



Hunt Institute for Botanical Documentation  
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#### *About the Institute*

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

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

# RAILWAY EXPRESS AGENCY

INCORPORATED

## UNIFORM EXPRESS RECEIPT—NON-NEGOTIABLE—TERMS AND CONDITIONS

1. The provisions of this receipt shall inure to the benefit of and be binding upon the consignee, the consignee and all carriers handling this shipment and shall apply to any transshipment, or return shipment.

2. In consideration of the rate charged for carrying said property, which is dependent upon the value thereof and is based upon an agreed valuation of not exceeding fifty dollars for any shipment of 100 pounds or less and, exceeding fifty cents per pound, actual weight, for any shipment in excess of 100 pounds, unless a greater value is declared at the time of shipment, the shipper agrees that the company shall not be liable in any event for more than fifty dollars for any shipment of 100 pounds or less, or for more than fifty cents per pound, actual weight, for any shipment weighing more than 100 pounds, unless a greater value is stated herein. Unless a greater value is declared and stated herein the shipper agrees that the value of the shipment is as set above set out and that the liability of the company shall in an event exceed such value.

3. Unless caused by its own negligence or that of its agents, the company shall not be liable for—

- a. Difference in weight or quantity caused by shrinkage, leakage, or evaporation.
- b. The theft, injury, or damage of any freight.
- c. Loss of money, bullion, bonds, coupons, jewelry, precious stones, valuable papers, or other matter of extraordinary value, unless such articles are enumerated in the receipt.

4. Unless caused in whole or in part by its own negligence or that of its agents, the company shall not be liable for loss, damage or delay caused by—

- a. The act or default of the shipper or carrier.
- b. The nature of the property, or defect or inherent vice therein.
- c. Improper or inefficient packing, wrapping, or stowage.
- d. The Act of God, public enemies, authority of law, quarantine, riots, strikes, perils of navigation, the hazards or dangers incident to a state of war, or occurrence in customs warehouses.
- e. The destination by, or partial delivery to the consignee of C. O. D. shipments.
- f. Delivery under instructions of consignee or consignee at stations where there is no record of the company after such shipments have been left at such stations.

5. Packages containing fragile articles or articles consisting wholly or in part of glass must be so marked and be packed as to insure such transportation by express with ordinary care.

6. When registered to a place at which the express company has no office, shipments must be marked with the name of the express station at which delivery will be accepted, or be marked with forwarding address if in a beyond the

express company's line by a carrier other than an express company. If not so marked shipments will be refused.

7. As conditions precedent to recovery claims must be made in writing to the originating or delivering carrier, nine months after delivery of the property or, in case of failure to make delivery, then within nine months and years and one day after the date when notice in writing is given by the carrier or the consignee that the carrier has finally paid the claim or any part or parts thereof.

8. If any C. O. D. is not paid within thirty days after notice of non-delivery to the consignee.

9. Free delivery will not be made at points where the company maintains no delivery service; at points where delivery service is maintained free delivery will not be made at addresses beyond the established and published delivery limits.

10. Special Additional Provisions as to Shipments Forwarded by Vessel from the United States to Foreign Countries.

10a. If the destination specified in this receipt is in a foreign country, the property covered hereby shall, as to transit over seas routes and by their foreign connections to such destination, be subject to all the terms and conditions of the shipper, and of foreign carriers participating in the transportation, and as to such transit is accepted for transportation and delivery subject to the acts, laws, regulations, and customs of various and foreign carriers, port officials, and governments, their employees and agents.

11. The company shall not be liable for any loss, damage, or delay to said shipments over ocean routes until their foreign connections, the destination of which is in a foreign country, occurring outside the boundaries of the United States, which may be occasioned by any such acts, laws, regulations, or customs. Claims for loss, damage or delay must be in writing to the carrier at the point of export or to the carrier issuing this receipt within nine months after delivery of the property at said point or in case of failure to make such delivery then within nine months and fifteen days after date of shipment, and claims so made against said delivery or losing carrier shall be deemed to have been made against any carrier which may be liable hereunder. Claims shall be initiated only within two years and one day after the date when notice in writing is given by the carrier to the consignee that the carrier has finally paid the claim or any part or parts thereof. Where claims are not so made, and if not so far as such claim is concerned, with the foregoing provision, the carrier shall not be liable.

12. It is hereby agreed that the property described in such foreign countries, and consigned with foreign governmental or customs duties, taxes or charges, may be transported in transit at foreign ports, frontiers or destinations, and there being pending examination, assessment and payments, and such duties and charges, when accepted by the company, shall become a lien on the property.

To Destination Office

Consignee <i>Morganthau, W. A.</i>		Enter Date Shipped <i>9-2-20</i>	
Street Address or Non-Agency Destination <i>Pr. Earl L. Corbin, Jr.</i>		Remitt Number <i>Nº 7376</i>	
Name of Forwarding Office <i>The Herbaceous W. A. Morganthau</i>		Declared Value	
(1039-D) Indianapolis, Ind. (E)		Value Charge <b>DO NOT</b>	
Pieces	Article	Description	Weight
<i>1</i>	<i>Box</i>	<i>Butterfly Specimens</i>	
Shipper <i>Butterfly Specimens</i>		Class	Paid in Part
Shipper's Street Address <i>Chapin St.</i>		Scale or Rate	Verified by
		<b>COLLECT</b> (Original)	C. O. D. Service Charge Write in YES or NO <b>X</b>

### SHIPPER'S COLLECT RECEIPT

NOTE—The Company will not pay over \$50, in case of loss, or 50 cents per pound, actual weight, for any shipment in excess of 100 pounds, unless a greater value is declared and charges for such greater value paid.

## RAILWAY EXPRESS AGENCY

INCORPORATED

Received shipment described herein, subject to the Classifications and Tariffs in effect on the date hereof, value herein declared by Shipper to be that entered in space herein reading "Declared Value," which the Company agrees to carry upon the terms and conditions printed herein, to which the Shipper agrees and as evidence thereof accepts this receipt.

<div style="text-align: right;">               For the Company           </div>	Number Pieces	Hour
<b>1</b>		<b>M</b>

The Franz Theodore Stone  
Laboratory  
Put-in-Bay, Ohio

Dear Dr. Friesner:

Under separate cover I am sending you a few golden-rods from the Put-in-Bay region, which I would be glad to have you determine and return to me, if you have time. After September 1 I shall be back in Morgantown, where you may send them. Until that time I shall be here at Put-in-Bay.

Thank you very much for any favor you may be able to render in this connection.

Sincerely  
Earl L. Core  
Ass. Prof. of Botany

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

September 3, 1941

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

Dear Dr. Friesner:

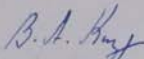
In connection with some rather promising results obtained in toxicity tests with Baccharis sp., we are much interested in receiving an additional supply of this plant, particularly of those species that we have not yet tested. The only species of Baccharis in which we are not interested are B. glutinosa and B. halimifolia.

For our tests we would like to have one pound, or more, of upper branchlets with matured flower-heads.

Please let me know whether or not you are in a position to collect samples of Baccharis species for us.

Your cooperation in this matter would be greatly appreciated.

Very truly yours,

  
B. A. Kruckhoff

Bak/Jd

September 10, 1941

Dr. B. A. Krukoff  
New York Botanical Garden  
Fordham Branch P. O.  
New York, New York

Dear Dr. Krukoff:

Your letter of the 3rd instant is at hand and I am sorry that we have no species of *Baccharis* in our area. As I understand the distribution of species of this genus, none of them get far from the Gulf or Atlantic coastal plain.

I am sorry that I can be of no service to you in this case and hope you will feel free to call upon me at any time when there is a possibility of help.

Sincerely yours,

Ray C. Friesner

RCF:mb

September 10, 1941

Dr. E. E. Good  
Soil Conservation Service  
Peru, Indiana

Dear Dr. Good:

We are planning to work in Miami and Fulton counties this coming Saturday, i.e. Sept. 13, and would be happy to have you join us in case it is convenient for you to do so. We will come by your home if you will give us directions as to how to find it or will meet you anywhere you may say. We plan going north from Peru on Rd. 31. We would be in Peru between 6 and 6:30 daylight saving time.

Sincerely yours,

Ray C. Friesner

RCF:mb





THIS SIDE OF CARD IS FOR ADDRESS

Dr. Roy C. Friesner  
Botany Department,  
Butler University.  
Indianapolis, IND.

Dear Dr. Friesner: -  
That Carex - yellowish - 10  
tall. Sagoye Co. was C  
Cryptolepis Mack. - P. 57  
Flora. That abundant  
Paniceum at Mud Lake  
which you said was P.  
flexile, is ok. It & the  
Delaginella are each  
new to Records. I plan  
to go to Sagoye Mon. 5.30  
P.M. - & work 3 days  
in field if I can cut  
it. Want to go to Horse  
+ Battle ground + 4-5 mi.  
S.W. - Horse I have good  
luck. - See you Sat. - Yours  
M.E.



September 16, 1941

Miss Edith Hicknell  
c/o Richard Moody  
Lincolnville Center, Maine

Dear Miss Hicknell:

Your package of specimens awaited me upon return from vacation. My tardiness in reply has been due to the turmoil of a new year's registration.

I appreciate very much your kindness in sending these specimens. Nearly all of them represent new species for our herbarium from Maine and all of them represent new localities. I have identified the grass as Alopecurus aequalis.

I am sorry indeed that I must miss the meetings of the Jesselyn Botanical Society and each year hope that I may be able to have an entire summer free to spend in Maine. This summer I was required, due to absence of others in the department, to teach until the end of the third week in August and so did not get to Maine at all.

I hope you will have a pleasant autumn and winter and again thank you for your kindness in remembering me with the specimens.

Sincerely yours,

Ray C. Friesner

RCF:mb

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

DEPARTMENT OF BOTANY AND ZOOLOGY

September 17, 1941

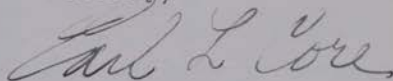
Dr. Ray C. Friesner  
Department of Botany  
Butler University  
Indianapolis, Ind.

Dear Dr. Friesner:

The goldenrods have been received in good order and I certainly thank you for your kindness in looking them over and annotating them.

In a few weeks, as soon as we can sort them out, I am going to send you for your herbarium a few duplicates which have accumulated during the summer.

Sincerely,



Earl L. Core  
Curator of the Herbarium

ELC/eab

September 22, 1941

Dr. D. T. MacDougal  
Carmel, California

Dear Dr. MacDougal:

I am enclosing abstracts of two papers to be presented before the Indiana Academy of Science at its meetings on October 30-November 1. Since the season is not yet over I cannot prepare the final papers dealing with season's results but I thought you might care for these abstracts as sort of preliminary reports. The abstracts do not cover the dendrometer work on white pine in Maine because they are still showing growth. Both individuals have shown continuous increases since the week ending March 30 except for one week when one individual showed an 0.08 mm loss. Weekly gains have varied from 0.008 to 0.60 mm. I shall, of course, present the finished manuscript for your criticism before offering it for publication. In the meantime I shall be glad to supply you with any data I may have which might be of value to you.

During the course of this summer's work I have come across some interesting data with a bearing on the problem of unsymmetrical growth in *Fraxinus americana* but will have to await next year to undertake the further study. To do this I would need 2 or 3 more dendrometers. Do you happen to have any used ones you could sell me? Please do not count entirely on my being able to purchase them because I do not yet know what funds may be available. I am hoping to keep Mr. Wright's interest in this work and any comment you might be able to make to him regarding it would be helpful. However, the last thing I would over think of would be to attempt to unduly influence him.

Appreciating your interest and help in the past, I remain

Sincerely yours,

Ray C. Friesner

RCF:mb  
inc

September 22, 1941

Mr. John S. Wright  
4411 Washington Blvd.  
Indianapolis, Indiana

Dear Mr. Wright:

I am enclosing two abstracts dealing with data obtained during the present season on tree growth. These were prepared in connection with the preparation of papers for the program of the Indiana Academy of Science and are not a complete report of the season's work because the season is not yet over. Pending fuller reports when the season has ended, I thought you might care for these.

Two other projects will be included in the final report of this year's work but they are too incomplete now to warrant attempts at presentation on the Academy program. These are: "Dendrometer studies on white pine in Maine" and "Atmometer and soil moisture studies on sugar maple and swamp white oak-elm associations in Howard county."

Within a week or so, if convenient for you, I would like to discuss the matter of "Emeritus Membership" in the Academy with you.

Sincerely yours,

Ray C. Friesner

RCF:mb  
enc

UNIVERSITY OF CINCINNATI

DEPARTMENT OF BOTANY-BIOLOGY BUILDING

Cincinnati, Ohio,  
Sept. 22, 1941

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

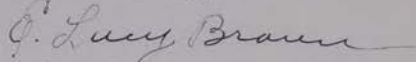
Dear Doctor Friesner:

I would like very much to examine your collection of Solidago, if I may, and to consult with you concerning certain specimens of mine. One I am convinced is a new species, but before publishing, I would like to see a few of the related species which I do not have myself.

Are there any days on which you would have some time to answer questions, if I should come to Indianapolis with my material? As yet I am not sure of my schedule here, but I would try to arrange my visit when most convenient to you. I could reach Indianapolis by 9:30 or 10 o'clock Eastern time, perhaps spend the rest of the fore-noon working over your material so as to eliminate useless questions, and then if you would have an hour or two in the early afternoon, I believe that would be adequate, or perhaps there would be a little time in the morning, too. I would like to get started back by 4 o'clock Eastern time.

My desire to get the Solidago questions straightened out at this time has been crystalized by the getting of good material last week of the species first collected over a year ago and apparently new.

Yours sincerely,



E. Lucy Braun

THE UNIVERSITY OF WISCONSIN  
MADISON, WISCONSIN, U. S. A.

DEPARTMENT OF BOTANY  
BIOLOGY BUILDING

September 24, 1941

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

Dear Dr. Friesner,

I have been collecting material this summer for Dr. Harry Beckman of the Marquette University Medical School for use in his investigations on malaria. He is particularly anxious to obtain a quantity of Sabatia angularis (L.) Pubsh. and unfortunately I have not been able to get it for him.

I had thought that if you were still in the field or had a student who was collecting this fall that you might happen to run across it in the course of your work. If it would necessitate a special trip for someone and if someone was interested in doing it we would be glad to underwrite any reasonable expense involved in collecting and shipping it as well as compensation for the time of the collector; it is unfortunate that our funds are limited somewhat. There is no need to trouble you with unnecessary correspondence- if someone runs across it or can get it they need merely send the material here to me at the Biology building.

We would like about three quarts of fresh material including all parts of the plant- roots, stem, leaves etc.; however any amount smaller than that would be very welcome. The material need merely be packed in some sort of a container and shipped parcel post or express. We grind, dry, and later extract it. S. angularis is of particular interest since several reliable sources have mentioned it as a substitute for quinine.

I hope that it will be possible for someone to collect this material without inconvenience and I wish to thank you very much for your consideration of this matter. If I can be of any service please let me know.

Sincerely Yours,

Forest Stearns



Dear Dr. Friesner,

I have been looking over some botanical duplicates today, and am sending you a few that you may possibly not have collected here in Maine.

A deep rose, perhaps you would call it magenta, fine weed that was brought to Rockland from England by Mrs. William Fiske and planted by the Public Library brook. It has since spread, and can be found in several places growing rankly.

✓ *Imfratians Paysonii* (glanduligera)

Mechanic St., Rockland, Me. Aug. 1938

✓ *Alnus crispa*. var. *mollis*. Ingraham Hill, Owl's Head

✓ *Rhus glabra*. Turner, Me. July 12, 1938

✓ *Veronica Fumefortis*. My yard in Rockland. Sept. 25, 1936.

