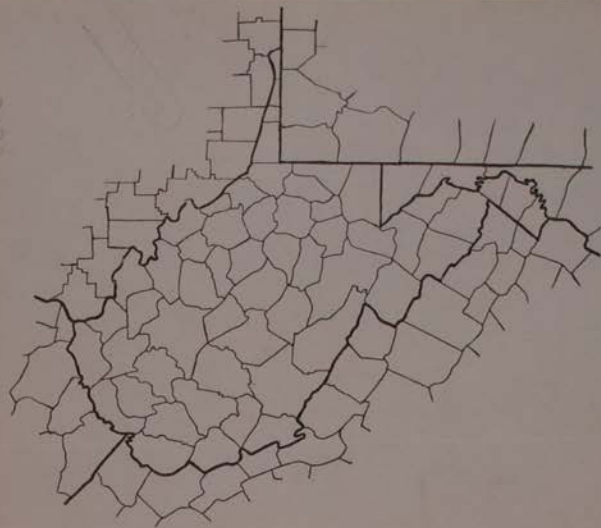
I doubt if there are many West Virginia specimens at Knoxville, but we might ask Dr. Sharp. He is interested in West Virginia, since he taught in our summer session last year and will again this coming summer.

Sincerely,

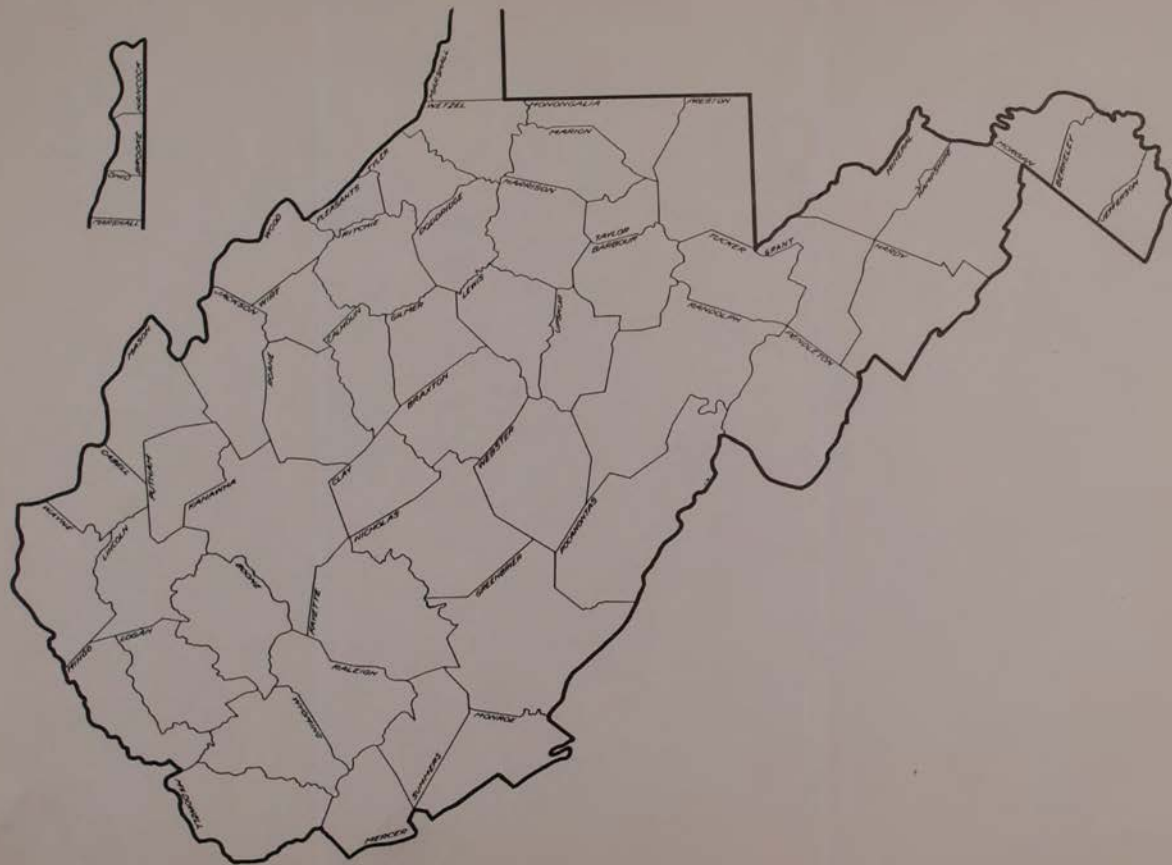

Earl L. Core
Curator of the Herbarium

ELC/eab

24- II-40
Cere



247-II-40
core



UNIVERSITY OF KENTUCKY



LEXINGTON

COLLEGE OF ARTS AND SCIENCES
DEPARTMENT OF BOTANY

February 29, 1940.

