

Hunt Institute for Botanical Documentation 5th Floor, Hunt Library Carnegie Mellon University 4909 Frew Street Pittsburgh, PA 15213-3890

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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.

April 7, 1940

Dear President Robinson:

The committee which you appointed regarding the proposed memorial of Dr. J. F. Sleuper wishes to make the following reports:

The materials proposed to be given would probably make a valuable addition to the facilities for cultural and scholarly work in any institution ultimately receiving them. We doublt, however, the wisdom of making an effort to bring them to Butler University because:

- 1. We now have at Butler a collection of shellsfrom many parts of the world. Since our collection compares favorably in numbers, at least, with the collection under consideration, it is likely that to buring this proposed collection here would result in considerable duplication.
- 2. We now have at Butler a larger collection of fossils for which there is at present no adequate means of use or display.
- 3. Under our present crowded conditions it would be difficult to spare the floor space necessary to adequately care for and display the material proposed to be donated.

Sincerely yours,

April 7, 1960

Benr Promident Robinson:

The condition which you appointed regarding the proposed senerial of Dr. J. F. Slooper wishes to make the following reports

The materials proposed to be given would probably make a valuable addition to the facilities for cultural and scholarly work in any institution ultimately receiving them. We doublt, however, the wisdom of making an affort to bring them to butler University because:

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- 2. We now have at Dutler a larger collection of foccile for which there is at present no adequate seams of use or display.
- 3. Under our present crossed conditions it would be difficult to spare the floor space adoessary to adequately care for and display the material proposed to be descited.

Sinceraly yours,

Hr. Key C. Tresure Butter immunety Judiana polis, 2001. wadesville and APT 11, 1940

Rear Hs. Friener: Before leaving Bedford this morning I sent you via gard post some Chinese chestrut and oak planting stock which werd sent to the Sail Conservation Lervices by un. Jesse Peller I the Bureau of Plant Industry for experiental Purposes. You may recall our Consesvation about these flouts. In order that the B.P.I. may know the location of the stock for futter observationer in the future me would like to have the following information: (1) A map or sketch showing the name of the farm or property (2) its exact. location in see. Tweep, range or other goseting method of location (3) locations of plantings of species on Jam, (4) spacing of trees, (5) soil type, (6) degree orgelation. I thuis you high hant

Hunt Institute for Botanical Documentation

a specimen for your (Butters) arboreture or botameal garden. Feel free to takes one flach for that purpose if you hant to. Below is a list I what I sent you together with the Bullow of Plant Industry mumber on dem. name J Plant plants of BPI Castanea mollissima Lybrids, Bell 4 15 D FP 870 3 20 12 FP 903 Casteney Mollissing Tientsin Castanes arlington, mixed hybrids 2 10 6 FP799 1 10 S FP873 Castenes crenata, forest types Quercus acutissima 5 5 3 120652 6 5 3 120654 Quereus faberi Quereus variabilis 7 53 120658

Hunt Institute for Botanical Documentation

April 11, 1940

Mr. Preston Smith Osborne Botanical Laboratories Yale University New Haven, Conn.

Dear Mr. Smith:

Your request for data on pollen analyses of Lake Cicott, For Prairie, Cramberry bogs is at hand. We will be glad to forward this to you within a few days, i.e. as soon as we can find the time to type it out from the original manuscripts.

We have the date on four more bogs in manuscript just about to be taken to the printer. Copies will, of course, come to you as soon as off the press.

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The state of the s

ROF:meb

THE PURPLE HOLD

April 12, 1940

Dr. Arthur Sandler, M.D. 2700 Devon Avenue Chicago, Illinoss

Dear Dr. Sandler:

Your communication containing list of species desirable for demonstration purposes in connection with hay fever was awaiting me upon feturn from vacation. We do not happen to have many of these on hand, but will send what we have just as soon as we can find the time to hunt them out and get them mounted. Others will be collected this season and we can send them to you as we get them if that will be of value to you.

Sincerely yours,

Ray C. Friesner

RCF:mob

424 Bonnell an Reading This april 14, 1940 Dr. Roy Fuerner Buller Heriversets Indianakolis and Dr. a. J. Evans from Meani University asked that I write and ask you if you have any publications or references on Invasion of Old Tulds" I am doing my thesis on that suffect under Dr. Evans and would appreciate any help you may offer. Thank you your very buly;

April 15, 1940

Mr. Ralph Kriebel Soil Conservation Service Bedford, Indiana

Dear Mr. Kriebel:

The trees of Castanea and Quercus were received in good condition Friday, April 12, and planted Saturday, April 13. We placed 2 each of the caks and 5 each of the chestnuts in the Butler University Botanical Carden. We placed more of the chestnuts there in order to give a good chestnut blight test for there are several blighted chestnut trees within 1500 feet of where the trees were planted.

The material taken to Brown County was planted at the head of a wooded ravine the site having an east and northeast exposure and being fairly well protected from the winter winds by ridge top on the west and south and by native forest on the east end north. The soil is yellowish clay, the product of weathered Knobstone. (Booden, I think)

The area is in Hamblin township in the east half of the southwest quarter of section 3, township 9 north, range 3. It is on the Clay Lick road which is the first road running north from State Rd. 46 west of the east entrance to Brown County State Park. The area on the same ridge as Bear Wallow, about 2 miles east of Bear Wallow and 3 miles north of Road 46. I am enclosing a diagram of the tract and planting site.

I am greatly indebted to you for the privolege of trying these species and shall be glad to report their condition at any time.

Sincerely yours,

Ray C. Friesner

RCF:meb

April 15, 1940

Alberts Teachers' Agency 25 E. Jackson Blvd. Chicago, Illinois

Dear Mr. Albert:

In reply to your inquiry of March 22, I should like to recommend three of our graduates who have Masters' degrees. Either of the three would be quite capable of doing a good job of teaching college work, especially Junior College work. They are:

> John W. Howell 915 21st Street Sacramento, California

Byron W. Moss Route 5 Logansport, Indiana

Dayton Swichard Botany Dopartments Batler University Indianapolis, Indiana

Sincerely yours,

Ray C. Friesner

RCF:met

Oklahoma
Agricultural and Mechanical College

OEFARTMENT OF
BOTANY AND PLANT PATHOLOGY

STILLWATER
April 16, 1940

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

Dear Dr. Friesner:

Under separate cover I am sending you a specimen of what is commonly called the Rayless Goldenrod.

I have no systematic manual that describes this particular species. I shall be pleased to have you identify it as to scientific name, and will you be kind enough to cite me the reference where the description may be found.

You may keep the specimen for your collection.

With kindest regards, I am

Very truly yours,

Robert Stratton

Robert Stratton Associate Professor Botany and Plant Pathology

RS amb

Mest Hirginia Hniversity

MORGANTOWN, W. VA.

COLLEGE OF ARTS AND SCIENCES

DEPARTMENT OF BOTANY AND ZOOLOGY

April 16, 1940

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

Dear Dr. Friesner:

Thank you very much for the list of golden-rods of West Virginia and for permission to use it in my checklist. It sounds to me as though you will have an interesting paper and I hope you work it out in the way you wish. If possible at all, we will publish it in its entirety. Material on hand now will run us into autumn, so you can take as long as you like. We shall not get around to it before December or January, in view of the present stock of manuscripts.

I have written to Marshall and

Concord.

Sincerely,

Earl L. Core Curator of the Herbarium

Editor of Castanea

ELC/eab

### THE NEW YORK ACADEMY OF SCIENCES

FORMERLY THE LYCEUM OF NATURAL HISTORY

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17 April, 1940

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

Dear Doctor Friesner:-

I have at hand your letter of March 27th, in which you state it will not be possible for you to become a Member of the Academy, and I am wholly sympathetic with your reason.

I assure you that if in the future you desire to apply for membership, we shall be pleased to receive your application.

I thank you for your interest, and even though you do not become a Member, I hope that you will find our work of value.