✓ *Pycnanthemum muticum*, coll. by  
Dr. Anne Perkins in Brunswick, Me. Aug. 13,  
1933.

✓ *Pycnanthemum flexuosum*, coll. by  
Dr. Anne Perkins in Brunswick, Me. Aug. 11, '33

I have found *P. flexuosum* at the south  
end, in Rockland, but have no duplicates.

✓ *Gratiola virginiana*, ditch at Unity  
Me., July 24, 1940

~~*Potentilla palustris* - foot of Sandust  
Hill, Damariscotta, Me. Sept. 10. Never  
have been able to find any flowers, though  
there are many plants here. Too brittle.~~

The specimens are poor, not very  
good to begin with, and broken by  
handling, but you can throw  
them out, without anyone's being  
the wiser.

There is a real feeling of spring  
in the air, so it won't be long before  
we shall be exploring again.

A friend of mine, whom you

met at my cottage. Mrs. Carl Sonntag  
has returned from a six months' visit  
in Ohio and Missouri, with a lot of  
specimens that she found most inter-  
esting, among them a branch of oak  
leaves, without acorns, that I am  
imagining may be *Quercus falcata*.

Yours sincerely,

Edith C. Tuckerm.

12 Knox St.,

Packland, Me.

Feb. 13, 1941

Later.

- ✓ *Gerardia tinctoria*. Coll. by Dr. Anne  
Perkins at No. 1 Berwick, Me. July 26, 1940
- ✓ *Proserpinaca palustris* - Norton Pond,  
Lincolnville Center, Sept. 11, 1940
- ✓ *Thymus serpyllum*. Coll. by Dr.  
Anne Perkins on a bluff at York Beach  
Aug. 14, 1940
- ✓ *Veronica agrestis*. Castine. July 6, '37  
Coll. by Dr. Perkins.

September 25, 1941

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

Dear Dr. Braun:

Your letter of the 22nd is at hand. We shall be very glad to have you come to Butler to examine our material of the genus *Solidago*. You may suit yourself about the time of coming, the only time inconvenient for me being Thursdays or Saturdays. Both of these days are being spent in the field. My classes on the other days are over by 9:50 central time, except for laboratory work from which I can easily get away after getting it started.

I am sending you a reprint of my paper on *Solidago* in West Virginia in which I have given detailed measurements of the local species. These measurements may be of some value to you in this particular case.

I am not certain whether you know how to find Butler. If you drive, come out Capitol Avenue or Meridian Street to 45th Street and turn left to the end of it. If you come by bus or train, take a streetcar on Illinois Street marked "Butler University". The botany department is in Rooms 330 to 343 in the center section of Jordan Hall. We will look forward with pleasure to your coming.

Sincerely yours,

Ray U. Friesner

RCF:mb

# II THE PHYSICAL NATURE OF THE PROBLEM

1. The first problem is a simple one, but it is a problem which has been discussed in the literature for many years. It is the problem of the distribution of the physical properties of a system. The problem is to find a way to describe the physical properties of a system in a way which is independent of the choice of coordinates. This is a problem which has been discussed in the literature for many years.

2. A second problem is a more difficult one. It is the problem of the distribution of the physical properties of a system in a way which is independent of the choice of coordinates. This is a problem which has been discussed in the literature for many years.

3. A third problem is a more difficult one. It is the problem of the distribution of the physical properties of a system in a way which is independent of the choice of coordinates. This is a problem which has been discussed in the literature for many years.

September 26, 1941

Dr. H. I. Anderson  
Business Manager  
Biological Abstracts  
University of Pennsylvania  
Philadelphia, Pa.

Dear Dr. Anderson:

I am enclosing a list of recent graduates and present graduate students in the Botany Department of Butler University. I have turned your letter over to Dr. R. B. Pearson who will send you a similar list from the Zoology Department.

I hope you will succeed in increasing the subscriptions greatly.

Sincerely yours,

Ray C. Froese



RECENT GRADUATES IN BOTANY

Recent Graduates in Botany,

Butler University

- Dr. Russell Artist, Amarillo College, Amarillo, Texas
- Mr. Joan Barnett, Chowan High School, Edenton, N.C.
- Dr. Dwight Billings, Univ. of Nevada, Reno, Nevada
- Dr. Rexford Daubenshire, Univ. of Idaho, Moscow, Idaho
- Dr. George Fischer, Bureau of Plant Industry, Pullman, Wash.
- Miss Florence Geisler, 2237 E. Dearborn St., Indianapolis, Indiana
- Mrs. Thomas Bank, 30 E. Drexel St., Indianapolis, Indiana
- Dr. Moo Higinbotham, Department of Botany, Columbia Univ., New York
- Dr. Florence Hooper, Stout Institute, Menomonie, Wisconsin
- Mr. C. Don Klopp, Stortridge High School, Indianapolis, Indiana
- Mr. Mordie Lee, Broad Ripple High School, Indianapolis, Indiana
- Dr. Marjorie McConaha, Northwestern State College, Alva, Okla.
- Mr. Scott McCoy, Technical High School, Indianapolis, Indiana
- Dr. F. T. Mohrlisch, A. H. P. C., Honolulu, Hawaii
- Dr. John A. Moore, Wayne College, Fremont, Nebraska
- Dr. Lowell Mullen, Box 446 College Station, Pullman, Washington
- Mr. James Otto, Washington High School, Indianapolis, Indiana
- Dr. Dorothy Parker, St. Mary's College, Holy Cross, Indiana
- Prof. Robert Prettyman, College of Pharmacy, Indianapolis, Indiana
- Mr. William Smith, Howe High School, Indianapolis, Indiana
- Miss Ina Stanley, 917 E. 48th Street, Indianapolis, Indiana
- Dr. Oran Stanley, Colgate University, Hamilton, New York
- Dr. Rex Webster, Middlebury College, Middlebury, Vermont
- Mr. Robert Whitmore, Department of Botany, Chicago Univ., Chicago, Ill.



RECEIVED THOMAS YATES

10-0001 - 10-0001 10000

STANDARD

STANDARD-21

STANDARD

STANDARD  
STANDARD

STANDARD  
STANDARD

October 1, 1941

Dr. Forest Stearns  
Department of Botany  
University of Wisconsin  
Madison, Wisconsin

STANDARD  
STANDARD  
STANDARD

STANDARD

Dear Dr. Stearns:

STANDARD  
STANDARD  
STANDARD

STANDARD

Your communication regarding *Sabatia angularis* is at hand. This species flowers with us in July and early August and cannot be located this late in the season. Even though the above is true, we made a trip to an area 25 miles southwest of Indianapolis where it grows in abundance in order to make certain. None could be located.

I am sorry that we cannot help in this case and offer the suggestion that we will be glad to send you some next year should you still be in need of it.

Sincerely yours,

STANDARD  
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Ray C. Friesner

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UNIVERSITY OF KENTUCKY



LEXINGTON

COLLEGE OF ARTS AND SCIENCES  
DEPARTMENT OF BOTANY

October 2, 1941.

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

My dear Doctor Friesner:

Your letter of July 29th received many weeks ago and just when we were getting established at Cumberland Falls with our teaching work in Systematic Botany. I did not have very much time to get to the correspondence and now I am trying to get so many things done and I am working day and night to finish.

I appreciate very much the correction which you made on *Solidago sphacelata* R. and since I thought that two of my supposed to be able assistants identified this plant, I did not even take a look at it. Many thanks for the correction which I most sincerely welcome and I am enclosing a new label for it.

Now to return to the supposed to be able assistants, neither are now with me. Shacklette got peeved how things were going and thought he was abused and it was necessary for him to leave. Sometimes young fellows get so important that they feel that they are very important and the department cannot get along without them. Then Harvill a poor grade graduate student who worked the composites of the state checked the above mentioned plant and you can readily see how accurate his determinations are. As far as I know Shacklette is down and out and has no job and has no money to continue in school. Will tell you more when I see you sometime.

Now the nicest thing has happened. Dr. Deam is coming down to Central States Foresters Conv. at Cumberland Falls 9-10 of this month and all these years I have begged him to come down and stay a few days with us and he (she) has finally agreed to come. I trust he will not change his mind. One man I think the world of as he is a wonderful fellow and even at his age is still going strong.

Wish you could come down and be at the meeting.

I tried hard to get my second Century out this year but it will have to stay in the cases until I can get them finished next spring. Last March I was forced in for a major operation and I did not get out to do any spring collecting and for that reason I was not able with the fine help of a couple of fine assistants, I was not able to get more than 70 kinds collected. Last summer we collected only 25 sets and I thought then that we would never be able to dispose of these but they went like hot cakes and this year we collected 30 sets and I suppose that we will not have enough then. You are on my list and you shall receive as the other centuries are completed, the ones that we distribute. I like to send out specimens as nearly perfect as possible and receive likewise and you specimens are beautiful. Shallert (Dr) is improving some since I wrote him and advised better preparation of specimens. He took it good naturedly.

Trusting that you have had a nice summer and that you are back in harness and kept busy enough so that you don't get into mischief, and trusting to see you soon, I am,

Yours very sincerely,

*How would you advise  
binding your Butler Univ.  
Studies, by volumes or  
Several volumes together?  
Also have you a spare copy  
of Solidago issue?*

Frank T. McFarland,  
Professor and Head of the  
Department.

THE UNIVERSITY OF WISCONSIN  
MADISON, WISCONSIN, U. S. A

DEPARTMENT OF BOTANY  
BIOLOGY BUILDING

October 3, 1941

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

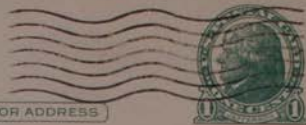
Dear Dr. Friesner

I want to thank you very much for your letter in respect to Sabatia angularis. Dr. Beckman and myself greatly appreciate your attempt to get it for us. I was afraid that the flowering season had passed, but had hoped that the plant would still be recognizable.

We shall certainly need some of it next year but may attempt to get it from further south where, perhaps, it will be available considerably earlier than in Indiana. If I find that that is not the case we will be very happy to take up your generous offer.

Sincerely Yours,

Forest Stearns



THIS SIDE OF CARD IS FOR ADDRESS

Ray C. Friesner  
Butler University  
Indianapolis, Indiana

Dear Dr. Friesner,

Yes, I have : Vol. 5 numbers 1-8,  
April, 1941 of your Botanical Studies.  
Thanks!

Do you wish collections  
of Solidago from down here?

Sincerely

Wilbur H. Duncan  
Univ. of Georgia

Kokomo, Ind. Oct. 2 - 1941.  
1812 North Purdue St.

My dear Doctor Friesner:

I am sending you the Shunk  
woods Flora which I worked out Sun.  
+ Mon. from notebook. On Sept. 25<sup>and Sept. 11</sup> as I  
got soil samples I went over it again <sup>Sept. 25</sup>  
with few additions. I regard it as fairly  
complete and accurate. On Oct. 3 - a  
little late - found no new species. Possibly  
should have been arranged either ~~alphabetically~~  
alphabetically or by Flora. But since entire  
year will be given as a whole, this can  
be worked in.

While I am sending this, there are  
a few Misc. items I can mention.  
I got to tell you Oct. 4. I'd sent in an  
abstract on Bermuda Grass. If  
they can't use it, of course it will be OK.  
Don't know if I'll get to go Greenacres.  
My<sup>3</sup> children will have to help me



2

if I attend. I cannot permit you to  
do it - Young done so much. Deam  
said you best him to it at Lake  
Sewart, - which I forgot to mention.  
Paying my Academy fees - <sup>books</sup> - all  
these - and my weekly expenses for 21  
days in 1941 - also 1939 - '40 - As I've  
told you personally, there is no way  
for me to adequately Thank You  
enough. I know of no one who has  
a higher conception of wealth and  
Ability - Education etc than have you -  
Dean and Potzger. Without your (3)  
aid, help, sympathy in every way - I  
could have counted for (practically)  
nothing. It's been a combination of  
Car. & scientific help - and knowledge of  
flora, regions and the like, - all indispen-  
sable to the success I have attained.  
I'll write Dr. Deam when he gets back  
from Ken. Tenn. - oat-hickory trip - to see  
if he is going + if he can come thru Kokomo.  
That was fine of you to make this

from EL  
17-X-41

3.

Howard County paper, a joint paper.  
This is a high honor. I hope to  
live to see it in final form. I  
shall be glad to help in the percent...

I have a bound copy of Blatchley's  
Coleoptera of Indiana. - The two former  
librarians gave it to me - at least I  
have it - and I want Butler to event-  
ually have it. - They sold and destroyed  
about 200 books I gave them in May 1933  
besides some valuable papers worth this beetle  
book. - The old librarian took her life in  
Nov. 1935 - and the only answer I ever  
got to my inquiries was "I don't know".

You have sent me 3 long lists of  
plants of mine that are in your Butler her-  
barium: - Nov. '37, Mar. '38 and Feb. 1941. In  
these are some species not yet recorded in  
Indiana. These can be regarded as new-  
County records. - I should think. A  
few I may not get an opportunity to get again  
as *Monarda punctata*, Miami Co.  
As yet I'm not making much

headway at Co. <sup>4</sup>Records. Still have a lot  
drying and some misc. things to do. - The  
season is about over.

This is enough for once.

It has been a wonderful summer.

21 "Friesner dogs" with Deary and  
Potyfes thrown in a few days for  
good measure.

I've surely been lucky - fortunate.  
I can only hope that my  
specimens and meager contributions  
will, in a small way, help to  
compensate you for all this kindness.  
These trips have meant everything to  
me - It saddens me much to  
think that I'll not get ready on  
Fri. night - nor await you on  
Sat. AM. - for the plant season is ended.

You are very (too) busy. - There is probably  
nothing herein that needs an immediate  
reply. - I'll include nothing in Co. Records  
that I'm not positive of.

Very Sincerely yours -  
Chas M. - El.



Wed. A<sup>5</sup>M.

from EK  
7-8-41

Dear Dr. Friesner!

I shall be glad to have any suggestions at any time, as to Records - specimens . . . . .  
I'll separate the Muhlenbergia for Dr. Potyger. Sorry I didn't know about his need for barn-yard grass. Had chance to get loads of it in low cornfields.

That brief Whitley & Co. stop at Railroad - our last stop -  
- rain - yielded some New Co. Records!

And so. - I bid you  
Adieu for a time - with  
only the Farest Memories  
remaining of Three Summers  
collecting. I shall hasten

with the enormous job ahead of  
me - with all the speed my eyes &  
will permit.

Sincerely Yours,

C. M.

E.

October 9, 1941

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

Dear Dr. McFarland:

I appreciate greatly your letter of the 2nd instant and the fact that we may look forward toward receipt of your next century of Kentucky plants when you have them ready. I think you should not worry about the fact that you did not get a full century of plants collected this year. When such duties are superimposed upon a full job of teaching plus administrative work you will have to be content with doing what you can.

I am sending you three copies of the Solidago key and can let you have more if you want them. There have been some name changes since it came out, a list of which I am enclosing.

Regarding the binding of our Botanical Studies, we have been binding them in two's. This makes a book of somewhat over 400 pages.

Sincerely yours,

Ray C. Friesner

RCF:mb



THE NEW YORK BOTANICAL GARDEN

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WILLIAM J. ROBBINS

October 9, 1941

Dr. Ray C. Friesner  
Butler University  
Indianapolis, Indiana

Dear Dr. Friesner:

Early in 1942 I expect to make a new distribution of Brazilian plants collected largely by my assistant. The larger sets will amount to approximately 500-600 specimens each. I shall reserve a small set for you. At present I do not know how many specimens the smaller sets will consist of. Please keep me in mind when distributing your sets.

