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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.

Memo to Hermann

Fernald in Rhodora 38:414 describes a new var. of *Ostrya*. var. *lasia*.
Now all my specimens are at Ind. University but in my Trees of Ind. I
say the shoots are hairy at first becoming glabrous at maturity. Now I
would not have said that except I had examined all my specimens. Wonder
if Fernald could have made such a mistake.

STATE OF INDIANA
CONSERVATION DEPARTMENT
DEPARTMENT OF PUBLIC WORKS

Repl. 1/6/37

INDIANAPOLIS

Administrative Officer
V. M. Simmons

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Lieut.-Gov. Clifford Townsend
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Paul Fry
James D. Adams

Dec. 30 1936

Bluffton, Ind

Dear Hermann:--This is to inform you that your two letters with determinations received O.K. I will forward them to Mrs. Sat. I received a letter from her today. She is at home with her Father. He has had a very serious attack of heart trouble. He is doomed to early extinction. She wrote me last week she was down with a cold. I just finished the General Key today. I copied the Gray Manual Key verbatim except I made it conform to our flora. I used all their leads and it is practically all their key. My head does not function well enough and I do not have floor space enough to make a general key. A few years ago, I believe I might have done the job but not now. Well it is complementary to Gray but not to be that I must copy verbatim about 20 pages. Well I was "reared" on that key and I seemed to get by and I found no errors (not able to find them then) and I feel it is better to come out in the open and adopt it, rather than to paraphrase it, etc. I do not like skunks

As to Hypericum virginicum Fraseri, we have both in the northern tier of counties, i.e., both the typical and the var.

yes I also got the Paronychia fastigiata var. typica in Vermillion Co.

I do not know if I have reported C. retroflexa from Ind. or not. If I have it is stubbed on your map. All my maps are over to Lafayette. so I can not check it up.

Grassl's paper is O.K. and I wrote him a short letter congratulating him in raising the tin can botanist. I agreed with him on the parallel and longt. scheme but my scheme here in Ind. handles the problem very well. I told him in finishing that you had been in the field with me and could tell him my modus operandi, etc. At that time I had no idea who he was or what. Fact is I do not bother myself much about these fellows. I am slipping too fast to have my attention taken off the Flora.

Now about 4 years ago I sent to all botanical gardens, private collectors etc. and asked them to send me a few of their labels. My inquiry resulted in quite a flock of labels. If I now recall correctly E.D. Merrill of the N.Y. Garden at that time sent me both field and permanent labels and on them were latitude and longitude. I mounted one each of these labels on card

Board

size of herbarium sheet. Think I had four sheets and after I had used them in a talk at the Ind. Acad. Meet. I donated them to Ind. University. Last spring while there I wished for some reason to see them and at the moment they were not able to find them. That is the way a taxonomists material is handled by morphologists and cytologists. In track can or "stored" which is the gentleman's way for discarding them. Dam em. You know my label, I mean the one I use. You know "mothers cooking" is the best. After I had studied the lot I clung to my old label. In fact I like best a label with border around it, but it is impractical. A label only half used does not appeal to me. One would have to have 2-4 sizes of labels for each locality. In your study of my Carex you will see my evolution of labels. Have ever seen any of Baenitz's labels. Think he is a Bohemian or from that area. His labels are about 4 x 6 inches or larger. with a wide border on them. No room for a decent specimen. He must be a "cow botanist". If you are interested in this label business write Merrill for a set of his. I am glad to get the "low down" on this Grassl man. What nationality? Besides an egotist. Well I will remember him and if opportunity offers I will stick an aspirator in him and try to deflate him.

May I did not ask you to rob yourself of your Kewanee material. Throwing it into a rat hole at Ind. University as it now stands. May be there is a God in Israel yet. I think I had better go over my plants and list them and send you a list and let you check what you can use from it. Will have to go over them and correct some labels, such as Paronychia fastigiata, etc

Now as I have told you many times. I know nothing about Carex. That darn C. hirsuta complex always bothered me and I carried a key in the field with me to refresh my mind on them, I believe it is 3-4 closely allied species

I note the Driesback episode. Well all you can do is to saw wood. While you would like to blow up, it is the part of good judgment just to keep still. Give me all the low down you can, but be careful what you say to the guys up there. I want you to stick to Mich because I think there is a nice place to be. Good field for botany in due time and a big school. The "setting" is unfortunate. Say I got an invitation to attend the memorial meet. of Father Nieuwland Jan. 11, I believe, and Pro. Victorin is to give a talk on the disappearance of the flora of the N.E. United States. May be you can get him to stop off (What for). Well he is right now interested in botanical gardens. Write him. It will right on his road.

Well if I do not quit writing you so much, I will have to get out two editions a day. Sincerely yours, Chas. C. Peam, This is latest ed. 9/26/22

Robt. Davis

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Recd 12/26/36

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INDIANAPOLIS

Bluffton, Ind.
Dec. 21 1936

Administrative Officer
V. M. Simmons

Dear Hermann:- I have your letter of Dec. ~~19~~ 19. Glad to hear from you. Thanks for the determination slips. I received a letter from Mrs. Winch and she has been sick with a cold and plans to visit folks during the holidays so I do not expect her to do any work until next year.

Enclosed find counties to go with the names

Now as to *C. striatula* follow your own belief in the matter. It seems to me we now have too many *Carex*, especially when you change the names of *Mckenzie*. Now I wish to be fair with ^Mackenzie, but in all cases where I sent him a specimen it was a part of a large one that I divided so that there could be no trouble about the correct determination. Now I admit in some instances this would not be able to be done, but I do not believe I missed as many as you have changed names. Now if you and Mackenzie can not agree (I do mean to set either of you up on a pedital but when persons who have studied them as you folks have, what about the poor ignoramuses who have just begun or try for the first time to name *Carex* just as they would any other genus, etc. May be it can not be done. On many of my labels you will find I do not credit ^Mackenzie with the naming but in fact he either named every one or saw my specimens. At one time I took out every one he had not named for me and I sent him the mounted sheets and in a few cases you will find on the label ^Mackenzie's O.K.

Guess I got the *Nuphar* and *Nymphaea* mixed. *Nuphar* is conserved for yellow which leaves *Nymphaea* for the white lilies,

I am glad you read Kinsey's ideas of evolution. Kinsey is a go getter and an original thinker.

OVER

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"all I started yesterday to work up Rhodora. By the way I have only got to Hypericum petiolatum-virginicum. Fernald says Hypericum virginicum is divided into two things, north and south and that the south one is Coastal and inland to Ohio. Both forms occur in Ind., all over the northern part. See if the typical form does not occur in Mich. also. Fernald's provincialism is giving him a kick in the pants all the time. When will they ever learn at Gray that they do not have all the plants there are. Fernald has divided Cassia nictitans into vars. One var. has glabrous pod and is found only on a mountain in Ky. We have it in Ind. from Brown County

Now I guess this is all for this time. When you return the Hicks duplicate I will forward it to Hicks and ask him to pare it down and follow your suggestion to publish elsewhere first. I will not mention your name

I enclose the list of counties from Wisc. Return the list and oblige in some package

Sincerely yours, wishing you and family a happy Christmas and whole year of health so you can work your darn head off.

Chas. C. Dean,

Bluffton, Indiana.

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INDIANAPOLIS

Dec. 16 1936

Administrative Officer

V. M. Simmons

Dear Hermann: After mailing your letter it occurred to me to look and see if I had ever written Weatherby about it. During the progress of this book, I have written Weatherby 41 letters and my assist. has indexed all my inquiries so I can instantly refer to the item. I find that on Apr. 6 1933 I asked Nymphozanthus or Nuphar. Answer. "Nupahr proposed for conservation, , , , word I can not make out appropriated for printing the new rules was, I understand, deposited in a bank which failed; but the British hope to get them out before long. Doubtless I accepted this but why Fernald does not adopt it beyond me. May you way of understanding.

Sincerely yours,

Chas C. Deam.

STATE OF INDIANA
CONSERVATION DEPARTMENT
DEPARTMENT OF PUBLIC WORKS

Recd. 11/2/19

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INDIANAPOLIS

Bluffton, Ind.
Dec. 16 1936

Administrative Officer
V. M. Simmons

Dear Hermann:- I have your card relative to name of yellow water lilies. It has been sometime since I wrote this and since my memory is failing so fast I can not now recall why I dropped Nymphozanthus. I know I had my plants so named and I went to Nuphur. I think on the recommendation of Conard. I usually file letters relating to nomenclature with the plants but I do not find a single letter relating to it. So I must have had a pipe dream. I have written to Conard to write me about it at once. Conard named my white water lilies and he uses the name Nymphaea. Of course Conard is not a bibliographer such as Fernald. I have consulted my card index on literature and I find nothing later than Fernald's article on nomenclature. However, I find that Hegl uses Nuphur, and Niklitschek in his monograph uses Nuphur. Then to go back to the "Dark Ages" see page 134 of the Int. Rules where it is proposed to conserve Nymphaea ^{has! Nuphur} and drop Nymphozanthus. As I understand this is proposed and Fernald and Weatherby have agreed to do so. See starred named. Now if the yellow lily becomes Nymphaea what name for the white lily. That Austrian Niklitschek uses Nymphaea. I have no idea what he knows about names. But if the Nomen Conservandi proposed sticks then Nymphozanthus is out.

I hope that the Vermont Flora will be out soon. This will give us something to shoot at.

I sent you two boxes by Kriebel. He promised to stop here on his way back but he did not and I have never heard from him. Hope he was not kidnapped.

Well I am trying to clean up a lot of stuff and I am now almost done so I will have only Helianthus and Solidago left. Carpinus I must go to Ind. University to see my specimens. OVER

H. G. Jones

I am now on Rudbeckia. Started it yesterday. I have it already written but this is the "second rinz" and I have to get into it Rudbeckia bicolor which was found by Miss Banta in Jefferson County. They sure are an interesting lot of plants to study.

If you wish to delve into the nomenclature of Nymphozanthus, here it is. No I will not give it. You have too much to do to trifle with this problem.

Best wishes to you and family, I am sincerely your
Chas.C.Deam.

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Bel. 12/19

STATE OF INDIANA
CONSERVATION DEPARTMENT
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INDIANAPOLIS

Bluffton, Ind.
Dec. 4 1938

Administrative Officer
V. M. Simmons

Board

Governor Paul V. McNutt
Lieut.-Gov. Clifford Townsend
Virgil M. Simmons
Paul Fry
James D. Adams

Dear Hermann:- Say I guess I am getting so old I am fussy. I now have two of your letters unanswered and a lot of Ms to send you and I am going to send it get it out of my sight but poor Hermann how is he to get rid of it well I guess that is up to him.

I wanted you to read Mrs. Chases letter and I just got Hicks paper back today. So. now I have about all of the junk gone over except the Botrychium which is in the hands of Mrs. Winch. I do want to get these little things off hands. I am getting them cleaned up and what I want to do is to get it cornered down to Helianthus and Solidago I will now read your letters

Nov. 28 You mention the care of your new baby. Yes they do take time and care. You may now be like the story goes, you would not give a nickle for another but you would not take a million for the last one, especially since he is a boy. Does he have a Carex expression as yet? Probably too young to determine

Say man, you this week 8 sets of Carex and Juncus came for determination "when is that Deam Carex coming out.? Are all my Juncus and Carex named up. So. I can tell Mrs. Winch to go ahead and stab the maps.