I have been absent from  $my\ desk,$  and I therefore regret the delay in answering your cordial letter.

Very sincerely yours,

Executive Secretary

ETM: OA

Olive Branch, Mississippi, April 17, 1940.

Butler University (proposed) Arboretum, Indianapolis, Indiana.

#### Dear Sirs:

Do you have any scholarships, fellowships, assistantships, or openings of any kind or will you have in the near future for a young man very much interested in plant and arboretum work? I offer the following qualifications:

- I am 31 years old, have a moderately light complexion, and am six feet tall.
- 21 B.S., Wisconsin College of Agriculture, 1931, with courses in horticulture with excellent scholarship.

  Am successful at research and have fifteen credits on a Master's degree.
- 3. Experienced nursery worker as salesman and laborer.
- Experienced high school teacher of science and am now employed.
- Am on the eligibility list for junior forest ranger in Wisconsin having passed a civil service examination.
- Am now working on a book on the trees and shrubs of the North.
- Do not object to manuel labor if it offers advancement and an opportunity to work with plants.

What do you have to offer?

Sincerely yours,

April 19, 1940

Miss Wary Lang 1424 Bonnell Avenue Beading, Chio

Dear Miss Lang:

Your inquiry regarding published papers on invasion of old fields is at hand. We have not published any papers directly on this topic. Dr. Potsger and I have often talked of laying out some permanent quadrats in some old fieldsites but we have never actually gotten around to it.

We have published one paper which will have some bearing on the question, wiz, Potzger, J.E. and Pay C. Friesner. Some comparisons between virgin forest and adjacent areas of secondary succession, Butler Univ. Bot. Stud. 5:65-98. 1954. You will find this in the library at Mami University or in case the library lacks this volume, we can send it to the library upon request. I am sorry we do not have reprints that could be sent direct to you for your own possession.

I recall the following reference which may be of value to you: Cafton, W.M. and B.W. Wells. The old field prisers: an ecological study. Jour. Blisha Mitchell Sci. Soc. 49:225-246. 1934

In case this should not be available to you in the Miami University library, you might ask them to get it for you on an inter-library loan.

I am sure our library would be glad to supply it.

I am sorry I cannot be of more direct help to you.

Sincerely yours,

Ray C. Friesner

RCF:meb

April 19, 1940

Mr. Sheldon T. Gardner Olive Branch, Miss.

Dear Mr. Gardner:

Your inquiry regarding scholarships and fellowships is at hand.

I am sorry that we do not have any such aids that will do more — than pay tuition.

Sincerely yours,

Ray C. Friesner

DEF-mol

Hunt Institute for Botanical Documentation

April 20, 1940

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

Dear Dr. Stratton:

The specimen referred to in your letter of the 18th came today. The data coming with it do not give locality where collected and, since it is a plant unfamiliar to me, I am unable to choose the proper manual to use in attempting determination. I know that it is not the plant referred to by Small in his manual of Southeastern U. S. as the rayless goldenrod. Your specimen locks more like a species of Chrysothamnus to me but I do not know this latter genus well so I may be mistaken. At any rate, I will attempt determination but will wait for your locality data begause it will save me time.

Sincerely yours,

Ray C. Friesner

BCF : meb

Nokomo, Ind. - April 23-1941 1812 North Gurdun St. Drar Dr. (finesuer'. with the Am. Glad & hurryon Til be Mody. Should anything now unforseen intervent, will let you know, Evans deduit come up last Sat. Apr 19. - I hope to can come up this sat, " 26 - I have things all mapped out for a busy day Mode a list of about 3d opening that We can find, some fin suite that are new to him ; has out yesterday P. M. for ger an hr- not long-but time enough & locate a lot - old man forganted me A few other items I forgot, Hove a bis collection of string for type backoges.
Also plants of boxes to rise for enclosing Hunt Institute for Botanical Documentation

specimens - heaving, stiff boxes from a dress + Good store my flivish friend - Also a loh 1 broom- housles ger 10. You have never gotten my 1940 specimens - 15 big bockofes - They will be ready may 1 - if you want them. I went thru them and selected enough for 4 boxes for Nysk Bot. Gorden - Letter from Dr. Kriekoff this morning paid the Goden would be flad & get them & box the postage. In no way will Butter Buffer. They are just a specimen from most of the species Collected in 1940. You know I slevogs get plenty; - a surplus if bossible Presume you and Dean how sent he A. y. Bot Gorden a lot. At least they'll get Done new Co. - + may be new State records Hope Evous Con Come up Sat - and is no conflicts with his Butter program-wish you'd encourage the try- if weather is good. Have started pressing - a nice fittle stack See you May 1-3 Phis - Best Nowher & all -Plan Evan + 1 90 & Sheek woods - Smorely Church, Hunt Institute for Botanical Documentation

P.S. Forfor & Day that 1 Course De be glad to do all and everything I con- as as for as my physique will permit in the soil and moisture work you have in mind. It will be new In me. + fil hove to learn, Am Aure Evans & J Can locate all the stations. Sat. As always. Best Wishes ... Yours. E. Ek

Hunt Institute for Botanical Documentation

Box 448, College Station, Pullman, Washington, April 25, 1940.

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

Dear Dr. Friesner:

Tour letter of January 5 has been lying in the backet so long that I really begin to have a guilty conscience. I presume that it really doesn't make too much difference since there is nothing we can do about your request until summer.

There are several species of <u>Solidazo</u> listed for this region, but, since I have never made an effort to identify any of them, I do not know just how many occur in areas adjacent to Pullman. An effort will be made to secure an amount of such species as are available. Although I do a great deal of traveling during the summer, I have ceased the habit of carrying a vasculum and a plant press, and consequently on the longer runs it is not likely that material will be collected. However, if some good specimens are noted, it will no doubt be possible to make some arrangement for handling them.

There are a lot of things that we would have to talk about if we ever get a chance to be together. I have often wondered if it would be possible for you to spend part of a summer out in this country instead of staying east of the Mississippi. Personally, I think that you would not only enjoy it but learn a great deal about conditions here which are certainly different than those in the central states. I have just about lost track of most of the old gang who were at Butler at the time I was there. There is a possibility that we will get back home sometime this winter and if so will most certainly look you up. Please give my regards to Mrs. Friesner and those of the Butler staff who may remember me.

Sincerely,

Lowell A. Mullen, Manager, Seed and Plant Collection Unit. Oklahoma Agricultural and Mechanical College

DEPARTMENT OF BOTANY AND PLANT PATHOLOGY STILLWATER

April 24, 1940

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

Dear Dr. Prissner

I have your letter in regard to data concerning the Rayless Goldenrod Which I sent you.

I am positive I enclosed a slip giving all the information about the plant that I know. Perhaps the slip was lost in opening.

Several of these specimens were sent me by C. A. Lathrop of Dexter, New Mexico. The package was postmerked August 19, 1939. As I recall, no particular habitation the exact location where the plant was collected was given. I feel quite certain that the plant must have been collected in New Mexico.

Yours very truly,

Robert Stratton

Robert Stratton Associate Professor Botany and Plant Fathology

PS .mb

P.S. In his letter, he lists it as aplopappus heterophylus Blake.

H. E. Hansen, p. 22, Bull. 263 S. Sak Exp. Sta. lists Raylers Goldenrodas

l. Bigelovia douglasi, Gray

2. graveolens, Gray

Chrysothamus graveolens Green

April 24, 1940

Mr. M. B. Esterline, General Manager Eagle Creek Mursery Coll Inc. New Augusta, Indiana

Dear Mr. Esterline:

Mr. Scott McCoy has reported to the University Administration the receipt of a number of very valuable plants for planting in the Botanical Cardens. On behalf of the University, I wish to express to you our sincere appreciation for these specimens. They are, in every case, an addition of material not previously in the garden.

It is our sincore desire to cultivate amongst the people visiting the garden a deep appreciation for plants as such and we feel that this appreciation will have an effect upon the development of their personalities and their outlook upon life.