Very truly yours,

*B. A. Kyukoff*  
B. A. Kyukoff

Bak/Jd

October 10, 1941

Mr. Charles M. Ek  
1812 Purdum Street  
Kokomo, Indiana

Dear Mr. Ek:

Thanks for the lists of plants at the various stations in  
Shenk woods. I expect to devote most of my Saturdays to the  
preparation of papers from the data at hand and so have hopes  
of getting the Shenk's woods paper in the next issue of the  
Studies. After the manuscript is completed in the rough, I  
will send it to you for suggestions and criticisms before we  
type it in the final form.

I have a letter from Dean in which he asked me to make reser-  
vations for you at the Academy meetings. He will come by and  
pick you up sometime on Thursday. He wishes you to be his  
guest.

If you have time to go over the lists of plants we sent for  
1937, '38 and '41 as having been placed in the Butler Herbarium  
and pick out the new county records, I will put them in the  
1941 report. I hope to get time before the year is over to go  
over the material still in the "haymow" and new records from it  
can be added to the 1942 report.

I have the same feeling of sadness, too, when I realize that we  
will not be out on Saturdays for a while. But when I reflect  
that it is necessary to stay in for a season if we are to make  
the most of what we have already gotten the matter reduces itself  
to one of choices. After all another season will be along, per-  
haps before we are ready for it.

Sincerely yours,

Ray C. Friesner

RCF:mb

October 14, 1941

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

Dear Dr. Krukoff:

I shall be glad to receive your South American specimens and will have in the neighborhood of 200 specimens to send you as soon as the collecting season is over and we can get the labels typed. This year I have been poisoning all of my material in an alcoholic-glycerine solution of mercuric chloride. This applies to exchange material as well as that for our own mounting.

Sincerely yours,

Ray C. Friesner

RCF:mb

Kokomo, Indiana. <sup>From Ex.</sup> Oct. 19, 1941  
1812 North Purdue St.

Dear Doctor Friesner:

I am sending you my paper  
on Bermuda grass. I wish at  
times I had not undertaken it.  
Already have more than I can do. I  
wish you could go over it - or better,  
submit it to Dr. Potzger - for  
improvement. Or if you - he -  
think it good enough - or passable,  
- could you type it? - Don't know  
whether the word spot - should be  
used... Some of the sentences could  
be revamped into more suitable  
language. Don't put a lot of time  
on it, - since you <sup>and</sup> Dr. Potzger are  
used to lecturing and writing - you  
can probably type it at ~~so~~ once after  
one reading. I shall ~~give it~~ present it  
off-hand.

I am about  $\frac{1}{4}$  through my boxes -  
21 done out of 55 <sup>3</sup> boxes. I'll not get all

if them finished? Am not doing a  
thorough job - 'Quit!' When I come  
across a new & hard *Carex* - grass -  
*Crataegus*, hickory, etc. - I pass it on -  
until later. - I'll not get time to go thru  
those lists either now. So a lot will  
have to wait until Nov. - Dec. - & winter.  
yr. 1942. To date I have 191 New Co. records.  
The total will be 300-400 - at least. My  
Clinton Co. specimens were about  
85 1/2 New Co. records - a real record.  
1 Lab Muhlenbergia that we collected  
near a lake; Crooked lake - *Physalis pruinosa*  
Station, - dinner station, - was M.  
foliosa + not M. mexicana as we said.  
You remember the Pilea fontana  
station - I went west 4-5 miles Oct.  
& and found a lot of P. fontana in  
Howard Co. - tall specimens.

Made 2 trips 1941 to Miller bog + 1  
to Miller bog - I've raised a lot of dust  
over *Bidens aristosa* (?) It seemed to be  
this in flower. Today I went after it  
in fruit and by Dean - it keys



from Ek 19-8-41

perfectly - exactly to *Bidens Coronata*!  
- Deam says Fernald has " " "  
divided into 4 varieties - This is  
certainly one of them - for it is not  
the tall common *B. (trichosperma) coronata*.  
And so we learn - (and gladly - tho it  
knocks out *B. aristosa* var. *mutica* as a new  
C. record. Doubtless it is depauperate and a  
hold-over - persistent - from former boggy  
days.

In my List I have omitted some  
that I am sure you have.

If you think the Gross paper will  
pass as it is - One of your typists can  
type it + give it to me at the meeting.

One same day as I rec'd your letter, I  
got a letter from Dr. Krickoff - saying  
that Merch + Co. - would want 1000 lbs.  
of Asafe Oranges. - Wrote to Folkers - & expect  
a reply in day or two. - I haven't time - but  
could not turn it down or ignore it. Krickoff  
is now in S. America - back Nov-27.

Think this is all the items I'll



4

trouble you with now -  
Got your card - + will try + have  
list ready - by Oct 30 - not a small task.

I forgot to mention fact of  
postage on Soil Samples - You gave me  
a \$ bill - + I mailed them 4 times as  
I remember - so I owe you 36 - 37¢.  
I sent a half-dollar coin - for a trial  
- 20 week - subscription for your dear -  
I had planned this long ago - Magazine  
is In Fact - a little 4-page sheet -  
No Propaganda - only Facts - I devour  
it every week. Though you, I, - Dean,  
are busy, - our botanical bumps should  
not become abnormal. - It's a recreation  
to go thru it - In Fact -  
I still owe you the rest of \$,

Very Sincerely Yours

C. L. H. m.

Ek

October 21, 1941

Dr. Rudolph Bertheau  
American Eugenics Society  
120 Building  
New York City, New York

Dear Dr. Bertheau:

I am enclosing the list of names with 5 names checked. I am doubtful about the possibility of being able to secure these as new members. All of those marked are now graduates, three of them teachers in the local high schools and two have secured employment in local scientific laboratories. They are the ones who ought, theoretically, to be most likely but it may be that they have not yet recovered sufficiently from the expense of their college course to feel that they can spare the money. However, I will do what I can to follow up.

Sincerely yours,

Ray C. Friesner

RCF:mb

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October 20, 1941

Dr. Ray C. Friesner  
Butler University  
Indianapolis, Indiana

Dear Dr. Friesner:

In Mr. Krukoff's absence I wish to acknowledge the receipt of your letter of October 14th.

Mr. Krukoff is away on a brief trip to South America and is not expected back before November 27. I shall bring your letter to his attention when he returns to the office.

Very truly yours,

*Josephine De Caro*

Josephine De Caro  
Secretary to Mr. B. A. Krukoff

/JD

MARYGROVE COLLEGE  
DETROIT, MICHIGAN

Dr Ray C. Friesner  
Butler University  
Indianapolis Ind,

Oct. 21, 1940.

Dear Dr. Friesner

Thank you very kindly for the two copies of "Botanical Studies" which I received this week. I am sure I am going to enjoy reading them as the subjects treated in your articles are ones in which I am much interested.

I intend to send you some of my "Solidago's" to straighten out for me some day when I get the time to sort them out <sup>and</sup> get them ready.

Thanking you again for your kindness I remain  
Yours sincerely  
Sister M. Vincent de Paul

THE UNIVERSITY OF GEORGIA  
DIVISION OF BIOLOGICAL SCIENCES  
ATHENS, GEORGIA

October 28, 1941

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

Dear Dr. Friesner:

Under separate cover I am sending a set of one hundred trees in fruit. When you open the package be careful to not let the fruits roll out of the newspapers as they are just lying loose inside. Also you may need to treat for insects as I am not sure that we have killed all of them before they were wrapped.

Enclosed you will find a mimeographed list of the species being sent.

Sincerely yours,

WHD:kra:encl.

*Wilbur H. Duncan*

Wilbur H. Duncan  
Instructor in Botany

*Acer floridanum* (Chapm.) Pax.  
*A. leucoderme* Small.  
*A. Negundo* L.  
*A. rubrum* L.  
*Aesculus pavia* L.

*Albizia julibrissin* Dur.  
*Alnus rupestris* (DuRoi) Spreng.  
*Amelanchier laevis* Wieg.  
*Asimina triloba* (L.) Dunal  
*Betula lenta* L.

*Bumelia lanuginosa* (Michx.) Pers.  
*B. lycioides* Gaertn. f.  
*Carpinus caroliniana* Walt.  
*Castanea ashei* Sudw.  
*C. pumila* (L.) Mill.

*Celtis georgiana* Small  
*C. mississippiensis* Bosc.  
*Cephalanthus occidentalis* L.  
*Cercis canadensis* L.  
*Chamaecyparis thuyoides* (L.) B.S.P.

*Cliftonia monophylla* (Lam.) Britt.  
*Cornus alternifolia* L.  
*C. florida* L.  
*Crataegus brachyacantha* Engelm. & Sarg.  
*C. Michauxii* Pers.

*C. Ravenelli* Sarg.  
*C. spatulata* Michx.  
*C. viridis* L.  
*Cyrilla racemiflora* Walt.  
*Diospyros virginiana* L.

*Elliottia racemosa* Muhl.  
*Fagus grandifolia* Ehrh.  
*Fraxinus americana* L.  
*F. biltmoreana* Beddle  
*F. caroliniana* Mill. (glaucous)

*F. caroliniana* Mill. (pubescent)  
*F. pennsylvanica* var. *lanceolata* (Borkh.) Sarg.  
*Halesia carolina* L.  
*H. diptera* Ell.  
*Ilex decidua* Walt.

*I. verticillata* Walt.  
*I. opaca* Ait.  
*I. vomitoria* Ait.  
*Juniperus virginiana* L.  
*Kalmia latifolia* L.

*Liquidambar styraciflua* L.  
*Liriodendron tulipifera* L.  
*Magnolia cordata* Michx.  
*M. Fraseri* Walt.  
*M. virginiana* L.

*Melia azedarach* L.  
*Morus alba* L.  
*M. rubra* L.  
*Myrica cerifera* L.  
*Nyssa biflora* Walt.

*N. ogeche* Marsh.  
*N. sylvatica* Marsh.  
*Osmanthus americanus* (L.) B. & P.  
*Ostrya virginiana* (Mill.) K. Koch.  
*Oxydendrum arboreum* (L.) DC.

*Persea borbonia* (L.) Spreng.  
*Pinckneya pubens* Michx.  
*Pinus echinata* Mill.  
*P. rigida* Mill.  
*P. virginiana* Mill.

*Platanus occidentalis* L.  
*Prunus americana* Marsh.  
*P. angustifolia* Marsh.  
*P. unguis-cati* Small.  
*P. serotina* Ehrh.

*P. umbellata* Ell.  
*Quercus alba* L.  
*Q. austrina* Small.  
*Q. Catesbaei* Michx.  
*Q. Chapmani* Sarg.

*Q. cinerea* Michx.  
*Q. falcata* Michx.  
*Q. georgiana* M. A. Curt.  
*Q. lyrata* Walt.  
*Q. margareta* Ashe.

*Q. marilandica* Muench.  
*Q. montana* Willd.  
*Q. nigra* L.  
*Q. oglethorpensis* Duncan  
*Q. Phellos* L.

*Q. prinus* L.  
*Q. shumardii* Bukl.  
*Q. stellata* Wang.  
*Q. velutina* Lam.  
*Q. virginiana* Mill.

*Rhamnus caroliniana* Walt.  
*Rhus copallina* L.  
*R. glabra* L.  
*R. typhina* L.  
*Sassafras variifolium* (Salisb.) Ktze.

*Stewartia malacodendron* L.  
*Symplocos tinctoria* (L.) L'Her.  
*Tunonia taxifolia* (Arn.) Greene  
*Vaccinium arboreum* Marsh.  
*Viburnum rufidulum* Raf.



# IT THE PHYSICAL BEING OF THE

1. The plant is a small (1) herb (2) with (3) leaves (4) and a (5) flower (6) (7) of (8) yellow (9) color (10). It has (11) six (12) stamens (13) in its (14) root (15) cells. (16) The (17) flower (18) is (19) a (20) small (21) flower (22) with (23) six (24) stamens (25) in its (26) root (27) cells. (28) The (29) flower (30) is (31) a (32) small (33) flower (34) with (35) six (36) stamens (37) in its (38) root (39) cells. (40) The (41) flower (42) is (43) a (44) small (45) flower (46) with (47) six (48) stamens (49) in its (50) root (51) cells. (52) The (53) flower (54) is (55) a (56) small (57) flower (58) with (59) six (60) stamens (61) in its (62) root (63) cells. (64) The (65) flower (66) is (67) a (68) small (69) flower (70) with (71) six (72) stamens (73) in its (74) root (75) cells. (76) The (77) flower (78) is (79) a (80) small (81) flower (82) with (83) six (84) stamens (85) in its (86) root (87) cells. (88) The (89) flower (90) is (91) a (92) small (93) flower (94) with (95) six (96) stamens (97) in its (98) root (99) cells. (100) The (101) flower (102) is (103) a (104) small (105) flower (106) with (107) six (108) stamens (109) in its (110) root (111) cells. (112) The (113) flower (114) is (115) a (116) small (117) flower (118) with (119) six (120) stamens (121) in its (122) root (123) cells. (124) The (125) flower (126) is (127) a (128) small (129) flower (130) with (131) six (132) stamens (133) in its (134) root (135) cells. (136) The (137) flower (138) is (139) a (140) small (141) flower (142) with (143) six (144) stamens (145) in its (146) root (147) cells. (148) The (149) flower (150) is (151) a (152) small (153) flower (154) with (155) six (156) stamens (157) in its (158) root (159) cells. (160) The (161) flower (162) is (163) a (164) small (165) flower (166) with (167) six (168) stamens (169) in its (170) root (171) cells. (172) The (173) flower (174) is (175) a (176) small (177) flower (178) with (179) six (180) stamens (181) in its (182) root (183) cells. (184) The (185) flower (186) is (187) a (188) small (189) flower (190) with (191) six (192) stamens (193) in its (194) root (195) cells. (196) The (197) flower (198) is (199) a (200) small (201) flower (202) with (203) six (204) stamens (205) in its (206) root (207) cells. (208) The (209) flower (210) is (211) a (212) small (213) flower (214) with (215) six (216) stamens (217) in its (218) root (219) cells. (220) The (221) flower (222) is (223) a (224) small (225) flower (226) with (227) six (228) stamens (229) in its (230) root (231) cells. (232) The (233) flower (234) is (235) a (236) small (237) flower (238) with (239) six (240) stamens (241) in its (242) root (243) cells. (244) The (245) flower (246) is (247) a (248) small (249) flower (250) with (251) six (252) stamens (253) in its (254) root (255) cells. 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DEPARTMENT OF BOTANY AND ZOOLOGY

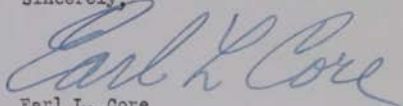
October 31, 1941

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Butler University  
Indianapolis, Ind.

Dear Dr. Friesner:

Under separate cover I am sending a specimen, which you may retain for your herbarium, of what looks like Solidago uliginosa, which would be new to West Virginia if correctly identified. I am not quite certain as to how this species is separated from S. unilugulata, which occurs in similar places, i. e., bogs at high altitudes. Would you be kind enough to check the specimen and let me have your determination. Thanks immensely.

Sincerely,



Earl L. Core  
Curator of the Herbarium

ELC/eab

1. One of the specimens is a small (1) plant, with darkish  
leaves, very (2) and a lower (3) of yellow (4). It has  
the specimens in the root system. Diagram a possible distribution of the  
leaves for the above characters.

2. A certain variety of the (1) plant, with darkish  
leaves, very (2) and a lower (3) of yellow (4). It has  
the specimens in the root system. Diagram a possible distribution of the  
leaves for the above characters.

November 4, 1941

Dr. Wilbur E. Duncan  
Department of Botany  
University of Georgia  
Athens, Georgia

Dear Dr. Duncan:

Your package of herbarium specimens came last Friday. Work  
is so heavy just now that I shall not open them for a few  
days but I am certain they will make a valuable addition to  
our herbarium and I am very grateful to you for them. The  
presence of fruits makes them all the more valuable and I  
am exceptionally pleased to get so many oaks.