As to the Silene vulgaris . In April 8 1938 I wrote Weatherby as follows:

Silene latifolia (Mill.) Britt. & Rendle of Gray's Man.
infalta Sm of Regi Flora 3:279
of D.C. Prodrumus 1:368.1832
vulgaris (Moench) Garcke, Rydb. Flora of P. & P.
(See Bull. Kew Gardens 1928.1-27 1928, etc.)
"probably but I am not sure 2

I always arrange my questionnaire so he can indicate the proper name by underscoo underscoring, etc. My quotation is his reply. Now this is all I know. Think I will put this on the list again to ask him and see if he is "growing in wisdom".

Now since this is a n European species and doubtless Sprague's word is as good as Fernald's , think we are safe. You make a meo so if you get to Chicago or elsewhere may you will have time to look it up. If at Chicago ask Miss Vincent to get it and bring it to you and you will have no wait.

over

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Now as to *Allium Scoroprasum* L. will say this is a Linnean species and I find no reference to it except in Coste' Flora of France. I have it in the excluded species and in write up I say the determination was made by J.M. Greenman and too I had the specimen and Harriet and I went over it. The descriptions in Coste' flora are adequate and figures too so I guess I am O.K. in determination but how in the heck did such a wild thing ever get into Jasper County?

Letter Nov. 30

Forgot the ^{Beal} biography. Went out today. There is not so extraordinary about it but good stuff to know. Prof. Fred Loew, Prof. Biol. over at Huntington college told me that he used to pull weeds and help Beal garden.

I have not yet come over *Carpinus*. I fear they are at Ind. U. Of course after I go over my plants again I will have to "put myself". After you read Mrs. Chase's letter you will understand better about *Carpinus*, etc. We must study a species intensively over its range to learn the width of its variation except you find such things as Rosendahl, et al did in *Heuchera*. Did you study their map of the distribution of *Heuchera americana* and *Richardsonii*. I have never seen any thing like this before. Doubtless when we have a species with a range along the Coastal Plain westw. to the Miss. Valley or farther west we will find the Miss. Valley stuff will vary

I note your trouble with *Antennaria*. I hope Stebbins annihilates the whole mess. You will note how he disposes of the several forms in some of his papers. They are too much for me. I had a peculiar form on the north side of Clear Lake Ind. and he gave me a long spiel about it at one of the A.A.A.S. meets

Now I am going to dig into "*Heuchera*". Rosendahl et al have named them all for me so all I have to do is to construct a key, etc. yesterday I made my maps. One species I have from a single specimen taken in Perry County. I can return to the same rock for more if they still persist. I wish authors would have made maps to show the distribution of all species like Pennell did.

Well it is now 5,00 P.M. and I have not touched a lick today. Wife says all I do is write letters

Best wishes to you and family, I am sincerely yours,

Chas. C. Deam.

Memos to Hermann

Fernald, Rhodora 38:399, line at bottom of page, reduces *Carex lacustris* to a var. of *C. riparia*. I do not recall how you treat this species. See his discussion on the next page.

Many thanks for the separates. Find stamp enclosure and a few for good measure.

I see Jour N.Y. Garden 37:244, mention of Samuel Higbee Camp, who seems to be a plant collector and has a herbarium of 3,000. Located in Jackson Mich. If you have never contacted him, here is the data for it

You must read the first 28 pages of A.C. Kinsey's

The origin of higher categories in Cynips. While this is an insect book it covers taxonomy and phylogeny of plants as well. You may not know Kinsey but he is a go getter of the Nth power. I believe he knows his stuff. He has had the field experience, has the material to make deductions, etc. This is just off the press. It is

Science Series no. 4, Indiana U. publications. Doubtless they have it at the Museum. If you prefer I can send it to you. I am thru with it

and you can take your time to look it over. P.S. I have decided to send you the book and thus save yourself from humiliating yourself to those museum people for any favors. I want you "to tell them" instead of vice versa. You know even the smallest "bug" can be obnoxious.

This is Thanksgiving day and no mail out today. I am thankful that I can still work

Now as to that Chicago trip and you wish to go and do not have the change at hand let me know approximate it will cost and I will send you a check. Well I have two pages of Memos here and I guess I will send them so I can have a clean slate. Now the next thing is to change the names on the ferns and I presume it will all have to be ~~xxx~~ rewritten because it will be bad for the printer at the very start to have so many corrections, etc. He will not understand but after he has set a few hundred pages he then begin to guess what it is all about. Hope you are having a good Thanksgiving and nothing to interrupt you from doing just what you wish to do.

Sincerely yours, Chas. C. Deam.

Keep the Cynip paper as long as you need it. No hurry about its return.

Ber. Schweiz. Bot. Ges. (cont.)

Soó, R.

Geschichte und hauptergebnisse der modernen
geobotanischen forschung in Ungarn 1925-1935.
Ber. Schweiz. Bot. Ges. 46: 104-119. J1.18,
1936.

Spinner, H.

Stomates et altitude. Ber. Schweiz. Bot.
Ges. 46: 12-27. illus. J1.18, 1936.

Takahashi, K.

Windschaden durch den taifun am 21. September
1934 in Kyoto (Japan). Ber. Schweiz. Bot. Ges.
46: 120-130. illus.(incl.map), pl.3-5. J1.18,
1936.

Vareschi, V.

Die epiphytenvegetation von Zürich. Ber.
Schweiz. Bot. Ges. 46: 445-488. illus.(incl.
maps), pl.17-20. J1.18, 1936.
Epixylenstudien. II.

Villar, E.H. del

Le point de vue géobotanique dans la classifi-
cation des sols. Ber. Schweiz. Bot. Ges. 46: 94-
103. J1.18, 1936.

Walter, H.

Ueber den wasserhaushalt der mangrovepflanzen.
Ber. Schweiz. Bot. Ges. 46: 217-228. pl.6-8.
J1.18, 1936.

Better Crops (6B46)

McElwee, E. W.

Flower symptoms warn of food deficiency.
Better Crops 20(12): 6-10, 39-41. illus. O.1936.

Miles, L. E.

Potash for cotton wilt in the Mississippi
Delta region. Better Crops 20(12): 18-22, 41-
44. illus. O.1936.

Bol. Agr. Soc. Antioq. Agr. Colombia (9.4Sol)

González Rubio, J. & Echeverri G., J.

Cultivo del arroz en San Jerónimo. Bol. Agr.
Soc. Antioq. Agr. Colombia 9: 609-614. illus.
My./Je. 1936. no.214/215.

Memos to Hermann.

I admit my complete defeat in naming my forms of Botrychium. Weatherby in Fern. Jour. 25:50 gives a list of the forms which I have followed. Weatherby again in Fern. Jour. 25:95 describes B. multifidum and vars. As I take it these have nothing to do with Ind. They are north of our area. Even Weatherby will not touch my Indiana specimens of B. obliquum var. oblongifolium. Now here is where I loose interest in the matter. A few years ago I discovered a large colony about 16 miles from here. In it I found typical dissectum and every conceivable form of forma obliquum. Tryon Jr. was here again this year twice and got a load of the variations and he gives it up. I know that Tryon got over 25 specimens and Tryon wants to split up as much as possible (youth again typ. typical) and they have him cornered. I have just finished rewriting my cards on bibliography and these poor things have been drug around by Underwood, Clute, Bendect, Farwell, Gilbert, et al from Botrychium species to forms and the fire is so raid I can not hope to be up to date because some one makes a change every new moon. Now however if you find my writeup wrong do not hesitate to criticise. But I think B. multifidum is out of the picture according to Weatherby's latest and as I interpret the description. B. multifidum has that approximate or overlapping of the pinnae which dissectum and forms does not have.

Again on the punctuation of abbreviations, etc.
Fernald Rhodora on page you cite, 242, vol. 32 37 you will note in the last line Milde. Fil. Eur. Milde is the full name. In the two preceding lines the authors are abbreviated and I believe there is a printers rule that a period after an abbreviation can close a sentence. But on the next page in first line Fernald uses the comma. e is not consistent.

Hicks has just returned the "Hemaceae Ms. I am sending it" he says he was in Chicago recently and he met a man by name H. V. Thordarson, 510 W. Huron St Chicago who has the finest Botanical and Ornithological library he had ever seen. He has 24,000 books, elegantly bound, has the most sumptuous botanical paints, 16, 17, 18, & 19 th century. He was born in Iceland and has an electrical factory. I never heard of him did you?

Die Umschau (Frankfurt) (474Um7)

Knoll, O.H.

Beeinflussung der aufzucht von gemüsepflanzen durch licht. Die Umschau 40: 846. illus. 0.25, 1936. no.43.

Experiments with "neon-, natrium-, quecksilber-, bogen-, glühlampe, tageslicht" on tomato and cauliflower.

U.S. Dept. Agr. Farm Bull. (1A984F)

Beattie, W.R.

Cucumber growing. U.S. Dept. Agr. Farm. Bull. 1563. 22 p. illus. S.1936.

U.S. Dept. Agr. Plant Dis. Rep. (1.9P69P)

Hastings, R.J. & Bosher, J.E.

Detection of Anguillulina dipsaci in bulbous iris. U.S. Dept. Agr. Plant Dis. Rep. 20: 300-301. N.1, 1936. no.19.

Hilborn, M.T. & Steinmetz, F.H.

Some epixyous fungi of Maine. U.S. Dept. Agr. Plant Dis. Rep. 20: 306-309. N.1, 1936. no.19.

Schinde, A.L.

A preliminary list of the parasitic fungi of Idaho. U.S. Dept. Agr. Plant Dis. Rep. Suppl. 96. p.77-113. N.1, 1936.

Valt. Maatalouskoet. Julkais. (Helsingfors) (20F495)

Jamalainen, E.A.

Herneen siementen sisäinen turmeltuminen (Internal necrosis of pea seeds). Valt. Maatalouskoet. Julkais. 79. 8 p. illus. 1936. English summary.

Meurman, O.

Selostus mustien viinimarjapensaiden vertailevien kokeiden tühnastisista tuloksista (A preliminary report of the black current variety trials). Valt. Maatalouskoet. Julkais. 80. 13 p. 1936. English summary.

Simöla, E.F.

Peltoviljelyskiertokokeiden tuloksista maatalouskoelaitoksen kasvinviljelysosastolla v.v. 1914-1926 (Ueber die ergebnisse der an der abteilung für pflanzenbau der landwirtschaftlichen versuchsanstalt i.d.j. 1914-1926 ausgeführten zirkulationsversuche). Valt. Maatalouskoet. Julkais. 78. 64 p. 1936. German summary.

Memo to Hermann

You question to use of "Length of culm" in Hemicarpha. I use the length here because the culms are widely spreading or even almost prostrate so then obviate the possible interpretation of height for length I use length. The Height of the leaves as compared to length of culms again is a practical thing. In a clump the many basal leaves form a mat and the culms project beyond the top of the leaves. But the leaves are mostly all curved so if you use the length of the leaves the culms would be shorter in proportion. Look at some mounted sheets and you will get me. But in the text I am in agreement it seems purile to ^uambiguous or more. If after you go over this again and think I had better make a change I will reconstruct the key

More on Hemicarpha. I note in the key in first line I say culms recurved-spreading, so height might be confused since in the next lead I say culms erect. Too the length of the leaves in the erect culms ^{among} makes the height of the leaves quite intelligible, but if this is too contorted for correct interpretation, let us change it.

