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

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

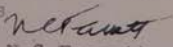
Capitol, Maine

July 1, 1940

Dear Dr. Friesner,

I do not recollect any *Solidago erecta* in Wisconsin, but am in Maine for the summer so I cannot check it. I am forwarding your inquiry to my student, Mr. Shimmers, who has worked over our *Compositae*. He is in the field for the summer, but will be returning occasionally to Madison.

Yours


N.C. Fassett

UNIVERSITY OF CALIFORNIA

DEPARTMENT OF BOTANY
BERKELEY, CALIFORNIA

July 2, 1940

Dr. Ray C. Friesner
Butler University
Indianapolis, Indiana

Dear Dr. Friesner:

We are sending you a shipment of plants, by prepaid express, in continuation of exchange between our institutions. They include material of the following categories:

Univ. Calif. Exsiccatae	67
H. E. Parks, Northwestern California	72
V. E. Long, Grasses of California	16
Miscellaneous	11
1938 distribution	<u>46</u>
Total	212

We trust that you will find the specimens satisfactory in every way, and hope that some things may be of especial value to your collections.

Sincerely,

Lincoln Constance
Lincoln Constance
Asst. Curator of the Herbarium

LC/bm

Stream John
[Potzgar]

Trout Lake, Wisconsin

July 5, 1940

Dear Ray:

Thank you for sending the blotters and the lamps so promptly, I certainly can use them to good advantage for evening work. In fact, it was impossible to do any pollen work even in the day time. Well, there was an abundance of preliminary work to do anyway. I have bored four bogs in the neighborhood of Trout Lake, bored sixty feet of bogs by myself one day. Of course, it is much easier to bore bogs here in Wisconsin than in Indiana. In the first place they are all shallow, none deeper than 26 feet so far, and I have an idea that this will be a common depth for the deep ones. We have decided to make an preliminary pollen count of bogs along different shores of the lake to see if the vegetation on any one side will influence the pollen count. However, the forest primeval might have been very similar on all shores.

Besides the boring of bogs I have made a survey of one of the original forest stands on the shore of Trout Lake. It is a beautiful stand of pine, all old fellows, but human influence is too evident even here and so I could get only 20 quads in undisturbed areas. Ring counts of stumps showed Norway pine of 19 to 22 inches DBH to be about 135 years old. Dr. Juday took me to another piece of woods owned by the Dairymen's Country Club, and that is the most beautiful 160 acres I have ever seen, it is the real forest primeval and the beauty of it is that the area is about half in pine and half in northern hardwoods. Not a thing has been disturbed, not even fire-scars on the trunks. My aim is to take fifty quads in each type forest and make several line transects crosswise to show the transition from one into the other. I consider this a real opportunity to make a detailed study of the best stands of the Lake Forest which are perhaps in existence. Dr. Juday seems very favorable to the idea. The haphazard collections of the local flora has netted approximately 125 species to date, and the old lantern is doing fine work. Grasses, especially, yielded a fine return on rare species and new to me. There is only one thing wrong with such a place as this, problems stare one in the face all the time and only two months in which to tackle them.

The climate is ideal, and we look like Indians. We sleep in a spacious building equipped with double decker beds, and one of the young professor's wife does the cooking for ten of workers. Investigations are going on in chemistry of chlorophyll and anthocyanin, bacteriology, limnology, geology, fish culture, chemistry of water, aquatic vegetation, pollen study, and my own ecological pets on northern forests. Work begins at seven A.M. and you may work as long after that as the spirit

moves you.---Our meals are fine and the bathroom is the largest I have seen for a long time, but only cold, wavy water. Needless to say, this is a beautiful spot. Bogs, lakes at every turn of the eye; quaking mats, circular grassy mats with the fringes of forest in the back.

Tomorrow Dr. Juday will take me to a new location to show me another stand of fine timber and give me an opportunity to select a line along which I would like to make bog borings. My plan is to go west across the county, perhaps even farther. If I can get the help of the young fellow from Crawfordville who rode up here with me, we ought to be able to bore four in a day. The biggest problem will be the pollen count work, for the peat is very fibrous. The difference in age between our Indiana bogs and these up here is very apparent.

I will enclose the letter from the Harter people. I think they are very, very narrow minded and naive, and too dense to see that my plan would have meant the same in money to them and a saving on postage to many purchasers instead of one shipment to me. Well, next time, they can make their own arrangements too, it makes me angry to think the halfwits think I am trying to get a few cents out of the sales they make at Butler.

Had a letter from Just, he has been made acting head since the death of Father Werner and so is swamped more than ever. He paid Deane back a high compliment. He has accepted both of my papers for publication as soon as space permits. I will feel better when the Mackinac paper has appeared in print. The work of this summer should yield at least three or four papers, and let us hope that the pollen count will not be too much beset with difficulties.

In the hope that you will have a pleasant, cool summer,
I am,

Sincerely,

John [Potzger]

IRA W. CLOKEY
1635 LAUREL STREET
SOUTH PASADENA, CALIFORNIA

July 6, 1940.

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

I notice in the Taxonomix Index that you wish to make botanical exchanges. I would be glad to make such an arrangement with you.

For the last five years I have been making a botanical survey of the Charleston Mounyains in southern Nevada and have collected the plants for wide distribution, over 100 sets. At present I have ready sets of nearly 300 numbers with labels similar to the inclosed. A few unusual plants from outside the Charlestons are included. These sets include 18 isotypes, 18 species of cactus and many very rare things.

Very truly yours,

Ira W. Clokey

July 8, 1940

Dr. Friesner,

Since the Fourth of July affair at the Butler Bowl I have talked to a number of faculty members and also the President concerning the closing of the whole Butler wooded section to automobile traffic. They as well as the President are in favor of such a move and the President, in order to get the move started suggested that you write him making such recommendations as you thought best. I think that we should strike while the iron is hot.

I think that we should consider the following points:-

1. Construct a fence across the north end of the garden similar to that along the athletic field. Place a gate at the roadway and keep it locked except at special times. It is agreeable with the Water Company, since the fence would run to the canal bank.
2. Construct suitable gateways at the 49th Str. entrance, and the two entrances just north of the University.

The university grounds would then be closed to questionable characters.

The fishing along the canal on the University property could be controlled.

The University grounds would not be a race course.

The Botanical Garden could be better protected.

People could walk over the campus in comfort and in safety and really enjoy the beauty of the campus.



Assistant Curator of the Herbarium
University of California
Berkeley, California

Dear Dr. Coultaneous:

Your package of herbarium specimens came in excellent condition today. We are very glad to get them even though we probably have more plants from California than from any other state outside of Indiana. Should there be any specimens in your shipment duplicating what we already have from California we will be able to use them in furthering our exchanges with others.

According to my records your present shipment leaves us indebted to you to the extent of 115 specimens. At the close of the present collecting season I shall send you as many species as I can which do not duplicate those previously sent.

I had not realized that you had changed your location from Pullman. I wish you much satisfaction in your new field.

Sincerely yours,
Ray C. Dresser

1412 North Broadway Street
Milwaukee, Wisconsin
July 9, 1940

Dear Dr. Friesner,

Your letter of June 21 inquiring about the occurrence of *Solidago erecta* in Wisconsin reached Dr. Fassett in Maine, and has been referred to me.

There are no specimens in the Herbarium of the University of Wisconsin from either Wisconsin or Michigan labeled *Solidago erecta*. Two specimens in the Herbarium of the Milwaukee Public Museum so named are *S. sciaphila* and *S. speciosa*.