Your card came this morning and in answer I would be very  
glad to get material of *Solidago* either named or unnamed.  
In case of the latter I would be glad to forward my deter-  
minations when completed.

Sincerely yours,

Ray C. Friesner

RCF:mb

November 6, 1941

Dr. Earl L. Core  
West Virginia University  
Morgantown, West Virginia

Dear Dr. Core:

The specimen recently sent from Blister Swamp on Cheat Mountain is Solidago uniligulata (DC) Porter. It differs from the usual specimens of this species in that the heads are less secund and the inflorescence shorter and more compact. It cannot be S. uliginosa because that species is very much more slender with a long, narrow and wandlike inflorescence. The achenes on your specimen are slightly pubescent whereas they are usually glabrous in both S. uliginosa and S. uniligulata but I do not regard that character as of first rank importance.

I appreciate the privilege of studying this specimen and of retaining it.

Sincerely yours,

Ray C. Friesner

RCF:mb

November 4, 1942

Mr. William Rhoades  
1921 E. Rural Street  
Indianapolis, Indiana

Dear Mr. Rhoades:

Your package of plants has been received and we are grateful to you for them. I have been too busy to inspect them but I assume that they are all good specimens and will make a valuable addition to our herbarium. As soon as we get our labels all typed for the past season's work we will have a considerable number of duplicates from which you may care to make further selection.

Sincerely yours

Ray C. Friesner

RCF:mb



H. H. BARTLETT, DIRECTOR  
FRIEDA COBB BLANCHARD,  
ASSISTANT DIRECTOR  
ELZADA U. CLOVER,  
ASSISTANT CURATOR  
WALTER KLEINSCHMIDT,  
HEAD GARDENER

JOHN T. BALDWIN  
CYTOTAXONOMY AND CYTOGENETICS  
BRADLEY M. DAVIS  
GENOTHEA: GENETICS AND CYTOLOGY  
EILEEN W. ERLANSON  
COLLABORATOR IN ASIATIC RESEARCH  
HOWARD SCOTT GENTRY  
MEXICAN FLORA  
CAREL HAMEL  
COLLABORATOR IN ASIATIC EXPLORATION  
JOHN R. HARDISON  
DISEASE RESISTANCE

UNIVERSITY OF MICHIGAN  
ANN ARBOR  
BOTANICAL GARDEN

FELIX G. GUSTAFSON  
PHYSIOLOGY: GROWTH  
LEROY H. HARVEY  
GRAMINEAE  
M. LOIS JOTTER  
GENOTHEA  
WALTER KOELZ  
COLLABORATOR IN ASIATIC RESEARCH  
E. S. MAINS  
DISEASE RESISTANCE  
JOSE VERA SANTOS  
GRAMINEAE: PHILIPPINE FLORA  
MARY E. WHARTON  
KENTUCKY FLORA  
STEPHEN S. WHITE  
MEXICAN FLORA

November 8, 1941

Dr. Ray C. Friesner  
Butler University  
Indianapolis, Indiana

Dear Dr. Friesner:

For a doctoral dissertation I have been working on the flora of the New Albany black shale region of Kentucky.

Among my collections are some goldenrods, thirty-five or forty, on which I would very much appreciate your opinion - a verification or change of determination and the determination of a few unidentified ones. Also I would like to know if you should notice any significant deviation from the usual and expected in a species. The weathering of this shale has produced a rather specialized type of habitat - and a somewhat impoverished flora in comparison with other regions of the state.

If you would care to examine these, I shall send you duplicates which you may retain.

Very sincerely yours,

*Mary E. Wharton*

Miss Mary E. Wharton  
813 East Kingsley St.  
Ann Arbor, Michigan

Gray Herbarium



Harvard University

M. L. FERNALD, Director  
Fisher Prof. Nat. Hist. (Bot.)  
CHARLES A. WEATHERSBY, Research Associate  
LYMAN B. SMITH, Junior Curator  
RUTH D. SANDERSON, Librarian  
MARJORIE W. STONE, Bibliographer

ROBERT C. FOSTER, Technical Assistant  
WALTER H. HODGE, Assistant  
in charge of Laboratory  
BERNICE G. SCHUBERT, Technical Assistant  
SARA R. STEWART, Illustrator

CAMBRIDGE, MASSACHUSETTS, U.S.A.

Nov. 11, 1941

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

Dear Professor Friesner:-

Your plant is Kochia  
Sieversiana (Pall.) C. A. Meyer, a native of Asiatic  
Russia, ranging from the Caucasus to eastern Siberia  
and apparently as a weed in parts of central Europe.  
It is a close relative of K. scoparia; indeed, though I  
follow the recent Flora U. R. S. S. in treating it as  
a species, most of the older books have it as a var-  
iety of K. scoparia -- var. subvillosa Moq. (var. den-  
siflora (Turcz.) Moq.).

I find no record of its being in cultivation in  
America and presume it must have been accidentally in-  
troduced, as so many species of southwestern Russia  
have been. We have no American specimens.

With thanks for the specimen,

Sincerely yours,

C. A. Weathersby

Mr. Ek: Please return to me when you get your data from this.  
R. C. F.

November 14, 1961

Miss Mary E. Wharton  
613 East Kingsley St.  
Ann Arbor, Michigan

Dear Miss Wharton:

Your letter regarding specimens of *Solidago* from the New Albany black shale region of Kentucky is at hand. I shall be very glad to check over your determinations and to do what I can toward naming any undetermined specimens. During the past year I have gone over all of the specimens of this genus in the University of Kentucky herbarium and have only recently spent a day with Dr. Lucy Braum of the University of Cincinnati going over her Kentucky material. I don't know how well I shall be able to spot variations, however.

I am tied up pretty well for the next two or three weeks but after that I can get to your material.

I appreciate the privilege of seeing and studying it and also of retaining whatever you may have sufficiently in duplicate.

Sincerely yours,

Ray C. Friesner

RCF:mb

(IN SIMPLE AND EASY TO READ)

1. The first part of the letter is a general statement of the purpose of the letter. It is a letter of appreciation for the very pleasant evening with you and Mrs. Link. It is a letter of appreciation for the very pleasant evening with you and Mrs. Link. It is a letter of appreciation for the very pleasant evening with you and Mrs. Link.

November 14, 1941

Dr. Cootie Link  
4207 N. Pennsylvania Street  
Indianapolis, Indiana

Dear Dr. Link:

Upon looking up the reference to which I referred during our pleasant evening with you and Mrs. Link I find that it was an abstract of a paper read by Dr. Davenport before the Eugenics Research Association at its annual meeting in 1931. The abstract is given in *Eugenical News* 16:105. 1931. I find the following additional references in my files:

BRAIN, W. R. Heredity in simple goitre. *Quart. Jour. Med.* 20:303-319. 1927.

KEMP, T. The inheritance of sporadic goitre. *Human Biol.* 5:480-490. 1933.

LAURENCE, C. H. and A. W. ROWE. Studies on the endocrine glands, III. The thyroid. *Endocrinology* 13:377-450. (Inheritance, pp. 398-399). 1928.

MORRISON, H. Familial incidence of exophthalmic goitre. *New England Jour. Med.* 189:86-88. 1928.

PETERSON, E. W. Congenital goitre. *Ann. Surg.* 87:297-299. 1928.

May I express again our appreciation for the very pleasant evening with you.

Sincerely yours,

Ray C. Friesner

RCF:mb

November 14, 1941

Drs. Dean and Yunker:

Accompanying this note is the manuscript for "Indiana Plant Distribution Records, II. 1941". I shall appreciate criticism of any kind concerning it. I have checked all species against duplication of previous reports, have checked the manuscript against the reports from contributors to see that counties and depositories all are correct, and the manuscript has been read twice for spelling of names. The chief things for you to check are 1) spelling, 2) punctuation, and 3) suspicions of misidentifications.

Dr. Yunker please forward material to Dr. Dean, and Dr. Dean please return to me.

Sincerely yours,

Ray C. Friesner

RCF:mb



From EK

Kokomo, Indiana, Nov. 16, 1941,  
1812 No. Purdue St.

Dear Dr. Friesner:

For over a week I've planned a  
note to you - But day + night I've  
been plugging and digging at my boxes  
of specimens. It's the snags that takes  
the time + not the mine run. - And  
of these - Carex has taken the most time.  
To date have 39 additional Co. records for  
Year 1942. Have several letters waiting -  
- + none answered except to Deam,  
who said Anderson of Mo. Bot. Garden  
wants some *Tripsacum dactyloides*. I'll  
have to go there from 1-40 boxes - but  
I'll do anything for Deam - you - or Patzger.  
I have 13 ~~to~~ boxes ready for you -  
5 box Co. records - 7 general + 1 grasses for the  
grass Det. I mentioned " to Dr.  
Patzger at Greencastle - but to date he  
(over)

2

has written nothing. - But I separated  
some surplus sheets anyway. -

I also have a box or enough for a  
box - each for Dr. Yunker & Dr. Svenson.  
- just a sheet of surplus specimens  
or enough for a specimen. - Where I  
have only 1 sheet from a County. - of  
course that goes to Butler. - or even  
2 sheets. - They get only a surplus sheet.  
Svenson will put me straight on  
my Carey. - Am separating the  
doubtful, etc. for him - trying to include  
at least 1 sheet of every species - not  
Counties. - That is. - Butler will not  
suffer in any way - not a single new  
Butler Co. record will go astray. De Pauw  
has a fine herbarium room - I had  
planned to give to Earlham - but I can't  
divide to both. - As it is - where I have  
only 1 grass & sedge & spare, - it goes to  
Hunt Institute for Botanical Documentation

Svenson - 3. Athenaise, - if only 1. - I  
~~just~~ give to one - then the other.  
 I am sure you are making as good  
 use - or better - of the surplus.

If you come north anytime  
 - or Dr. Potzger, who has gone to Notre  
 Dame in times past, - or any one comes  
 thru Kokomo. - I'd be glad if you'd stop  
 & get the boxes - all I'm done with.  
 - there's always danger of fire, - mice - & I  
 need the room.

Do not make a special trip. I just  
 thought may be one of you had business  
 - lecture, - &c. - & could stop.

Forgot to tell you that the Asage  
 grants were cancelled - after I'd made  
 plans - I really didn't care.

They gave me a pension of 21<sup>00</sup> mo.  
 - then came out a week later & took it  
 away! Max is working - - I'm  
 letting it ride now - but propose to  
 Hunt Institute for Botanical Documentation



4.  
Go after them some time soon.  
Guess I've been hitting it too  
hard - working these specimens, - is  
certainly interesting, alluring - one  
just keeps on - no end. - I've been  
dizzies than ever - affecting my  
eyesight badly - I doubt if idleness  
would help much. - Am going to see  
some Dr. soon. - One dentist wants to  
X-ray my teeth. - Another dentist  
humorously said if I did - the ~~verdict~~  
verdict would be - "infected" "out  
with them", + advised me to start  
at the Dr. - end. - + that sounds good.  
- if I know of a Dr. - In the meantime,  
I'm plugging away and getting done  
all I can. -

I enjoyed the Acad. meeting very  
much. - So fine of you to see that  
your students could attend. - - with  
hopes that bread on the waters will return.

I know of nothing else of importance  
 Some of the Solidago I'm passing  
 on - not labeled. - I've never found  
 a new Co record for Solidago - + you can  
 name them at sight. - I forgot. - I do  
 have *S. latifolia* + *S. altissima* for Clinton Co.!

Also, I'm passing on some species of  
*prealtus* + *paniculatus* groups. - These  
 2 genera (to me) should be worked  
 with fresh specimens. - Polygonum,  
 sedges, grasses, +c. - are just as easy with  
 dried specimens. -

Let me know, - if - when, - you  
 come North. -

With Best Wishes - and  
 much gratefulness for letters, trips,  
 kind words, acts, interest in my  
 behalf - all too numerous to record. -

I am,

Very Sincerely Yours,  
 C. M. E. K.



UNITED STATES DEPARTMENT OF AGRICULTURE  
BUREAU OF PLANT INDUSTRY

DIVISION OF  
PLANT EXPLORATION AND INTRODUCTION

PLANT INTRODUCTION GARDEN

November 17, 1941

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

Dear Dr. Friesner:

Would it be much of an imposition to ask you for another copy of your key to the goldenrods? You gave me a copy last summer, but in the last minute rush I neglected to bring it with me. I shall return the other copy to you when I visit Indianapolis.

I find everything here very pleasant and am sure I shall enjoy the work with goldenrod. The following is a list of species grown here at the station: S. leavenworthii, serotina, fistulosa, Nashii, altissima, sempervirens, mirabilis, Elliotii, Gilmanii, speciosa, memoralis, petiolaris, serotina gigantea, ulmifolia, ulmifolia, neglecta, and Randii. If you should find any of these of interest, I shall gladly send you specimens next summer. I believe mirabilis and Edisoniana are still in flower. I suppose most of these have been identified from Small's Manual of the Southeastern Flora.

I should also appreciate your list of chromosome numbers in Solidago, which I should have copied last summer when I had the opportunity. I wrote to Higinbotham regarding his technique with goldenrod chromosomes. I addressed him at Columbia, but the letter was returned with a note that he had not left a forwarding address.

With very best wishes, I am

Sincerely yours,

*Rayard L. Hammond*  
Rayard L. Hammond

BLH:DD

U. S. Plant Introduction Garden  
Route 4,  
Savannah, Georgia

Inform Rhodes  
when labels are typed for duplicates

Indianapolis Dec 12, 1941

Professor Treisner  
Butter community  
Indianapolis Ind

Dear Mr. Treisner, I received your most  
recent favor and will be glad when you are  
ready to have all come out and matriculate  
again in the department of Botany. I am a  
bunch of full grown size and am at home in  
a Box of plants which I like to devour with an  
avidity, don't forget to notify me when to report  
for service. I trust that the ambrosia which I  
sent to you will be palatable and digestible.  
If you should perchance find some indigestibles  
in the lot don't hesitate to return them to me  
I shall take no umbrage.

Yours Truly  
Jim Rhoades  
1521 North Rural St  
Indianapolis Ind

November 18, 1941

Dr. C. A. Weatherby  
Gray Herbarium  
Harvard University  
Cambridge, Mass.

Please accept my sincere thanks for your help in naming the specimen recently sent to the herbarium by me. For the past several years I have been collecting extensively in Indiana and would be glad to send duplicates to the Gray Herbarium in case you would care to have them. I presume Mr. Dean has sent you a great many specimens and hence mine might constitute a considerable duplication but you could discard what you do not want. I could at least see to it that I do not duplicate my own findings in succeeding years.

Sincerely yours,

RCF:mb

Kokomo Ind. Nov 18-1941

StowEK

182 No. Purdue St

My Dear Dr. F. S. Sauer  
I hasten to return letter from  
Dr. Weatherby. - I made a copy. - Thanks  
for the information.

I was not surprised so much. - for  
I could find it in none of my manuals.  
Dean had called it *Gondia depressa*. -  
- but I had failed to make it fit there -  
- pubescence - etc. - Dean admitted that too.  
Well that's something! - New to The  
United States. - I felt that it was a  
*Kochia* - & you called it that once. - and  
remarked in a letter I wrote some one -  
that it was an Asiatic var. of *Kochia* -  
- tho this was only a guess - I surmise,  
+ worth nothing. Associated with *Croton*  
*glaucescens* (new to me) and *Chenopodium*  
*Batris* (new to you) - this is a rare find.

2.

I hope to go again 1942, + get more.

It took me over 4 hrs. to go thru my box - now - to find that *Tripacum* *dectylodes* for Anderson - I am sending along a specimen of this rare *Kochia* to Prof. Anderson.