In reading Rhodora 38:376 I see Fernald uses *Garya alba* while Rehder and Palmer use *Garya tomentosa*. *Bacopa acuminata* He will not use Pennell's name

Rhodora-Fernald* goes over *Leersia virginica* and as I get it from his abbreviated review the plant, typical has the lemma glabrous or nearly so and the margins of lemma not ciliate at least most of them are not ciliate. Those plants with ciliate lemmas are var. *ovata*. Now I have about 80 sheets and all have ciliate margins. The under surface of the blades vary from glabrous to pubescent. As to the wide of the blades Fernald mentions mine run up to 1.5 cm. wide. His must be real plants. I have one coastal plant, Bartlett's from Ga. and it is our plant. Shall I change my name to var. *ovata*? or shall I write Mrs. Chase.?

Panicum dihotomiflorum var. *geniculatum* I can not see this in my specimens. Fernald says the var. occurs in Ind. Will write Chase

Panicum agrostoides var. *ramosius*. I think I have 3 of this var. but I do not believe the var. is any good. All kinds of intermediates. I have written Chase about all three, Will let you read her reply

Bull. Soc. Bot. France (cont.)

Pellegrin, F.

Plantae Letestuanæ novæ. XXIII. Bull.
Soc. Bot. France 83: 316-317. S.4, 1936.
no.4/5.

Gardenia le testui, Rutidea striatulata,
Chasalia tchibangensis.

Senay, P.

Contribution à l'étude du genre *Arctium*.
Bull. Soc. Bot. France 83: 330-343. illus.(maps).
S.4, 1936. no.4/5.

Souèges, R.

Les relations embryogéniques des crassulacées,
saxifragacées et hypericacées. Bull. Soc. Bot.
France 83: 317-329. illus. S.4, 1936. no.4/5.

O Campo (Rio de Jansiro) (9.2015)

Bondar, G.

Variedades de cacau cultivadas na Bria.
O Campo 7(78): 35-37. illus. Je.1936.

Santos, E.

A goiabeira. O Camp 7(77): 36-39; (78):
57-60. illus. My., Je. 1936.

Candollea (Genève) (451016)

Bachni, C.

Sur la position systématique du genre *Goethalsia*.
Candollea 6: 44-45. 1936(Ap.1935).

In family "Bixaceae sensu lato" (comprising
the Cochlospermaceae & the genera *Mollia*, *Nettoa*
& *Trichospermum*).

Becherer, A.

Note sur deux espèces d'*Asplenium*.
Candollea 6: 22-24. 1936(Ja.1935).
Asplenium aethiopicum, A. foresiense.

Briquet, J.

Note sur deux méliacées. Candollea 6: 20-
21. 1936 (Ja.1935).

Guarea yungasana, *Trichilia jodinii*.

Cavillier, F.

Alfred Saint-Yves (1855-1933). Notice bio-
graphique. Candollea 6: 25-43. port. 1936
(Ap.1935).

Liste des publications de A. Saint-Yves: p.40-41.

Repl. 1/30

Dear Hermann: I have your nice long letter of Nov. 14 and I will give it consideration in a day or two. Yesterday I took up *Quercus falcata* for the Ms. and I will in due time send you carbon copy when typed. I made a mess of it and I probably should have followed my "conscience" in the matter (just lump the whole but I know this is not correct and I feel reasonable sure my treatment is bum. I had to make it from memory and books. My specimens at Ind. U.

Well I decided last night I would finish hickory the next thing and I dug up one of Palmers recent letters which I had forgotten. I am sending it to you. He seems to thing the *J. virginiana* var. *orebra* not very hot. I just rewrote this species, calling all our plants *orebra* because all our plants are spire-like plants except those on cliffs

You note what he says about *Carpinus*. This agrees with my findings. The characters Fernald points out are O.K. but do not hold. I surely do have the narrow-leaf *Carpinus* in Ind. Now what shall I do. If I follow Fernald, hell will be to pay. If I call attention to his var. and doubts its validity I make a Dr. Winter out of myself. If I introduce a var. which with one of my experience can not recognize, it seems to be skating on thin ice. If I ignore it then I am not up to date. If I endorse Fernald and later it proves to be huey, what. Hell it will show I was on the band wagon, but not the right one. When you are between the Devil and the High Sea with no equipment for escape the question becomes which way the easiest to die.

I have just referred to the box you just returned and I find in it that you call my attention to Fernald's revision. That was written before Fernald broke out and the darn thing has been in stato quo ever since. I wish my specimens were here again to go over. Well this is my baby, I know you have plenty of worries. The thing that worrying me most just now is my helath. I feel so bum all the time, I can scarce work any of the time and I am not half there at that. I am always looking for a change and it goes to the worst. Looks as if Hermann may have a good deal to do to complete the Flora of Indiana. I am now at work trying to bring it all up to date except the *Pellinatus* and *Solidago*.

Today I planned to bring *Carya* up to date. Palmer says we have *Carya Buckleyi* in Ind. Never published. I have the specimens here and I want to go over em closely and if I have any reason to doubt, I will omit. I am at great disadvantage in that I have no specimens for comparison. Then I have a good sized package of mounted *Carya glabra* var. or forma *incognita*. They are *C. ovalis* with pubescent branchlets I had labeled them var. *C. ovalis* var. *borealis* but Palmer says var. *borealis* has glabrous branchlets. So I am just tucking them away for the day of "judgment" when they will (may be) opened up and passed upon by some competent authority. If you are in the area of *Carya ovalis* var. and forms better make a speciality of this species and var. and publish on them. I have a fine collection of em (at Ind. U.)

Chas. C. Deam

P.S. I note you call my attention to punctuation, etc. where I cite

Sargent. Trees & Shrubs, 2:--

You say: The Trees and Shrubs. The original title does not have a The According to Wood the correct citation would be:--Sargent, Trees and shrubs 2: Wood says lower case in title all words except the first and proper nouns. I have tried to find it but I have not the use of a period after author as I have it. I see that *Rhodora* follows Wood. I started out as Wood has it but for some reason I do not now recall changed to the period. You note that our literature citations at the beginning of ~~grax~~ genera has the period. So I must now go thru Ms. and change all these to a comma. Help me to catch em. Too wood and others use no punctuation between title and volume. You know it is said we have two Gods. One in Heaven, which I am not able to demonstrate. The other on Earth and his name is Retribution Well he seems to be punishing me right for my ignorance on so many points

OVER

especially at a time when I do not have enough "sense" to scarcely select my food. I am a lucky dog that I have friends who keep me out of the insane asylum.

"ell since I can not prove an alibi, I guess we will adopt Mr. Wood and use the name of author, without possessive, follow with comma and begin title with a Cap and l.c. all others names except proper names. So mote it be.

Reel 11/30

Again about this Wood, citing papers, etc.

Which? Sargent, Trees and Shrubs 2;— or Sargent, Trees and shrubs 2:

Wood says l.c. all words except the first and proper nouns. The second

reading is correct. If this is ~~so~~ correct, Then Sargent, Bot. Gaz. 2:

becomes Sargent, Bot. gaz. 2: I have never seen Bot. Gaz. where Ga. was l. c.

Much obliged to calling my attention to the difference, based on bract,
between Scirpus am ericanus and S. Torreyi. I checked it it and it is
a fine one

The dam ^Allium correction did raise a stink. I went over this again.

Found I had made a bad mistake. Will in due time send you revised sheet

The Allium Scorodoprasum is different from ^Allium Schoenoprasum.

Say I just had occasion to consult Whitney's Flora of Lake Superior.
Do you have it, if I recall correctly this vol. of the Geol. Report has
been quoted as high as \$5.00. Do not think it means any thing but to
have it. Now as an inducement to come down and when you do you go thru
my Michigan literature on Floras, etc. and help yourself to what you do not
have. Now if I forget it you remind me of it, please.

Memo on Standardized Plant names. I agree with you tht they are bum and too
they were to last only five years when the Comm was to revise them. Seems
as if at present no effort is made to ~~revive~~ a new ed. Now I follow
it just as religiously as I do the Int. Rules. Except we do and every one
does as he pleases we will have no new standradized names. Some one must
be the goat and I plan to be the martyr. We have had an attempt at
standardization and botanists, etc. as a whole should hop in and try to
make it stick. A few of our leaders pulling off will retard progress
no telling how long. This is a free country and many things too free. The
only cheerful thing is that we can not worse things, some of the old
accepted common names (botanical) are just tommy rot

Say I have spoken of you to my botanical friends as a "coming taxonomist".
I have now change my mind. "You have already arrived" and I find I
substitute for "coming" some other word. I will not give it here but I
presume it will be a combination or a sentence or two.

Rhodora (Boston) (45OR34)

Cory, V. L.

Three junipers of western Texas. Rhodora
38: 182-187. My.1936. no.449.

Juniperus mexicana var. monosperma, J. gymno-
carpa, n.comb., J. erythrocarpa n.sp.

Fernald, M. L.

Memoranda on Aruncus. Rhodora 38: 179-182.
pl.416. My.1936. no.449.

Fernald, M. L.

Memoranda on Ranunculus. Rhodora 38: 171-178.
pl.414-415. My.1936. no.449.

Fernald, M. L.

A new pondweed from Tennessee. Rhodora 38:
165-169. pl.412. My.1936. no.449.

Potamogeton tennesseensis.

Fernald, M. L.

The nomenclature of Sassafras. Rhodora 38:
178-179. My.1936. no.449.

Fernald, M. L.

Pilea in eastern North America. Rhodora 38:
169-170. pl.413. My.1936. no.449.

Weatherby, C. A.

A further note on Solidago rigida L.
Rhodora 38: 195-196. My.1936. no.449.

Science (470Sci2)

Harvey, R. B., Zalar, J. & Landon, R. H.
Sodium ethyl xanthate as a plant poison.
Science 84: 356. O.16, 1936. no.2181.

Science News Letter (470Sci24)

Insect-killing fungi are raised successfully.
Science News Letter 30: 260. O.24, 1936. no.811.
Experiments of Dr. Georg Schweitzer, of
Hohenheim.

Scott. For. Journ. (99.9R81T)

Day, W. R. & Peace, T. R.
Burr rot of conifers. Scott. For. Journ.
50: 52-54. Mr. 1936. no.1.

Memos to Hermann

You ask about calling attention to the omission of author when I follow a species with a var. etc. Yes always indicate because you are reading for errors and now all I am doing is to go over and make your corrections. You know I am so humiliated when I see the many errors we have made or rather I for I should not hold Mrs. Winch or Weatherwax responsible for any thing but Old Hermann does not over look em. Lord it is a blessing that some one can thus help to purify the stream of botanical literature that is pouring out. Trouble in my case as in others we should begin at the source and try to stop the incompetent trying to do something they can not and in the language of the New Deal, by "resettlement" place them where they belong. Well my case is now so far along it is best to just make the best of it and in the language of "aude Muller, say it might have been.

No. doubt, say I am glad you came to my rescue. Mrs. Winch and Weatherwax both insist on using the comma. Now it is 50-50 and I am the boss so out they go. Commas are not for the orator to get a full breath on, but are introduced in order that the reader can not confuse the text. Thanks

Think I sent you specimens of *Gerastium arvense* var nov. from the bank of the St. Joseph River in St. Joseph & Elkhart counties. Paul Cook was with me once and he dug some and he still has it growing in his garden. I still have a few duplicates I sent some to ~~Jernald~~ and he would nto

Yes I decided the *gagina decumbens* from Posey Co. should go in as the species but in this I may err. I did not authentic material for comparisio-

Silene antirrhina var. *divaricata* from Posey Co, Deam & Hermann is O.K.