In neither herbarium have all the specimens been gone over carefully however, and northeastern Wisconsin and northern Michigan are not very well represented. I shall watch for your plant later this summer when I expect to be in that area. Would you be interested in exchanging a copy of your key to northeastern goldenrods for a few specimens from Wisconsin?

Very truly yours,

Lloyd H. Shinnars.
Lloyd H. Shinnars.

July 9, 1940

Dear President Robinson:

In the interest of the Botanical Garden and the Campus development I would like to recommend:

1. That a fence be constructed across the north end of the garden from the athletic field to the canal and that a gate be placed across the present road along the canal. We could thereby shut off the traffic which now uses this roadway as a thoroughfare making inspection of the garden such a dirty procedure because of dust blown from the road.

2. That all roadways through the Campus north of the roadways in front of Jordan Hall be closed to all except University traffic. This would permit the present roadways to be made into foot-paths instead of dusty, dirty roads. The campus would then be used more by students in safety and comfort and less by fishermen and undesirable outsiders.

Sincerely yours,

Ray C. Friesner

RCF:mb

July 11, 1940

Mr. Ira W. Clokey
1636 Laurel Street
South Pasadena, California

Dear Mr. Clokey:

Your letter regarding exchange of herbarium specimens is at hand. I shall be very glad to enter into exchange relations with you, especially for Nevada plants because we have very few from this state in our herbarium. I would not care particularly for California material because I have maintained exchange relations for five or six years with about 10 different collectors in California and now have a better representation of California plants than any other state outside of our own.

I am sending you a package containing 151 specimens and will send you another set of non-duplicating specimens as soon after the close of the present collecting season as we can get the labels typed.

I shall be glad if you can send me a full set of your plants and will promise to continue sending to you until I have sent an equal or greater number.

Sincerely yours,

Ray C. Friesner

RCP:mb

July 12, 1940

Mr. I. L. Miller
317 Fenway Building
Indianapolis, Indiana

Dear Mr. Miller:

Following are the names of 25 students whose work and ability lead us to believe that they would be capable of doing the type of work you need to have done in connection with the canning industry. Those marked * are graduates:

Beck, Mary Katherine, Bushington, Indiana
Carter, Forest Charles, 908 E. 49th Street, Indianapolis
Conway, Robert C., Mishawaka, Indiana
Hamp, Arthur Kosta, Kokomo, Indiana
Harmon, Robert Lee, 2850 E. New York St., Indianapolis
Hosier, Donald E., Logansport, Indiana
Main, Robert Ernest, 3702 Forest Manor, Indianapolis
Poe, Virginia Louise, 341 Barton, Indianapolis, Bel. 4206-R
Sanders, Anna Hazel, 260 Buckingham Dr., Indianapolis, Ha. 7037
Scanlon, Thomas J., 1440 N. Mount St., Indianapolis, Bel. 2386-R
Schofield, David Clyde, 2237 Carrollton, Indianapolis, Ha. 3970
Smith, Edelle, 5402 Kenwood Ave., Indianapolis, Br. 6570
Kimes, R. Claudene, 709 Day St. Apt. 9, Indianapolis, Br. 1864
*Harmon, Mathew H., 2850 E. New York St., Indianapolis
*Swickard, Dayton, 5242 Hardegen, Indianapolis
*Schilling, Jay Val, 1104 E. 35th Street, Indianapolis, RI. 2044
Baker, Nancy, Noblesville, Indiana
Bell, Dorothy, Lafayette, Indiana
Bible, Mrs. Martha, Remington, Indiana
Ernst, Janet M., 1406 King, Indianapolis
- Kenny, Florence G., 561 S. Central Court, Indianapolis, Ha. 2778-J.
- Morgan, Janet E., 4841 N. Capitol, Indianapolis, Br. 2634
- North, Elizabeth A., 5122 College, Indianapolis
- Shelton, Ruby M., 1035 W. 37th St., Indianapolis, Ha. 4349-J.
Young, Mildred Roberta, 1725 Buckle, Indianapolis, Re. 3277

I hope you will find suitable individuals from this list.

IRA W. CLOKEY
1635 LAUREL STREET
SOUTH PASADENA, CALIFORNIA

July 15, 1940.

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

Dear Dr. Friesner:

Your letter of the 11th. inst. and package of finely prepared specimens received today for which many thanks.

I did not count the specimens but found one, the label of which is inclosed, that had been destroyed by insects. The others had not been touched. I have accordingly entered this shipment as 150 specimens, which I trust will be satisfactory to you.

By parcel post I sent today one of the sets with 308 specimens which I hope will prove entirely satisfactory.

I notice by the wrapper that the University of California is one of the 10 exchanges you have had in California. Are the plants received today duplicates of those sent to that Institution?

Please consider it confidential as yet but my herbarium will eventually go to the University of California. Where duplicate exchanges are received one or the other passes it on. Where possible we would prefer receiving different material.

In the present set there are eight sheets from California. Six of these are borages determined by I. M. Johnston and two extremely rare plants. According to Cutler's recent monograph *Ephedra funera* is found in only six herbaria and *Gilmania* (*Phyllogonum*) *luteola* Cov. is even rarer.

If you desire them I could send you probably several hundred more plants from southern Nevada this coming fall to spring.

Very truly yours,

Ira W. Clokey

*Mostly duplicates
but futures will not be*

July 16, 1940

Dr. Lloyd H. Shinnars
1412 N. Broadway
Milwaukee, Wisconsin

Dear Dr. Shinnars:

Thank you very much for your information regarding Solidago
erecta. I would be very glad to exchange any plant materials
you might care for from our region in return for specimens of
Solidago from Wisconsin.

I am glad to send you a copy of my key.

Sincerely yours,

Ray C. Friesner

RCF:ab

July 19, 1940

Dear President Robinson:

In relation to the question of the advisability of operation the university greenhouse for the purpose of growing plants for ornamental use about the buildings, it is my opinion that the relatively small number of plants needed could be purchased through regular floral channels at a saving of 50 to 75 percent of the cost of operating the greenhouse.

It might be well for Mr. Hightower to make an inventory of the plants used this year to serve as a basis for ordering for next year and if the order were placed early enough commercial greenhouse operators would probably be glad to grow our needs to order.

In case the greenhouse is not sold or in case the pipes are not sold, we could use them in the botanical garden to good advantage.

Sincerely yours,

Ray C. Friesner

RCP:mb

July 22, 1940

Mr. I. W. Clokey
1635 Laurel Street
Pasadena, California

Dear Mr. Clokey:

Your shipment of herbarium specimens reached us Friday. I congratulate you on the excellency of the specimens. They will make a valuable addition to our herbarium.

You will find a considerable amount of duplication between the specimens sent to you and those sent to the University of California. I shall watch from now on and not duplicate the material further. This will, of course, make me slower in paying you for your specimens because I owe the University 119 specimens and owe you 158 which means that I must find 277 non-duplicating species. I have already sent the University 556 species, so you can see that this will slow me up.

I have a considerable number of specimens from other collectors which are duplicates so far as our herbarium is concerned. I could send you some of these from other eastern states if you care for them and if you think they might not duplicate species you may have received from other collectors.

I would be very glad to get additional species from Nevada, but I do not want to pile up such a bill that I cannot repay. This point becomes more important in view of the above relation between you and the University.

Sincerely yours,

Ray C. Friesner

P.S. The reprints you sent have just come. I am grateful to you for them.