Again thanking you for your kindness, I remain

Yours sincerely,

Ray C. Friesner

RCF:meb

Dr. Earl L. Core, Curator The University Herbarium West Virginia University Morgantown, West Virginia . Dear Dr. Core:

I am returning the herbarium specimens of Solidage and Brachychaeta and hope they will reach you in good condition. I sincerely appreciato the privolege of studying these specimens for there are a number in your collection with which I have not previously been familiers.

As opportunity affords I shall continue to work on the data obtained from your material and will submit the finished paper as soon as I can get it completed. In-so-far as I am concerned. there is no hurry about publication anyway.

Thanking you again for your kindness in loaning the specimens, I remain

Sincerely yours,

Ray C. Friesner

ROFsmeb

# UNITED STATES DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

Box 448, College Station, Pullmen, Washington, April 25, 1940.

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

Dear Dr. Friesner:

Your letter of January 5 has been lying in the basket so long that I really begin to have a guilty conscience. I presume that it really doesn't make too much difference since there is nothing we can do about your request until summer.

There are several species of <u>Solidago</u> listed for this region, but, since I have never made an effort to identify any of them, I do not know just how many occur in areas adjacent to Pullman. An effort will be made to secure an amount of such species as are available. Although I do a great deal of traveling during the summer, I have ceased the habit of carrying a vasculum and a plant press, and consequently on the longer runs it is not likely that material will be collected. However, if some good specimens are noted, it will no doubt be possible to make some arrangement for handling them.

There are a lot of things that we would have to talk about if we ever get a chance to be together. I have often wondered if it would be possible for you to spend part of a summer out in this country instead of staying east of the Mississippi. Fersonally, I think that you would not only enjoy it but learn a great deal about conditions here which are certainly different than those in the central states. I have just about lost track of most of the old gang who were at Butler at the time I was there. There is a possibility that we will get back home sometime this winter and if so will most certainly look you up. Please give my regards to Mrs. Triesner and those of the Butler staff who may remember me.

Lawell a. Mullen

Lowell A. Mullen, Manager, Seed and Plant Collection Unit.

#### (Note-book Continued)

All written notes must be in ink.

Notes rust be removed from notebook and placed in manila envelopes when handed in fer correction. Each section of notes must be placed in a separate envelope and each envelope must contain on the outside, plainly written:

(1) Student's Hama.

(2) Laboratory saction number.

(3) Name of the material covered in enclosed notes. Notes incorrect in this regard will not be accounted.

#### MISCELLIGHEOUS.

Everything used about the laboratory must be kept clean. This applies in particular to slides, covers, lenges, and instruments. It also applies to the laboratory floor: do not allow small bits of paper to get on the floor. There is a wastern separation the proparation table.

Use Oblighouse for leading lenger. For everything else use a clean cloth. Clean up this traction of the parise. Carry all paper to the basket. Lockers must be from orderly and locked at all times except when student is in laborator.

Work slowly and corofully read arrays and retard such appoint har one on to the solidage which you have so kindly loaned to me for stody. You

isk have a number of species with which I have not been familiar and isk questions wholever have a specially to the roll upon your salf. The Instructor of the learn such is the country of the work for you.

If I can find time to do this same thing For a considerable number of herbaria I ought eventually to know the 250 odd species fairly well.

Two of your specimens are being returned without amnotation because I cannot recognize them and they are not complete enough to run through the keys.

Again appreciating your kindness, I remain

Sincerely yours,

Ray C. Friesner

RCF:meb

# UNITED STATES DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

San Antonio, Texas

Box 199

April 26, 1940

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

Dear Professor Friesner,

Your specimens of <u>Solidago</u> sent to me in December, 1938 have not been forgotten. However, collecting during the past two years has been almost useless due to the extreme drouth throughout this part of the country. This year we have had rains, and plants are making fine growth. I have as a result done considerable collecting of spring flora and will shortly send you a set of plantspecimens.

As I am considerably better informed on Texas plants now than at the time of our previous correspondence, perhaps the delay has been advantageous.

Most of my collecting is done in the company of Mr. H.B. Perks who is an outstanding Texas Botanist and Apicultural authority, all specimens sent to you will automativally be verified by him.

I trust that this delay has caused you no inconvenience.

Sincerely yours, Muldwarpladesk Mildred M. Pladeck PLANTS PRESENTED TO THE BOTANICAL GARDEN OF BUTLER UNIVERSITY BY THE PARK DEPARTMENT OF THE CITY OF INDIANAPOLIS April 27, 1940.

Species	number	total book value
Alnus glutinosa	1	2.00
Celastris scandens	5	3.75
Eucommia ulmoides	1	4.00
Liquidambar Styraciflua	2	7.00
Magnolia soulangeana	1	5.00
Pseudotsuga mucronata	2	16.00
		\$37.75

Dr. Friesner,

A letter of appreciation should be sent to Andrew Miller, Supt. Riverside Nursery, for these many valuable plants.

Scott

The book volue of the Eagle cleek misery Rothros 37,50 making a total chafor Mest Mirginia University

MORGANTOWN, W. VA.

DEPARTMENT OF BOTANY AND ZOOLOGY

April 30, 1940

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

Dear Dr. Friesner:

The specimens of <u>Solidago</u> have been received in good condition and I certainly want to thank you for the very careful manner in which you studied the material and for the very neat annotations. Needless to say, our material representing the genus is now infinitely more valuable to us and upon the publication of your paper will be even more so.

Thanking you once again, I remain,

Very sincerely yours,

Earl L. Core

Curator of the Herbarium

ELC/eab

may 1, 1940

Mr. Freston Smith Osborne Sotanical Laboratory Yale University New Eaven, Conn.

Dear Mr. Smith:

We have at last found time to assemble the data on pollen counts which you asked for recently. We are enclosing copies for each bog.

If there is any other may in which we can be of service to you we shall be glad to be informed.

Sincerely yours,

Ray, C. Friesner

RCF:meb

Dr. Arthur Sandler, M.D. 2700 Devon Street Chicago, Illinois Doar Dr. Sandler: I am forwarding to you under separate cover a few herbarium specimens of species requested in your recent letter. This is all we have on hand at present but we will be on the look-out for additional species for you. Sincorely yours, Eny C. Friesner RCF:meb

Hunt Institute for Botanical Documentation

Middletown, Indiana May 3, 1940

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

Dear Dr. Friesner:

I am planning to attend Butler University for both terms this summer. The work that I would like to take, and which I feel will help me most at the present time in my work, only makes eight hours.

My classes will be from 7:30 to 11:30. I would like very much to take the course S302 - Trees. I took the General Botany course the first semester this year under Mrs. Esten and I understand at that time others were taking this one hour course outside, and did not have to attend regular classes, but did the work outside.

Would it be possible for me to take this course in a similar way, along with the rest of my work this summer?

Thank you.

Very truly yours, Ruly Mc Leorge

Hunt Institute for Botanical Documentation

Osborn Botanical Laboratory, Yale University, New Haven, Connecticut. May 3, 1940.

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

Dear Dr. Friesner:

The pollen analyses of lake Cicott, Fox Frairie, and Cranberry bogs arrived today, and are very interesting, as all of the Indiana records are. I am glad to hear that you have four more bogs ready to publish. A paper of mine will be out in the August American Journal of Science, I believe, and you shall have copies as soon as I receive them.

I am especially interested in the larch counts from the Indiana bogs. I am wondering if there is not something in the ground water throughout your region that causes larch pollen to be preserved.

Thank you again for the very neatly typed and interesting records.

Bleston Smith.