Repl 11/30

- Nachr. Schädlingsbekämpfung (Leverkusen b. Köln a. Rh.)
 Flachs, K. (464.9N112)
 Krankheiten und schädlinge an Ölpflanzen
 (Diseases and pests of oleiferous plants). Nachr.
 Schädlingsbekämpfung 11: 130-140. illus. Ag.
 1936. no.3.
 English summary in Referate. Colza, poppy,
 sun-flower.
- Laube, W.
 Auswinterungsschäden beim roggen (Attacks on
 winter rye). Nachr. Schädlingsbekämpfung 11: 112-
 123. illus. Ag.1936. no.3.
 English summary in Referate.
- Magerstein, V.
 Krebs der korbweide (Canker of osier willow).
 Nachr. Schädlingsbekämpfung 11: 149-152. illus.
 Ag.1936. no.3.
 English summary in Referate.
- Schouten, A.
 Beizung von pflanzkartoffeln mit aretan (Treat-
 ing seed potatoes with "aretan"). Nachr. Schä-
 dlingsbekämpfung 11: 123-129. illus. Ag.1936.
 no.3.
 English summary in Referate.
- Nachrichtenbl. Deut. Pflanzenschutzd. (Berlin) (464.9N11)
 Hilgendorff, G.
 Normen für obstbaumkarbolineen und baumspritz-
 mittel (teerölemulsionen). Nachrichtenbl. Deut.
 Pflanzenschutzd. 16: 97-98. O.1936. no.10.
- Nat. Hist. Mag. (London) (410N2122)
 Syge, P. M.
 British museum expedition to East Africa. V.
 Ruwenzori. (cont.) Nat. Hist. Mag. 5: 362-381
 (incl.illus.) O.1936. no.40.
- Nature (London) (472N21)
 Cholodny, N. G.
 Growth hormones and development of plants.
 Nature 138: 586. O.3,1936. no.3492.
- Love, R. M.
 Occurrence of haploid pollen mother cells in a
 vulgare wheat. Nature 138: 589-590. O.3,1936.
 no.3492.

In regards to names of *Quercus*(*rubra*, *Prinus*, *Grays Man*, etc.) will say I am a "private in the ranks" in botany and I try to be a good soldier. With all my handicaps which are familiar to one like you who has tried to investigate bibliographic stuff you know you only too soon run up against no literature or must see the "type". So I have decided my course is to "follow authority". In this I may err and get into the wrong camp. Again I am drawing my salary and expect my *Flora* to be published out of a Forestry budget, it is only courtesy to follow their nomenclature which was dominated by Sudworth until his death and since I take it that Coville and coterie have been rubber stamp people. None competent to investigate.

I see you swallowed the *Humulus americanus* Nutt. Did it make you choke. While at Chicago I saw some real *Humulus Lupulus*. Ours is nothing like it. I hope this year to be able to buy some seed of the last named. Could not get it last year.

Why did you miss a good part of *Urticaceae* or did you go to sleep. Surely can't be I had 5 consecutive papers above criticism or were they so darn bad, like rotten eggs, no help for em.

Repl 11/30

Funke, G. L.

Over het kweeken van planten bij neonlicht.
Meded. Landbouwhoogesch. Opzoekingsstat. Staat
Gent 4:67-78. 8 pl. Je.1936. no.2.
English summary.

Godsenhoven, E. v. & Vermeylen, J.

Onderzoekingen naar de teelt- en de brouw-
waarde der inlandsche en uitheemsche gerstrassen
(Investigation on the cultural and brewing value
of home-grown and exotic varieties of barley).
Meded. Landbouwhoogesch. Opzoekingsstat. Staat
Gent 4:91-132. Je.1936. no.2.
English summary.

Govaert, R.

Mengelingen van gras- en klaverzaad voor blij-
vend grasland (mixtures of grass and clover seed
for permanent grassland). Meded. Landbouwhoogesch.
Opzoekingsstat. Staat Gent 4:3-13. Mr.
1936. no.1.
English summary.

Hauwaert, M. v.

Het aantasten van vezels van Congoplanten door
zuren en alkaliën. Meded. Landbouwhoogesch. Op-
zoekingsstat. Staat Gent 4:60-64. Mr.1936. no.1.
English summary.

Hubert, B.

De koolzuurassimilatie bij neonlicht. Meded.
Landbouwhoogesch. Opzoekingsstat. Staat Gent 4:87-
90. Je.1936. no.2.
English summary.

Van de Velde, A. J. J.

De oligodynamische werking van sulfuriden en
azotiden op de microben. Meded. Landbouwhoogesch.
Opzoekingsstat. Staat Gent 4:14-27. Mr.1936.
no.1.
English summary.

Van den Brande, J.

De plankwortels van Ceiba pentandra Gaertn.
Meded. Landbouwhoogesch. Opzoekingsstat. Staat
Gent. 4:28-38. Mr.1936. no.1.
English summary.

Rexl 11/30

STATE OF INDIANA
CONSERVATION DEPARTMENT
DEPARTMENT OF PUBLIC WORKS

INDIANAPOLIS

Administrative Officer
V. M. Simmons

Board
Governor Paul V. McNutt
Lieut.-Gov. Clifford Townsend
Virgil M. Simmons
Paul Fry
James D. Adams

Bluffton, Ind.
Nov. 20 1936

Dear Hermann: Wife just hollered and said I am going up town so I am holding her a few minutes so this can get out.

I was three days going over the last box. I made notes as I went along.

I am sending another batch of junk for you to wade thru. I just hope it is not too putrid for you to stand it.

I will answer your letter later but I wanted this to get out so you can use it at your leisure. In this morning mail I got two

letters asking when the Flora will be out.

Guess this is all I dare take time to write. Go ahead as usualy

in your your method of making memos, etc. but do not ~~am~~ spare the Ms. Be tough with me. I can stand it. Can't make me angry.

Best wishes,

Sincerely yours,

Chas. C. Deam.

P. . Just got word that Prof. Paul Weatherwax's son, 15 years old fell dead, heart trouble. He was a budding naturalist. Too bad. But we are all like chickens, get it on the neck sooner or later. I hope they do not come to you until you are old and tough.

Deam

Memo to Hermann

Repl 11/29

Storage and germination of seeds of aquatic plants by W.C. Muenchner,
Bull. 652, July 1936 Cornell U. Agr. Exp. Stat for sending for. Gratis.

Many thanks for calling my attention to the spelling of Equisetum sylvaticum which I adopt.

Yes if not too much trouble go ahead and mark all the delete Gray & B. & B. I may over look them and too dumb to know when to do so.

You call attention to "Betula lutea as the succession and then add its associates. I have change it to read It is the principal species in the succession with so " so. Think this will care for it. One might use dominant species or if it is the first, this fact I do not know. Think I made my alibi

As to the Cypripedium parviflorum and var. I will separate them. Glad you called my attention to Fuller's treatment which I will follow.

(Unmounted)

I have changed the no. on type to 56,851. Evidently in some way it got mixed. O.K. now. No labels have as yet been written. "ould be glad to have you write the labels or send me the wording. You may prefer to write the labels in ink. The ink will last longer. In the folder you send you have 3 sheets in folder. All 56,851 Plants harvested Sept. 23 1935
Plants were sent me by Edna Banta from the Schuman or nn woods about 2 mi. ne. of Hanover. May be we had better get the exact spelling of Schuman or what woods. You will recall the hard white clay soil. Better get this done soon because I want to send into Gray Herb. Should get it there ere the Christmas stuff goes thru. I will send in wood box and let them return the box.

Sorry you do not have the time to slip over to Chicago and look over their Carex and Juncus. However, I doubt if it would add much. You have seen the Hill stuff at Ill. and you have seen the Umbach stuff of Wis. so you might not add much because I presume most of their stuff comes from the dune area and you have seen mine, Dr. Lyon and the Nieuwland stuff. So I presume the area is pretty well fished out but if you can get over, go. I hate to ask Stadbly to fish out the Ind. stuff except we could get a W.P.A. worker and pay for the extra work. If you think you can get to em you can write Standley or I can and I will pay all the expenses

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STATE OF INDIANA
CONSERVATION DEPARTMENT
DEPARTMENT OF PUBLIC WORKS

Recd. 11/14/36

Board
Governor Paul V. McNutt
Lieut.-Gov. Clifford Townsend
Virgil M. Simmons
Paul Fry
James D. Adams

INDIANAPOLIS
Bluffton, Ind.
Nov. 10 1936

Administrative Officer
V. M. Simmons

Dear Hermann:- I have your letter with the Pteridophyta. I am going to try to answer your letters and bring em up to date. My head at the present is so cloudy I can not think. When my kidneys do not work I become cuckoo. It may be senility of the permanent kind. For this reason I plan to lay to

this job so I can get it nearly finished so you will not have so much to do. So far as I now know I will not be out of Bluffton for any reason. So I can now begin to bring things up to date, old frog story,, jump up 2 feet and get a Rhodora and back I go 3 feet. Just hastily went over what Fernald did ~~xx~~ down in Virginia. Presume I will have to go over about a half doz.

genera to learn if we have or do not have some of his new items. Poor Mrs. Chase has to fight her own battles now since Hitchcock is gone.

Well I scarce know how to begin or what to say. First I just received a letter from Schaffner which I enclose. What do you think after you have read his argument. Personally I have a strong regard for Schaffner's ability as a taxonomist when it comes to Equisetum. He has been dealing with phylogeny all his life and he should know the significance of 1-row and 2-row of tubercles. Well since in my introduction I credit Schaffner with having seen all of my specimens of Equisetum I am using his nomenclature.

In the morning mail I got Winter's Flora of Nebraska. This dam "economy" wave nearly makes me swear. The whole is printed in 6-point and the keys much smaller. I looked at it until my eyes gave out. We see boondo gglng every where but when it comes to publishing a book like this to economize what one man or two will squander in a week. I am going to write Winter to give me the name of the persons who are responsible for this small type and I will write ^{them} a sharp letter. OVER

I do not know winter and all I can get on him is what is said in membership of Bot. Soc. of Amer. Doubtless you will get a copy so it is needless to discuss its merits. Doubtless he has done all he could at spare times to bring the data on the Flora of Neb. up to date but I doubt if he has gone into it like I have. It is surely a decided advance. Such items as the Bessy arrangement and the B. & B. nomenclature seem odd but that does not necessarily change the data. I just came across his treatment of Pilea and he has just lumped that without study. This lower casing of proper names always make me boil. He uses the English system of measurement which is now only historical. He has made a serious mistake under Steironema when he says *S. cilivatum* introduced from Europe and junks all other forms under this species as narrow-leaf forms. "ell I will not discuss this because you can cuss it in silence. It is published as Bull. 13 by the Conservation Dept. of the Cons. and Surv. Div. of the University of Nebr. Lord how we need symbols to designate some of these new fangled titles. To be courteous it sometimes hustles one to get the whole on an envelope when ones wishes to direct a letter.

Much obliged for references to Benner's papers on Lycopus. I neglected to list these in my catalogue. Think I will send you one of my sheets to see how close it comes to var. arkansanus.

The distance and direction of the Shawnee Bridge is really sw. of Williamsport. According to the best maps the bridge is 2 mi. south and 1/4 mi. west. Our collecting was done on the west side of the road, although this bridge to me has always been E. & W. it is N. & S. It is on section line between sec. 22 & 23, south of Williamsport

Now I take up your letter. I am sorry the reading of my Ms. takes so much time. The more time it takes the better the job. I know this is an immense undertaking and I delay sending any more at present. Let me know if you can or will use more and since you do not mark the Ms. would you not prefer the original which has all the dope on it? It is no difference to me since I never use the original. May be easier to read.