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

My dear Doctor Friesner:

I am writing to ask what your experience has been in exchanging with Dr. Schallert of N. C. since I have just received about 300 specimens, many of which apparently came from you and many of the others which he sent me were Brazilian and only the genus and no species. Some of the plants were quite a bit bug eaten and as a whole, most of the specimens are not equal to what our average student would make.

Since September we have added about 3000 sheets to the herbarium. Most of these were our own collection and a few from Mich and Ohio.

I wonder if you wish to get somewhere between 200 to 300 more specimens to be collected this coming summer? In all cases, we shall try and not send you material which we have already sent you. We keep an accurate record of each collection and what species are sent you.

I shall appreciate very much if you have the time. If you can drop me a few lines about the above mentioned Doctor. I am afraid that I do not care to exchange with him again. I believe that I will send the collection back to him even though there are a few nice things in his collection.

Yours very sincerely,

Frank T. McFarland.

Frank T. McFarland,
Professor and Head of the
Department

P.S. What is Dr Clute doing now? Is he connected with your department now? Do you have a garden seed list & would you care to get ours which will be out next week.

F. T. McF.

February 29, 1940

Dr. B. A. Krukoff
New York Botanical Garden
Bronx Park (Fordham Branch P.O.)
New York, New York

Dear Dr. Krukoff:

Your letter of February 26 is at hand. I shall be glad to keep in mind the matter of material of plants which might have insecticidal properties. Adonis tabernaemontani salicifolia (Pursh) Woodson occurs in abundance in the southwestern corner of the state. We have a large bed of it from there growing in our botanical garden and could probably easily spare you enough of the material from the latter. Would the material from the garden be likely to be different for your purposes from that growing wild? The native material is about 250 miles from Indianapolis but I could plan a trip for it if you think it would be better than the garden material. What would be the best stage in which to collect it, i.e. preflowering, flowering, or post-flowering?

Sincerely yours,

Ray C. Friesner

RCF:meh

188

March 1, 1940

Dear Dr. Core:

The larger one of the two maps of West Virginia will work into what I want beautifully. If you have a supply of the sufficiently to let me have 50 or 60 I shall be glad to pay you for them, or if you prefer to send me the plate I can have our printing laboratory run them off for me.

I am finding some interesting specimens among those you sent.. My time is so limited because of a heavy teaching schedule that I am not able to progress as rapidly as I would like. I have gone over a little less than half of them to date.

There are two aspects of the problem that loom large in my mind now for the finished paper. The first is the cataloging of species in the state together with distributions as indicated by actual specimens examined. This should include a key for determinations and a brief description of each species. The descriptions could be omitted but I think that with them the paper would be usable by students wishing to determine the species. I would leave the matter as to just how much could be published up to you and the editorial board of Castanea.

The second aspect of the problem is a study of the geographic affinities of the West Virginia species. This would include a density map based upon the physiographic subdivisions of the United States as proposed by Fenneman. I am enclosing a copy of this latter map. Incidentally, we have a cut for this and could furnish you with copies for your own use in case you do not have them and would care for them.

Both of the above aspects could be put into one paper but it would likely to be longer than Castanea would care to handle at one time.

I do not expect you to make any answer to the matter of the paper just now. I think it would be better for me to prepare it as fully as we would like to have it and then we can cut out what needs to be cut.

Sincerely yours,

March 4, 1940

Dr. Frank T. McFarland, Head
Department of Botany
University of Kentucky
Lexington, Kentucky

Dear Dr. McFarland:

We have traded specimens with Dr. Schallert for sometime but we have found his material of the vascular plants quite poor. We continued the exchange for several years even though we felt it was a lopsided arrangement because we did occasionally get some rare specimens, or at least some species not hitherto received, and we have followed the principle that a poor specimen is better than none. We admit that we "junked" about 80% of his material.

His specialty is the lichens and he is very good on them. We have traded lichen material with him for a long time and are very well pleased with the results. We have sent him quite a lot of un-named specimens and he has named them for us.

I would suggest that you juck most of his material -- send him yours anyway, this time, and tactfully forget future trades except for the lichens. Play him at his specialty and you will find him a pretty good fellow after all. He simply doesn't know how to care for higher specimens.

We are always glad to get your material and will be glad to add your herbarium to our list for 1940 material. My plans for this summer are such that I am not likely to get a large number of non-duplicating specimens for you but I'll be glad to send all we can get.

We have about 200 species of duplicates which we have received in our exchange from various exchanges and I would be glad to run through them and send you a set if you care for them. Of course, they might duplicate some you already have from the same places from which these came but I would be willing to have you count out any which should turn out to be duplicates for you.