Dr. Eldred Fladock U.S. Soil Conservation Service San Antonio, Texas Donr Hins Pladock: The matter of exchange of plant specimens has caused us no inconvenience at all. We regularly have about a year's work in mounting ahead so that our mounters have been kept busy hust the same. I shall be glad to receive your specimens whenever it is convenient for you to send them and I am looking forward with eagerness for the species of Solidage you may be able to include. If you should have any use for the general run of Indiana species, I shall be glad to send a representative get to you at any time. Sincerely yours, Ray C. Frispner

Hunt Institute for Botanical Documentation

May 6, 1940

Wiss Ruby McGeorge Widdletown, Indiana

Dear Miss McGeorge:

Your letter of the 3rd instant is at hand. Under our rules all work to receive credit must be done as a regular college class. In the case of some of our convess involving only laboratory work, the saterial is of such a nature that once it is obtained and brought into the laboratory the work-up can be done at the convenience of the student.

It would, however, be quite essential that all students be assembled for the field observations and gathering of material and homee all would need to be present during the first part of the period. It is quite possible that this time might be changed if it would be made to better fit the convenience of the class as a whole.

I suggest that you send me your complete schedule of classes and we will then be able to see just what we can do to fit the work into your needs.

In case the tree course cannot be so made to fit, we can fit the course in forms, \$393, into any schedule because the work is entirely individual.

Sincerely yours,

Ray C. Friesner

RCF unob

May 6, 1940 Mr. Preston Smith Osborne Botanicel Laboratory Yale University New Haven, Conn. Dear Mr. Smith: In discussing the matter of preservation of police of Larix with Dr. Potager it was made quite emphatic by him that he thinks it is largely a matter of technique. The alcohol method (Geisler Nothod, Butler Univ. Bot, Stud. 3:141-166, 1935) is so much more "gentle" in contrast to the "rough" treatment given by most methods that the Larix pollen netually present is revealed on the slides. When I consider the "rough" treatment given by so many inventigators I marvel that any pollen grains are left to epont. Sincerely yours, Bay C. Friegner Hunt Institute for Botanical Documentation

Mr. John S. Wright The Bli Lilly Company Indiana Dear Mr. Wright: I am emclosing the clipping from the Indianapolis Times to which I referred in out conversation of last Friday evening. With the coming of more sensonable weather we should find the beeches beginning to show growth in diameter soon. Today is regular observation day but the rain has so far kept me in. I hope to get out before the day is over, however. Sincerely yours, Ray 0' Friesner

Hunt Institute for Botanical Documentation

\*= neady - Sent

5 andler

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

### HAY FEVER FLORA

Couch Grass— agropyon refers
English Plantain Plantas danced
Rive Grass— Elypaus
Short Ragweed - amb arumasafols
Giant Ragweed - amb tripic a
Maple -Wheat Rve Barlev Oats Corn \* Alder Ash Aspen Sycamore -Common Mugwort - artemisia vulgaris Willow -Cottonwood Poblar -Dandelion Beech -\*Johnson Grass Sorghum hale pense Cypr ese-Tumbleweed amaranthus gracizans Gedar -\*Dactyles glomerata

# THE CHICAGO MEDICAL SCHOOL 710 SOUTH WOLCOTT AVENUE CHICAGO, ILLINOIS

Library

May sixth,

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

Dear Professor Friesner:

In the name of Doctor Sandler and the Trustees of the Chicago Medical School, we wish to thank you for your recent gift to the School thru Doctor Sandler's agency of the very interesting specimens you sent him. Doctor Sandler, in behalf of the school is making an extensive exhibit and research of the plants that are allergic to mankind in the middle west, especially in the regions of Illinois, Iowa, Indiana and Wisconsin.

Any additional specimens you may send, will you please send them directly to Doctor Sandler's personal address, as he does his work in his own laboratory.

With renewed thanks,

Mr. E. Campfell, Dr. Sandler.

Written by Miss M. E. Campbell, Librarian. JOHN S. WRIGHT 4411 Washington Boulevard Indianapolis, Ind.

May 9, 1940

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

Dear Dr. Friesner:

Thanks for losn of article TIME BELT KEEPS TAB ON TREES. I now have two copies, one of which I am sending MacDougal; your copy is returned herewith.

Some day when you go out for a reading let me know an hour or two in advance and I will go with you if possible.

JSW-M

John Allreght

To all Faculty Members Butler University

The local W. P. A. has asked dutler University to act as a member of an advisory council to join other universities and colleges of the state in an advisory capacity to advise the W. P. A. on its various research projects. The University has agreed to do so.

Furthermore, the officials of the W. P. A. have asked that members of our faculty suggest projects in which they are interested, of a general public interest, in which the W. P. A. might perticipate. Since Butler University is not a state supported institution, the University, or any department thereof, would have to act merely as a co-sponsor and secure the sponsorship of some tax supported institution such as the Indianapolis City Schools, the Department of Public Welfere, etc., in order to secure W. P. A. aid in carrying out the proposed project. Up to 80% of the cost of the project adopted would be borne by the W. P. A., the remaining cost to be borne by the co-sponsor or sponsoring institution.

The W. P. .. has given us the following information concerning all projects suggested by our faculty and participated in by the W. P. A.:

- A. In cases where a faculty member publishes a volume or treatise based upon data collected by W. P. ... personnel, the W. P. A. would have no claim on royalties received from such work.
- B. In nearly all . P. A. elerical projects, funds are expended for labor only. Forms, equipment, and materials are usually furnished by the sponsoring agency or the co-sponsor. Federal funds can be used for traveling and per dism expenses of supervisors of the V. P. A. project, provided the supervisor is one of the V. I. A. personnel.

The attached questionnaire can be used by faculty members who care to suggest a research project in which they would like to have the W. A. P. participate and furnish W. P. I. labor to not as enumerators, collectors of data, and tabulators. Each faculty member is urged to give careful consideration to the sponsoring institution to be suggested and to the fact that proposed projects must be of general public interest.

If you will return the questionnaire, filled out, to L. O. Ross, Gollege of Business Administration, it will be forwarded to the W. P. A. headquarters for consideration.

The Committee

A. R. Carlile

C. L. Clark

J. H. Pecling

J. E. Potzger

M. O. Ross, Chairman

May 11, 1940.

Dr. Friesner,

A letter of appreciation should be sent to the Hillsdale Landscape Company for this contribution which adds much to our Botanical Garden.

Scott

### PLANTS PRESENTED TO THE BOTANICAL GARDEN OF BUTLER UNIVERSITY May 11, 1940 BY THE HILLSDALE LANDSCAPE COMPANY.

Aquilegia alpina var. superba	Book value
Arabis alpina	.20
Astilbe amethyst	. 20
Buddleia Isle de France	775
Buddleia Fortuni	.75
Calycanthus floridus	.50
Cimicifuga racemosa	. 25
Clethra alnifolia	.50
Corylus Avellana fusco-rubra	4.00
Dicentra eximea	.50
Dicentra spectabilis	.50
Euphorbia epithymoides	.30
Helianthemum mutable	.25
Hydrangea paniculata grandiflora	.50
Muscari botyyoides	.25
Phlox subulata ( Blue Hills )	.20
Phlox subulata atropurpurea	.20
Primula (variety)	.20
Sophora japonica	1.75
Sorbus americana	1.50
Ulmus campestris	2,50
Viburnum dilatatum	.75
Viburnum nudum	1.00
T	otal \$17.75

Rokono. Ind. - Sat. - Moy 11,- 19 ko. 1812 No Purdum St. My Hor Dr. Friener! Only a postal Card. - Am Sinding you some things that Come to me- my name is in a Nature Directory My doughter is coming up next week. about Tues - + I plan to leturn to Tofogette about Wed - & Collect. - Muy only question is - Have you any plans to come up May 18 or May 25. Of course if you are coming & A. And -I'll be home sure, There are Great Days and I must + Count miss a single one. I may not come bock for Lofoyette Hunt Institute for Botanical Documentation

before Set or Sun A postal will do. I your date - that would berhops Plelp me - You gave one date June 22. 1940 - Your first 1939 date was here of think, you must not change any work or dates or places & suit ale-mon- 5kg. The only fact is -I want to fit into all your places as for as A. Ind. is a part of Your Dunner Collections - + then any place you want to go Dr. Potzeis Jeffersonia diphylla is dry ing nicely but slowly - Hove them out the Dun non - Been cloudy. Been Cleaning house + home for a week- except lost Sunday 3-4 hrs - 2-3 mi w. Peru + W. Brukes Hill - Herbalish Lezo Hunt Institute for Botanical Documentation

knest where gensen - Hydrostes Twin leaf + a lot 1 stuff - 3- 4 species - medicinal -I've not seen here. But we found nothing new - for the reason that he + other sang lunters have gatheres it all!! . Oh, these commercial hunters! - bod es quail killers -DO guit - Would be glad if you could postal cord me sod can get it by Med. Noon - Sorry & Lurry you. Should have written you somes - but I planned & fo, on Monday - of I used bus - + he book before Sat. Moy be you can use this Ad. I send you - Set Dr. Potzges see it. -HI Hod any 8 - I'd use it myself -Hunt Institute for Botanical Documentation

Parken this hurry-Am feeling fain- Well be out somewhere tomorrow Sun Best Wishes to you Ene P.S. Moybe gon told me Michile.