IRA W. CLOKEY
1635 LAUREL STREET
SOUTH PASADENA, CALIFORNIA

July 27, 1940.

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

Dear Dr. Friesner:

As you suggest, sending plants received from others would probably or at least possibly be duplicates what what have already been received. *aa* I have been exchanging off and on for twenty five years and have about sixty exchanges there is a good chance of duplication. However I have never received plants from the Sand Dunes south of Lake Michigan.

If you have botanical publications of your own Institution or duplicate literature that I do not have I would be glad to receive such items in exchange for specimens. I have such an arrangement with many herbaria.

Very truly yours,

Ira W. Clokey

THE NEW YORK BOTANICAL GARDEN

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

PRESIDENT
JOSEPH R. SWAN

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

TREASURER
ARTHUR M. ANDERSON

DIRECTOR
WILLIAM J. ROBBINS

July 29, 1940

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

Dear Dr. Friesner:

This is just to let you know that the preliminary tests with Amsonia were very satisfactory. This plant will have to pass, however, two other types of tests before my chemical associates will consider it worthy of extensive chemical studies.

Helenium spp. are already considered for chemical studies, and we are now most anxious to obtain large samples of as many species as possible. We certainly hope that you will favor us with good sized samples of H. autumnale, nudiflorum, and tenuifolium.

Under a separate cover I am sending you eighty-one (81) specimens from Puerto Rico. Please accession these as a gift (not exchange). We greatly appreciate your kind assistance on our insecticidal problem.

Sincerely yours,

B. A. Kruckhoff
B. A. Kruckhoff

Bak/Jd

July 31, 1940

Dr. Ira W. Clokey
1635 Laurel Street
South Pasadena, California

Dear Dr. Clokey:

I have just returned from a trip to the sandregions of northwest Indiana, and I have secured a number of species for you. I am continuing to be on the lookout for species which do not duplicate either those sent to the University of California or to you. I will hold all specimens until the close of the collecting season.

A complete set of the Bultor University Botanical Studies is being mailed to you and your name has been added to our permanent mailing list. Volume 4 numbers 11-17 are in press and should be ready for mailing in September.

Sincerely yours,

Ray C. Friesner

RCF:mb

July 31, 1940

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

Dear Dr. Krukoff:

I appreciate very much the specimens which you are sending from Puerto Rico. I further appreciate the fact that they are coming as a gift rather than in exchange. I am perfectly willing to accept them in exchange. I have already quite a collection of the new species for you from this season's work. I will not send them however until the season is closed.

I am planning a trip to southwestern Indiana during the first week in September and during this trip I hope to be able to secure material of the three species of *Helenium* mentioned in your letter. I am pleased to be able to secure this material for you without regard to compensation by way of specimens. Please do not hesitate to make suggestions about material which may be available in our region.

Sincerely yours,

Ray C. Friesner

RCF:mb

IRA W. CLOKEY
1635 LAUREL STREET
SOUTH PASADENA, CALIFORNIA

Aug. 6, 1940.

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

Dear Dr. Friesner:

I very much appreciate the set of Butler University Botanical Studies and having my name on the mailing list. Several of the articles will be of special help at this time.

If you wish to exchange this for specimens kindly let me know the basis on which you wish to make the exchange. If not I will be able to send you sooner or later a couple of publications. This coming winter I hope to get out the results of ten years work in cyto-genetics at Cal Tech. This was carried on alone for about five years and then when I became absorbed in the Charlestons I took Dr. E. G. Anderson in with me so that it will be a joint paper. A Flora of the Charlestons will be issued sooner or later I hope in about two years as another spring will be spent there first.

In sending specimens to me it is not necessary to have all different species just different collections.

Again thanking you I am, Very truly yours,

Ira W. Clokey

Department of Natural Sciences
 San Jose State College
 San Jose, California

August 10, 1940.

Dr. Ray C. Friesner
 Butler University
 Indianapolis, Indiana

Dear Dr. Friesner:

You will perhaps be surprised to hear from me at this late date, as you may have given up hearing from me at all. Your last communication to me concerning the several species of oak acorns you so kindly sent me on an exchange basis was early in last November, I believe.

All of the acorns I planted of those that you sent gave a high percent of germination, and the resulting seedlings show mostly a vigorous growth since. *Quercus alba* seems somewhat less vigorous. Of course I did not plant any but the most select of the nuts. Of some species, a rather high percent were rather badly infested with insect grubs. However an ample and sufficient quantity of these remained for the purposes of my oak studies.

Yesterday I sent you a box containing the following species of California oaks, several of these include young fruits, others mature acorns, and some of these pressed and dried twig-and-leaf specimens have such variation as to make it necessary to include two or three twigs or to duplicate the specimen.

<i>Quercus agrifolia</i>	---#-48,274,277,278,531
<i>Quercus chrysolepis</i>	----51,89,266
<i>Quercus douglasii</i>	-----13,71,105,270,271
<i>Quercus dumosa</i>	-----93,95,230,232,251, 255,280
<i>Quercus durata</i>	-----38,122
<i>Quercus engelmannii</i>	----279,282
<i>Quercus garryana</i>	-----411,435,439
<i>Quercus kelloggii</i>	-----80,148,220
<i>Quercus lobata</i>	-----78,104,202
<i>Quercus morehus</i>	-----185,203
<i>Quercus palmeri</i>	-----368
<i>Quercus pricei</i>	-----151
<i>Quercus sadleriana</i>	-----441
<i>Quercus vaccinifolia</i>	---10,217
<i>Quercus wislizeni</i>	-----132,134,208,212

The above is a complete list of the tree species of our mainland. Two insular species, *Quercus Macdonaldi* and *Quercus tomentella*, found on Santa Catalina and other

Pacific Ocean islands, 20 to 60 miles off shore, I am unable to send at the present time, having so little material in my herbarium. If I can send same at some later date I shall do so. If, after looking over this material, you should find that you want more of any particular species, please do request same.

For most of the specimens, I have included in separate packages, mature acorns. Those of *Quercus palmeri* and *Quercus engelmannii* have been difficult for me to obtain, as they are found in the far southern part of the State.

The identification labels are each placed with the individual specimens, and for those numbered 230 and higher, they are very complete with information collected at the time the tree specimen was gathered, invaluable to me of course for the purposes of my study. Being available I included ^{some} for you and hope that some of it may at least prove interesting. The labels and the specimens are purposely left loose in their folders to permit any possible arrangement that you may wish.

In closing may I say that the main reason I have not written long before is that I have been very seriously ill for nearly six months this last winter and spring and have only recently this summer been able to concentrate on selection of material and copying of labels. Hope that the material arrives all O.K. Thank you again for the ample supplies of acorns that you sent me.

Sincerely yours,

Allen M. Jacobs,
Assistant Professor

SOUTHERN BRANCH
UNIVERSITY OF IDAHO
POCATELLO

Aug 21, 1940.

Prof. Ray C. Friesner
Butler University
Indianapolis, Indiana

Dear Prof. Friesner:-

Your letter of July 10 came on time, but I have been away collecting all summer.

I will be glad to exchange plants with you, but since I have chiefly in mind working out the flora of Idaho, I am ~~not~~ not collecting in large numbers. I am already exchanging with men of our surrounding states, and am anxious to keep these up, because of their direct help on my problem. It may be best to wait until I get my material distributed that I now owe, then I will send what I can to you.

I appreciate this offer of yours, but I do not want to take on more than I can keep up each year.