Mr. Clute has charge of developing a municipal botanical garden for the city of Indianapolis and is not connected at all with Butler University. We are operating our University Botanical Garden as a part of the

McFarland

4-III-40

RECEIVED BY THE DIRECTOR OF THE BUREAU OF PLANT INDUSTRY
U. S. DEPARTMENT OF AGRICULTURE
WASHINGTON, D. C. 20250

APPROVED: [Signature]

RECEIVED: [Signature]

DATE:

APPROVED: [Signature]

Botany Department but we did not collect any seeds last year due to a chaotic situation regarding labelling of materials in the garden. We have this pretty well straightened out now and will probably be in a position to collect and exchange seeds from the 1940 season. We will be glad to exchange lists and seeds next year.

Sincerely yours,

Ray C. Friesner

RCF:mcb

Butler University

REQUISITION

DEPARTMENT Botanical Garden	DATE WANTED by Friday 3-2-40	ORDER NUMBER	REQUISITION NUMBER
REQUESTED: HEAD OF DEPARTMENT	DATE 3-2-40	DELIVER TO (BLDG. AND ROOM) Leave in University truck Friday night and Mr. McCoy will get it first thing Saturday morning.	
RECOMMENDED: DEAN OR ADMIN. OFFICER	DATE		
MATERIAL WILL BE USED FOR Botanical Garden		VENDOR PREFERRED Republic Crocote Co. 1800 South Elba Avenue	

ACCOUNT NO.	QUANTITY	ITEMS (GIVE COMPLETE SPECIFICATIONS)	ESTIMATED COST MUST ALWAYS BE INDICATED
	1 drum (Appx. 54 gal.)	Crocote (price quoted Mr. McCoy was 27¢ if we pick it up) We would like to have Mr. Lightner pick this up at the Republic Crocote Company, 1800 S. Elba the last thing Friday night, leave it on the truck over night, and let Mr. McCoy take it to the Garden the first thing Saturday morning.	14. 00

BUDGET REGISTER	DATE	APPROVED: BURSAR	DATE
INSTRUCTIONS: Include in one requisition only such articles as may be purchased from one firm or individual. Group articles chargeable against each account number. A full description of the articles desired and their intended use will expedite delivery.		APPROVED: PRESIDENT	DATE

G1-25-40-1M

West Virginia University
MORGANTOWN, W. VA.
COLLEGE OF ARTS AND SCIENCES

DEPARTMENT OF BOTANY AND ZOOLOGY

March 5, 1940

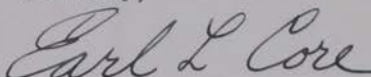
Dr. Ray C. Friesner
Department of Botany
Butler University
Indianapolis, Indiana

Dear Dr. Friesner:

I am glad to know that you are finding our goldenrods interesting and that you feel a paper helpful to students of the group may develop from your work. Under separate cover I am sending about 50 of the maps you requested. Unfortunately, we are at present just a little low on our supply of these maps, but if they are insufficient for your needs we will run off some more.

I believe it would be best, as you suggest, for you to go ahead with the preparation of the paper, putting in all you feel is necessary and then we will see how nearly we will be able to handle it in Castanea.

Sincerely,



Earl L. Core
Curator of the Herbarium

ELC/eab

THE NEW YORK BOTANICAL GARDEN

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

PRESIDENT
JOSEPH R. SWAN

VICE-PRESIDENTS
HENRY DE F. BALDWIN
JOHN L. MERRILL

DIRECTOR
WILLIAM J. ROBBINS

TREASURER
ARTHUR M. ANDERSON

March 5, 1940

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

Dear Dr. Friesner:

It is gratifying to hear that you will be good enough to keep in mind the matter of material of plants which might have insecticidal properties.

I do not think that the material of plants grown in the Garden will be different from that of plants grown wild. We would be pleased to receive 1/4 lb. (dried) collected at the time when plants are sufficiently mature (with mature leaves), and another 1/4 lb. when they commence flowering.

I left for Guatemala March 2nd and will be back at the office in 2 weeks or so.

Sincerely yours,

Bak:Jdc

B. A. Krukoff
B. A. Krukoff

4493 *Hura crepitans* 82
4486 *Hippomane mancinella*
6632 *Thevetia* spp.

UNIVERSITY OF MISSOURI
COLUMBIA

COLLEGE OF ARTS AND SCIENCE
DEPARTMENT OF BOTANY

March 6, 1940

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

Dear Doctor Friesner:

I am writing to inquire if it would be possible for you to collect (or otherwise obtain) for us, burs of last year's plants of different "species" of Xanthium (Cocklebur) from your region. We are interested in obtaining this material for a cytological study of as many "species" as can be obtained. If available, it would be desirable to have brief habitat data for each "species" collected.

For the trouble involved in collecting and sending us burs of Xanthium, we will gladly pay for the labor entailed, or, if desired, we can offer in exchange, named (but unmounted) specimens of Flowering Plants or Bryophytes from Missouri. If an exchange basis is desired, then we will offer four specimens for each collection of two dozen burs of a given "species" sent us. We will, of course, pay any mailing or shipping costs.