Am feeling a little better today -

Old man Long took me for a ride Sun. P.M. - also Mon. P.M. - 2 hrs.

to Twin Spring, where I collected a willow - *Salix humilis* - leaves -

- I had fruit Apr. 26 - - New Record

- + a lot of moss - + a Liverwort -  
maybe *Marchantia* - for DePaauw.

I laid a stack of *Carex* 5' high on back - case Sat. Night. + they're there yet - working on other boxes -

Dean suggests that you leave me a week in the sand + dunes of the prairie in 1942 - ! - He's sure the R.R. are



bringing in more & that there are  
more New State records there, if  
we could only search for them. - &  
I - you - we - can believe that. -

Think I forgot one thing  
- my last letter. - to get Mr. f.  
Scott McCoy's address. - No hurry  
- just the first time you have occasion  
to write me. - - letter or postal. -

He told me he had a collection of  
Sedges. - & quoted your idea - that I  
was fair on Sedges. - Said he'd send  
them to me - & hint they are western  
plants. - Presume he was out west  
some time. - Don't remember - if he's  
in Arsenal. - ~~The~~ Tech. & Shortridge's.

It would be a rare pleasure to see them  
& try my hand - using Mackenzie. -  
With Best Wishes, - ever grateful for  
all your past kindness - Sincerely,  
C. M. K.



November 19, 1941

Dr. B. L. Hammond  
U. S. Plant Introduction Garden  
Route 4  
Savannah, Georgia

Dear Dr. Hammond:

I am glad to send you a copy of the *Solidago* key and you need not bother about returning the other copy. I am also sending you a reprint of a paper on West Virginia goldenrods in which I have given much more detailed descriptions of the species considered.

Of the species mentioned as growing in your garden *S. elliotii* is the only one of which I do not have a number of specimens. If it should be convenient in the future I would be glad to get a couple specimens of it.

There have been some nomenclatorial changes in the case of some of the species listed in your letter:

- S. serotina* is not *S. gigantea* var. *leiophylla* Fern.
- S. serotina* var. *gigantea* is now *S. gigantea* Ait.
- S. nashii* is now syn. with *S. leavenworthii*
- S. neglecta* is now syn. with *S. unilobulata*
- S. edisoniana* is now *S. elliotii* var. *edisoniana* (Wack.) Fern.

The only records of chromosome counts that I have are as follows:

- S. canadensis* (n=9) Carano. Ann. di Bot. 16:97-196. 1921.
- S. nemoralis* (n=27) Morinaga & Fukushima. Bot. Mag. Tokyo. 45:140. 1931.
- S. riddellii* (n=16) Carano. loc. cit.
- S. rigida* (n=9) Higinbotham. Butler Univ. Bot. Stud. 3:175-176. 1936.
- S. rugosa* (n=9) Goodwin. Am. Jour. Bot. 24:425-432. 1937.
- S. sempervirens* (n=9) Goodwin. loc. cit.

Any time there is anyway in which we may be of help, please do not hesitate to let us know.

Best regards to both Dorothy and you.

Sincerely yours,

November 19, 1941

Dear Mr. B:

Enclosed you will find lists of plants added to our herbarium from your collections prior to 1941. Those which became new county records are shown by an asterisk.

Your 1941 material does not show on these lists but will be made up into an additional list after we have had time to get them and go over them.

We hope very soon to get a couple more Saturdays in up your way. We want to bore a bog up in DeKalb county near Altoona and to get some stump sections from the woods northwest of Warsaw. We will let you know when we are planning to come. If there are any particular Saturdays when you know you will not be able to go, we can avoid them.

Your letter just came. You can see from the above that I have anticipated answers to a part of it. We will be glad to pick up whatever you have ready when we come and since all of your back material is in the mill now, the 1941 material will be worked up soon after we get it.

I hope you will be able to guard your health because we want you with us for at least 20 more years.

Sincerely yours,

Ray C. Friesner

RCF:mb

Ek -- Plants Added to the Butler University Herbarium  
1937, 1938, 1939 Collections

- \**Asclepias phytolaccoides* - Howard  
 \**Smilax scirrhata* - Howard  
*Blephilia hirsuta* - Howard  
 \**Arabis pyramidalis* - Howard  
*Tradescantia subaspera* - Miami  
*Actea alba* - Howard  
 \**Gleditsia triacanthos* - Howard  
 \**Hemerocallis fulva* - Howard  
*Ruellia carolinensis* - Miami  
 \**Stachys palustris* var. *homotricha* - Miami  
 \**Juncus effusus* var. *solutus* - Miami  
 \**Fraxinus quadrangulata* - Miami  
*Coreopsis tripteris* - Tipton  
*Rudbeckia subtomentosa* - Tipton  
*Amaranthus retroflexus* - Howard  
 \**Salix discolor* - Howard  
 \**Oenothera laciniosa* - Tipton  
*Isanthus brachiatus* - Tippecanoe  
*Kuhnia eupatorioides* - Tippecanoe  
*Sporobolus clandestinus* - Tippecanoe  
*Helenium nudiflorum* - Miami  
*Rhus aromatica* - Miami  
*Artemisia caudata* - Cass  
 \**Helianthemum canadense* - Cass  
*Lappula ochinata* - Miami  
*Freemanthes racemosa* - Tipton  
*Amorpha canescens* - Tippecanoe  
*Arabis glabra* - Howard  
 \**Carex lurida* - Howard  
*Carex davisii* - Howard  
*Carex bromoides* - Howard  
*Carex conjuncta* - Howard  
*Carex blanda* - Howard  
*Cornus asperifolia* - Howard  
*Sacalia mühlenbergii* - Howard  
*Crataegus chrysocarpa* - Howard  
 \**Salix fragilis* - Howard  
 \**Vitis labrusca* - Howard  
 \**Vitis vulpina* - Miami  
 \**Botrychium dissectum* - Howard  
*Cystopteris fragilis* var. *protrusa* - Howard  
 \**Amphicarpa bracteata* var. *comosa* - Howard  
*Carex grayii* - Howard  
*Carex hystericina* - Howard  
*Aquilegia canadensis* - Miami  
*Polygonum orientale* - Howard  
 \**Gaura biennis* - Howard  
*Cirsium discolor* - Miami  
*Lycopus americanus* - Howard  
 \**Brassica juncea* - Miami  
 \**Echium vulgare* - Miami  
 \**Datura stramonium* - Howard  
*Erucastrum gallicum* - Tipton  
*Solidago graminifolia* var. *nuttallii* - How.  
 \**Salix alba* - Howard  
*Scirpus americanus* - Cass  
*Arrhenatherum elatius* - Howard  
 \**Senecio glabellus* - Howard  
*Monarda fistulosa* - Howard  
*Lobelia siphilitica* - Miami  
*Diarrhena americana* - Miami  
*Sparganium eurycarpum* - Howard  
*Cypripedium elegans* - Tipton  
*Rhus glabra* - Miami  
 \**Erucastrum gallicum* - Miami  
*Ceanothus americanus* - Miami  
*Salix cordata* - Howard  
*Collinsia canadensis* - Miami  
*Hypericum sphaerocarpon* - Tipton  
 \**Cercis canadensis* - Miami  
*Stellaria longifolia* - Howard  
 \**Hypericum mutilum* - Miami  
*Ranunculus recurvatus* - Howard  
*Bouteloua curtipendula* - Tippecanoe  
*Desmodium sessilifolium* - Tippecanoe  
*Desmodium canadense* - Tippecanoe  
*Petalostemon purpureum* - Tipton  
*Croton monothegynus* - Cass  
 \**Eupatorium serotinum* - Cass  
 \**Carya ovalis* - Howard  
 \**Ulmus racemosa* - Howard  
*Aristida purpurascens* - Cass  
 \**Lespedeza violacea* - Miami  
 \**Sonchus arvensis* var. *glabrescens* - Howard  
*Carex granularis* - Howard  
*Carex rosea* - Howard  
*Carex jamesii* - Howard  
*Carex grisea* - Cass  
*Acer nigrum* - Howard  
*Synandra hispidula* - Howard  
*Rhus typhina* - Howard  
 \**Populus grandidentata* - Howard  
 \**Carex siccata* - Cass  
*Vitis vulpina* - Howard  
*Vitis vulpina* - Howard  
 \**Pteridium latiusculum* - Miami  
 \**Oenoclea sensibilis* - Howard  
*Eragrostis spectabilis* - Grant  
*Carex squarrosa* - Miami  
*Populus alba* - Miami  
*Salix interior* - Howard  
*Desmodium paniculatum* - Miami  
 \**Ludwigia palustris americana* - Miami  
*Scirpus atrovirens* - Miami  
 \**Quercus velutina* - Tipton  
 \**Anemone canadensis* - Miami  
*Juncus dudleyi* - Miami  
*Arisaema dracontium* - Howard  
 \**Cirsium arvense* - Howard  
*Xanthium pennsylvanicum* - Howard  
*Macleaya cordata* - Howard  
 \**Helianthus annuus* - Howard

- Acer saccharinum* - Howard  
*Trifolium hybridum* - Howard  
*Fraxinus lanceolata* - Howard  
*\*Angelica atropurpurea* - Howard  
*\*Glechoma hederacea* - Howard  
*\*Ranunculus acris* - Howard  
*Salix sericea* - Howard  
*\*Cacalia muhlbergii* - Cass  
*\*Verbena bracteata* - Grant  
*\*Triodia flava* - Grant  
*Cuscuta gronovii* - Miami  
*Rosa palustris* - Cass  
*Strophostyles helveola* - Grant  
*\*Salix amygdaloides* - Howard  
*Erechtites hieracifolia* - Cass  
*\*Ceratophyllum demersum* - Cass  
*Nicanandra physaloides* - Carroll  
*\*Mimulus alatus* - Cass  
*\*Lindernia dubia* - Cass  
*\*Allium sativum* - Miami  
*\*Glodites triacanthos* - Miami  
*\*Coreopsis palmata* - Tippecanoe  
*\*Clematis virginiana* - Clinton  
*Asclepias incarnata* - Howard  
*Cassia fasciculata* - Howard  
*Prunus virginiana* - Howard  
*Delphinium tricorne* - Miami  
*\*Sanicula marilandica* - Miami  
*Asclepias tuberosa* - Tipton  
*Juncus acuminatus* - Cass  
*Psoralea onobrychis* - White  
*\*Carex atherodes* - Cass  
*\*Ceratophyllum demersum* - Howard  
*Setaria lutescens* - Cass  
*\*Agrimonia parviflora* - Howard  
*Hypericum punctatum* - Cass  
*Heliptera alba* - Howard  
*\*Lythrum alatum* - Miami  
*Eleocharis calva* - Miami  
*\*Verbena stricta* - Howard  
*\*Rosa rubiginosa* - Howard  
*Ostrya virginiana* - Howard  
*Hedeoma pulegioides* - Miami  
*Polygonum punctatum* - Howard  
*\*Melilotus alba* - Howard  
*Mimulus alatus* - Miami  
*\*Juglans cinerea* - Howard  
*Carex tribuloides* - Miami  
*Mimulus ringens* - Miami  
*Muhlenbergia racemosa* - St. Joseph  
*Trientalis borealis* - Starke  
*Carex leptalea* - Starke  
*Juncus canadensis* - Laporte  
*Grossularia cynosbati* - Fulton  
*Carex comosa* - Starke  
*\*Bromus purpureus* - Starke  
*Typha angustifolia* - Kosciusko  
*Tofieldia glutinosa* - Laporte  
*Muhlenbergia racemosa* - Laporte  
*Cyperus rivularis* - Laporte  
*Bidens laevis* - Howard  
*\*Trillium gleasoni* - Miami  
*Specularia perfoliata* - Howard  
*\*Plantago lanceolata* - Howard  
*\*Equisetum fulvatile* - Howard  
*Galium obtusum* - Howard  
*\*Monispermum canadense* - Howard  
*\*Platanus occidentalis* - Howard  
*Erechtium gallicum* - Grant  
*Pilea pumila* - Cass  
*Eupatorium perfoliatum* - Miami  
*\*Cirsium altissimum* - Cass  
*\*Tribulus terrestris* - Grant  
*Polanisia graveolens* - Howard  
*\*Polymnia canadensis* - Cass  
*\*Cacalia atriplicifolia* - Clinton  
*Salix discolor* var. *latifolia* - Cass  
*\*Tradescantia virginiana* - Cass  
*\*Euphorbia dentata* - Cass  
*Salix nigra* - Carroll  
*Gaura parviflora* - Miami  
*Clematis virginiana* - Howard  
*\*Polygonum hydropiperoides* - Howard  
*\*Cassia hebecarpa* - Miami  
*\*Elephilia hirsuta* - Cass  
*Collinsia verna* - Howard  
*Samolus parviflorus* - Miami  
*Ceanothus americanus* - Miami  
*\*Scutellaria incana* - Miami  
*Rubus flagellaris* - Cass  
*\*Psoralea onobrychis* - Miami  
*Spiraea tomentosa* - Howard  
*Saururus cernuus* - Howard  
*Solanum rostratum* - Cass  
*Ribes americana* - Miami  
*\*Desmodium bracteosum* - Howard  
*Rosa palustris* - Clinton  
*\*Carex cristatella* - Miami  
*Elymus villosus* - Miami  
*\*Hypericum perforatum* - Tipton  
*\*Morus alba* - Howard  
*Verbascum thapsus* - Howard  
*Helenium nudiflorum* - Miami  
*Penthorum sedoides* - Miami  
*\*Hybanthus concolor* - Miami  
*\*Scrippia islandica* var. *microcarpa* - Howard  
*Hamamelis virginiana* - Howard  
*Hypericum perforatum* - Miami  
*Phacelia purshii* - Miami  
*Medeola virginiana* - St. Joseph  
*Aralia nudicaulis* - St. Joseph  
*Spiranthes cernua* - Laporte  
*Rumex verticillatus* - Laporte  
*Carex tribuloides* - Starke  
*Galium triflorum* - Starke  
*Carex crinita* - St. Joseph  
*Ludwigia alternifolia* - Laporte  
*Scleria verticillata* - Laporte  
*Phragmites communis* - Laporte  
*Eleocharis olivacea* - Kosciusko