Sincerely yours,
Ray J. Davis

Kokomo, Indiana, August ^{dom Ek} 27-80.
1812 No. Purdue St.

My Dear Dr. Friesner:

I wish now I had asked you to postal me if and when you went to Maine - so I could have written this long ago. For I will not get paid what I had in mind 2-3 weeks ago.

I was quite busy in early August. True to schedule I went to Lafayette July 29 - and on July 30 - Tues. - went into White - Puloski - Jasper Co. - Then Wed. - Thurs. went S.W. Lafayette 4-5 miles - Each of the 3 days were successful - So with your last trip July 27 - I was busy for some time.

This July 27 netted the most new (to me) species so far. - the day the Miss, Evans + McCoy were along.

New species were: 1 *Linum medium* var. *texanum*. 2 *Physalis virginiana* - as Dr. Davis's new arrangement 3 *Aureolaria pedicularia* var. *ambigua*. (7)

4. *Commelina angustifolia* 5. *Panicum*
pseudopubescens 5. *Eleocharis tenuis*
 var. *verrucosa*. 6. *Juncus balticus* var.
littoralis f. *dissectiflorus* 7. *Cladium*
mariscoides 8. *Hieracium Gronovii*
 only 1-2 poor specimens - as on July 30 - also
 9. *Calamovilfa longifolia* 10. *Ranunculus*
pennsylvanicus - only 1 plant in the big
 open ditch N. of open woods - (snake) *Wishia*
pedata - 12. *Arenaria cylindrica* 13 -
Hypericum gentianoides.

On July 30 - went N. for Lafayette with
 Drs. Cummins + Mott + an assistant Mr.
 Smith - Cummins knows the flora much
 better than he had impressed me. - He is the
~~Arthur~~ Arthur man - working in Rusts
 All were fine scouts. Tho they do not know
 the flora as do you - Dean - Potyger, McCoy.
 We had a fine day + got along great - all very
 modest, sociable, open-minded. New species
 were: 1. *Polygonum Coregi* 2. *Cyperus*
dentatus 3. *Cuscuta pentagona* (?) + *Hyper-*
icum adpressum (?) No specimen of ..

Thought I got it in field + "~~there~~ wore out
those in Can. - so failed to press it. 4

Psoralea psoraloides - In S. Ind. also 5.
Panicum implicatum - 6 Also *P. spretum*.

Dr. Potyzer can check these - I put ~~enough~~
work on them to be OK. --- 7. *Lyris*

torta, 8 *Stachys byssopifolia* 9 *Bulbostylis*
Capillaris var. *crebra* (New name - *Flora*)

10. *Senecio vulgaris* - now *S. glutinosa* - I
planted tree - Sent specimen to Deam - who
remembered the place; had camped near the
place where there is a grove of *Betula*.

papyrifera = 11, 12 = *Stachys*

(*Blephariglossa*) *ciliaris* - a very pretty
orchid - orange - + not abundant. You do not
seem to have it - (No B in N.W. Counties) Now

Comes the strangest in my 13. *Sabatia*
Campanulata var. *gracilis* - Deam had it
only from Louisa Co. - It is showy - pretty

+ attractive. - + in this station not so scarce!
My puzzle to Deam was - how did he, you,
+ others miss it - when you, he, &c. have
found so many tiny, inconspicuous, scarce
plants? Dr. Cummins made it S.

brachiata - It all keyed on branches
opposite - or alternate (See Flora). I sent
Dean All my specimens - There were 3-4
plants with a pair of opposite tiny branches at
top - But it is *Sabatia Campanulata* var.
gracilis. - Dean said to refer *Cuminum* to
Rhodora 39; 443-44, 1937 - Fernald. - From
the quotations he sent, it fits the species
better than the variety - for some of the petals
are 2 cm. long. He concludes "the find is
a good one and an important one." (Dean.)

July 31, started on Nabash R.R., - 1st.
Road - N. of Big Bear Creek, walked nearly a mile
to creek. About half-way to bridge made
an exceedingly valuable discovery. There is
a good-sized cut here + on east side the
cut is wide; evidently a lot of dirt taken to
fill the high embankment N. of Creek. Here
was a new member of *Cairot* Family - 1.
Spermalepis patens - dead - in fruit,
shattering - flowering about June. Quite
abundant. See Flora. P. 1078. Dean sent
specimens of both to Gray herb. Trust I'll be
alive and able to get a lot of it in flower in
1941. - Always something to live for.

Probably same hill Dean found it, was
patiently awaiting my arrival. - 2. *Houstonia*
angustifolia. Then two new members
of Mustards. 3. *Arabis glabra* and 4. *A.*
Canadensis - each not abundant. Then
like all others, on dry bluff, was 5. Mint -
Pycnanthemum pilosum - one small
station. Very interesting was 6. *Osmorhiza*
hispidissimum - rightly named; - gigantic
plants, - 8-10 stout stems from root - 4' tall.
Only 3-4 plants. 7. Fern, in deep ravine,
Asplenium platyneuron, also got
Marrubium vulgare, *Camnabis sativa*
3 places - few. - *Oenothera lacinata* - in
a field, fine specimens, *Scutellaria*
ovata, 2 plants in an old cemetery dating
1829. - *Acerates viridiflora* - 100 on.

Finally - despite heat, made my
Lake Cicatt. journey - too long a day
- never before did I so appreciate your
kindness coming to my door AM & PM.
Bus leaves station 7 - gets there about 9 -
Leaves about 5.45 - ~~and~~ and I didn't
get home until 8.40 - 11 - - - 8 hrs.

in field. At ⁶ that had a good day.
Got off about $1\frac{1}{4}$ - $1\frac{1}{2}$ mi. E. of Lake -
went N. of Road into marsh - etc. - Gresh.
- wandered around east & back to Road -
& back west along R.R. - & 2-3 woods - etc. on
south. My new species (to me) were:
1. *Aureolaria flava* - in flower, dry
sandy hillside - good Colony. 2. *Brouneria*
purpurea - about out to flower - along R.R.
- scattering. 3. *Hypericum majus* - in
Lake Cicott - very dry soil, chaffy, now - wet
~~earlier~~. Was in flower July 12 - when Dr.
Dean & I were there. - I may be in error -
but couldn't make it otherwise. 4. New
division of *Lycopodium* - *L. americanus* var.
foezii - also new division of *Eupatorium*
5. - *E. fistulosum* and *E. flumbri-stylis*
autumnalis var. *micromulata*. - Collected
heavily for Dr. Potyger. - a good stock.
Practically all my collections this day - you
- (on maps) had best see to them - My
first "Real for sure", *Helianthus giganteus*.
Plenty of *Solidago juncea* - *Rudbeckia subtomentosa*

H. strumosus, *J. Scirpus* *Pynthia*, var.
setosus, *Cyperus flavescens* - *Rhynchospora*
macrostachya - + others.
 Liberated quantities of list 3, collected for
 class use.

Have made only local trips since
 Aug. 16 - Would like to make 2 more
 distant trips - Goldsmith R.R. - and
 Lake Cicott - start $1\frac{1}{2}$ mi. E. - + go
 east. - Looking over last years
 trips note that we went North twice
 in Sept, 1939 - Hope 1940 is just as
 lucky a year.

About 2 weeks ago - had several
 days of very dizzy spells. There was
 4-5 days I could not have gone
 on a long trip - i.e. and did any good.