Of the various "species" of Xanthium described, we desire to obtain about two dozen burs with viable seed! of the following (which may or may not all be represented in your region):

- X. acerosum Greene
- X. chinense Mill.
- X. echinatum Harr.
- X. globosum Shull.
- X. inflexum Mach. & Bush.
- X. italicum Britt. (X. commune Britt.)
- X. pennsylvanicum Walls. (X. canadense Mill.)
- X. speciosum Kearney
- X. spinosum L.

Please let me know at your earliest convenience whether it will be possible for you to obtain and send us any material of Xanthium and, if so, how many different "species".

Hoping to hear from you soon, I am

Sincerely yours,



William E. Drew
Assistant Professor

WBD/fe

March 7, 1940

Dr. Frank T. McFarland
Department of Botany
University of Kentucky
Lexington, Kentucky

Dear Dr. McFarland:

Yesterday while going over some of our material on Solidago erecta I ran across a sheet from your herbarium containing two specimens, one of which I had incorrectly determined. The label bore your number 3993 from Harboursville, Knox Co. Our sheet under this number contained one specimen of S. erecta and one of S. puberula. I cannot tell whether our mounters may have mixed the specimens or whether there were originally two and I over-looked the fact that they were not alike.

If you will check your sheets containing the above collection number and combine them you can readily differentiate them on the following basis:

Tegules (involucral bracts) distinctly lanceolate, i.e. tapering from below the middle to the apex, and decidedly acute at tip; ray flowers golden yellow..... S. puberula

Tegules oblong, i.e. about uniform in width throughout at least $\frac{3}{4}$ of their length; decidedly obtuse at apex; ray flowers very faded yellowish or almost white..... S. erecta

If there is any doubt about these specimens I would be glad to go over your sheets of them if you care to send them. I am going over all the material of the University of West Virginia just now and have promised two or three other herbaria to do the same. You might care to have me check over all of your Solidago sheets, too, if you don't have so many that it would be impractical to ship them.

Sincerely yours,

Ray C. Priskner

REF:med

DEPAUW UNIVERSITY
GREENCASTLE, INDIANA

March 8, 1940.

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

Dear Prof. Friesner:

Do you have any major student who ranks high in your department and who would be interested in working toward the A.M. degree in Botany at DePauw University? If so, his or her application, qualifications, and recommendations should be in the office of Prof. William E. Edington, Executive Secretary of the Graduate Council, Greencastle, Indiana, before April 1, 1940.

There is a stipend of \$250.00 in addition to free tuition, each year. The student will spend as many hours in technical work in the department as the number of academic hours carried each semester, (8 - 12 hours). Three to four semesters will be required to complete the requirements for the A.M. degree.

Students interested in research in Taxonomy of Plants, with a back ground of Plant Anatomy and Histological Technique are most desired. We are also equipped for research in Bacteriology.

Dr. Yunker, Head of Department and internationally known as a Taxonomist, has been on sabbatical leave this year but plans to return in June, from the South Sea Islands.

We trust you have in mind a well trained major who will be interested in making application to the Graduate Council for one of these scholarships.

Sincerely yours,

Winona H. Welch

Winona H. Welch
Prof. of Botany
Acting Head of Department

March 8, 1940

Dr. B. A. Krukoff
New York Botanical Garden
Bronx Park (Fordham Branch P.O.)
New York, New York

Dear Dr. Krukoff:

A gentleman came into my office today inquiring for information as to how he might secure some seeds of certain tropical trees. Knowing that you are now in tropical America, I thought I might be able to reach you before you return and that you might be able to secure these seeds for him. He would like 3 or 4 ounces of each of the following:

Tropical America - *Hura crepitans* = Euphorbiaceae = Sand box or Javillo. # 34
Tropical America - *Hippomane mancinella* " = manchuuel - Manzanillo - Engelm.
Dutch Guiana - *Thevetia peruviana* apocynaceae - Pullé Fl. D. Guiana

Trop. Wood. 302

p. 203
v. 19c

He would be willing to pay for your trouble.

Sincerely yours,

Ray C. Friesner

Hura crepitans
Engelm. & Proutt
Vol. 19c. 204-5
206

Hippomane manchuella
Engelm. & Proutt. 19c. 203
US Herb. 23: 649
Jamaica
Yucatan } locality.
Vera Cruz
S. Florida
Santo Domingo
Costa Rica
Columbia
Venezuela

RCF:meb

Sapum
U.S. Natl. Herb.
23: 649.
Engelm. & Proutt.
19c (198)



MARYLAND ACADEMY OF SCIENCES

2724 NORTH CHARLES STREET

BALTIMORE, MD.

March 10, 1940.