- Words day of your Raturdays

- I forget. Hunt Institute for Botanical Documentation



### INDIANAPOLIS INDIANA

PHONE - BROADWAY 3233

MAIN OFFICE AND NURSERY AT CASTLETON - BRANCH NURSERY AT E. 46th ST. AND ROAD 13

fifteenth

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

Dear Professor Friesner

Plans for the Fourth annual Rose Festival to be held June 3th are now being made.

Through careful planning, diligent work, and splendid cooperation among many groups and individuals, we have been successful in the past.

It is hoped that this year the event will be an even greater success of state-wide importance.

With this thought in mind, I want to take this opportunity of inviting you to the luncheon-meeting of the Committees to be held at the Athenseur, Mednesday, May 23nd, at noon-12:15.

I hope you will find it possible to attend this meeting and take port in the planning and committee work for the 1940 festival.

Sincerely yours,

aled Tunkinsky

AT't nh

P.S. Colored movie films taken at last years feetival are to be shown at wednesday moon meeting.

Hunt Institute for Botanical Documentation

Give notice to Collegian and send him a copy

Medellín Mayo 16 de 1940 Mr.Ray C.Friesner University of Butler

Muy apreciado Dr:

Sus interesantes publicaciones que se ha servido enviarme hace algunos días las he recibido oportunamente junto con su amable carta en la cual me comunica la aceptación que me hace del canje de plantas por publicaciones sobre botánica sudamericana.

Yo hubiera querido más bien ser el primero en eniviar a Ustedes plantas a fin de que allá, según el número enviado, me canjearan sus publicaciones de acuerdo con su propia apreciación; ya que ello no ha sido así, me he apresurado a responder a su amable envío de publicaciones con un centenar de plantas debidamente clasificadas, las que he podido por el momento tener a mano entre los duplicados que poseo. Ojalá les lleguen en buenas condiciones.

En estos días tengo varios trabajos entre manos que me impiden dedicarme por completo a la preparación de un nuevo envio; pero haré lo posible para despacharle otro paquete dentro de algunas semanas.

Mientras tanto, espero que ya hayan recibido el primero el cual fue despachado hace diez días por correo certificado.

En espera de sus gratas órdenes, quedo con todo respeto como su seguro y obsecuente servidor.

18x 15, 1940 Mr. Andrew Miller, Superintendent Indianapolis, Indiana Dear Mr. Miller: The Botany Department and the Administrative Officers of Butler University wish to take this opportunity to express to you their approciation for the fine lot of plants you have so kindly donated to the Botanical Gardens. It is our sincere hope that weemay be worthy of your confidence and that we may do all in our power to foster in the minds of citizons of Indianapolts a real understanding and appreciation of plants. Thanking you again for your kindness, I resain, NAME OF THE OWNER OF TAXABLE PARTY OF TAXABLE PARTY. Sincerely yours, Ray C. Friesner. . ... Read of the Botany Depart ont v receive a six NCV:meb a a receive six ele and leading on lightly A Real of the Control Hunt Institute for Botanical Documentation

The Hillsdale Landscape Co. Castleton; Indiana Pear Mr. Tuschinsky: The Botany Department off the Administrative Officers of Butler University wish to take this opportunity to express to you their appreciation for the fine lot of plants you have so kindly donated to the Botanical Cardens. It is our sincere hope that we may be worthy of your confidence and that we may do all in our power to foster in the minds of .-citizens of Indianapolis a real understanding and appreciation . of plants: Thanking you again for your kindness, I remain, Sincerely yours, Ray C. Friesner -Head of the Botany Department RCF1mob a realizable p designers, business to be painted, strate a potent a a waterwitch was after so telem north after an infigure a facety of CONTRACTOR OF THE PROPERTY OF Hunt Institute for Botanical Documentation

May 17, 1940 .

Mr. Alex Tuschineky
R.R. 13, Box 158
Indianapolis, Indiana

Dear Mr. Tuschinsky:

Your kind letter of invitation to participate in the work of the committee planning the annual rose featival is at hand. I am very corry that I shall not be able to attend this meeting because of my college work. To attend the meeting would necessitate missing my one o'clock class and this is hardly permissable at this time when we are so near the close of our year's work.

I appreciate your kindness and am sorry to miss this opportunity.

Sincerely yours,

May C. Friesner

RCF:meb

UNIVERSITY OF MICHIGAN

BIOLOGICAL STATION

ALFRED H. STOCKARD, DIRECTOR

May 18, 1940

ADDRESS, JUNE 15 TO SEPTEMBER I

Prof. Ray Friesner Butler University Indianapolis, Indiana

Dear Professor Friesner:

We should like to have the University Plumbing Shop here build a peat borer similar to the one you have. Would it be convenient for you to loan us your borer as a pattern for them to use in constructing one similar to it?

We shall be glad to pay the cost of transportation both ways if you would like to let us use it for this purpose.

Sincerely yours,

O. H. Stockar

A. H. Stockard, Director

9

May 21, 1940

Dr. A. H. Stochard, Director Biological Station University of Michigan Ann Arbor, Michigan

Dear Dr. Stockerd:

We are glad to loan you our peat borer for the purpose of having a duplicate made. We will not be needing it until about July 1, at which time Pr. Potsger of our staff good to Wisconsin for coas peat boring work for the remninder of the summer. We are sending the borer by express.

Sincerely yours.

Buy C. Pricemer

RCFrmeb

Mr. H. H. Moore 1041 Blue Avenue Donr Mr. Moore: Your letter of the 16th instant is at hand. It is kind of your to write to me in this regard and especially do I appreciate your kindness in telling me of your observations. Your method of recording the growth of these trees is unique and interesting even if cirple in operation. I appreciate the data and have filed it with my study material. In case I have an opportunity to make use of it in publication, I shall give you credit for it. I am sending you a copy of a short paper published from our laboratory several years ago on relation of tree-growth to rainfall. In this study we found that on land of high relief, i.e. very hilly, growth is proportional to the amount of rainfall furing the months of Jums, July and August. We will also have another paper which will appear in print accetime in June or July and I shall send you a copy. This latter paper is not based upon the apparatus referred to in the article which you saw because this apparetus has not been in use long enough for us to draw conclusions. In case you should run across any further newspaper references to our work, I should appreciate receiving a copy of the clipping. I congratulate you on your interest in this field and your foresight in beginning the observations solong ago. Sincerely yours, Ray C. Friemer Hunt Institute for Botanical Documentation Professor Ray C. Friesner Department of Botany Butler University Indianapolis, Indiana

#### Dear Professor Priesner:

I am sending to you, by prepaid express, the following herbarium material:

Hayden Orasses & sedges of Iowa (plants use waterfowl)	ful to
Fults Plants of Iowa	141
Goodman Plants of Oklahoma	30
Goodman, and Payson Flants of Luka Chukai Mts., Arizona	57
Total	263

I trust that you will find this desirable exchange material. We are very pleased with the material which you sent to us.