Am subnormal yet, - but getting
 better. Hope to be OK - for my Sept. trips.
 Forgot to say that dunes of L. Cicott were
 burned over - to water on N. side of west
 dune - between the dunes - and to west
 along Road + far into dried-up part of road.

Also R.E. was badly burned in places.
The sand dunes were a sickly sight.
The dried-up lake will recover, but
hills will not. - O I fear. Only place
I ever found *Polygonum tenue*.

I do not know or remember which
grades Mrs. Nieper teaches. - I have
2 new books by my friend Ross
F. Lockridge, that I hope she can
use. - "A Lincoln" and "Marquette".

He was State Supervisor in 1936.
When I was in Federal Writers' Project
we went thru I. U. together. ^{total} Cost was 2.75.
Also some other botany books. I feel
I'll not use any more. - - -

I am assuming that no P. Ind.
trip will be taken. I doubt if my
present condition would justify the
expenses necessary. However I anx-
iously await any trips with you
make. - Found *Mentha longifolia* var
molissima in R.E. 9 mi. E. Sept 5. new to me.
With Very Best Wishes - Most Sincerely
Chas. M. Ed. &

Kokomo, Ind. Tuesday Night
1812 North Burdum St.

Dear Dr. Friesner: -

Your card rec'd today. - Many
Thanks for your kindness. A
4-page letter from Dr. Deam came
Monday morn. - in which he
says I am to be his guest. -
So this means I'll get 6 meals
a day - ! - Deam plans to be
there full time. Kriebel is to
drive him around after he
gets there. - I plan to collect as
much as possible - early & late -
also to meet as many as convenient
but not stress the social factor -
- much as I'd like to - for you know
I'm a pretty windy guy.

I went to woods today, & got back
in time to mail package of samples

which you should receive Wed.

I jotted down a few names
of specimens we collected - Gee -
that was a good day - my too short.
Sorry we found neither of those I
found July 30 - 1940 when with Dr.
Cummings at last Classic stop - I
refer to *Habenaria ciliaris* - large
orange - yellow flowers and *Sabatia*
campanulata - both probably gone.

That was *Eudragia alternifolia* -
quite abundant in open place just N. of
where we dinnered - new for Pulaski Co.
That abundant grass - the open - same
field was *Panicum agrostoides* - also
a smaller " was " *spectrum*. That
P. in the sand near our dinner - table.
I got to be *P. implicatum* - The *Lycopus*
was probably *L. sessilifolius* - That
Veronica scutellata was grand - - -
Going over to Jasper Co. - (which

I'd like to see again! ³) that *Cyperus*
 I had "guessed" right - *C. dentatus*
 collected 7-30-40. You made a good
 guess at the *Scleria* - only it happened
 to be *Scleria reticularis* - one similar
 to *S. setacea*. - *S. setacea* is found
 in same station & had we searched
 longer, might have found it. That
 Eleocharis was *E. melanocarpa* - with
 black achenes - easy to work. The
Hypericum I had last year
 guessed was *H. adpressum* but
 specimens were poor - Am sure it
 was *H. adpressum* - involute leaves or
 growing with that beautiful *Rhexia vir.*
 You know in *Panicum* Key one line
 is "spikelets warty" - the minute I
 looked at it I said - sure warty - ~~warty~~
 and so those deplorable specimens.
 and the finer ones in field - south
 of sandy road was *Panicum*

verrucosum⁴. - And they are
definitely - warty - no guessing.

That *Corydalis sempervirens* - was
great - ~~the only specimen~~ + out of
flower + fruit too. -

The greatest surprise was on
our first stop at Lake Cicott. I
was there exactly 1 yr. ago. - Aug 16. '40.
Over N. of dune, where I got my
Thimbristylis autumnalis. - Collected
a lot of plants. blue flowers. - I thought
it was *Campanula* or close to it. - Had
to use Deane's Key for Family. - first time
I had to ~~use~~ use a "Key". - It was
Sabatia angularis. - How did I
miss it in 1940. - - or was it there
- or am I cross - or forgetful - or what?
- so very conspicuous + fairly abundant
so that makes 10 new species that

from Elk 30-VIII-40

I know of ⁵ for August 16-1941,
That *Stachys hyssopifolia* - likewise
a Great Find.

Am glad I suggested that we
go N.W. again - tho the N.E.
has ~~yielded~~ yielded a lot of new
species.

If I don't make any
trip - like Lafayette - - - I may
go to woods again next week -
- I'll see. - I have 3-4 local trips
I must make - as Miller
+ Marvin boys - Tripton R.R. yards -
etc - - -

Late - - + I'll call it
a Day - + see you Early Am.
August 30. - Sincerely
C. L. - - - Elk.

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WILLIAM J. ROBBINS

September 3, 1940

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

Dear Dr. Friesner:

I am hoping that this letter will reach you before you leave for a trip to southwestern Indiana.

It now appears that there is another group of plants in which we are equally, if not more, interested in than the "Sneezeweeds." These are Solanum carolinense, Solanum elaeagnifolium, and possibly some of their immediate relatives. We have made a search for Solanum carolinense around New York. It is a very rare plant with us and we have succeeded in finding only two plants in New Jersey.

We would like to have if possible a pound (or more) sample of fruits, also two-three pound (or more) sample of the "whole plant" (herbage). The active principle we are interested in is lost upon drying. This complicates considerably the matter of shipping as the material will have to be shipped while green. From our previous experience we are inclined to believe that the samples would be kept well in a refrigerator under a temperature suitable for milk and vegetables. We think that the only solution would be to send the samples by air-express and, naturally, we would be only too pleased to reimburse you promptly for the expenditures. Anything you can do for us in connection with Solanum would be greatly appreciated.

My Bolivian sets are now ready for distribution and I expect to send you a set within a short time.

Sincerely yours,

B. A. Krukoff
B. A. Krukoff

Bak/Jd
Airmail

P.S. Under separate cover I am sending you three new reprints on Erythrina Alkaloids.

B. A. K.

NATIVE EVERGREENS

Alpines: Active or Dormant
Wild Flower and Tree Seeds
Native Bulbs - Ferns

1020 POPLAR STREET

MISSOULA, MONTANA

Sept. 4, 1940.

Northern Rocky Mountain
Native Plants Exclusively
Use More Natives

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

Dear Mr. Friesner:

I am not interested in building a herbarium except of Northern
Rocky Mt. Species of garden value.

Perhaps you have botanical publications that would be of interest
to me or perhaps the university here would like your specimens.
I won't get to do anything with my herbarium material until
next winter, but in the meantime would appreciate hearing from
you again.

Very truly yours,

Frank H. Rose
Frank H. Rose.

FER/mf

Dear Mr. Rose:

your letter of 9-4-40 is at hand.

We are sending under separate cover a copy of our last
issue of the Butler University Botanical Studies on the covers of
which are listed the previous titles. In case any of these
are of interest to you and are still available, we will be glad to
send them upon request. ~~We would be~~

We would be glad to send herbarium material in exchange for
Montana plants in case the University should care for them.

Sincerely yours

Send the BUBS

Hunt Institute for Botanical Documentation

September 6, 1940

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

Dear Dr. Krukoff:

Your letter of the third reached me this morning. I have already made the southern Indiana trip and have ready to send you Helenium nudiflorum, but I was able to get you only a few plants of H. tenuifolium. I have not yet collected any of H. autumnale but since it is so abundant in our region I should have no trouble getting it. I shall send you some of the first two plants mentioned today.