HERBERT A. WAGNER
Chairman, Board of Trustees
President of the Academy

DR. SEBASTIAN KARRER
Executive Vice-President

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JOHN C. PATERSON
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HERBERT A. WAGNER
JOHN A. WALLS
JOSEPH L. WHEELER
DR. J. CARLTON WOLF

THE MAYOR OF BALTIMORE
HOWARD W. JACKSON (*ex officio*)

The Director,
Dept. of Botany,
Butler University,
Indianapolis, Indiana.

Dear Sir,

Will you kindly forward me a copy of your complete
catalog of botanical publications.

Further, will you advise me as to how I may secure
pictures or photographs of your botanical dept. show-
ing the laboratories, etc.

This latter material I wish to place in my historical
file.

Thanking you for your kind attention in this matter,
I am,

Very respectfully,

R. T. Hampton
R. T. Hampton.

P S.

Will you please forward this material to the address following.

R. T. Hampton. 1182 Washington Blvd.

Specimens received
and acknowledged

3-20-1940

Oklahoma
Agricultural and Mechanical College

DEPARTMENT OF
BOTANY AND PLANT PATHOLOGY
STILLWATER

March 12, 1940

Mr. Ray C. Friesner
Butler University
Indianapolis, Indiana

Dear Mr. Friesner:

I am sending you by express C. O. D. the species
of Solidago which you desire to look over. I also en-
close a few not mounted specimens which you may keep.

I shall be glad to have you make annotations on these
college herbarium specimens as to their correct identifica-
tion. In this collection I did not send any which you
recently sent us in exchange. I assumed that you had all
of these specimens in your own herbarium.

If it is possible I shall be glad to have you return
these specimens by May 15, 1940.

With kindest regards,

Very truly yours,

Robert Stratton

Robert Stratton
Associate Professor

RS:mb

UNIVERSITY OF KENTUCKY



LEXINGTON

COLLEGE OF ARTS AND SCIENCES
DEPARTMENT OF BOTANY

March 12, 1940.

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

My dear Doctor Friesner:

Your letter received for which I thank you. Mr. Shacklette has looked up the specimens in question and he reports to me that the No., 3933 which is in our herbarium is *S. erecta* and there is just one specimen on the sheet. I am sorry that we have but two specimens of *S. puberula*, one from you and the other from Br. Victoria. No Kentucky specimens in our collection.

I shall be more than glad to have you look over our entire collection and as soon as I can find the time to get them packed up I shall send them to you. It certainly will be fine to have all the material checked by one who knows them.

Again thanking you for all past favors, I am,

Yours very sincerely,

Frank C. McFarland

Frank C. McFarland,
Professor and Head of the
Department

Dr. William B. Brown

Department of Botany

University of Missouri

Columbia, Missouri

Dear Dr. Brown:

Your communication regarding burs of *Xanthium* spp. is at hand.

X. chinense, *X. pennsylvanicum*, and *X. spinosum* are listed for the area with a 100-mile radius of Indianapolis.

We will be glad to try to collect burs for you but since I have never done any work in this group at all, I cannot at all certain that I can give you any dependable determination.

Anything we can get for you or do for you at any time will be done without cost to you and with real pleasure for the opportunity to be of service.

Sincerely yours,

Ray C. Friedman

Ray C. Friedman

Ray C. Friedman

Ray C. Friedman

Ray C. Friedman

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Ray C. Friedman

Ray C. Friedman

Ray C. Friedman

Ray C. Friedman

Ray C. Friedman

Dear Dr. Nelson:

Sincerely,

Hunt Institute for Botanical Documentation

March 14, 1940

Mr. Walter Eyerdon
7531 - 19th Avenue N. E.
Seattle, Washington

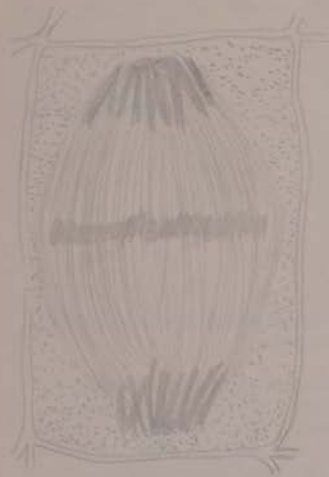
Dear Mr. Eyerdon:

I am enclosing stamps for the two specimens of *Solidago* recently received from you.

I note your request for specimens of *Salix* in exchange for plants of Washington. I am sorry that we do not have a reserve of specimens of this genus. I am sending you two species which happen to be on hand but the material is not in particularly good condition. You are under no obligation for these two specimens. I shall be glad, however, to be on the lookout for specimens for you during the coming season.

Sincerely yours,

5- Later Anaphase



6- Telophase



7- Reconstruction Stage



March 14, 1940

Dr. R. T. Hampton
1182 Washington Blvd.
Baltimore, Maryland

Dear Dr. Hampton:

Your letter requesting catalog of our botanical publications is at hand. We do not have such a catalog available except in card-file form. If a typewritten list prepared from our card file will fulfill your need we will be glad to have such prepared. We would not be able to give immediate attention to this because of the press of other matters, but could probably get it within the next two or three weeks.