Hermann-3

I have not yet even looked at the Ms. you return. Will not do so for a week yet at least. I want to run those Najas thru the mill first. I note your mention of *Carya*. *Carya alba* becomes *C. tomentosa*, etc. and then according to Palmer I should add one species yet. I want to go over this myself carefully and really I prefer to omit it. He says we have *Carya Buckleyi* Durand. There is a relict (left by man) colony on the pure sand in Knox County that has four trees yet and all are different and one of them is the *C. Buckleyi*. With it is the var. *C. Buckleyi* var. *arkansana*. Like to take you around about Oct. 1 sometime which will probably never come to me and then too late for the Flora but not for you to get some notes on.

I note you say you have the Oberlin College *Carex*. Have you listed them. If so let us have them and I will stab em on the maps. You know as the shipwrecked woman said: Every little bit helps. Did we get the Field Museum *Carex*? If not could you spare the time to go over there and get them. I will pay all expenses, ry and eats, no shows. They might have some good things. You have good Ry. facilities.

Int; Rules. Yes I had the is and to be confused in nomen conservandi. My assistant just changed the *Eleocharis* to *Heleocharis* and I now have it laid out for her to change back. You will note in the proposed list of nomen conservandi the names are starred (some are). These have been passed upon by a majority of the members of the Comm. But if the thing rides along until another Comm is appointed then what? Guess I will use the *Epipactis*, *Goodyeara*, *Eleocharis*, and ~~*Stenophyllus*~~ *Stenophyllus*. The last is the oldest name and it seems they are just whacking it old Raf. again. I note in last *Rhodora* where Fernald lists *Cladium* he does not use *Mariscus* so I guess I will change my Ms. to *Cladium*, Weatherby wrote me a long time ago to go to *Cladium*, Fernald's paper notwithstanding. Doubtless Weatherby has shown Fernald the light. Well I have just looked at my Ms. and I find I have changed to *Bulbostylis* so I will let it go at that.

In regards to *Silene vulgaris* will say if you have Bull. Kew for 1928 the first article gives it. They say in a foot note that *S. vulgaris* has been over

called *S. cucubalus*, *S. venosa*, *S. inflata*, *S. latifolia*, *S. angustifolia*, and *S. vulgaris*. They add that T.A. Sprague (Journal Botany 62: 45. 1924) has concluded accord. to the Vienna rules that *S. angustifolia* or *S. vulgaris* must stand and later Sprague informed them that *S. vulgaris* is correct. You may have noted that I used *S. vulgaris* but I was not able to cite this muddled up thing. If you do not have the 1928 Kew Bull. let me send you mine

Say I have only hastily scanned your *Lycopus* paper in last *Rhodora*. Think it O.K.. At least your several papers will get they guys to wake up and say who is that man Hermann?

Yes I have written G. Schmidt to send his catalogues to me before he does to you. I see we both wanted Coles Cat. of Mich plants and both lost so in that we are even.

I note what you say about your experience with *Physalis*. Now the question arises, Is your State Catalogue based upon the old determinations? If so we surely do need a new Catalogue. However do not be too severe. I fear most State catalogues need an acid test made for all species, such as I am trying to make. I can turn you loose in any large herbarium and you will find many wrongly determined plants, Mo. Gard. for example. Now what would happen if you go to Columbus Ohio and take the mine run of stuff, etc. You say most of your plants lacked roots. Hence the effort to build a key on some character that will not need it. In my work, I have only my own plants and mighty few of em. The *P. nyctaginea* (I have one plant) seems to me to be an altogether different plant. You are quite right on calyx-lobes I will restrict it to lobes in anthesis. The character is not very good but on the whole is significant. As to the round hairs of course this should be terete. This is in contrast to the terete and the flat translucent ones which are angular. You mention *P. subglabrata* and *P. virginiana*. These are different in kind of pubescence. Well what we need is more specimens, more field notes. Yes I made an error in calling anther stamen, one of my common errors. I hope you can next year get some dope on the genus

Hermann-5

and publish. When one contemplates any thing very extensive in Solanaceae he at once remembers the size of the family. If I remember in DC. Prodr. Dunall lists over 800 species of Solanum when he wrote his paper. It must now be over a thousand. But one could restrict himself to the U.S. *Physalis*. Nothing written on them except what Rydberg did in Memo. of Torrey Club. The color of the stamen is a hard one and may not be worth much. Upon dehiscence the anther may be greenish yellow but as soon as dehiscence begins then the outside of the ~~stam~~ anther begins to color purplish and by the time dehiscence is complete the anther will be purplish. I think the filament in all cases is purplish if I remember. Too since one must reckon with anthers why not get relative ^{length} size, may be there is something in it. I tried it but was not sure of results. Under a little stronger lens I found what I took to be a peculiar thing. Under a 7-diam magnification you found some short glandular hairs. Under a stronger magnification I made it out that this several celled hair had broken off and at the distal end after being ~~knocked~~ off it left out a substance simulating a gland but in reality was not a gland but a rigid stuff. Now this may be all huey but check up on it any way. If so then we must be guarded how we use short and long pubescence. ^{gland} I tried to find a character on seed but they are like nigger babies, all alike. Doubtless the mature calyx would be a good character but in herb. material they are out of commission or not recognized by the mine run. Do not return the *Physalis* key I sent. It is a duplicate

I am sorry my Ms. on Pteridophytes was not up to date

Ind. does not have *Equisetum silvaticum*. I have several specimens from Maine to Minn. and Schaffner has named them all *E. silvaticum*. At least two are named the var. *paucinerum* but Schaffner does not recognize it. Why, I do not know.

Now as to *Cypripedium parviflorum*. You have me on the carpet right. I am still in a quandary to know what to do. If I was feeling O.K. I would separate them. I have both growing here but I have never kept any record of what is happening. We have had them here for 20 years, and I am now and then. I was influenced in my write up by Knight's article in *Rhodora* 8:93-94. 1906. Since the Gray's Man. did not recognize this paper, guess I (OVR

I had better get busy and rewrite this. Thanks for calling my attention to it. *But I'm leaving them, but that means nothing here*

Any old time you can use labels, just give me the name and number, and presto

In regards to Eupatorium polyneuron will say I have not touched them since they came in. I find the type is your no. 5851. I have not sent it in yet. I had planned to let it ride a few weeks until I send it some other items. When it goes I plan to send my type of Arabis and send all in a wood box. In your paper state it is in Gray herb because it will soon be there.

Cut Ek as soon as you can. He can do you no good or any one else. I am hooked with him and I want to let loose as soon as I can.

Thanks for calling my attention to Hitchcock's Grass paper. I will write him for a copy

Now it seems as if we have too much to write about but I kid myself into believing it is all necessary

I have too long letters here from E. J. Palmer but I guess they do not interest you. They have now taken up Quercus falcata ^W c. and dropped the indefinite Q. rubra. When I go over his letters, if they contain any thing you would be interested in, I will make a memo that is my only way to remember

In your next letter tell me about the sending the Ms.

I am signing off. Best wishes, I am sincerely yours

Chas. C. Deam,

Damn it I have no big envelopes. I wrote for some 3 weeks ago

This is a Utah coll. Should be surely,

Deam 56851.

Memos to Hermann

Ind. U. Herb. has specimens of the new Eupatorium

I have Theo Holm Studies in Carex, -2 separates from Amer. Jour
Science. Can you use them. If so let me know. I have no use for em.

Dear Grasses

page 237, under line 14, Perennial; etc. add this brace.

Pedicels mostly half the length of the spikelet; subsecund on the
under side of the branchlets of the inflorescence. 9. P. agrostoides
Pedicels mostly longer than the length of the spikelet; spikelets
not subsecund, etc. and add to line 14, except in no. 9
or something like that

Obst- u. Gemüseb.-Verw.-Ind. (Braunschweig) (389.8K832)
Wagner, E.

Bakterienkrankheiten an kohl- und gemüse-
pflanzen. Obst- u. Gemüse-Verw.-Ind. 23:
614-615. S.24, 1936. no.39.

Pflanzenbau (Berlin) (18P48)

Greisenegger, I. K.

Die eigenschaften der weizen und deren bezie-
hungen zueinander. Pflanzenbau 13: 49-78.
Ag.1936. no.2.

Philipp. Agr. (Laguna) (25P542)

Celino, M. S.

Diseases of cotton in the Philippines. I.
Sclerotial stem rot, with notes on other diseases.
Philipp. Agr. 25: 302-317. illus. S.1936. no.4.

Reyes, P.H. de los

A study of different methods of rapid propa-
gation of important College seedling canes.
(Abstract) Philipp. Agr. 25: 373-374. S.
1936. no.4.

Phytopath. (464.8P56)

Andes, J. O.

Samuel Henry Essary, 1870-1935. Phytopath.
26: 929-931. port. 0.1936. no.10.

Baker, K. F. & Heald, F. D.

The effect of certain cultural and handling
practices on the resistance of apples to *Penicillium*
expansum. Phytopath. 26: 932-948. 0.1936.
no.10.

Chester, K. S.

Liberation of neutralized virus and antibody
from antiserum-virus precipitates. Phytopath.
26: 949-964. illus. 0.1936. no.10.

Demaree, J. E. & Cole, J. R.

A disporous *Gnomonia* on pecan. Phytopath.
26: 1025-1029. illus. 0.1936. no.10.
G. dispora n.sp.

Harris, M. R.

The relationship of *Cephalosporium acremonium*
to the black-bundle disease of corn. Phytopath.
26: 965-980. illus. 0.1936. no.10.

A physiological disease. "In none of the ex-
periments made was the fungus found to be an active
pathogen invading normal vascular bundles through
uninjured root systems."

STATE OF INDIANA
CONSERVATION DEPARTMENT
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Governor Paul V. McNutt
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INDIANAPOLIS

Bluffton, Ind.
Oct. 29 1936

Administrative Officer
V. M. Simmons

Dear Hermann: *Old man Ek came up yesterday and I bought 575 sheets of junk of him. Among them all the sheets of Carex he had. I am sending them to you in a large box. Do not let the box (size) frighten you. The number of plants in it are few. Now I change all the plants into fresh jackets so the jackets will contaminate you. Now he has a few new Carex. Will you please go over em and keep out what you can use and report to me the names and counties the plants are from so we can stab the maps. I do not care for any of them. You keep what you can use and burn the rest. I enclosed a label in each jacket for your use.

What I bought of him are mostly weeds but they will serve as records. I bought about 5 *Setaria viridis* from that many counties. Really junk but such will serve to show distribution. He got nothing this year worth while. I did not buy them entirely for scientific reasons, mostly for charity reasons. I feel sorry for the old cuss but I am now thru with him. The book done I will not have any use for his weeds.

I am sorry to both you with this stuff and I do so only to make the Carex job as complete as possible. He has *Carex typhinoides* which is a northern record in Ind.

Must go to bed. He wore me out today

Best wishes, I am sincerely yours,

Chas. C. Deam.

Appendix II p. 85 Definitely conserved
'Proposita' p. 118.

Repl. # 11/4/36

STATE OF INDIANA
CONSERVATION DEPARTMENT
DEPARTMENT OF PUBLIC WORKS

Board

Governor Paul V. McNutt
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INDIANAPOLIS

Bluffton, Ind.
Oct. 27 1936

Administrative Officer
V. M. Simmons

Dear Hermann: Just opened your Pandora box of troubles and I am going to get it back to you at once.

p. 132 As to *Epipactis* and *Goodyeara* they are both on *nomen conservandi* and I am using them. My Assistant got thru changing *Eleocharis* to *Heleocharis*. My objection to *Heleocharis* is that no American author of later years has used it. Our old Manuals will be the "bottles" on which users of our new manuals have been fed. If we can continue without change the better. But why a rule if you do not follow it. On the other hand damn the rules.