Solanum carolinense is a fairly common weed with us and I should be able to get material for you. We are tied up in our college registration just now but I shall make an attempt to get some for you. In your letter you did not say whether you wished the fruits green or ripe. I happen to know that the Eli Lilly Company uses a large amount of the green fruit, but they may not yield the substances you wish so I will try to get both the green and the ripe for you.

Sincerely yours,

Ray C. Fricaner

RCF:mb

September 6, 1940

Professor Allen W. Jacobs
San Jose State College
San Jose, California

Dear Mr. Jacobs:

Your letter and fine box of specimens awaited me upon my return from vacation. I am very greatly pleased to get these fine specimens. I had not thought anything in particular about the fact that I had not heard from you sooner because I know how busy teachers are and how little time they often get to do outside work.

Please accept my sincere thanks for this excellent material.

Sincerely yours,

September 6, 1940

Dr. B. A. Krukoff
New York Botanical Garden
Bronx Park (Fordham Post Office)
New York, New York

Dear Dr. Krukoff:

Your letter of the third reached me this morning. I have already made the southern Indiana trip and have ready to send you Helenium nudiflorum, but I was able to get you only a few plants of H. tenuifolium. I have not yet collected any of H. autumnale but since it is so abundant in our region I should have no trouble in getting it. I shall send you some of the first two plants mentioned today.

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September 6, 1940

Mr. Perry L. Clements
Cicero, Indiana

Dear Mr. Clements:

Upon my return from vacation I found your note regarding the findings of the well driller $4\frac{1}{2}$ miles east of Lebanon. Dr. Potzger and I would be very much interested and will be glad to come up to see you at any time that may be of convenience to you. If you will give us the directions as to how to find you we will appreciate it greatly.

Sincerely yours,

Ray C. Friesner
Professor of Botany

from Clements, Ray

Cicero Indiana
Sept. 7th 1940

Dr. Ray C. Friesner
Butler University
Indianapolis Indiana.

Dear Dr. Friesner:- I am greatly pleased with the interest and response expressed in your letter of the 3th and wish to assure you and Dr. Pötzer of my deep interest in this well-driller's findings.

Also, I extend to you my enthusiastic cooperation in any and all activities you may see fit to indulge in regarding this proposition.

Surely such an item should be thoroughly investigated.

I am also writing to the well-driller, explaining your interest, and advising him that he may be called upon to take part in this affair, supposing it will help to have him give exact location, information as to occupant of farm, whether he be owner or tenant; and also explain nature of strata to be encountered in reaching deposit; especially should there be knowledge of any stratum of rock, if such exists between the top-soil and deposit.

That you may have access to the driller I am writing his name, address and phone

number on enclosed card.

The last time I contacted Mr. Krier was Aug 24th, just past;— he had just returned from the north-west, where he has lived and has Kinfolk, he had an excellent specimen of petrified wood, (it showed a knot) from the Bad Lands.

You see, therefore, that hearty cooperation from Mr. Krier may be anticipated by you and Dr. Patzer, as the above is an index into his attitude in the matter.

Time is the essence of the contract that is ~~at~~ occupying my attention just now, but expect to have the work turned over to the contracting parties before coming week is out;— and expect to have heard from Mr. Krier by that time but with the well-drillers address you may start your investigation without delay if you so desire, but do not misunderstand me;

I assure you I am willing to do any thing and every thing I can, to help bring to light all that is possible as to the contents and nature of the desposit. Thanking you

Very Sincerely

Ray P. Clements

The Cicero road from Noblesville
is Peru St. in Cicero, on which we
live, in the north part of town; -
pass stop sign, watch on left or
west side of street until you
see three tall evergreens, two
northern fir, one southern
pine, little white house under
these trees, that is the place.

phone 29
Cicero

Ray Clements

Dear Dr.- Would like to know
if you or your dept would be
interested in the findings of
a well-driller, $4\frac{1}{2}$ miles east of
Lebanon Ind.- a lake of
animal flesh was encounte-
ered, 50 ft down and was 20 ft in
depth, it pumped up like
butter milk, when washed
showed flesh, - some wood

with it, and of course a good
of odor with it.

If not interested, kindly
explain, either to me or pass
it on to proper party.

Thanking you

Ray P Clements
Cicero Ind.

Clements
6-18-40

Mr. Rudolph Krier
Well Driller
2006 West Green St

Phone 2190

Frankfort
Indiana

Uniform Express Receipt

AIR EXPRESS

NON-NEGOTIABLE



DIVISION

RAILWAY EXPRESS

AGENCY, INC.

AES 1E (10-26)
(Printed in U.S.A.)
AIRYX — is a code word meaning ship by Air
Express — division Railway Express Agency

To Destination Office <i>New York NY</i>		Via First Airport <i>New York NY</i>	
Consignment <i>Lb. Burkoff</i>	Receipt Number 7-83-43	Enter Date Shipped <i>9-2-43</i>	Class <i>1</i>
Shipper Address <i>Bruny Park</i>	Declared Value <i>\$50.00</i>	AIR CHARGES	RAIL CHARGES
From (1039-D) Indianapolis, Ind.	Via First Airport	Air Value Charge	Value Charge To Airport
From <i>Box</i>	Article <i>Box</i>	Nature of Contents	Actual Weight <i>8 1/2</i>
Destination	Diminished Weight	Total	246
Shipper <i>Butler Mining</i>	Class <i>1</i>	Full Rate	C. O. D.
Address of Shipper or Actual Point of Origin 1	SHIPPER'S RECEIPT Prepaid Air Express		C. O. D. Service Charge
		Total	246

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.

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

ATTENTION OF SHIPPER

The terms and conditions of the air express receipt under which this shipment is accepted are printed on the back hereof.

For the Company

Number Pieces

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TREASURER
ARTHUR M. ANDERSON

September 9, 1940

Dr. Ray C. Friesner
Butler University
Indianapolis
Indiana

Dear Dr. Friesner:

This will acknowledge the receipt of the samples of Helenium nudiflorum and H. tenuifolium mentioned in your letter of September sixth. These reached us in good condition.

We are particularly interested in having fresh samples of fruits (both green and ripe) of Solanum carolinense.

Please accept our thanks for your kind cooperation in this matter.

I am sending you ninety-five (95) specimens of my Bolivian collection under separate cover.

Very truly yours,

B. A. Kruckoff
B. A. Kruckoff

Bak/Jd

P.S.

Since writing the above the package with Solanum carolinense has been received.

September 9, 1940

Dear Dr. Krukoff:

Saturday afternoon I sent you via air express a package containing some green fruits and vegetative parts of Solanum carolinense. In case the amount sent was insufficient or did not come thru in proper condition, I shall be glad to try again. I can get you almost any amount of the Solanum you may wish. Ripe fruits are not yet available but I shall be glad to send them to you when available, in case you care for them.

The material of Helenium nudiflorum is available in large quantities about 25 miles south of Indianapolis and so this also can be secure in additional amounts without much trouble, in case you need more of it.

I have also collected material of Helenium autumnale and will send it within a few days, that is as soon as it is properly dried.

I get a real satisfaction in being able to secure this material for you and hope you will not hesitate to let me know when there are other species you think I might be able to get within a hundred miles or so of Indianapolis.