We do not have any pictures available but could have some prepared if you can give us some idea of the exact type that would best serve your purpose.

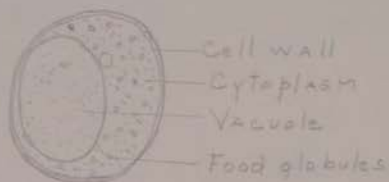
Sincerely yours,

Ray C. Friesner

RCF:neb

SACCHAROMYCETES

Saccharomyces cerevisiae



1. A single cell showing details of cell structure



2. A chain of cells showing budding

March 15, 1940

Dr. Frank T. McFarland
Department of Botany
University of Kentucky
Lexington, Kentucky

Dear Dr. McFarland:

In view of the fact that your sheet of Solidago erecta no. 3993 contains but one specimen while ours of your same number has an additional specimen of S. puberula, together with the fact that you have no Kentucky material of the latter species I am inclined to doubt whether the specimen of S. puberula on our sheet really belongs there. It is possible that our mounters may have gotten the material mixed up though it is hard to see how they could have gotten a specimen from some other collection mixed with yours.

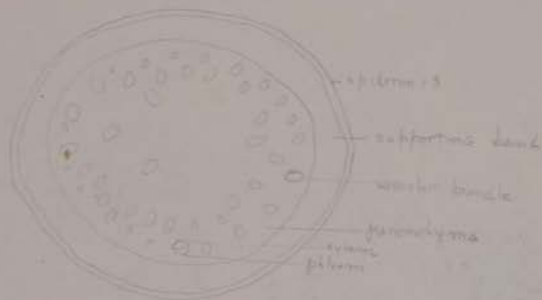
At any rate I would appreciate it if you or Mr. Shacklette could scan the territory from which the specimen came next fall to see whether there is any material of S. puberula there. The matter becomes of considerable importance in establishing the exact range boundaries. This is an eastern species which does not reach Indiana but does reach Pennsylvania, West Virginia, Tennessee, Mississippi. I am glad of the opportunity to go over your material of the genus. You need not worry about how soon you send the specimens because I have quite a little ahead anyway. I shall do my best not to keep them longer than is necessary.

Sincerely yours,

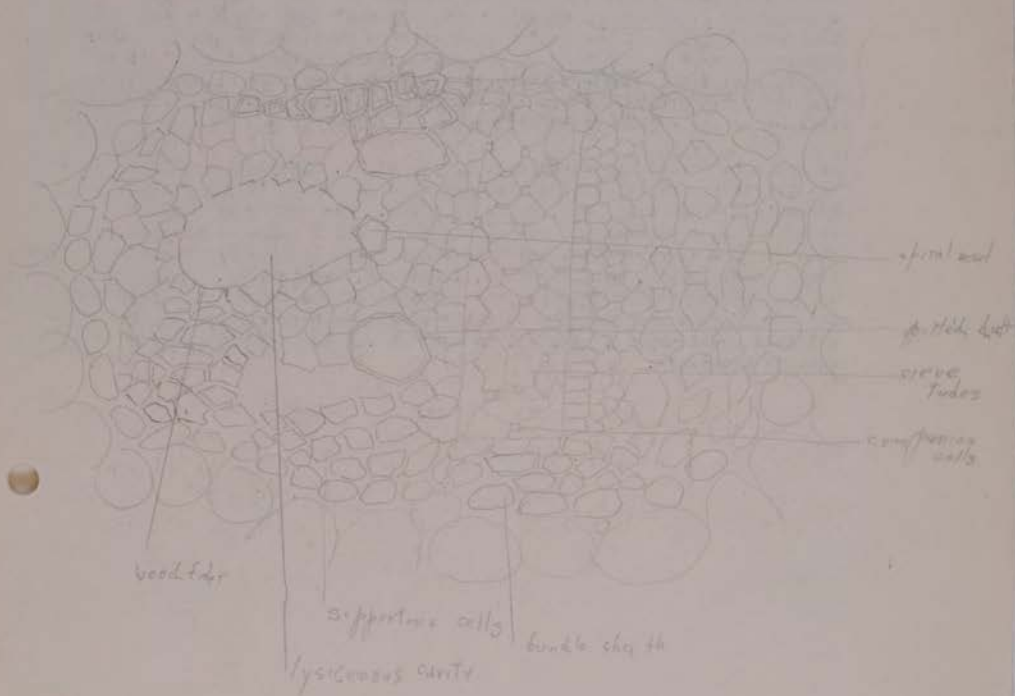
Ray C. Friesner

RCF:mcb

19. Cross section - *Mangrotykelonius* Stein.



20. Vascular Bundle - 2a.



March 15, 1940

Dr. E. Lucy Braun
University of Cincinnati
Cincinnati, Ohio

Dear Dr. Braun:

I appreciate very much your kindness in sending me the recent reprints. I am especially interested in your fern hybrid. In our forthcoming issue of the Butler University Botanical Studies, I have a key to all the species and varieties of fern and fern allies of northeastern North America (approximately the Gray's Manual range) which are cited in the new "Index of North American Ferns" published by Brown and sanctioned by the Gray Herbarium. With your permission I should like to include your new hybrid in the key. I can still get it in as a footnote. I am wondering whether you would care to give it a name and place it in the genus *Asplenosorus*. You will recall that Wherry proposed this name for *Asplenium* - *Camptosorus* hybrids and the Gray Herbarium allowed *Asplenium ebenoides* to be changed to *Asplenosorus ebenoides*. If you care for such procedure, your hybrid would become *Asplenosorus* sp? You could cite any species name you might care to use. If you care to do this I would carry a footnote stating your authority and the name would carry your name as name authority.

If you do not approve of the above, I would be glad to list it just as you have published it but I fear that Wherry will make the change if you don't and this would give you a chance to do it yourself.

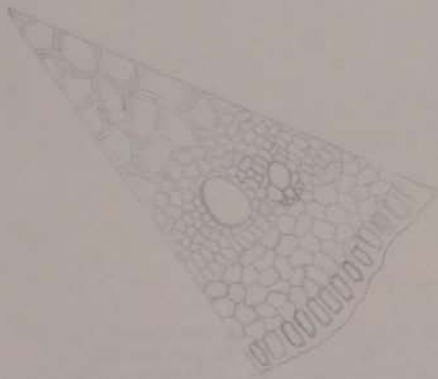
Dr. Potzger and I are both very glad to get your paper on the mixed mesophytic forest. The little diagram says so much to us and certainly fits in well with our observations. In the above-mentioned "Studies" we will also have our "Five-mile Quadrat" study and are recasting it in the light of the conception your diagram gave us. You have pointed us in the right direction more times than you know.

Sincerely yours,

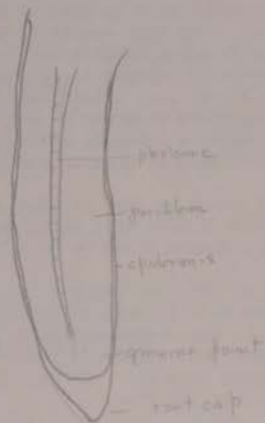
Ray C. Friesner

RCF:meh

14. Cross section of root - water imbibed - *Sandax*



16. Longitudinal section of root tip - *Zea*



17. Detail



March 19, 1940

Dr. H. Daniel
Colegio de San Jose
Medellin, Colombia
South America

Dear Dr. Daniel:

In accordance with your communication of February 22, 1940, I am sending to you 21 separates from the U.S. National Museum Contributions which deal with flora of Colombia and adjacent territory. If these are acceptable to you, you may send me in exchange such plants of your area as you may feel the publications to be worth.

We have need for about 100 grams of each of the following seeds:

Eura crepitans
Hippomane manchinella
Thevetia sp.

If any of these occur in your region we would be glad if you could send them to us.

Sincerely yours,

Ray C. Friesner

RCF:mcb

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TELEPHONE
HARRISON 2960

March 22, 1940

Dr. Ray C. Friesner,
3707 North Gladstone Ave.,
Indianapolis, Ind.

Dear Dr. Friesner:

In spite of the statement made recently by the Carnegie Corporation that most academic degrees are meaningless, my own observation does not bear this out, at least not yet. While it is true that practically every call from Colleges and Universities for help in filling vacancies includes a request for a person with either a Master's or Doctor's degree, I do not find that they are willing to make too many sacrifices in favor of the degree.

The number of calls coming to us this month from institutions of higher learning is taxing our resources. It has occurred to me that you may have in your department some deserving young people who might be interested in these openings. As you probably know, we prefer quality rather than quantity. Our range is of course much greater than that of your local appointment office, and we usually have something real to offer. I would be glad to receive from you any names you care to send and will write to them promptly, or you may prefer to have them write directly to me.

Another field in which teachers with advanced degrees are being sought for more often is in the better class of secondary schools. A large part of our clientele comes under this heading, although our College Department still retains the lead.

Hoping to hear from you, and with best wishes, I remain

Sincerely yours,
ALBERT TEACHERS' AGENCY.

PA:MPW

By *Paul Albert*

DR. ARTHUR S. SANDLER
2700 Devon Avenue
CHICAGO, ILL.

March 26, 1940

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

Dear Sir:

In reference to your letter of March 20, I am indeed grateful for your offer to mount some of the specimens that you have duplicates of.

Your most generous offer is greatly appreciated by both myself, and School which I teach.