Assi tant Professor

GJO:W

May 23, 1940 Br. Charles M. Ek 1812 Purcham Street Kokomo, Indiana Door Hr. Eks. As you probably know, Dr. Potsger and I are planning an Ohio Myor trip for June 15 and 16. We are planning to leave here about 2:00 p.m. on the 16th and would be glad to have you come down and go with us. If you can make your way down to Indianapolis and back, Potzger and I will see to it that you have no We expect to return to Indianapolis Sunday evening. Mrs. Friesner and I will be glad to have you stay over Sunday night with us and then that would leave you free to do as you wished on Monday. We can put all of the plants, both yours and ours, on our drier here and then we will bring yours to you on the 22nd when we come up for our first northern trip. Sincerely yours, Bay C. Priesner RCF:mob Hunt Institute for Botanical Documentation

reached us in excellent time to look at every through the material I of the material. The sion to our herbarium and

Your package of herbarium specimens reached us in excellent condition yesterday. I have not had time to look at every specimen but as I looked at random through the material I

was impressed with the good quality of the material. The apocimons will make a valuable addition to our herbarium and we are grateful to you for them.

The number you have sent exceeds those we have sent to you by a little over a hundred specimens and we will be on the look-out for additional non-duplicating specimens for you during the present senson.

Thunking you again, I remain

Ir. George H. Goodman

Dear Dr. Coodman:

Sincorely yours,

Rey C. Friesner

ECFamel

UNTINGTON COLLEGE Fred A. Loew A.M.
Department of Biology
Director of
anic Garden and Arboretum Dr. Ray Friesner Indianafles Ind Dear Dr. Friesner: I have sent out about 200 fast card announcements of our Garden day for Friday June 7. Hope live will get some who are away from here to be able to attend this recosion I will also have the denner clicks announce the day and have it in mer If you have a great Swould like to break Lakers. get it so I can have your ficture. Let me know when you expect to get our Laker. here. We will have diesch of the when four get here, It you could get here early Enough in the forehold I would like to lake your over the arboretion before dinner it will frobable take any hour and a haf or so d would like to have you see our entire layout, will be looking for you. Bring dance and Jour very truly Low

Hunt Institute for Botanical Documentation

May 28, 1940 Mr. Kenneth P. Fry
Brendonwood indianapolis, Indiana Dear Mr. Fry:
Your request for an analysis of the peat of Bacon's Swamp, Indianapolis has been received. We have been working on the peat bogs of Indiana in the Botanical Laboratory of Butler University for the past ele or seven years and from our experience we have found that peat differs much more in physical character than it does in chemical composition: "all " - 1." The differences in physical character are due largely to two factors: (1) the character of the plant materials from which the peat is derived, and (2) the age and depth of the deposit. Differences in physical character will always be found within the same bog deposit at different always be round within the same bog deposit at different levels of desition. In this particular bog our studies have revealed the following composition from our deepest boring: 1. The topmost 7 feet is raw sphagnum peat, ite. a fine-grained peat derived largely from moss. 2. From the 7- to the 15-foot level is a coarser peat composed largely of decomposed sedges and other coarser plants.

3. From the 15- to the 22-foot level is a finely divided, much-decomposed sphagnum peat. Zone 3 had the same type of origin as zone l but the former is older and much more disintegrated. 4. From the 23- to the 32-foot level is a calcareous deposit known as marl. As to chemical composition? The dry peat is approximately 99% organic matter. Of this organic matter by far the greater percentage is carbohydrate materials which made up the structure of the plants from which the peat was derived. The small percentage of nitrogenous organic matter can be converted into "plant food" in the soil by soil bacteria but this is never an important value of any peat. The values of this type of peat are three: of some time of l. Its value as a mulch. This is the most important value and is greatly enhanced by the high water-holding capacity of peat. The set of the section of the section Hunt Institute for Botanical Documentation 2. As a fertilizer its decoposition yields humic acids which render insoluble rock constituents of the soil slowly soluble and hence make them available to plants as mineral "plant foods".

is made available to growing plants through the decomposing activity of soil bacteria.

There is probably very little real difference in peat from different parts of the world, at least in so far as the purposes to which it is usually put are concerned. The peat from our Indians bogs is essentially indistinguished able from peat from Canada or Europe.

Sincerely yours,

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A CONTRACTOR

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Professor of Botany Butler University

C. ANTO CLOSED OF ST.

as allowed the telephone and the second

AND DESCRIPTION OF THE PERSONS ASSESSED.

S. Freit

Stohomo Indiana mes Eve - 5-28-1940. 18/2 to Gurdin St. St. Roy C. France. My pry Sear Mof. Friesner: -Your very excellent letter came as I was getting ready to go to fafogette. - replied by Rord at me and expected Do answer you before this Such a fine generous offer was wholly unexpected. If Hosbien Carefully thought oner. Of course at once accepted your plan and offportunity to see the I port of Indiana, entirely new territory of feel very highly honored by this great kindules. Then when I reflect - with whom I um foing - the honor increases. - Went to tofogethe Fri May 24. Worked S. E. Lofogette that evening - Their -Sat. - 25th went S. W. along Wabash RP Hunt Institute for Botanical Documentation

then w. + ww. m v. side of Dix Mede Creek. It was sprinkling when I began - 9.45 and in an ter or so - feet were just and by 12- wet to knees - At 1.45 finally went to a form house und Called Jois-doughte, who came out + yot me. Thought of might have 2 - 4 new mes - for I gathere their hurrielly - but before I fest at 4.15 PM - doubter th. - 4 70 I forma no new species. On Fire 730 pm. heard an erosion lecture + picture by by + mis Forderuntk - wither 26,000 mi trip thru Europe - Africa - Asia - 15 month trip My god, only the tr. is a poor speaker - the For Came up May 15. - and I spent a good student. Thus. - Fri Sat. - in fall - N. - + S. W. Sofoyette. Results good - About 11 species - new time of append the list, with fever Comments than in the account I sent Dearn I troba Coroliniana - Hundant -2 Androsoce occidentalis ... growing with 16! Hunt Institute for Botanical Documentation

3 Philip bilita - Scattering several dry hillseles 4 Euphor ia Tithywalies ) for flores - shades 5 Archarile patula. - dry soil - big fratches, 6 Synthyris Bullin - 1 patel top of steep best lind - the scarcest of new plants - with exception of Trillians. 7 Chelidan im majus abundant m several low moist places. 8 Joshia incisa (Sintermedia) glandular -Subsecut - abundant in many places a Cheirinia Mpanda (Er yourum) (ne sotch - old Cornfield - fallow ground 10 Myosotis virginians-immature-passely. 11. Trillium erectum - (? 1 Mo descriptions - B.D. gray - exactly fits it - Both meld revision Keys deeptive - Redunde was 9 cm, long, stern 48 Cru. tall: sepals 3 Cm long petals white 35 mm, long num log-te-ie-filament 2 m long-stigmas 29 Some new Corex - but too immature - Its siely to fool with " unless ripe - mature, - 1 Collected + bressel a lot of others - in hope of a lew new Countr Meords Oplenty of Lithospermum linearifolium Hunt Institute for Botanical Documentation

and L. Carolineuse. - Very showy - I wo. wer port of this area lost hive 5 - and who they were so abundant tost this ys - + nine last you is odd - Also why I deduct Lind 1-2-3-5-7-8-tho 1+2 were out of flaver. . I simply couldn't have missed all of these Do conspicuous + Do abundant - There are problems in ecology. Letter from Dealin - Moy 15. - Flora provised in June. - sptiel in local Pribune raid May 27 - Which I think is an error, or Dean told of his trips in S. And - will He "By Foby" - Kriebel, Patyres - Friener. Forgette re of in bed 2 days . + west weak by a week -Thing that took me of ain to tofogette was - in search of Astrofalus termissanis Dean had told of a pockofe of plants collected 40 Just of the skecimen of above legume; - buyells found by Herman, at Wash De. - Plant was found below boats of Like Mea Creek-but - I failed to find it. - I flow to continue " " where I left off in the rain; - 40 yrs is a long time. - No loult gone.