Sincerely yours,

Ray C. Friesner

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ARTHUR M. ANDERSON

DIRECTOR
WILLIAM J. ROBBINS

September 10, 1940

Dr. Ray C. Friesner
Butler University
Indianapolis, Indiana

Dear Dr. Friesner:

Acknowledgement is made of the receipt of your letter of September 9th. The sample of Solanum carolinense reached us yesterday and it is already in hands of Dr. Walti at Rahway. In due time I will let you know the results. He is after an enzyme (or enzymes) which is (are) found in certain spp. of Ficus, Carica, etc. Inasmuch as fruits of Solanum carolinense are reported to be used in the South to "curdle milk", the plant is of considerable interest to us. We will be looking forward to the receipt of a sample of ripe fruits of Solanum carolinense.

no || In connection with our enzyme problem we are also interested in Galium verum. The plant is used in Europe for the same purpose as Solanum carolinense in the South. Please let me know whether or not this introduced weed is found near Indianapolis.

We will be pleased to receive Helenium autumnale. Please do not make an attempt to obtain additional material of H. nudiflorum as your recent sample is ample and quite sufficient for our purposes.

I trust by this time you have received my Bolivian plants. Brazilian and Puerto Rican plants are now under identification and I will keep duplicate sets of these two collections for you. They will probably be distributed late in 1940.

Sincerely yours,

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

Bak/Jd

Have not come

September 10, 1940

Mr. Ray P. Clements
Cicero, Indiana

Dear Mr. Clements:

Your letter of the 7th instant is at hand and appreciated greatly for the details and interest you have shown. Our regular autumn field work is such that we cannot get around to giving attention to this problem until after the middle of October. We will contact you again as soon as we can assign a definite day to devote to this work and try to arrange a Saturday which will be convenient for both you and Mr. Krier.

We are writing Mr. Krier expressing our interest in the problem and the hope that we may be able to meet him for discussion of the data. I hope we may be able to find a Saturday, sometime after the middle of October, that will be suitable for both Mr. Krier and you to accompany us to the location.

Sincerely yours,

Ray C. Friesner

RCF:mb

September 10, 1940

Mr. Frank H. Rose
1020 Poplar Street
Missoula, Montana

Dear Mr. Rose:

Your letter of September 4, 1940, is at hand. We are sending under separate cover a copy of our last issue of the Butler University Botanical Studies on the covers of which are listed the previous titles. In case any of these are of interest to you and are still available, we will be glad to send them upon request.

We would be glad to send herbarium material in exchange for Montana plants in case the University should care for them.

Sincerely yours,

Ray C. Friesner

RCF:mb

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TREASURER
ARTHUR M. ANDERSON

DIRECTOR
WILLIAM J. ROBBINS

September 13, 1940

Dr. Ray C. Friesner
Butler University
Indianapolis, Indiana

Dear Dr. Friesner:

Acknowledgement is herewith made of
the receipt of the sample of Helenium autumnale. Please
accept our thanks for sending this to us.

Very truly yours,

B. A. Krukoff
B. A. Krukoff

/JD

SYNOPSIS FOR PRINTING

Make an outline of a synopsis on this
Why are the plants in the collection of plants
Description of plants in the collection of plants
Distribution of plants in the collection of plants
September 13, 1940
Dear Dr. Krakoff:
I have your letter of September 10 at hand. So far as I know
Galium verum does not occur anywhere in Indiana. In case
I run across it as an escape I will be very glad to send you
samples.
I will send you the ripe fruits of Solanum carolinense as
soon as they are available. I take it that by sending them
by ordinary express or parcel post they will get to you in
proper condition.
Your shipment of Bolivian plants has not yet arrived but I
suppose will be coming most any day. I appreciate greatly
the specimens you are sending.

Sincerely yours,

Ray C. Friesner
m

RCF:mob

September 14, 1940

Dear Dr. Krukoff:

We ran into this material of Galium verum
to day on the edge of the golf course at Kokomo Indiana and
so I secure it for you. In case this is not enough, let me
know and will send more.

Sincerely yours,

C. Summary of the Order Bryales.

The three mosses shows the highest development & the greatest specialization in all the bryophytes. The plants live under various conditions in many different kinds of habitats. The sporophyte stage is also highly developed & fairly elaborate & complex as to structure.

The gametophytic phase in the mosses is that second in the life history which is characterized by the production of structures having the haploid number of chromosomes in the nuclei of the cells. The haploid condition develops as the result of the fertilization of the egg resulting in the development of the zygote or fertilized egg with the diploid number of chromosomes.

D. Alternation of Generation.

In plants the term generation is sometimes applied to only a certain portion of the complete life history. All plants with sexual reproduction show these two different phases of existence which appear to alternate more or less with one another.

C

September 16, 1940

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

Dear Dr. Krukoff:

Your shipment of Bolivian plants came in today. While I have not had time to unpack them, they appear to be in excellent condition.

Saturday we chanced to run across a colony of Galium verum, apparently these were an escape, for they were growing in an isolated corner of the Country Club Golf Course at Kokomo, Indiana. A package of these was sent you by air express last Saturday night. In case the shipment was insufficient for your needs we will send you more.

Sincerely yours,

Ray C. Friesner

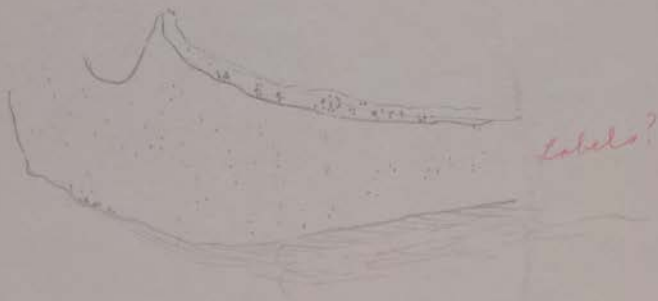
RCF:mb

Rhizoids (detail)

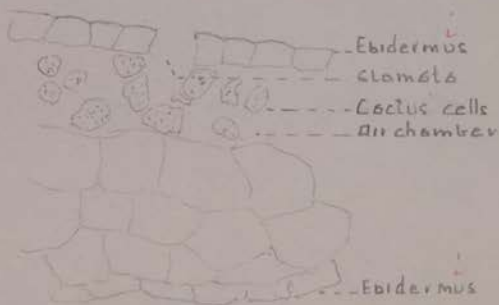


Vertical section (rhallus)

Dot Line



Vertical section detail



September 16, 1940

Professor Wayne Palmer
Route 3
Knox, Indiana

Dear Professor Palmer:

Dr. Potzger informs me that are interested in doing some work in my course in ferns. Since that work is all individual, I could permit you to take it at any time you may care to do the work. The main thing would be to find the time when we could get together to start it. My chief difficulty is that I am in the field every Saturday. It may be that I may have some additional requests in which case I would try to find a Saturday when all interested could come. I would not be able to spare a Saturday before the middle of October. Would it be satisfactory with you to wait until October, 19? If so I would plan a short trip near Indianapolis for that day in which case I could spare the forenoon to get you and any others who may be interested started. In case you are in Indianapolis again before October 19, you may register for Botany ES71, either 1 or 2 hours credit, but if you should not be here before that date, you may wait to register until then. If this meets with your approval, will you let me know at your convenience so I can take care of others on the same day.

Sincerely yours,

Ray C. Friesner

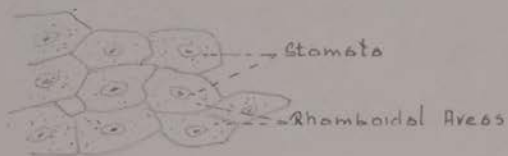
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Class 1 Hebertiaceae - Liverworts.