I have changed the *Silene stellata* var. as you inform me. The species is rare in Ind. I have it from ^{for me} Om, the most northern, Sullivan, Posey, Vanderburg and Warrick. It is strictly a southern plant although there is a plant at Purdue U. from Tippecanoe County.

In regard to *Physostegia virginiana* etc. you now have it correct as I understand them.

The *Panicum agrostoides* I now understand and will make the suggested addition soon.

As to *Panicum Wernerii*:

I have but one sheet of the viviparous form of *S. atrovirens*. I send it to you with some other items I have for you, keep all the junk I send you.

Have not looked at the *Scirpus debilis* mess as yet. I will not for a few weeks if you are in no hurry.

Petersen's Flora of Neb. pub. by author. He seems to be a member of the Bot. Soc. of America and in it his address is N. F. Petersen, Station A, Lincoln Nebr. (Physiology and Genetics). He may have a later ed. out. If so I want one too. Unfortunately I do not have it catalogued so I can tell what it cost. Mine is in cloth.

over

I am glad to get the "low down" on Clausen. May be I can irritate him some a little later. I am glad you turned L.H.^B Bailey down. How long does he expect to live. This reminds me I just got from G.Schmidt a short biography of W.J.Beal of Lansing. I had never heard of it before I saw it listed in his list. We had two other items I wanted badly but they were sold. I was glad to get the Beal item. If you have not read it you will enjoy it

Now as to your criticism on the Ms. rest assured you can not ruffle me. I am too old and still have a little horse sense to measure such. I very greatly appreciate any thing you say. It is usually only one's mother than severely criticize without contempt but sometimes one has a friend who can do the same trick. Sometimes it may be merely a matter of opinion and then it is up to me to choose Now there is no hurry about the Ms. criticism

You say you are slow. Man I do not see how you do half the work you do. I fear you taking too much off your rest period. Do not do this. Read W.J. Beal biography.

Last night temp. down to 23 deg. This was our first killing frost

Glad you will write the Juncaceae for N. Amer. Flora. I know it will be a good job.

Say if you have not read the Pteridophyta lay off and I will send you the original which I have just brought up to date

Well I will now sign off. Standley sent me the mooted specimen on which the record for Ind. of Tradescantia ~~bracteata~~ bracteata rests and I will take that up next. Lyon saw it at Field Museum and he says it is not that species.

Will be glad to hear from any old time

Sincerely yours,

Chas. C. Deam.

I have had an unusual number of visitors (not callers) week end fellers. and tomorrow I have one I do not care for. Chas M. Ek of Kokomo is coming over for at least a day. That time will be wasted I expect. Not very good business pouring your time out on an old man like him or that Old Man Deam.

Memos on list of plants sent in from our last trip

No. *Sagittaria latifolia* var. *obtusa* (Muhl.) Wieg. (Warren County should read Fountain County. When we crossed the bridge we were in Fountain County. The same about the *Napaea dioica*.)

Many thanks for calling my attention to the wrong determination of the Wells County *uniflorus* to *rubellus*. This was sure a boner.

I thought that Benner had published on *Lycopus*. I can not find it. If so please refer me to it and oblige. Benner has described a var. *arkansanus* of *rubellus*, I mean he has so named one of my specimens. I do not know the character but the under surface of the leaves are pubescent. I have I believe two of such from Ind. One from the Posy County, Erwin woods.

Benner's range more southern

Bartonia 16.46-50 ^{47,47-} 1934

~~*St. Louis*~~

Desert (Pasadena) (cont.)

Standley, P. C.

Personal experiences with cacti in Salvador and
Panama. Desert (Pasadena) 8: 99-101. S.1936.
no.9.

Ecol. Monogr. (Durham, N.C.) (410Ec72)

Coile, T. S.

The effect of rainfall and temperature on the
annual radial growth of pine in the southern
United States. Ecol. Monogr. 6: 533-562. O.
1936. no.4.

Flor. Exch. (N.Y.) (80F666)

Van Melle, P. J.

Seeking out the best... 52. *Gentiana gracillipes*
Turrill. Flor. Exch. 87(14): 23,25. illus.
O.3, 1936.

Wyman, D.

What makes autumn colors? Flor. Exch.
87(14): 23,25. illus. O.3, 1936.

Forschungsdienst (Neudamm) (241D48F)

Meyer, H.

Forschungen über die optimale strukturform des
ackerbodens. Forschungsdienst (Neudamm) 2: 236-
245. S.1, 1936. no.5.

Popp, M.

Runkelrüben. Forschungsdienst (Neudamm) 2:
262-267. S.1, 1936. no.5.

Scharrer, K.

Einige wichtige probleme der landwirtschafts-
chemie auf dem gebiete der pflanzenernährung.
Forschungsdienst (Neudamm) 2: 229-235. S.1, 1936.
no.5.

Forstw. Centralbl. (Berlin) (99.8F775)

Hoffman, R.

Versuche zur klärung des keimverlaufs bei der
pappel. Forstw. Centralbl. 58: 573-581. illus.
S.1, 1936. no.17.

STATE OF INDIANA
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Repl. 10/24

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INDIANAPOLIS

Bluffton, Ind.
Oct. 20 1936

Administrative Officer
V. M. Simmons

Dear Hermann:- I have your letter and the box of Ms. I am now going thru it and I think I better follow with a letter to try to get myself out of jail if I can. I find a few of your corrections have already been made in the original. Now as to *Equisetum prealtum* Raf. if you will recall I say in the first that Schaffner has seen and named all my specimens. I do not say I have adopted his nomenclature but that might be inferred. When you hear Schaffner talk he impresses one that he knows his business. I believe he knows *Equisetum* better than any one. I will write him as to the latest on the name of *E. prealtum*. If he still holds to that name, etc. I will let you know what he says about it.

The distinction between "habitat" and "environment" not very clear.

I have just consulted B.D. Jackson on it. I wish the ecologists would begin to define terms.

The "sinkhole" you refer to in Harrison County on the Bocard farm was an artificial pond.

The fruit of *Juniperus virginiana* the worst ever. You guessed it right, my description applied to *Taxus*.

The way I repeat the word "species" shows my limited vocabulary (I mean the number of times I repeat. Doubtless after you have read me a while you can guess pretty correctly what I am trying to say.

In regards to adding the township to section for example in sec. 12 about 3 mi. se. of Tefft, Jasper County. It seems to me this is definite provided my direction and distance are correct. ~~xx~~ the distance would have to be 6 miles more. I admit the township would add definiteness and I will add when I can.

Remember I make no new comb or describe any thing I can avoid. If you wish to reduce *Panicum Wernerii* to a form, go to it.

Many thanks for catching my omission of Fernald's synonyms of *Panicum* sp. "e" may be wrong but doubtless his names will appear in the new Gray Man.

Well it is now 5,30 P.M. Wednesday and I still have time to write a note and get into the mail before 6,00 P.M.

Say Hermann I never appreciated how dam little I knew until I read your notes and too I believe you have been extremely lenient because you have treated my like a treat some lesser lights, sometimes the stuff is so dam bad it is uselgss to try to doctor it up.

"ell I have decided if it is possible for you to read the remainder of the Ms. I want you to do so. Now you must not take you time doing this job for nothing. You keep tab on the hours you put in and learn from some source what the charge for such jobs are and then make me out a bill for the job. You can make in piece meal bills or all in one. I do not know just how such work is charged but I presume by the hour would be better than per page. You do as you like.

The Pteridophytes has not been completed. Tryon will be down Sunday and then he and I will go ober that Botrychium business and try to figure out what I have. Too I have not yet changed the names to the new ones as per Weatherby. "hen I get it in I will send it to you.

I am just mentaly exhausted. I am beginning to appreciate my senility more and more and soon will be incapacitated to any work worth while.

Now in your criticisms do not spare me a bit. I am a good soildier and I can take a "beatin " like a man should so just help yourself.

I write you aboyt the Ganpahlium Macounii Greene.

Please let me know what Weatherby says about Stenophyllus. Now as to adopting names on the proposed list. I do not believe it wise to do so even if we are moderwtely sure they willgo thru. I wish to say in the intrôduction I have adopted the Int. Rules, etc.

Thanks for calling my attention to Echinocystis. Will look this up.

As to Lactuca villosa & floridana. Just got a letter from Stebbins and he says that he does not believe they are separate. "e also says Blake regards them as one. They are not one but floridana my be only a form. Stebbins says the name should go to floridana .

Must close and beat it. Sincerely yours, Chas.C. Deam

Cook and I drove 292 miles about 10 days ago and saw a Sagittaria but plenty of Peltandra. I had not thought of this taking things but I guess you are right about it

STATE OF INDIANA
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Repl. 10/24

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INDIANAPOLIS

Bluffton, Ind.
Oct. 16 1936

Administrative Officer
V. M. Simmons

Dear Hermann: I wrote you a note this morning telling you I would write you next week. Well I finished the Physalis this eve and I still have time to write you, "eventually, why not now". Say I include my key to Physalis. If you have time and are so inclined I wish you would try it out on your Physalis. Physalis is a much neglected genus, at least it was with me because I could never make em out. Last winter I went over the Physalis at the Mo. Bot. Gard. They are now just as the old fellows named em when collected. I did not have the present key. I was trying to make out just what P. lanceolata was. "ell in their lot of plants one can do no good because in the same cover you may have any species in the same cover. I am anxious to learn what you think of my key. I spent quite a lot of time on this genus about a year ago. At that time I said lay away until after this year's collecting but as is usual the case I got little additional data. I was anxious to study the coloration of the stamens and filaments. I was curious to learn if the color pattern for a species was a real character or not. As I take there is a very decided character in stamen length but the color I am not sure of as yet. The dilated filaments are quite characteristic of the two species, P. ambigua and heterophylla. You will not I ~~gave~~ gave the fruiting capsule little attention I can not make much out of them in the dried state. Pubescence on them is far too variable to make a character on surface or on stigmatic lines. The recurving corolla limb may be good for live plants but is hard to determine in dried material. I did not mention it but when you see the anthers exposed in dried flowers you have had a recurved corolla. Well give me hell in the key if it deserves it. Thanks.

Gnaphalium Macounii Greene is a synonym of *G. decurrens* Gray says "clammy pubescent. It is densely glandular pubescent, better phraseology. OVER

See House, Flora N.Y., page 720. If you wish the original description I will copy it for you. I have the Ottawa Nat. complete with all the trimmings

Well I ~~plan~~ plan after Helianthus is done to go over Sagittaria again. I think *S. latifolia* var. *obtusa* (Muhl) Wieg. should go as in Gray's Man. as forma *obtusa* (Muhl.) Rob. What do you think about it. When you consider the extreme variability of the leaves, *s. lat. forma gracilis*, it is going too strong to say var. *obtusa*. I know Wiegand thought he had something in the inflorescence but I doubt it. I am beginning to think those Coastal Plain and Appalachian botanists should make a trip out thru the Miss. Valley.

Yes you left the box of specimens near the car. but Mrs. Deam toted it in I shall be very glad to send you all my *Scirpus debilis* and *Smithii* if you will go over em. I have referred all I have collected to *S. Smithii*. Umbach collected one at Dune Park, Porter County I am referring to *S. debilis*.