- Coreopsis tripteris* - St. Joseph  
*Malva neglecta* - Howard  
*Lobelia siphilitica* - Howard  
*Evonymus obovatus* - Miami  
*Carex squarrosa* - Cass  
*Helianthus rigidus* - Clinton  
*Agrotium minus* - Clinton  
*Cyperus esculentus* - Clinton  
*Silphium integrifolium* - Clinton  
*Setaria lutescens* - Clinton  
*Eupatorium altissimum* - Clinton  
*Polygonum pennsylvanicum* var. *genuinum* - Clin.  
*Poa annua* - Miami  
*Salix fragilis* - Miami  
*Artemisia annua* - Marion  
*Mitella diphylla* - Howard  
*Equisetum arvense* - Howard  
*Scutellaria lateriflora* - Howard  
*Viburnum lentago* - Cass  
*Rhus aromatica* - Tippecanoe  
*Tradescantia virginiana* - Tippecanoe  
*Stellaria longifolia* - Howard  
*Valeriana pauciflora* - Tippecanoe  
*Carex hirsutella* - Tippecanoe  
*Carex jamesei* - Tippecanoe  
*Erysimum asperum* - Tippecanoe  
*Phlox pilosa* - Tippecanoe  
*Lithospermum incisum* - Tippecanoe  
*Pontemon hirsutus* - Tippecanoe  
*Carex grvida* - Tippecanoe  
*Quercus macrocarpa* - Tippecanoe  
*Cornus obliqua* - Miami  
*Passiflora incarnata* - Cass  
*Ulmus racemosa* - Miami  
*Heraclum lanatum* - Miami  
*Ledwigia polycarpa* - Howard  
*Habenaria lacera* - Howard  
*Filipendula rubra* - Miami  
*Rosa setigera* var. *tomentosa* - Howard  
*Eleocharis palustris* - Cass  
*Prunus virginiana* - Howard  
*Morus rubra* - Cass  
*Sium suave* - Cass  
*Panicum clandestinum* - Tipton  
*Platanus occidentalis* - Miami  
*Carex interior* - Miami  
*Helianthus giganteus* - Cass  
*Opuntia humifusa* - Tippecanoe  
*Phyla lanceolata* - Miami  
*Blephilia hirsuta* - Miami  
*Cornus asperifolia* - Miami  
*Lobelia inflata* - Miami  
*Carya laciniosa* - Howard  
*Thalictrum dioicum* - Tippecanoe  
*Euphorbia corollata* - Tippecanoe  
*Taenidia integerrima* - Tippecanoe  
*Diodia torres* var. *setifolia* - Miami  
*Gaura biennis* - Miami  
*Urtica procera* - Howard  
*Lespedeza virginica* - Kosciusko  
*Pedicularis lanceolata* - Howard  
*Cyperus rivularis* - Miami  
*Sporobolus asper* - Clinton  
*Quercus borealis* var. *maxima* - White  
*Ruellia carolinensis* - Clinton  
*Bidens bipinnata* - Howard  
*Polygonum coccineum* - Clinton  
*Erigeron canadensis* - Clinton  
*Digitaria sanguinalis* - Clinton  
*Froelicha gracilis* - Miami  
*Chenopodium album* - Clinton  
*Ranunculus hispidus* - Miami  
*Populus deltoides* - Miami  
*Grossularia cynosbati* - Howard  
*Fragaria virginiana* - Miami  
*Carex stipata* - Tipton  
*Heraclum lanatum* - Miami  
*Delphinium ajacis* - Howard  
*Physalis heterophylla* - Tippecanoe  
*Silene eserei* - Howard  
*Nasturtium officinale* - Tippecanoe  
*Carex crinita* - Tippecanoe  
*Carex hirsutella* - Miami  
*Carex davisii* - Miami  
*Polygala senega* - Tipton  
*Malus coronaria* - Tippecanoe  
*Arenaria serpyllifolia* - Tippecanoe  
*Thaspium barbinode* - Tippecanoe  
*Quercus borealis* var. *maxima* - Tippecanoe  
*Adiantum pedatum* - Tippecanoe  
*Ptelea trifoliata* - Tippecanoe  
*Polystichum acrostichoides* - Tippecanoe  
*Carex swanni* X *C. virescens* - Cass  
*Elymus villosus* - Howard  
*Digitaria ischaemum* - Howard  
*Anthemis tinctoria* - Howard  
*Ranunculus flabellaria* - Howard  
*Rosa suffulta* - Miami  
*Fagus grandifolia* - Tippecanoe  
*Rubus allegheniensis* - Cass  
*Ratibida pinnata* - Cass  
*Sida spinosa* - Howard  
*Lithospermum canescens* - Tipton  
*Leptoloma cognatum* - Cass  
*Cyperus filiculmis* var. *macilentus* - Cass  
*Froelicha floridana* - Clinton  
*Populus tremuloides* - Miami  
*Rhus glabra* - Howard  
*Lindera benzoin* - Miami  
*Asclepias incarnata* - White, Howard  
*Crataegus succulenta* - Miami  
*Diospyros virginiana* - Howard  
*Carex cephalophora* - Tippecanoe  
*Crataegus coccinoides* - Tippecanoe  
*Chenopodium botrys* - Miami  
*Oenothera laciniosa* - Miami  
*Xanthium italicum* - Clinton  
*Laportea canadensis* - Howard

- Cyperus esculentus* - Howard  
*Crataegus coccinoides* - Howard  
*Erucastrum gallicum* - Miami  
*Rosa carolina* - Tippecanoe  
*Carex shortiana* - Tippecanoe  
*Hedeoma pulegioides* - Cass  
*Oxypholis rigidior* - Cass  
*Cyperus rivularis* - Cass  
*Acalypha ostryaeifolia* - Tipton  
*Rudbeckia hirta* - Tippecanoe  
*\*Potamogeton foliosus* - Tipton  
*Carex buxbaumii* - Tipton  
*Commandra richardsiana* - Tipton  
*\*Desmodium retundifolium* - Tippecanoe  
*Cornus racemosa* - Cass  
*Desmodium sessilifolium* - Cass  
*Solanum carolinianum* - Howard  
*\*Desmodium marilandicum* - Cass  
*Acerates viridiflora* - Tippecanoe  
*Carex sprengellii* - Miami  
*Asclepias sullivantii* - Tippecanoe  
*\*Carex communis* - Miami  
*Verbena hastata* - Howard  
*Solidago graminifolia nuttallii* - Howard  
*\*Carex muhlbergii* - Wells  
*\*Carex shortiana* - Tipton  
*Phlox pilosa* - Tipton  
*Juncus dudleyi* - Tipton  
*\*Carex normalis* - Tipton  
*Descurainia pinnata* var. *brachycarpa* - How.  
*Carex lanuginosa* - Wells  
*Crataegus crusgalli* - Wells  
*Rubus flabellaris* - Tippecanoe  
*Athyrium pycnocarpon* - Tippecanoe  
*\*Armoracia aquatica* - Cass  
*Sagittaria latifolia* - Howard  
*Cynodon dactylon* - Howard  
*Nepaea dioica* - Miami  
*Crataegus eryocarpa* - Tippecanoe  
*Viola striata* - Tippecanoe  
*Conchurus pauciflorus* - Cass  
*Parthenocissus quinquefolia* - Miami  
*Dryopteris thelypteris pubescens* - Howard  
*\*Elymus virginicus glabriflorus* - Tippecanoe  
*Leonurus cardiaca* - Tippecanoe  
*\*Scutellaria parvula* - Tipton  
*\*Carex brevior* - Tipton  
*Hypoxis hirsuta* - Tipton  
*\*Viola eriocarpa* - Howard  
*\*Veronicastrum virginicum* - Miami  
*Liatris spicata* - Cass  
*Quercus shumardii* var. *schneckii* - Howard  
*\*Tribulus terrestris* - Miami  
*Asclepias physaloides* - Tippecanoe  
*Botrychium virginianum* - Tippecanoe  
*\*Carex amphibola* - Howard, Miami  
*\*Convolvulus sepium* - Howard  
*\*Cannabis sativa* - Miami  
*\*Sida aristosa* - Howard  
*Carex stricta* - Tipton  
*Solanum dulcamara* - Tipton  
*Rosa suffulta* - Tipton  
*\*Carex granularis* - Tipton  
*Lamium amplexicaule* - Tipton  
*Evonymus obovatus* X *E. americanus* - Howard  
*Crataegus coccinea* - Wells  
*Carex brevior* - Tippecanoe  
*Crataegus chrysocarpa* - Tippecanoe  
*Agropyron smithii* - Tippecanoe  
*\*Potamogeton lucens* - Cass



- Verbena stricta* - Tippecanoe  
*Sida spinosa* - Tippecanoe  
*Teucrium canadense virginianum* - Tippecanoe  
*Marrubium vulgare* - Tippecanoe  
*Physalis pubescens* - Tippecanoe  
*Silphium integrifolium* - Tippecanoe  
*Tephrosia virginiana* - Harrison  
*Lysimachia lanceolata* - Harrison  
*Lysimachia quadrifolia* - Harrison  
*Carex oligocarpa* - Harrison  
*\*Festuca octoflora* - Harrison  
*Lonicera japonica* - Harrison  
*\*Acer nigrum f. pubescens* - Howard  
*Lithospermum arvense* - Tippecanoe  
*Juncus dudleyi* - White  
*Botrychium virginianum* - Miami  
*Allium vineale* - Howard  
*Aletris farinosa* - White  
*Juncus canadensis* - Starke  
*Lespedeza capitata* - Howard  
*Solidago gigantea var. leiophylla* - Pulaski  
*Galinsoga ciliata* - Howard  
*Tricostem perfoliatum* - Tippecanoe  
*Polygonum neglectum* - Howard  
*Tradescantia subspora* - Tippecanoe  
*Euphorbia commutata* - Tippecanoe  
*Trillium gleasoni* - Tippecanoe  
*Besseyia bullii* - Tippecanoe  
*Sassafras albidum* - Tippecanoe  
*Cernium maculatum* - Tippecanoe  
*Phlox bifida* - Tippecanoe  
*Fragaria virginiana* - Tippecanoe  
*Glecoma hederacea* - Tippecanoe  
*Asarum canadense* - Tippecanoe  
*Camassia scilloides* - Tippecanoe  
*Carya laciniosa* - Tippecanoe  
*Myosotis virginica* - Tippecanoe  
*Scleria triglomerata* - White  
*Androsace occidentalis* - Tippecanoe  
*Draba reptans var. micrantha* - Tippecanoe  
*Campsis radicans* - Cass  
*Prunus serotina* - Tippecanoe  
*Carex laxiflora* - Tippecanoe  
*Potentilla simplex* - Tippecanoe  
*Conringia orientalis* - Miami  
*Phlox divaricata* - Tippecanoe  
*Viola papilionacea* - Tippecanoe  
*Chaerophyllum procumbens* - Tippecanoe  
*Plantago virginica* - Tippecanoe  
*Antennaria falax* - Tippecanoe  
*Mertensia virginica* - Tippecanoe  
*Cardamine bulbosa* - Tippecanoe  
*Smilacina stellata* - Tippecanoe  
*Erysimum asperum* - Tippecanoe  
*Cephalanthus occidentalis* - Cass  
*Leonurus cardiaca* - Cass  
*Cacalia atriplicifolia* - Tippecanoe  
*Abutilon theophrasti* - Howard  
*Onosmodium hispidissimum* - Tippecanoe  
*Heliopsis helianthoides* - Tippecanoe  
*Pycnanthemum pilosum* - Tippecanoe  
*Teucrium canadense* - Tippecanoe  
*Cannabis sativa* - Tippecanoe  
*Aclepias tuberosa* - Harrison  
*Physalis heterophylla* - Harrison  
*Phlox pilosa* - Harrison  
*Anagallis arvensis* - Harrison  
*Carex hirsutella* - Harrison  
*Carex squarrosa* - Harrison  
*Quercus stellata* - Tippecanoe  
*Houstonia angustifolia* - Tippecanoe  
*Lepidium densiflorum* - Tippecanoe  
*Scleria triglomerata* - White  
*Thaspium trifoliatum var. flavum* - Miami  
*Juncus brachycarpus* - White  
*Chenopodium album* - White  
*\*Gentiana quinquefolia occidentalis* - Howard  
*Galium pilosum* - Starke  
*Aster pilosus* - Howard  
*Betula papyrifera* - Pulaski  
*Polygonum buxiforme* - Marshall  
*Physalis subglabrata* - Howard  
*Allium cernuum* - Tippecanoe  
*Arenaria patula* - Tippecanoe  
*Chelidonium majus* - Tippecanoe  
*Aquilegia canadensis* - Tippecanoe  
*Cerastium nutans* - Tippecanoe  
*Polygonum pennsylvanicum laevigatum* - Howard  
*Cardamine bulbosa* - Tippecanoe  
*Grossularia cynosbati* - Tippecanoe  
*Veronica arvensis* - Tippecanoe  
*Trillium sessile* - Tippecanoe  
*Rorippa sessiliflora* - Tippecanoe  
*Crataegus mollis* - Tippecanoe  
*Juncus macror* - Cass  
*Carex tribuloides* - Pulaski  
*Carex bicknellii* - White  
*Lactuca canadensis* - Cass  
*Thlaspi arvense* - Tippecanoe  
*Carex grisea* - Tippecanoe  
*Carya cordiformis* - Tippecanoe  
*Sanicula trifoliata* - Miami  
*Ranunculus recurvatus* - Tippecanoe  
*Hepatica acutiloba* - Tippecanoe  
*Alnus vulgaris* - Tippecanoe  
*Arabis laevigata* - Tippecanoe  
*Prunus virginiana* - Tippecanoe  
*Phacelia bipinnatifida* - Tippecanoe  
*Rumex acetosella* - Tippecanoe  
*Uvularia grandifolia* - Tippecanoe  
*Salix nigra* - Tippecanoe  
*Aster exiguus* - Howard, Tipton  
*Lysimachia ciliata* - Cass  
*Sparganium eurycarpum* - Howard  
*Quercus ellipsoidalis* - Newton  
*Euphorbia maculata* - Howard

- Cleome maculata* - Howard  
*Hypericum nuttium* - Cass  
*Asclepias phytolaccoides* - Crawford  
*Trifolium procumbens* - Crawford  
*Brassica juncea* - Howard  
*Lysimachia longifolia* - Tipton  
*Spiranthes cernua* - Starke  
*Helianthus strumosus* - Cass  
*Oenothera pycnocarpa* - Howard  
*Ruellia strepera* f. *oleistantha* - Howard  
*Juncus canadensis* - Kosciusko  
*Scirpus smithii* - Cass  
*Desmodium canadense* - Jasper  
*Helianthus rigidus* - Cass  
*Anthemis cotula* - Cass  
*Heliopsis helianthoides* - Cass  
*Sisyrinchium albidum* - Jasper  
*Monarda fistulosa mollis* - Tippecanoe  
*Lechea leggettii moniliformis* - White  
*Phlox paniculata* - Tippecanoe  
*Cassia fasciculata* - Tippecanoe  
*Solidago media* - Marshall  
*Mentha longifolia* var. *mollissima* - Howard  
*Descurainia pinnata* var. *brachycarpa* - Tippecanoe  
*Solidago riddellii* - Tipton  
*Aster missouriensis thyrsoidea* - Tipton  
*Desmodium sessilifolium* - Starke  
*Bulbostylis capillaris* var. *crebra* - White  
*Cyperus dentatus* - Jasper  
*Carex prasina* - Cass  
*Juncus brachycarpus* - Newton  
*Juncus marginatus* - Jasper  
*Viburnum pubescens demmii* - Crawford  
*Pedicularis lanceolata* - Cass  
*Polygonum pennsylvanicum laevigatum* - Cass  
*Apocynum cannabinum pubescens* - Howard  
*Filipendula rubra* - Cass  
*Polygonum coceineum* - Cass  
*Euphorbia supina* - Cass  
*Carex swanii* - Crawford  
*\*Sabatia campanulata* var. *gracilis* - Jasper  
*Cichorium intybus* - Tipton  
*Physalis ambiguus* - Howard  
*Physalis heterophylla* - Howard  
*\*Eupatorium fistulosum* - Howard  
*Salix petiolaris* - Howard  
*Oxypolis rigidior* - Marshall  
*Pellaea glabella* - Cass  
*Cirsium arvense* - Jasper  
*Pyrola elliptica* - Cass  
*Nepeta cataria* - Cass  
*Teucrium canadense* - Cass  
*Plantago aristata* - Tippecanoe  
*Psoralea psoralisoides* var. *eglandulosa* - Jasp.  
*Petalostemum purpureum* - Tippecanoe  
*Euphorbia supina* - Tippecanoe  
*Campanula americana* - Tippecanoe  
*Galium pilosum* - Marshall  
*Desmodium rigidum* - Marshall  
*Fremantia racemosa* - Kosciusko  
*Physalis subglabrata* - Tipton  
*Gentiana crinita* - Starke  
*Gentiana saponaria* - Pulaski  
*Juncus brachycarpus* - Cass  
*Juncus balticus* var. *littoralis* f. *disilliflorus* - Newton  
*Rhynchospora glomerata* var. *minor* - Newton  
*Eleocharis tenuis* var. *verrucosa* - Newton  
*Rhamnus carolinianus* - Harrison  
*Carex laxiflora* - Crawford  
*Polygonum pennsylvanicum laevigatum* f. *pallidum* - Cass  
*Hypericum majus* - Cass  
*\*Carya cordiformis* - Tippecanoe

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

Your package of herbarium specimens reached us safely a few days ago. We are grateful to you for them. I shall be glad to send you specimens in return in case you should care to have me do so.