Hunt Institute for Botanical Documentation

From Ex 28-X-40 Please make some sort 1 most - somewhere. I went to Main St. Christian Church loss Sunday - I evelore propries - Really listoged the entire service - Dr. Robinson is a food thinker and talker. I vill comment on the occasion when I see you - Eary to see that he is a prest President, - a real leader - an Inspiration to faculty and students alike - a fine Cooperative spirit. -a ferrine mixer-and truly interested in youth - parents, teachers, public got there 20-25 mines larly - + talked with Ava Evermann, an authority on birds The park or Mother tod recently passed away: I had not heard it. Since it is more than 2 weeks until June 14. - I will write you later about What to bring along - Caris - press . - "Mone" Ex doughter Lois Bermett, + - ) are in agreement that I should return Jun we is night if convenient. - yet that item will solve itself easily- not now - but then -You can then tell me where to meet

Hunt Institute for Botanical Documentation

and I will tell you when the bus cones in. I am very much elated over this Journey - so old & you we seam and new to me - + the prospects of seeing so much seenery and linding new species; also hoppy that the Flora will be out in June - so The Good alld Dock assures on the other hand was greatly disturbed mer Roosevelti "Chat." Sein. que 8-30-9-00 D.M. - Reolly a Nar-Cry- Had you the time I'd "legture" to you - but on our trip I want to talk + thigh - Science - T not destruction and Chaos. Will write you briefly first week - June, - Wonted to tell you about 2 trips to forgette - I my meeting or Robinson - who talk med some new method or machine you had of furtil ness week, -Nry Sweerely Yours. Charle M. Ek.

Hunt Institute for Botanical Documentation

Professor, Fred A. Loew Municipation College Buntington, Indiana Dear Professor Losw: I am sorry that I do not have a mat of myself. I called our publicity office and they informed me that it would cost about \$5.00 to have a plate from which mats could be made. I feel that I should not have one made until I can find time to secure a better picture than the one we now have on file and I cannot spare the time now. Hence, I guess we will have to let the picture go unless you can use a glossy print. I shall be glad to try to reach Huntington at any time you may disignate. If ten o'clock will be early enough you need not roply. 'It will morely be a matter of starting at the right tipe, I am plaining on spending tomorrow and Friday getting the talk in final shape and hope I can live up to the privilege you have given me. Sincerely yours, Bay C. Priesner HCF: mob Hunt Institute for Botanical Documentation

May 29, 1940

Fr. H. Taniel Colegio de San Jose Medellin, Colombia, S. A.

Dear Dr. Daniel:

Your shipment of herbarium specimens reached us in excellent candition today. We are very grateful to you for these fine specimens. They will make a very valuable addition to our herbarium since we have very little South American material.

It is an edgestional treat to see the South American representatives of some of our familiar species and genera such as:

Osmanda repairs, O. Ministrationes, Lycopodium, Asplenium and others.

We shall be glad to send you some North American specimens at any time if you should care to receive them.

Sincerely yours,

Ray C. Friesner

RCF tmeb

INDIANA UNIVERSITY

BLOOMINGTON, INDIANA

DEPARTMENT OF GEOLOGY AND GEOGRAPHY

May 28, 1940

Professor Ray C. Friesner Butler University Indianapolis, Indiana

Returned 9-6-40

Dear Dr. Friesner:

Herewith are several chapters of the Climate of Indiana which, I hope will interest you sufficiently to lead you to read them and make suggestions for their further improvement. The chapters which I had in mind when I asked you to read them were those on climate, weather and crop yields. Those chapters have been critically read so far only by Dr. Rose. I hope to get suggestions from others later, but you are the only one so far who has agreed to criticise them for me. Write your criticisms on the margin or between the lines or on slips of paper just as is most convenient. If other comments already are present, initial yours.

The other chapters sent herewith have been read by two or three critics but that by no means will prevent you from making helpful suggestions about them. I hope you will do so freely. The preface will be altered to include you among those who have assisted.

There are hundreds of illustrations which of course will increase the effectiveness of the text.

All of the chapters except II and VI are entirely or practically completed. Most of the work has been done on II and VI.

I shall be sincerely grateful for your assistance with these chapters, and with any others which you will be willing to read. Make any and all sorts of suggestions. Although I try hard, I know I am subject to all sorts of inadequacies and imperfections and hence will take in good spirit any suggestion which you make.

I leave here June 4th to return about September 4. Kindly return the package to Owen Hall, Indiana University by express (collect) by Sentember 5.

Enclosed are a few reprints which may interest you. Hoping that you will have a good number, and that this additional work will prove to be not onerous, I am,

Stephen S. Visher

Cordially yours

Hunt Institute for Botanical Documentation

## UNIVERSITY OF MICHIGAN BIOLOGICAL STATION

ANN ARBOR, MICHIGAN

ALFRED H. STOCKARD, DIRECTOR

June 4, 1940

ADDRESS, JUNE 15 TO SEPTEMBER I CHEBOYGAN, MICHIGAN

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

Dear Prof. Friesner:

The peet borer was received last week and is now being used as a pattern in the construction of a similar one for the Biological Station. I want to take this opportunity to thank you for loaning it to us. I will return it in a few days.

Sincerely yours,

3

Kokomo. Ind. Guts. June 4-1940. 1812 No. Purdum sx My Glas Jactors Fresuer 1 and Potyger: got bus schedules us tour gesterdor. Bus arrives in Juliongolis 41-10, 1220 215 m. I could get there 12,20" + get aff and meet not at Bus Station 2.15 and However Il blow all & your plans the least possible. and if you give mother directions-both my caris to the might answer. I alway

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like to get plenty of fresh specimens of moistened - they keep for days - for purposes of study + description - fine identification - st - Will try and think I everything - I forget nothing - the I usually Do not wait in me - my health is quite uniform - ho good any time. - but usually equal to a day or tur & Nother strenuous efforts . - Like most hope who can never tire at ball-playing but complain terrible when mother wants 5 minutes work done, - I fright myrell the field for 4-6-7 his - but in the garden for thouse-cleaning - an his is a week long! In fright, floor excitement, the adrenol glands come & the resene and so in my (our) field tramps: kun - but don't want - te - I'll

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do my hest & 3 fit exactly in Jour schedyles -Jus levres 5, 45 930 1100. Sanday I am presuming that your plans are pretty well completed But I want to be as little expense to war as possible, -I hen we think of the battlefield refigers. - people of Europe and all their indescribable horrors in siffering - Me tes - Can Jurdy suffer some inconvenience that we enjoy in our homes And so I am anticipating. a very pleasurable - profitable.

time - wite me - a postal will do

I think - telling me where - + when

& neet you - and if augthing special to fring along. lot of Carey. - for Dr. Potyger. about he care the pure them - Boing out ofain Med. - and get some more. Let it not be said of Butles as of Juliand - that their quaternever heard of a sidge... hell be seeing fon Frida, - Frine 14-1960 Afair Schauk you for Ollyan Kindness, ... Sincerely your Charle. M. Et

**Hunt Institute for Botanical Documentation** 



## MARYLAND ACADEMY OF SCIENCES

2724 NORTH CHARLES STREET BALTIMORE, MD.

June 7, 1940

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THE MAYOR OF BALTIMORE HOWARD W. JACKSON (ex officio) Proffessor Ray C.Freisner, Dept.Botany, Butler University, Indianapolis,Ind.