I am wondering what you think of our Coastal Plants in Ind. after the collecting you did in the Game Preserve. Do you think they got there via the Great Lakes highway or up the Miss. Valley? via Kankakee River. Remember there is quite a barrier to the north in the Valpo Coraine but they may reached the Kankakee R. basin farther west and came up. Now what we very much need is some critical collecting in Illinois along the Illinois River, etc. A few years ago while over in Ill, I found *Paspalum floridanum*, a far northern extension of the range. Hitchcock does not give it in his Manual but he named my plant for me. Lord why those darn Chicago Profs must go out to the West Coast to study botany. They have the key to some good distribution. Once I had planning to go with Weatherwax and follow the Illinois River. If I am alive and can get about I guess you and I will have to make that trip next summer. Those ossified Ill. botanists can never do it. I know of no new blood in the bunch. Gleason did some work once.

Many thanks for the Saw Buck. I will try to learn to use it. I do not recall ever seeing them except at Philadelphia.

When I am thru with Helianthus I will give you my usable key, made to cover only Indiana species that Watson had named for me.

Hermann-3

If the bristle business on *Scirpus debilis* and *Smithii* works I would like to use it and give you credit for the discovery. 56,652

Many thanks for calling my attention to omission in general key to *Panicum agrostoides*. I will put it also in the glabrous lead. I note in my new text I have added to the description, page 250, under *P. agrostoides*, after blades, glabrous or scabrous beneath, glabrous, more or less pubescent, or scabrous above. This is a very common species in wet places in the Illinoian drift area

In reagrds to the *Sporobolus cryptandrus* I had wrongly labeled will say my specimen was O.K.. I find I must not trust my mind for a minute any more

As to the crested *Sagittaria brevirostra*, you can name it if you like but not me. I got two plants. I laid one away for the Gray People but I shall be glad to give it you. The plant is to get to and if you wish to wait a year you can. For fear I am not here to tell you, I found on south bank of the Mississinewa River about 2-3 hundred feet east of the bridge about 5 mi. south of Redkey. About 32-33 miles from here. If I am still living next year I will remember it and get it in at least two stages of development. I have pulled the Gray specimen and I will give it to you.

No I have not seen the Winter's Flora of Neb. I will order it at once Petersen's Flora is in the Third Ed. That is what I have, pub. in 1923 I do not know if there is a later ed. or not I met Petersen once and he impressed me as "mine run". Well it is pretty had to do any thing when one is in the "sticks". Expect that is what the Easterners think of me.

In your list you list *Physostegia denticulata*. I am calling this *P. virginiana* and the leafy one *P. speciosum*. I have gone over this several times and except you think you have a hunch on it I will not change it. This is rather a long story. I have the photostat copy of Sweet description and photo of his illustration. If interested I can review the whole thing to you.

8433 Should read *Aster oblongifolius* var. you have it *longifolius*

8443 *Aspedeza striata* should read *L. stipulacea* Maxim. This is the Korean cl clover. You distinguish *L. striata* from *L. stipulacea* as follows:
Pubescence of stems retrorsely appressed. *L. striata*
Pubescence of stems upwardly appressed, *L. stipulacea*.

OVER

Euphorbia dentata. I have just since our return gone over E. dentata and

E. heterophylla. The last is rare in Ind. Our Ind. records are for the hill at the Shawnee where we met the hunters and for Tippecanoe Co. probably along Big Wea cCreek. You will find this species so labeled in many herbaria. The opposite and alternate leaves will not separate satisfactorily. Stems of E. dentata are retrorsely minutely puberulent while those of E.heterophylla are glabrous. Likewise the upper surface of leaves.

var
Name
Determined

8445 Silene stellata, form this is not the variety (puberulent form). The strictly glabrous form is rare in Ind. but I think it occurs where you report it

8491. Weatherby just wrote me he would not use Heleocharis since the name has been referred back to the Committee on nomenclature. Seems to be poor arguement. I now have my Ms. Heleocharis and I plan to let it stick

of course

8499 Lippia lanceolata Michx. Typical. This is surely var. recognita. I have referred all my plants to this var. Am I in error. Surely the Bruce Lake plants have broad leaves.

Guess this is all. This P.M. we have company. It is a raw cloudy day and the Nature Study Clum may not come but I know Potzger will be here O.K.

So I will sign off. In due time I will send you the Sagittaria and the Helianthus when I get em named.

Best wishes, I am sincerely yours,

Chas.C.Deam.

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Recd. 10/24

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DEPARTMENT OF PUBLIC WORKS

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INDIANAPOLIS

Bluffton, Ind.
Oct. 16 1936

Administrative Officer
V. M. Simmons

Dear Hermann:- I have you nice letter and list of plants. I return the stamps as I have plenty.

Thanks for the list of plants and samples of Scirpus. Many thanks for calling my attention to the barbs. Will let you know about these when I find time to get to it. I was to start Helianthus this Monday morn and I will not get to them this week. Tomorrow P.M. have the Ft. Wayne Nature Study Club here, Prof. Potzger for week end, and some forestry students from Taylor University

I have Physalis on table to rework which I will do first. I need more dope on them. I think I will make an artificial key that will make you stand up and take notice. You had better go over it and keep me off the rocks. Just got Rhodora and very hastily went over it. See some Guy has monographed Najas. Dam him. He saw the Najas in the eastern herb. and says he has em all. Najas gracillima occurs as far south in Ind. as Lawrence Co. I thought that Kriebel sent his specimen to Gray. It has been reported for the Lower Wabash Valley. Say I expect I will write this upstart a hell of a letter. Under N. guadalupensis he gives range Mass. N.Y and Queb. to Peru. South Amer. which compare with his map. Do you this man Clausen? Does he needa trimmin.

I do not see where he disposes of Morong's var. robusta of flexilis This is a very distinct thing. I collected it several times this year but have not yet had time to work it. I'll send you some specimens in due time. I will not take this up until I get Helianthus out of way.

I wrote U. of Mich. Librarian next day after you were here and no reply yet. Be good boy and do not work too hard. Will write you next week. Sincerely yours,

Chas. C. Deam.

Memos to Hermann.

Note the change of name of *Iris foliosa* M. & B. to *I. brevicaulis* Raf
in Contr. Gray Herb 94:41. 1936

You will note the Ind. Grass Book that the key says the inflorescence
of *Sporobolus asper* is included. It is in my specimens. You will recall
that we found it fully exerted in the plants on east side of Lake Cicot
and I think elsewhere. I have changed my key to accord with this
observation

Proc. Congr. Intern. Soc. Sugar Cane Techn. (65.9In84)

CONTINUED FROM LAST NUMBER

McClellan, A. P. D.

Streak disease of sugar cane. Proc. Congr. Intern. Soc. Sugar Cane Techn. 5(1935): 812-822. pl. 1936.

MacGibbon, J. M.

Queensland cane variety census 1934. Proc. Congr. Intern. Soc. Sugar Cane Techn. 5(1935): 579-582. 1936.

McIntosh, A. E. S.

Methods of selecting seedlings at the sugar cane breeding station in Barbados. Proc. Congr. Intern. Soc. Sugar Cane Techn. 5(1935): 324-326. 1936.

Mangelsdorf, A. J.

Sugar-cane breeding in Hawaii. Proc. Congr. Intern. Soc. Sugar Cane Techn. 5(1935): 348-356. 1936.

Martin, J. P.

Chlorotic streak disease of sugar cane. Proc. Congr. Intern. Soc. Sugar Cane Techn. 5(1935): 823-828. 1936.

Martin, J. P.

Sugar-cane disease control in Hawaii through the modification of agricultural practices. Proc. Congr. Intern. Soc. Sugar Cane Techn. 5(1935): 205-209. 1936.

Martin, J. P. & Carpenter, C. W.

Testing cane varietics for disease resistance in Hawaii. Proc. Congr. Intern. Soc. Sugar Cane Techn. 5(1935): 519-521. 2 pl. on 1. 1936.

Matz, J.

Relative infectivity of mosaic virus in the different parts of the infected sugar-cane. Proc. Congr. Intern. Soc. Sugar Cane Techn. 5(1935): 799-803. 1936.

Nath, B. V. & Kasinath, S.

The top/bottom ratio method for determining the maturity of sugar cane. Proc. Congr. Intern. Soc. Sugar Cane Techn. 5(1935): 172-169. 1936.

Requested from Fraser

Syntherisma marginatum

Eriochloa punctata

Aristida Fendleriana

A. Wrightii

Sporobolus Texanus

S. asperifolius

Chloris verticillata

Schedonardus paniculatus

Bouteloua hirsuta

B. oligostachya

Diplanthes acuminata

Eragrostis trichodes

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Tripsacum mesochoreum

Froelichia campestris

F. gracilis

TEXAS AGRICULTURAL EXPERIMENT STATION

A. B. CONNER, DIRECTOR

AGRICULTURAL AND MECHANICAL COLLEGE
OF TEXAS

SUBSTATION NO. 14
SONORA, TEXAS

W. H. DAMERON, SUPERINTENDENT
V. L. CORY, RANGE BOTANIST
I. B. BOUGHTON, VETERINARIAN
W. T. HARDY, VETERINARIAN
O. L. CARPENTER, SHEPHERD

Sept. 10/24

October 15, 1936

Dr. F. J. Hermann,
Botanical Garden,
University of Michigan,
Ann Arbor, Michigan

Dear Dr. Hermann:

Under separate cover I am sending you a bundle of duplicate plant material mostly of the Sedge family of my collection last year. If you have the time for determining this material for me, I shall appreciate it very much indeed.

Very truly yours,

V. L. Cory,

V. L. Cory,
Range Botanist.

VLC/wj
encls.

STATE OF INDIANA
CONSERVATION DEPARTMENT
DEPARTMENT OF PUBLIC WORKS

INDIANAPOLIS

Administrative Officer
V. M. Simmons

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Bluffton, Ind.
Tuesday

Dear Hermann: Hope you got home O.K. and are O.K. now. I thought there was grave danger of a feller running around ponds at night looking for frogs. You might get shot or fall in.

I got another shock last night when I tried to determine a *Sagittaria brevirostra* I got. I enclose you some fruit. Please note the widely keeled side. Now what in the L. is one to say about this line on the side .

I just discovered that for some unexplainable reason you left the *Pilea* and the specimens I laid out for you. In the event you did not take something of mine O.K. I thought you took a box out to your car but may be that is another day dream.

I hasten to get those *Pilea* you borrowed back to you
best luck, Sincerely yours Chas. C. Deam.

S. brevirostra f. *lophotocarpa*
schaevium utrinque crista undulata

Memo to Hermann

Moffat (Wisc.)

Repl. 4/6/36

If *Carex retrorsa* from St. Joseph County is something else.
let me know so as to change my record.

Change name on *Deschampsia flexuosa* to *cespitosa*, St. Joseph Co.
Your no. 6572
I have plant from same place and mine is *D. cespitosa*.

Done

Here is my key

Blades flat or folded, stiff; awn included or slightly exerted, straight

D. caespitosa

Blades filiform, flexuous; awns exerted, geniculate, twisted,

excluded from Ind. *D. flexuosa*

Please give us your full name, date and place of birth. We plan
to give list of collected like Pennell did in his monograph
and oblige

Please give me the dope on your 6779. *Hyoscyamus niger*. We will carry
le

it in our excluded list since we have a single station and have no
data if it persists or not. Please give date collected as near
place as you can and oblige.

6779

June 20, 1935
Pebble 2 mi. N. Angola, Steuben Co.

Exp. Stat. Publ.

Cochran, H. L.

The tung-oil tree in Georgia. Georgia Agr.
Exp. Stat. Circ. 108. 8 p. illus. Ap.1936.
(100G29S)

Massachusetts agricultural experiment station.
[Report of the] Department of botany. In
Bull. 327 (Ann. Rep., 1935): 23-28. F.1936.
(100M38H)

A. V. Osmun in charge.

Green, J. R. & Harrington, F. M.