Ray C. Friesner

[RECEIVED THE UNIVERSITY OF CHICAGO]

Dr. W. H. Camp  
New York Botanical Garden  
Bronx Park, Fordham Station  
New York, New York

November 19, 1941

Dear Dr. Camp:

Our collecting season has been over for about four weeks and I have at last "come up for air". I have two packages of beech specimens ready to send to you but need a few instructions before sending them:

1. Would you like regular herbarium labels typed for each specimen or will the data-sheets you sent give you all you need?

2. I have 5 specimens from each tree (a few exceptions). Do you care for all of them, or only one? I should think all 5 might be better but I shall be glad to send you just what you want.

I am enclosing a map of Indiana showing where the specimen trees are located and am sorry they do not cover the state better.

Sincerely yours,

Ray C. Friesner

RCF:mb

From EK

Kokomo. Ind. Nov. 21- 1941.  
1812 N. Purdue St.

Dear Dr. Friesner: -

Your fine letter and long list  
of species - many starred - ~~to~~ -  
has just arrived. - The tremendous  
amount of work you do get out. -

I have no special Saturdays  
reserved. - I may go to Lafayette  
2-3 days in 1<sup>st</sup> half Jan. - to Ag-  
ricultural Meet - but will be  
home for Saturday.

Also came a letter from  
Dr. Dean, inquiring about  
that *Bidens aristosa*. - In my  
revised list that I gave you Oct 30-  
- I have omitted it. I had it listed  
at first - using the Aug 21 collection



when in <sup>2</sup>flower. The Sept.  
collection in fruit showed it to  
be *Bidens Coronata*. - some variety.

In your Report on the Kokomo  
Bog - you list *B. aristata*. - And  
when I next visited Willis Bog -  
I too determined it. - & using B. B.  
Gray. I was at Willis bog Aug. 21<sup>st</sup>.  
but collected no *Bidens*. - This place has  
"suffered the slings and arrows of  
outrageous fortune" - from an old  
Horse. - The pink *Hypericum vir-*  
*ginianum* + *Habenaria lacera* were  
"sunk without a trace" - gone. The  
area to the South - (uncultivated for  
several yrs) - was in corn. - This was  
where the *Bidens* was so abundant.

My Collections were from the  
Miller Bog - 1941 - And it is *Bidens*  
*Coronata*. In my Boxes of New Co  
Hunt Institute for Botanical Documentation



3. Frank 21781-41

Records you will find a sheet labeled  
*Bidens aristosa* - var. *mutica* - an error.  
- it is "*coronata*". may be one of Fernald's  
4 varieties. I thought in 1940 - I'd settle  
it. I have for Miller bog. - will see <sup>in</sup> 1942  
what I find on old Willis farm -  
- according to Dean's Flora - which  
upset some of our B-B conceptions.  
Just a glance at your Lists  
reveals that it is nearly exhaustive.  
However, in time, I'll go over your  
old Lists and check over.

Notre Dame - Dr. - just - sent  
me a Sept. Am. Mid-Naturalist - Fine.  
- Wis. - Peters - &c. Also 5 other reprints.  
- most important & useful are *Genus*  
*Carex* - Mich. - Hermann & *Senecioidea*  
*Senecioideae* of Ind. - Hicks.

Have only 32 boxes yet to go thru - - -  
Last night, - working on box from Steuben  
Co. - rear of old Baptist Church - where you.

Dean Patzger have collected before 1941 -  
- ran into several sheets, - tall - 90cm; -  
Panicum spretum - Dr. Patzger was along  
that day; - worked all my keys & manuals -  
- its all I can get it. - I may be wrong -  
- Odd that you - they - have not collected it  
- if (?) P. spretum it is. - There are acres  
of it in Jasper Co. - You remember our  
last stop " " Sept 1: - dried up  
marsh - Full of autumn phase of  
Panicum verrucosum - P. spretum &  
Solidago remote - (Memories!!)  
I'll lay it aside for Dr. Patzger to pass  
upon - If he hasn't time - will let  
Grandpa Dean - ... the old loafer!  
look it over! - ... I'll save it for Dr. P.

I am regarding the Kochia  
Sieversiana as a joint collection.

I note in MacKenzie's Big Bole of  
Ills. - that as many as 5 collectors are  
named for 1 specimen - and only scale  
(over)

ligule or achene<sup>5</sup> is used -

I'll try & be ready any Saturday  
you choose - Think I can still  
make a "hayd" at quadrat work -  
- but ~~logs~~ logs - & bogs - Can't pay.

Thanking you - again &  
again -

Sincerely Yours

Chas. M. St.

I mention The Koehia - for  
fear some might get idea that  
I alone found it - Since you paid all  
expenses; - Honor should go to you -  
Fact is - we each collected it  
simultaneously and contemporan-  
eously! - & use little words - -

Humorously Yours

Four Mr. Mr: [illegible]

Four two letters awaited me upon return from Thanksgiving vacation in Ohio. I have removed Sidene aristosa from the list of new county records and have just added the Nochis siogeralina as a new record. I think you might give the Kokomo paper a little note on it.

Mr. McCoy's address is 3444 North Illinois Street. Anytime you wish to write him and can't find the above address, just send it to the College for he is here nearly every night working in the herbarium.

Sincerely yours,

RCF:arb

(RECEIVED THE SECRETARY'S OFFICE)

Dr. Wm. W. Welch, Jr., 1111 University Hall, University of Wisconsin,  
Madison, Wis. 53706 (11/24/41) (11/24/41) (11/24/41) (11/24/41) (11/24/41)

Dear Dr. Welch: (11/24/41) (11/24/41) (11/24/41) (11/24/41) (11/24/41)

November 24, 1941

Dear Dr. Welch: (11/24/41) (11/24/41) (11/24/41) (11/24/41) (11/24/41)

Dr. Winona Welch  
Department of Botany  
DePaul University  
Greenacres, Indiana

Dear Dr. Welch: (11/24/41) (11/24/41) (11/24/41) (11/24/41) (11/24/41)

In a letter from Mr. Dean today he expresses some doubt regarding the identification of Robinia holseyi. Feeling that it would be better to take it out now and add it later than to let it go in case of a possible error, I have removed it from the list of new species. Would it be possible to have the specimens determined by Rehder or someone expert in that group and then turn it in for next year's report?

Sincerely yours,

Ray C. Friesner

RCF:mb



Gray Herbarium



Harvard University

M. L. FERNALD, Director  
Fisher Prof. Nat. Hist. (Bot.)  
CHARLES A. WEATHERBY, Research Associate  
LYMAN B. SMITH, Junior Curator  
RUTH D. SANDERSON, Librarian  
MARJORIE W. STONE, Bibliographer

ROBERT C. POSTER, Technical Assistant  
WALTER H. HODGE, Assistant  
in charge of Laboratory  
BERNICE G. SCHUBERT, Technical Assistant  
SARA R. STEWART, Illustrator

CAMBRIDGE, MASSACHUSETTS, U.S.A.

November 24, 1941.

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

Dear Dr. Friesner:

Mr. Weatherby has referred your kind letter of November 18 to me because he has retired from curatorial duties.

We should be glad to have the duplicates you offer and I am sure we will find much useful material in them. Mr. Deam has sent us much from Indiana but it has been rarities and selected technical groups and we are still lacking in general coverage for the state.

With many thanks for your kind offer,

Sincerely yours,

*Lyman B. Smith.*

LBS.

# REPRODUCTION AND VARIATION

I am sorry that I cannot give you a more complete answer to your question. I am sorry that I cannot give you a more complete answer to your question. I am sorry that I cannot give you a more complete answer to your question.

I am sorry that I cannot give you a more complete answer to your question. I am sorry that I cannot give you a more complete answer to your question. I am sorry that I cannot give you a more complete answer to your question.

I am sorry that I cannot give you a more complete answer to your question. I am sorry that I cannot give you a more complete answer to your question. I am sorry that I cannot give you a more complete answer to your question.

November 26, 1941

Mr. C. C. Barr

Prarie Com Ranch  
Sedwick, South Dakota

Dear Mr. Barr:

I have at last been able to finish determination of your specimens of *Solidago*. You will find the determinations on the sheets attached to the specimens bearing the specimens in case you care to use them. You will find that I have not agreed with Dr. Chapman's determinations in a number of instances. The distinctions in the *Memoriales* group are far from satisfactory and represent only my opinion.

I am very sorry to have been so long in getting these back to you. Pressure of university duties along with the spring and summer field work has been responsible for the delay. I greatly appreciate the privilege of studying your material and if it should be convenient for you to send me specimens similar to your numbers 22, 34 and 49, I shall appreciate it.

Sincerely yours,

Ray C. Friesner

H. H. BARTLETT, DIRECTOR  
FRIEDA COBB BLANCHARD,  
ASSISTANT DIRECTOR  
ELZADA U. CLOVER,  
ASSISTANT CURATOR  
WALTER KLEINSCHMIDT,  
HEAD GARDENER

JOHN T. BALDWIN  
CYTOTAXONOMY AND CYTOGENETICS  
BRADLEY M. DAVIS  
DENDROTHAL GENETICS AND CYTOLOGY  
EILEEN W. ERLANSON  
COLLABORATOR IN ASIATIC RESEARCH  
HOWARD SCOTT GENTRY  
MEXICAN FLORA  
CAREL HAMEL  
COLLABORATOR IN ASIATIC EXPLORATION  
JOHN R. HARDISON  
DISEASE RESISTANCE

UNIVERSITY OF MICHIGAN  
ANN ARBOR  
BOTANICAL GARDEN

*from Wharton*

FELIX G. GUSTAFSON  
PHYSIOLOGY, GROWTH  
LEROY H. HARVEY  
GRAMINEAE  
M. LOIS JOTTER  
DENDROTHAL  
WALTER KOELZ  
COLLABORATOR IN ASIATIC RESEARCH  
E. B. MAINS  
DISEASE RESISTANCE  
JOSÉ VERA SANTOS  
GRAMINEAE, PHILIPPINE FLORA  
MARY E. WHARTON  
KENTUCKY FLORA  
STEPHEN S. WHITE  
MEXICAN FLORA

November 26, 1941

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

Dear Doctor Friesner:

Thank you for your letter of November 14.

Last week I sent the specimens of *Solidago* to you by Express and I am enclosing herein a list of them. Of course you may keep the specimens. If, however, there are any that you do not care to keep, I shall appreciate your returning them and I shall send you the mailing cost (or Express, collect).

Thanking you,

Yours sincerely,

*Mary E. Wharton*

from Wharton  
26-81-41

SOLIDAGO

Mary E. Wharton  
813 East Kingsley St.  
Ann Arbor, Michigan

- 1449 S. erecta Pursh  
1506 S. ....  
1508 S. ....  
1533 S. caesia L. var. axillaris (Pursh) Gray  
3196 S. juncea Ait.  
3247 S. graminifolia (L.) Salisb.  
3308 S. latifolia L.  
3321 S. juncea Ait.  
3367 S. ulmifolia Muhl.  
3414 S. graminifolia (L.) Salisb.  
3419 S. aspera Ait.  
3468 S. altissima L.  
3487 S. erecta Pursh  
3502 S. altissima L.  
5130 S. ....  
5164 S. juncea Ait. var. scabrella (T. & G.) Gray  
5255. S. ....  
5257 S. ....  
5314 S. erecta Pursh  
5745 S. altissima L.  
5749 S. juncea Ait.  
5771 S. ulmifolia Muhl.  
5782 S. bicolor L.  
5794 S. altissima L.  
5800 S. juncea Ait.  
5821 S. ....

SOLIDAGO (cont'd)

Mary E. Wharton  
813 East Kingsley St.  
Ann Arbor, Michigan

- 5838 *S. caesia* L.  
5840 *S. ulmifolia* Muhl.  
5851 *S. ulmifolia* Muhl.  
5864 *S. altissima* L.  
5867 *S. ....*  
5874 *S. ....*  
5875a *S. erecta* Pursh  
5885 *S. ....*  
5886a *S. ....*  
5896 *S. rugosa* Miller  
  
G 182 *S. rugosa* Miller var. *aspera* (Ait.) Fernald  
G 220 *S. juncea* Ait.





I am sorry that the specimens in the box were not  
sent to you. I have been busy with other work.  
(Sincerely yours)

I am sorry that the specimens in the box were not  
sent to you. I have been busy with other work.  
(Sincerely yours)

November 27, 1941  
Mr. W. H. H. H. H.  
Department of Botany  
University of Kansas  
Lawrence, Kansas

Dear Mr. H. H. H.:

I have at last found the time to go over your specimens of  
Solidago and wish to report on them as follows:

1. *S. glaberrima* var. *horitura* (Steele) Palmer & Steyermark
2. Probably *S. altissima* L.
3. Same as number 1.
4. *S. nemoralis* var. *longipetiolata* (Mack. & Bush) Palmer & Steyermark
5. *S. altissima* L.
6. *S. ulmifolia* Muhl.
7. *S. glaberrima* Martens
8. *S. ulmifolia* Muhl.
9. *S. altissima* L.
10. Same as number 1.
11. *S. gymnospermoides* (Greene) Fern.

I appreciate the privilege of studying these specimens and  
hope that I can be more prompt in reporting on any you may  
care to send in the future.

Sincerely yours,

Ray C. Friesner

RCF:mb

Butler College  
Tyler Texas  
December 5, 1941

Head of The Department of Botany  
Butler University  
Indianapolis. Ind.

Dear Sir:

Our Class in biology is  
attempting to make a study which  
will enable us to distinguish the  
toad stool from the Marshroom.

We will appreciate your sending  
or referring us to any available in-  
formation by which we may be  
assisted.

Yours Very Truly,  
Bernice Hargest

December 5, 1941

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

Dear Sir:

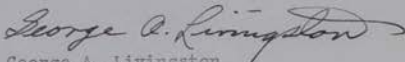
I am a probable candidate for a M.S. degree in June at the State College of Washington. I wish to continue on to a Ph. D. in Ecology. Butler University was suggested by Dr. F. E. Clements as one of the few good schools in this country for this work.

As I need financial help to continue my work, I would appreciate it if you would send me an application blank for an assistantship for the school year 1942-43.

During the past summer I worked under the direction of Dr. F. E. Clements on a problem for my masters thesis. The problem suggested by him, is on the composition and structure of the grasslands in the mountain parks of central Colorado. I am interested in continuing my graduate studies and obtaining a Ph.D. I feel that I have only scratched the surface of this problem in one summer and would like to continue on it, if possible.

Hoping to hear from you soon, I remain,

Sincerely yours,



George A. Livingston  
105 College Ave.  
Pullman, Washington

December 8, 1941

Miss Bernice Hargest  
Butler College

Dear Miss Hargest:

Your letter regarding distinction between mushrooms and toadstools is at hand. Botanists do not make any distinction between these terms. In a popular and purely non-scientific sense the term "mushroom" is often applied to those forms which are edible and the term "toadstool" to those which are not edible but this distinction is purely one of economic significance. There is absolutely no way of telling in advance whether a form is poisonous or not except to try it and if it doesn't kill you or make you sick it is not poisonous. Of course, a species once tried and found edible is safe so long as one is certain of their identification.

The Department of Agriculture has published a number of bulletins on this general subject some of which you could probably secure by writing to your representative in Congress. The National Geographic Magazine for May 1920 contains a very interesting article which you may find quite helpful.