Dear Prof.Friesner:

Please accept my apologies for not replying to your kind letter of March I4,I940. This matter was mishandled and accounts for t the negligence. I most certainly appreciate your offer to work up a list of your botanical publications and also to have made some pictures of your botanical laboratories, but feel that this would involve too much of your time, etc. From the catalog of publications I had hoped to draw some material for use in my laboratory in work involving plant physiology and anatomy. As for the pictures, I thought it might be possible to add to collection of laboratory history. However, I am most grateful to you. May I suggest that should such material become available in the future, will you condider my request if agreeable to you.

Thanking you again and hoping to hear from you, I am,

Sincerely yours,

R. J. Hampton.

HH/RTH. Plant Physiology Lab't. June 12th 1940.

Prof.Ray C.Friesner, Indianapolis, Ind.

Dear Prof. Friesner:

I have been working for several years to secure, so near as possible, a full line of the plants included in Britton and Brown.

If you wish to exchange specimens I can send you a list of my still desired numbers. In return I can offer you specimens from nearly any part of the United States west of the Miss.River, Hawaii, Nodiak Island, Sweden, France, Holland, Poland and Switzerland. I have Solidago from the Black Hills, Colorado and the plains states.

Yours truly,

H. Hapeman.

June 14, 1940

Dr. B. A. Krukoff How York Botanical Garden Bronx Park How York City, New York

Dear Dr. Krokoff:

We are sending you under separate cover a package containing some material of Amsonia tabernaemontanum salicifolia (Purch) Moodson. I hope we have collected the naterial and prepared it in a way that will make it usuable for you.

Sincerely yours,

May C. Pricener

RCF : Hob

June 14, 1940 ALERIA ADERTATES OF Dr. H. Hapeman 225 Brown Avenue Minden, Nebraska Dear Dr. Hapeman: Your letter regarding exchange of plants is at hand. I recall with satisfaction the fine specimens you sent us a number of years ago. I shall be glad to send you anything we can got that fulfills your needs. In case I can secure sufficient species for you to make a return from you justifiable, I would prefer specimens of Solidago first and Black Hills plants second. Sincerely yours, Ray C. Friesner ECF:meb Hunt Institute for Botanical Documentation

June 17, 1940 Kenses State College was in these me affects and files and a little Manhattan, Kansas Dear Dr. Gates: Please accept my sincere thanks for the copy of "Flora of Kancas." It is a nonumental piece of work and taxonomists and plant geographers will certainly welcome it. The maps certainly give a picture of distribution that words would be hard to convey. The ecologist will also welcome the work on "life forms". I congratulate both you and your state in this fine piece of work. Sincerely yours, sample both - - - Roy C. Friesner - Bushing the ROF and a comment of the state to I would william to talk their partition of the first all their and their June 17th 1940.

Prof.Ray C.Friesner, Indianapolis, Ind.

Dear Prof. Friesner:

Inclosed is a list of my desiderata from the

Britton & Brown Flora. Any specimens which you may send me from this list I shall repay, two for one, of Solidago or Black Hills specimens.

Yours truly,

H. Hapeman.

## 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

DIRECTOR WILLIAM J. ROBBINS TREASURER ARTHUR M. ANDERSON

June 17, 1940

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

Dear Dr. Friesner: --

You will be interested to hear that some progress is being made on our new project with plants that may have an insecticidal value. The newly standardized tests on insects, as they are now carried on at Rutgers, look fine. It took several months of solid work for entomologists to develop these tests.

Some interesting results were obtained recently with certain spp. of Helenium. In this connection we would be pleased to hear from you whether or not you are in a position to send us a sample (or samples), approximately 1 lb. or more each (dried), of Helenium spp. that are found conveniently near Indianapolis (not Helenium autumnale, H. Hoopesii or H. nudiflorum, inasmuch as we are in a position to obtain them from elsewhere). We would like to have, if possible, the upper parts of plants with mature flower-heads, as they appear to be especially potent.

A set of Puerto Rican plants is now being prepared for you and I hope to send it by the end of this month.

The identification of my Bolivian collection is being carried on, and Dr. Smith tells me that sets will likely be ready for distribution by the end of October. The collection proved to contain novelties - some 20 species have so far been described as new.

Under a separate cover I am sending you a reprint on Erythrina alkaloids.

Sincerely yours,

BAK/JD

B. A. Krukoff

P.S.

Your letter of June 14 just arrived, also the package with Amsonia. We appreciate your sending this material to us.

Helenium tennifolium

B. A. K.

pasture 0.7 mi n. Bicknell

Pyrethrum Hytox Red arrow

1320

**Hunt Institute for Botanical Documentation** 

June 20, 1940

Dr. B. A. Krukoff
New York Botanical Carden
Broux Park
New York, N. Y.

Dear Dr. Krukoff:

I am glad to know that your efforts regarding insecticidal properties of certain plants is yielding satisfactory results. In regard to material of Helemium: we have three species in Indiana, vis. H. autumale, H. mudiflorum, and H. tennifolium. H. tennifolium grows in abundance in know county which is in the southwestern corner of the state. I find that we collected material in flower from there on September S, 1935. Dr. Potsger and I were plauning a trip into south central Indiana for the first week in September so that we can easily swing over to the southwest on our way back and get this species in case it will be of value to you.

We very greatly appreciate you generous attitude toward our herbarium and will be more than glad to get your specimens as you may be able to send them. I am still picking up material of a nonduplicating nature for you and will have another consignment of specimens to send at the close of the present collecting season.

I hope you will not hesitate to let me know if there are any other species fo plants we can supply for your insecticide work.

Sincerely yours,

June 20, 1940

Dr. H. Hapeman Minden, Mebraska

Dear Dr. Haperian:

Your list of botanical specimens desired came yesterday. I have gone over it carefully and have found very few species that grow in our region. I have made a list of these in my want book which goes with me into the field and will pick then up as rapidly as we run across them. I ambreturning your list thinking that you might care to send it to other collectors.

I shall keep the plants until the end of the season or at least until I have gottem all that we can get from our area this year.

Sincerely yours,

## 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

DIRECTOR WILLIAM J. ROBBINS TREASURER ARTHUR M. ANDERSON

June 24, 1940

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

Dear Dr. Friesner:

We are much interested to hear (your letter of June 20) that you are planning a trip into south central Indiana (early in September) and that it will be possible for you to make an attempt to collect a sample of Helenium tenuifolium.

I hesitate to ask you for H. autumnale and H. nudiflorum inasmuch as it may happen that we will receive them from elsewhere. However, if you should see these plants on your collecting trip please remember us as we certainly would be interested in having extra samples. Furthermore, the content of active principles in plants of the same species might conceivably vary considerably from different regions. The "sneezeweeds" appear to deserve careful attention in connection with their possible insecticidal value.

Very truly yours,

B. A. Krukoff

Bak/Jd

Trout Lake, Tis.
June 30,1940

Dear Ray:

Since Dr. Julay is much interested in the collection of plants from this region, I must take three specimens of each species. I had taken only 50 blotars and corrugated sheets, and that will hardly be sufficient with an extensive collection, I wonder if you could have Mr. Palmer pack about 50 more of the driers into a box and send them to me, ask Miss McConaha to give you the postage from the money I left with her. I could also use some lens paper.

You might tell Miss McConaha that the tripod lenses for the class in Nature Study are in the pasteboard box in the corner of the desk against the east wall, it is standing on some of the lecture note books.

Pincerely,

John

Aumm r address:

Twout Lake Post Office, Vilas County, Wisconsin o/O Biological Station

> Trout Take, Vilss County, Tisconsin June 30,1940

Dear Ray:

Here we are in the Land of Lakes. We had a wonderful trip without any mishap. Spent the night at Beloit and reached the station on Saturday about 2 P.M. It is a most wonderful place located on the shore of grout Lake in a grove of giant Norway Pine. I have spent some time collecting, no one has made a collection of the plants bout the lake and Dr. Juday seems quite anxious to have a collection made. So that will be one of my sidelines. He also showed me tow areas of about 200 acres of virgin timber, partly northern hardwoods and partly pine. It should be an interesting ecological study both for each forest type and for comparison of the two types.

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