Habit sketch



Dorsal surface



Ventral surface



Lund den 17 september 1940

Dear Sir

We would be very grateful if you would send us at least some of the plants intended for exchange. The only way for sending parcel post goes over Sibiria. It would possibly be the best to send only few plants each time as you cant be quite sure they will reach us. We are going to send you our new catalog of exchange material as soon as it will be complete, most likely in december.

Very truly yours,

Elsa Nyholm
Elsa Nyholm.

THE NEW YORK BOTANICAL GARDEN

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NEW YORK, N. Y.

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JOSEPH R. SWAN

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ARTHUR M. ANDERSON

DIRECTOR
WILLIAM J. ROBBINS

September 17, 1940

Dr. Ray C. Friesner
Butler University
Indianapolis, Indiana

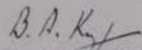
Dear Dr. Friesner:

I am just in receipt of a long distance telephone call from Dr. Walti who has been working on your sample of Solanum carolinense. He states that green fruits contain the proteolytic enzyme he is after, also that green (not completely ripe) fruits of S. elaeagnifolium are more "potent" than those of S. carolinense, and much more so than those of certain other species. In this connection he would like very much to have one pound (or more) of fruits of Solanum carolinense.

We would greatly appreciate it if you would be good enough to make suitable arrangements for collecting the sample and shipping it to us by air express collect - this at any time before the seed season is over.

The one thing that bothers me in writing this request is that uptodate I have not received from you the bill for the air express charges for shipment of S. carolinense and Galium verum. I hope that my Bolivian and Puerto Rican specimens (these I expect to send to you shortly) will be found acceptable for your herbarium. Please accession these as a "gift", as we certainly appreciate your cooperation in our work on certain native plants from chemical angle.

Sincerely yours,


B. A. Krukoff

Bak/Jd
Airmail

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September 17, 1940

Dr. Ray C. Friesner
Butler University
Indianapolis, Indiana

Dear Dr. Friesner:

Acknowledgement is made of the receipt of your letter of September 13th. I trust that by this time you have received my Bolivian specimens which were sent to you a week ago.

We will be on the lookout for the ripe fruits of Solanum carolinense. It would be most satisfactory if they are sent to us by air express, collect.

Since writing the above the sample of Galium verum has reached me and I have reforwarded the package by express to Rahway for tests.

Kindly let me know the air express charges for packages of Solanum and Galium. We have a special appropriation for such charges and I would like to pay them.

It now appears that another batch of Puerto Rican plants will be ready for distribution within the next 2-3 weeks. One set, naturally, will be forwarded to you.

We certainly appreciate your sendings of Solanum and Galium.

Sincerely yours,

B. A. Krukoff

B. A. Krukoff

Bak/Jd

246
136
382

September 19, 1940

Dr. D. A. Kruckoff
New York Botanical Garden
Bronx Park (Fordham P. O.)
New York, New York

Dear Dr. Kruckoff:

Your letter of the 17th is at hand. You've probably already received my acknowledgement of my receipt of your Bolivian specimens. I will be glad to send you some more green fruits of Solanum carolinense within a few days and will send you ripe ones as soon as they are available. In the future I will send the material by express collect which will probably make it easier to handle.

Regarding the expense so far it has been \$3.82. The package of Solanum carolinense cost \$2.46 and that of Calium verum was \$1.36. I shall not worry particularly about this expense. Of course if you have special funds to cover this the return of it will enable me to use it for other purposes in the laboratory. If it is at all inconvenient for you I will charge it up against specimens for you.

I assure you that I am glad to send you all the materials I am able to send you.

Sincerely yours,

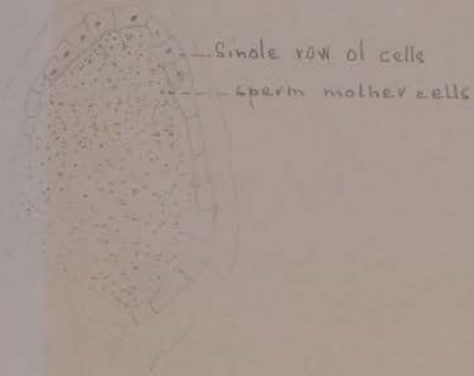
Ray C. Friesner

RCF:mb

Male disc Vertical



Antheridium (indetail)



Female thallus



September 23, 1940

Mr. M. Loevenberg
Liebknecht, 17
Kiev, U. S. S. R.

Dear Mr. Loevenberg:

We have received a number of your exchanges in recent days and appreciate them very much. We are expecting our Butler University Botanical Studies, Vol. 4, Numbers 11-17, to be ready to mail within a few days. These will go forward to you immediately when they are received from the printer. We hope that we will be able to keep up our exchanges.

Sincerely yours,

Ray C. Friesner

RCF:mb

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September 25, 1940

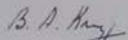
Dr. Ray C. Friesner
Butler University
Indianapolis, Indiana

Dear Dr. Friesner:

Acknowledgement is made of the receipt of your letter of September 19. We are pleased to hear that you plan to send us a sample of green and ripe fruits of Solanum carolinense, express collect. If this letter reaches you before you have mailed the samples please address the package to Dr. K. Folkers, Research Laboratories, Merck & Co. Inc., Rahway, New Jersey. We think this will save at least one day in transit, and the samples likely will reach the laboratory in better condition.

Enclosed please find my check for three dollars and eighty-two cents (\$3.82) to cover the expenses for the shipment of two previous samples.

Sincerely yours,



B. A. Kruckoff

BAK:JD
Enc. (Check)

September 27, 1940

Miss Edith C. Bicknell
Care of Richard Moody
Lincolnville Center, Maine

Dear Miss Bicknell:

It seems good to hear from you again. We were in Maine for only a ~~brief~~ period this summer but should have called anyway. I will send the two copies of the bird book under separate cover. I hope also to be able to send you within a few days the latest issue of our Botanical Studies which will contain the latest revision of my fern key.

I would be very much pleased to receive specimens of the plants mentioned in your letter, namely, Eranthis delphinifolius, Juniperus horizontalis, Chamaecyparis thyoides, and Lathyrus praetensis. I did not realize that Chamaecyparis ever got so far north and I am wondering whether it is really native there.

I am sorry that we did not reach Maine in time to attend the Josselyn meetings though we did get to attend those at the Knox Arboretum.

Sincerely yours,

Ray C. Friesner

RCF:mb

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September 30, 1940

Dr. Ray C. Friesner
Butler University
Indianapolis, Indiana

Dear Dr. Friesner:

Many thanks for the sample which reached us September 28. To save time I reforwarded the package to the laboratory for testing without examining the sample. We would now like to straighten out our records and in this connection would be pleased if you would tell us of what species the Solanum fruits that you sent to us are.

Sincerely yours,

B. A. Krukoff
B. A. Krukoff

Bak/Jd

Solanum carolinense

RECEIVED
September 30, 1940

Dr. D. A. Kruckoff
New York Botanical Garden
Bronx Park (Fordham P.O.)
New York, New York

Dear Dr. Krukoff:

Your letter of the 25th is at hand. The enclosed check failed to receive your signature and hence I am returning it to you.

Before your letter reached us we had already sent another pack-
age of green fruits of *Solanum carolinense*. This was sent by
C. M. Ek from Kokomo, Indiana. Mr. Ek is retired and accompanies
us on many of our collecting trips. He was glad to have the
opportunity to get this material for you. We ought within the
next week to be able to find ripe fruits. These we will send
direct to Dr. Folkers.

Sincerely yours,

Ray C. Friesner