Sincerely yours,

RCF:mb



UNIVERSITY OF CINCINNATI

DEPARTMENT OF BOTANY-BIOLOGY BUILDING

Cincinnati, Ohio,  
December 9, 1941

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

Dear Doctor Friesner:

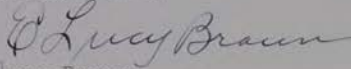
Thank you for your card of Dec. 9. I have a specimen of *Solidago* from Pike County, Ky. (which is over near to W.Va.) which I called *S. Harrisii*, and which is the same as specimens by that name at the Gray Herbarium. It was among those I had with me in Indianapolis, and you agreed that it must be *S. harrisii*, although its habitat does not agree too well with published statements. It is a large coarse thing with large basal leaves. If there can be any doubt as to the correctness of this identification, I would certainly like to see one of Dr. Core's specimens of West Virginia material of *harrisii*.

As to the new species - I am describing the distinct plant from the sandstone rockhouses and the smooth variety of *S. rigida* (in the January number of *Rhodora*). The other plant, somewhat resembling *latifolia*, I am not doing anything about. The only specimen which appears distinct is from the summit of Big Black Mountain, Harlan Co., Ky. This was growing with *S. Curtissii*. Throughout the Cumberland Plateau, as far as my series of specimens illustrates, *S. latifolia* has the leaves broadest about the middle and tapering toward both ends; this seems to be a geographic race. But I can find no really distinct characters and leaf shape varies, even number of ribs on involucre bracts varies. The week-end after I was in Indianapolis I went to Rowan and Carter counties, Ky., and collected more material. It was then that I decided to do nothing about this plant, at least not without many more collections.

My list of Kentucky *Solidago* will be in *Castanea*, probably about February.

When at Clifty Falls on Nov. 22, I saw plants of a goldenrod which appeared to me to be your *ovata*, but they were too far gone to collect. They were with *S. ulmifolia* and *S. sphacelata*, looking more like the latter, but the involucres opened up and showed achenes with distinct though short pappus. These were along the trail past Little Clifty Falls, on that part more or less facing toward Clifty Falls. I saw it nowhere else.

Sincerely yours,

  
E. Lucy Braun

December 2, 1941

Dr. Earl L. Core  
Curator of the Herbarium  
West Virginia University  
Morgantown, West Virginia

Dear Dr. Core:

I am very grateful to you for the two specimens of Solidago harrissi which came yesterday. They will fill a very important gap in our collection of this genus and I hope I may be able to return the favor soon.

Sincerely yours,

Ray C. Friesner

RCF:imb

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

December 9, 1941

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

Dear Dr. Friesner:

If you should have the opportunity we would be pleased if you would make suitable arrangements to send us two pounds or more of roots of Fraxinus tomentosa or F. biltmoreana or F. quadrangulata. At present we would like to test only one of these species. We would prefer to have roots not larger than one inch in diameter. You will note that these species are not found in New York.

I have just returned from South America and shortly before Christmas I hope to be able to look into the matter of exchanges with you, etc.

Very truly yours,

B. A. K.  
B. A. Koukoff

Bak/Jd

December 11, 1941

Mr. George A. Livingston  
105 College Ave.  
Pullman, Washington

Dear Mr. Livingston:

Your letter regarding graduate work in Butler University is at hand. I am sorry that we are not in a position to be of service to you. We do not offer work toward the doctorate. Each year we have three or four students graduating with the Masters degree but we are not in a position to go higher than that now. We greatly appreciate the recommendation Dr. Clements gave to you for we value his opinions very highly.

Sincerely yours,

Ray C. Friesner

RCF:mb

# STANDARD FORM NO. 64

1. The enclosed are the specimens in the field collection of the Hunt Institute for Botanical Documentation.

2. The specimens are in the field collection of the Hunt Institute for Botanical Documentation.

December 12, 1941

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

Dear Dr. Kruckhoff:

Your letter regarding roots of *Fraxinus* is at hand. *Fraxinus tomentosa* and *F. biltmoreana* are much less abundant in our area than *F. quadrangulata* of which we have an abundance on our university grounds. As soon as the ground thaws out sufficiently we will dig a few small trees and send the roots requested.

Our exchange sets are all made up and ready to go but we had decided to wait until after the holiday rush to send them. The set ready for you contains a little over 70 species in triplicate. We are always glad to receive whatever you are able to send us and are glad to help in any way we can.

Sincerely yours,

Ray C. Friespor

RCF:mb



I am writing you this letter in the hope that you will find it of interest. I have been thinking of you very much lately.

I am for the time being.

A new plant has been discovered in the rock strata of the Permian period. It is a small plant with a single stem and a few leaves. It is very different from any other plant known to us. It is a very interesting discovery.

December 15, 1941

Dear Dr. Lucy Braun:  
University of Cincinnati  
Cincinnati, Ohio

I have just received your letter of the 9th. I judge it will not be necessary for me to send you the specimens of *Solidago harrisii*. I could not recall whether you had seen this species and remembering that one of your specimens resembled *S. latifolia* I at once thought it might have been the former species.

In the light of your letter of the 9th I judge it will not be necessary for me to send you the specimens of *Solidago harrisii*. I could not recall whether you had seen this species and remembering that one of your specimens resembled *S. latifolia* I at once thought it might have been the former species. I have only recently named a group of Kentucky *Solidagos* for Miss Mary Wharton of the University of Michigan. She is working on the flora of the New Albany black shale region of Kentucky. Her specimens were all "mine-run".

I shall await with interest your forthcoming paper in Castanea. I also appreciate greatly your "tip" on the possibility of finding *S. ovata* at Clifty Falls and shall try to locate it next fall.

Sincerely yours,

Ray C. Friesner

RCF:mb

Harlingen Texas.  
Dec. 17, 1941.

Department of Botany,  
Butler University,  
Indianapolis, Ind.

Gentlemen:

Several months ago I mailed you copies of our Nature Club leaflet describing a new species of verbenas. As I have not heard from you concerning them it may be that they were not received. Consequently, I am enclosing others. Will you kindly let me know if they reach you safely?

Yours very truly,

*L. S. Davis*

December 17, 1941

Dr. Eleanor Scull  
Naples, Florida

Dear Dr. Scull:

Your package of herbarium specimens arrived today but upon opening them I am unable to find their determinations. Will you send determinations or did you expect us to make the determinations? It would not be possible for us to make determinations from areas about which we know so little except in the case of species in genera with which we are especially familiar, e.g. the genus *Solidago*.

I have put the material on our reserve shelf hoping that you may have the determinations ready to send at some future date.

Sincerely yours,

Ray C. Friesner

RCF:mb

THE NEW YORK BOTANICAL GARDEN

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

PRESIDENT  
JOSEPH R. SWAN

VICE-PRESIDENTS  
HENRY DEB. BALDWIN  
JOHN L. MERRILL

TREASURER  
ARTHUR M. ANDERSON

DIRECTOR  
WILLIAM J. ROBBINS

December 19, 1941

Dr. R. C. Friesner  
Butler University  
Indianapolis  
Indiana

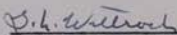
Dear Dr. Friesner:

We have available at this time approximately 400 duplicates of the Philip Johnson Collection from South Dakota and Minnesota which we would like to exchange for material of your state. Dr. Gleason who has identified the collection, considers the sets fairly representatives of the respective states.

Would you kindly advise me if you are interested in the exchange.

We have also accumulated miscellaneous material from S. America, different parts of the U. S. and Costa Rica that Dr. Gleason thought would be of interest to you. These will be sent on Jan. 5th, on basis of exchange.

Very truly yours,

  
G. L. WITTROCK  
Custodian of the Herbarium

GLW:MM  
Enc.

Kokomo, Ind., Dec. 20, - 1941.  
1812 No. Purdue St.,

Dear Dr. Friesner -

Have planned for a week to answer your card. - &c. Been busy with my boxes of specimens and now have 11 out of 55 left.

Got a letter from Dr. Svenson a week ago - saying he had ~~gotten~~ been successful in getting me some money for 250 specimens. - So I was a good part of Monday packing them - all from surplus sheets, many of them local. I had him in mind all summer, so I collected heavily on my local trips, largely mine-run species. - Then when on our <sup>rock</sup> trip - I got several sheets as I usually did. - I let them have one. -

For several years, I have sent in subscriptions for the P.O. employees & relatives. This year I did quite well - I made between 10. & 11. \$ or 12.00 if I get a bonus. - It took me 2-3

(over)



dogs & nerve - wracking, filling out  
forms & 4 places - - firms - A few  
independent & is very conducive  
to peace in the home. But I'm  
glad to get back on the specimen &  
amid the turbulent times the world  
over - there's a solace and a satisfaction  
found nowhere else.

I have about 22 sheets here of  
New Co. records - since you took those  
when lost here. In all I have 67 New  
Co. records for 1942. There ought to be 75-80  
in all. I wish to make one correction  
in my Oct 30 list given you at Greencastle.  
Ludwigia alternifolia. I have on my  
rough sheet as from Roseau Co. -  
- It should be Pulaski Co. I use my  
old pencil sheet date and caught it when  
I came to the surplus sheets - I remember  
well - place - & - just N. of where we had dinner  
on E. side Road - growing with Panicum in  
agrostoides - both new to me. -  
Had my Flore rebound - That

shows --- well<sup>3</sup> - how hard Jim  
at it - "1.50 Five job.

I'll try + be more careful. - -

Got a Card from Dr. Potyger  
next day or so. - giving good results  
of big work. - It looks as tho it  
means another trip to same place -  
- in winter - when there's 3'-6" ice  
in the lake. - Its certainly great stuff!  
Quite interesting to me - tho I know  
little about it. Hope Dr. Potyger has a  
Big Time in Texas. - I regret that I  
didn't spend 1-2 days when it was in  
Judith's. - tho I wasn't much of a  
botanist then (+ aint yet.)

No use to gibber about any-  
thing else now. - Recd your card late  
today - saying you were planning to  
come Nov Dec 27. - Thought, owing  
to fine weather you'd be along today. - So  
I'll be looking for you a week from

today. - Dec. 27 - 1941. -

You can take back as many boxes as you have room for.

I'm worrying about rubber tires for 1942. - Yes - yes - in every way - it's the old story of

locking the barn - after old Dobbin has been stolen. - -

I hope it won't interfere with our trips North. - 1942. -

This 184m. - 214m. - will hurt all the Colleges. - (Jim part 64.)

Trabost will nearly go under. -

You will still have a lot of sweet hearts left. - Education.

- Science - in America has just begun to suffer.

Very sincerely yours.  
Chas. M. Ed.

P. S.

from Ek  
20-XII-41

Dear Dr. Friesner!

Prof. McCoy, when at Greencastle, mentioned something about some sedges he had collected - while on a trip to the West. I said I'd do my best - & that it would be a pleasure - also very educative to see what I could do with them. But I promised nothing - only willing to try.

Just thought that if he had them ready you could bring them up - next time - Dec. 27 - if weather permits, & save postage - etc.

Next time I see you, I want you to tell me you have carefully read In Fact - for Dec. 15, 41 - the wide column. This is Required Reading.

Sincerely, Yours  
C. M. E.



December 23, 1941

Dr. G. L. Wittrock  
Custodian of the Herbarium  
New York Botanical Garden  
Bronx Park, Fordham Station  
New York, New York

Dear Mr. Wittrock:

Your letter of the 19th regarding duplicates of the Philip Johnson collection from South Dakota and Minnesota is at hand. We probably have fewer specimens from South Dakota than from any other state and hence would be very glad to have these duplicates.

I have ready to send you, as soon as the holiday rush is over, 85 specimens from my past season's work. The Philip Johnson collection, together with the 193 specimens you are sending on January 5, and subtracting what I am about to send you will leave me indebted to you to the extent of 211 specimens. I do not dare to become too deeply indebted because each succeeding year finds it more difficult to collect species that do not duplicate those previously sent. If, under the above circumstances, you care to send us the Philip Johnson duplicates, I shall be glad to receive them.

Sincerely yours,

Ray C. Friesner

RCF:mb



BEAUTIFUL  
NATIVE PLANTS  
FROM THE  
HIGH PLAINS, BADLANDS  
AND BLACK HILLS

CLAUDE A. BARR

PRAIRIE GEM RANCH

SMITHWICK, S. D.

Dec. 29, 1941.

NATIVE  
ROCK PLANTS  
HARDY PERENNIALS  
CACTI AND EULBES  
SEEDS

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

Dear Dr. Friesner:

Thank you very much for your determinations on my  
Solidagos.

I was expecting a change from Dr. Hapeman's *S. trinervata*. But that the one from the prairie already labeled "pulcherrima" should be the same as these others was quite unsuspected though I have had both in the garden for some years and have observed them much in the wild, chiefly of course from a horticultural angle. "Pulcherrima" continues to be pulcherrima by your "guess," as you say. But I note that the specimen is not as good as it might be and in addition to making as much full season study of it as may be I shall try for a better specimen if there still appears to be ground for any question.

The placing of Dr. Hapeman's "salebrosa" tentatively in the pulcherrima group also entails further study, which I may not be able to accomplish, having no plant at home and the source of the specimen being remote.

I am returning to you under separate cover numbers of specimens which you requested, as I have satisfactory duplicates or have the live material at hand. Also inclosed in the package are several specimens, labeled Hot Brook, #1, #2, #3, #4, and #5 -- Hot Brook being in Fall River County, South Dakota, a few miles within the Black Hills -- which I mentioned when writing you before as the only species I knew for this region of which my collection did not include material. I'll just say, without any attempt at prejudice, that I had suspected this of being trinervata, possibly, rather than the pulcherrima specimens placed by Dr. Hapeman as trinervata.

The package also contains a specimen which I collected in September, near Tilford, about 100 miles north, which I cannot surely relate to any other on which you have passed. I should like very much to have your interpretations of these new lots. They need not be returned, as I have duplicates.

In reiterating my appreciation of your assistance I can only say I trust that your study of these western specimens has in some measure been its own reward. If at any time I can be of service please ask it.

Sincerely yours,

*Claude A. Barr*

Mrs. George W. Leighton  
6211 Kimbark Ave  
Chicago

Mrs. George C. Haerle Ta 5930  
3733 N. Meridian

Marked Copy of Colleagues

from Ek  
(n.d.) 1941

Dear Dr. Friesner; -

Two little items I forgot  
to include: -

In some way - I mislabeled  
an *Oxalis* that was abundant  
in an old Iris row N. of my  
house: - I had it *Oxalis*  
*europaea* var. *cymosa* - whereas  
the stem is definitely villosa,  
making it *Oxalis europaea* var.  
~~with~~ *villicaulis* -

Also: - I reported as new Co. Records  
for Howard Co. *Chenopodium*  
*ambrosioides* var. *anthelminticum* -  
from colonies along road + in barulof  
3 1/2 mi E. along Road to Shunk Woods. - I  
have the species from my yard - Now  
the two colonies are definitely different.  
Hunt Institute for Botanical Documentation

Yet --- a ~~real~~ re-examination of  
sheets reveals some tiny scattered  
broets - Both Gray + Dr. Just  
say the two come together + are highly  
variable. - polymorphic - So it  
is partly a matter of interpretation.  
The *Apalis* was a clerical error of  
some kind. - The *Chenopodium* one of  
judgment. - Neither so serious -  
but *Apalis* needs correcting.

Could have told all on a postal.

Sincerely Yours -  
Chas. S.

George Sloan School  
3002 Rader Street  
Indianapolis, Ind.

Dr. Friesner

Butler University

Indianapolis, Indiana

Dear Dr. Friesner,

Will you please give us  
information about plants  
native to this vicinity that  
would not be found near  
Providence, Rhode Island.

We are trying to answer  
a request from the children  
there for material to use in  
their arboretum.

Thanking you in ad-  
vance for this favor we are

Respectfully yours,  
Children of Room 10.