The following list is some of the hay-fever flora specimens that I am in need of. Any of these that you can furnish me, will complete my collection for demonstration.

I know that this is quite a favor to ask, but if you can advise me where I may obtain those you cannot furnish me, it will be appreciated.

We wish to thank you for the interest and assistance you are rendering to us. I beg to remain

Yours very truly,

Arthur S. Sandler M.D.

Arthur S. Sandler, M. D.

ARSS:MCG
Inc.

UNIVERSITY OF MISSOURI
COLUMBIA

COLLEGE OF ARTS AND SCIENCE
DEPARTMENT OF BOTANY

March 29, 1940

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

Dear Doctor Friesner:

Thank you very much for your cordial letter of March 13 regarding the collection of various burs of Xanthium.

If you happen to find, in your early spring collecting, burs of different types, we should be most happy to receive them whether or not you are certain of the taxonomic entity involved. At present, we are not attempting to assign names to burs of those plants we find in Missouri!

With best regards, I am

Sincerely yours,



William B. Drew
Assistant Professor

WBD/fe

March 29, 1940

Dr. Earl L. Core, Curator
Department of Botany
University of West Virginia
Morgantown, W. Va.

Dear Dr. Core:

I am almost through with your specimens of *Solidago* but have failed to find any specimens of *S. rigida* or of *S. sphacelata*. The former are sometimes placed in a separate genus, viz. *Oligoneuron* and the latter are usually placed in the genus *Brachychaeta*. I wonder if you would check to see whether you have any species of either of these subdivisions of the genus.

I have a package of material from Oklahoma which must be back to them by May 2, hence I shall take it as soon as I finish with your material. However, the material from Marshall College and that from Concord College might be sent along most any time unless they will be in a hurry to get it back. Will you make the requests to these schools or shall I?

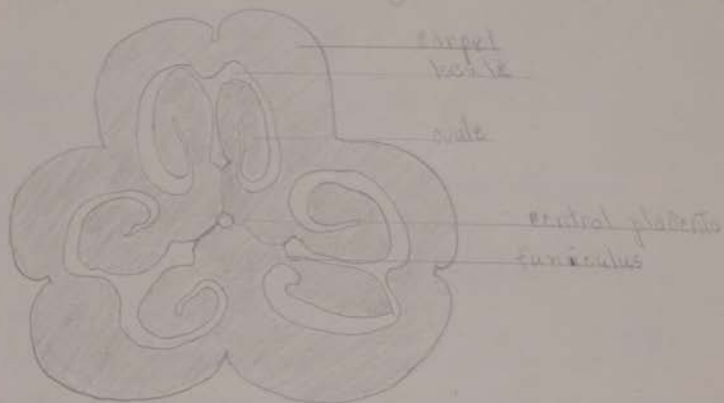
I have found a number of additional interesting species in your set but will discuss them with you later when I get all of the material finished.

Sincerely yours,

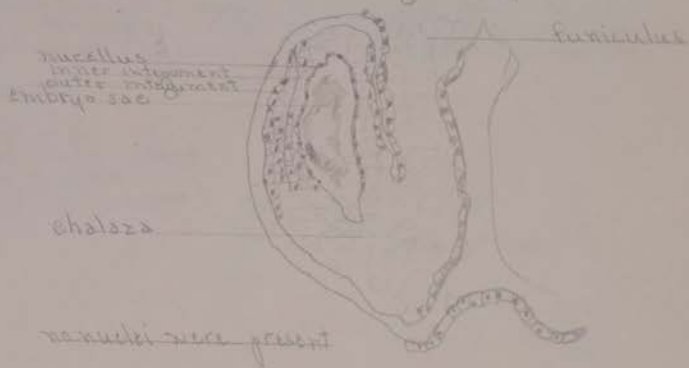
Ray C. Friesner

RCF:meb

1. Ovary - cross section showing ovules - outline - hilum



2. Ovule with female gametophyte - detail



OSBORN BOTANICAL LABORATORY
YALE UNIVERSITY
NEW HAVEN, CONNECTICUT

March 30, 1940.

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

Dear Dr. Friesner:

I notice in Mr. Prettyman's paper on the Fox Prairie Bog, that your department will supply the analyses of the borings not printed in this number of the Butler University Botanical Studies. I would very much appreciate having Spectrum B, from the Fox Prairie Bog, and Spectrum B from the Cranberry Pond, analyzed by Mr. Barnett, and Spectrum B from Lake Cicott Bog, analyzed by Mr. Smith. The Indiana records are extremely interesting, and are proving very important in some work I'm doing, and I^I would certainly appreciate^{having} the above borings.

With good wishes, and many thanks for favors in the past, I remain,

Very truly yours,

Preston Smith

Preston Smith
Osborn Botanical Laboratory
Yale University,
New Haven, Connecticut.