Report on the investigation of phosphorus-
deficient soils, 1935. Montana Agr. Exp. Stat.
Bull. 316. 18 p. illus. Mr.1936. (100M76)

Green, J. R.

A review of the experimental work with phos-
phate in Montana 1928-1935. Montana Agr. Exp.
Stat. Circ. 148. 16 p. illus. Ap.1936. (100M76)

Laurie, A.

Hardy chrysanthemums. Ohio Agr. Exp. Stat.
Bimonth. Bull. 21: 78-79. illus. My./Je.1936.
no.180. (1000h3S)

Korean hybrids.

State Publications

Ball, W.S., Crafts, A.S., Madson, B.A. & Robbins, W.W.

Weed control. California Agr. Ext. Serv.
Circ. 97. 87 p. illus. F.1936. (275.29C12C)

Scott, G. W.

Spinach production in California. California

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INDIANAPOLIS

Bluffton, Ind.

Tuesday A.M. Sept. 20 1936

Administrative Officer

V. M. Simmons

Dear Hermann:-I have your letter of Sunday. ^{his}es wife and I tried n. Ind. but it rained all day. I thought it would clear about noon but it got worse all the time so we got nothing but a "joy" ride.

Sorry to hear about your cold. So far as we are concerned we are bullet proof.

Now I do not wish to monopolize this trip. I see you are much like myself you can always get your money's worth doing any old thing when you are out. Well here is a part of the trip I had outlined if you have no other plans. Go direct to Lake Cicott. Here look for the *Cyperus strigosus multiflorus*; collect *Scirpus debilis*, *Smithii*? or ? *Aristida oligantha*? then on to the Leatherwood farm and then to ^Delphi, Lafayette, and then sw. into the prairie area for *Helianthus* and what nots. I thought we could browse around all day just so we got into Urbana for night. Sat. at U. Herbarium and leave early and get back as far as Kentland and then Sunday botanize back to Bluffton by 3,00 P.M. and half hour of rest and then you on your way home, 168 miles, 5 hours, that is home by 9,00 P.M. Now is this rushing the mourners, if so we can cut Sunday trip short. The trip can be modified to suit you. Better make a list of what you wish to find and may be my memory will serve me well enough to recall some of the places.

As to *Sagittaria* O am going to revise the genus as soon as I get this letter off hands. I will put hip boots on you and take you to the river here and let you study *S. latifolia* ^{not} *abundant* and *S. brevirostra* until you have the two soaked in so you can forget em.

Yes I would bring some of the *Carex* with you which will give you more room but do not pile em up so you can see out back window, safety sake. OVER

No hurry about getting them back. I will probably not look at em until I get this book off hands.

Well I guess I will sign off and let us talk it out. Tomorrow I go to Henry County to be with Kriebel tomorrow. He telephoned me last night to make it Wednesday instead of Tuesday.

Make a list of what you wish to see here in the herb. I would like for you to go over my *Scirpus debilis-mithhi* complex. I think we can easily pick up some at Lake Cicott.

Well aufvedersehen, come as early Thursday as you can. Plenty here to keep us busy. We should start Friday morning early, not later than 8,00 A.M.

Sincerely yours,

Chas. C. Deam

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STATE OF INDIANA
CONSERVATION DEPARTMENT
DEPARTMENT OF PUBLIC WORKS

INDIANAPOLIS

Sept. 28 1936

Administrative Officer
V. M. Simmons

Board

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Virgil M. Simmons
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James D. Adams

Dear Hermann: I have been going over the ~~Pilea~~ ^{3 more} business again. Linnaeus says stem a finger long, with petioles a finger long. I would like to see such and animal. I wish if you have any plants from ne. U.S. or N.E. Canada that you would bring em along with you. Unfortunately I forgot to look at the Pilea ~~at~~ Chicago. We can see those at Urbana but they may not have any. Now I am of the opinion that Linnaeus had P. fontana. I have no idea of the range of P. fontana, Fernald Rhodora 38;170 does not give it. I have a specimen ^{Head!} of Victorin from Quebec and so far as I can see it is just mine run Ind.

P. pumila. Fernald's distinction between P. pumila var. typica and var. Deamii means nothing. Base of blade may be any old thing, No. of teeth also

too variable to make a variety on. Now while here I want you to go over the mess with me and if we have time I would like you to see the colony in St. Joe Co. Think I sent you a specimen about 30 inches long. I sent Gray Herb. my longest one, about a meter long

Here is the dope. You here Thursday, the earlier the better. Friday to Urbana. Now if you can not come write and if too late to write, wire me

Sincerely yours,

Chas. C. Deam

Bluffton, Ind.

STATE OF INDIANA
CONSERVATION DEPARTMENT
DEPARTMENT OF PUBLIC WORKS

Recd. 9/27

Board

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INDIANAPOLIS

Administrative Officer
V. M. Simmons

Friday A.M. Sept. 25 1936

Dear Hermann: Just received your letter and card. I will be all set to go to Urbana Friday morn. You come as early Thursday as you can so you can browse around here. Will go out and get a mat of the *Eragrostis hypnoides* if it is there and it should be cause the habitat is there. *Sure an after you get here*

Now you think hard what you wish to see enroute to Urbana and return. I know the territory so well it will take me only a short time to figure it all out. However if you can let me know in advance some of things on the slate I will have more time to think it over. I really have one objective that is the Leatherwood farm in Carroll County, right on our regular way. I am to go over there and if I can visit on the way by that is all I want. I am most interested in *Helianthus* just now, outside of this I am free for all.

The *Carex pedunculata* card (the printed matter on it, I took a copy of Coulter's ~~list~~ list and put it on each card for the entire Flora. So I had to use two copies of his flora. I would not give this species a second thought. If we have no specimen, just put it in the excluded species, give range and state no specimen. Coulter did not know a *Carex* from a *Cyperus*. Lord the ignorance in taxonomy. Just this morning I received a letter from a Prof. in Bot. specialist in ferns and a specimen of *Azolla* was sent for determination. Also I got another letter this morning. You must read it. Blind Asylum wants a key to distinguish trees, etc. by taste and smell. Can you beat it. Oh, think you had better write C.A. Hottes, who is in charge of the herb at Urbana and tell him we want attention early Sat morn. I will do so if you prefer. He is a fine fellow and has treated me just fine twice before. Just gave me the key and said help yourself. Say am too darn busy

to be sociable. I want to rework Sagittaria today if I can.

Well if you can let me know about what time you plan to arrive here Thursday and what time you ^{must} get arrive at Ann Arbor. How much of Sunday can we have or can you stay longer, If another day we will make it across southern Ind.

Here are best wishes, hoping that I can stand the pressure I am no good any more. Can scarcely walk

Sincerely yours,

Chas. C. eam.

over

Let me know what genera you wish

to see

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CONSERVATION DEPARTMENT
DEPARTMENT OF PUBLIC WORKS

Repl 9/27

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INDIANAPOLIS

Administrative Officer
V. M. Simmons

Bluffton, Ind.
Sept. 23 1936

Dear Hermann:--Your letter of Sept. 21 here O.K. Thanks for the list and other dope. Evidently you got mixed on the duplicates of my Ind. Carex. I ~~did not send~~ ^{sent} you only one sheet, thinking it was not necessary. Well in due time ^{to send all} I will get em named up and I will send you the duplicates.

As to the types going to Gray O.K. That is settled.

As to the items you wish to pick up here, nothing doing. I just got a few duplicates of ^{Scirpus} Sporobolus cryptandrus and I will lay one out for you. You know Hitchcock put S. canavirens into this species. This I think is an error. I only wish I could show you the two plants.

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If you come down I would like to see you to see what are suitable for ^{Lagrange Co and in Elkhart Co} ~~Elkhart and~~ I could meet you at Coldwater Mich and let us have a half day in northern Ind. Of if you must come to Bluffton first we could make it in P.M. from here by a long night drive. Round trip would be about 240 miles. On the trip we could get Aristida intermedia?? and the Sporobolus and may some of the others. Believe we have plenty of Eragrostis hypoides 2 mi. south of town here. ^{pond, dried up}

Got about a dozen Pilea fontana? Sunday for you and the Jap. Know where you can get a cart load. We could get this on n. Ind. trip. About 30 rods from U.S. Road 20

No Carex pauciflora from Ind. at Field Museum. This is certain. Just went over their C. pauciflora

Thanks I have Wampole's Flora Washtenaw Co.

Now about the U. of Ill. trip, I can go any old time but you must be sure to give me notice. Next Sunday I go to n. Ind. (if I have no other date) so be sure to write me in advance or wire me at my expense. I get my mail on rural route at 8,30 A.M. Your letter mailed at Ann Arbor 11,00 P.M. Sept. 21 here this morning. Better ² ~~wife~~ collect the hour you plan to arrive or we set sail and I will have the dock ready OVER

Well the Chicago trip netted me nothing. All of the suspected reports, I found no specimen.

STATE OF INDIANA
CONSERVATION DEPARTMENT

Just read your letter again. You say you might get down here late this week or early next week. Now you suit yourself. Sat. I plan to go to Henry County but that trip can be changed to any old time. If you do not go I will go. Just wire me to stick here. if you come Sat. We could not get in at Urbana on Sunday probably without some previous arrangements. When you know certain when you come and can plan when we will get there, better write them when we will arrive, etc. It will be too late to write from here. My assistant has been off since July but begins next Monday but that cuts no figure. Too the State Forester wants to take me around the State but I give you all inside figures. I am so darn feeble I should not try out any thing but I want to die in the harness. So do not let that bother you.

Guess this is all. If you come down I can gossip then.

Sincerely yours,

Chas. C. Deam.

Digitized by Hunt Institute for Botanical Documentation

If my memory serves me you folks had a surplus of *Eriogonum umbellatus*

I have been trying to get Mrs. Deam get it but she never does. I like it.

If you do have a surplus put in a plant when you come,

Deam

STATE OF INDIANA
CONSERVATION DEPARTMENT
DEPARTMENT OF PUBLIC WORKS

Repl. 7/21

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INDIANAPOLIS

Administrative Officer
V. M. Simmons

Bluffton, Ind.
Sept. 19 1936

Dear Hermann:- Got in from Chicago last night at 9,00 P.M. Still tired. The two boxes here O.K. Find postage 26 cents. I made change on McCoy list as indicated.

I enclose Mrs. Chase to me about Phragmites. Please return sometime. I will stick to the old name.

I have nothing to write. I opened up the Madland Naturalist and I find your Kansas Carex Paper. Have not read it. Also vegetation map of Ind. Have not had time to look it over

"^{had} all Chicago trip netted nothing. I went especially to see if certain records specimens to pack em and found no specimen in any case. So I exclude and say no specimen. ^{While} there I went over their Helianthus. As I understand them at present not 50% named O.K. outside of those named by Watson. Most of em Watson did not try because too meager specimen.

Nieuwland & Lyon found a new species to Ind. and so far as I can learn to the U.S. but doubtless there are straggling records. It is *Sisymbrium Loesselii* L.

I will press for you the ternate Eupatorium. Want the seed to mature. I have nothing to write but wish to keep the slate clean. Tomorrow I go for Helianthus and aquatics. Would you care for specimens of *Sagittaria latifolia* f. *gracilis* and *Sag. brevirostis* (life size ones). Say also I have collected these darn *Rudbeckia* in garden 3 times this year. "I'll have quite a number of duplicates Can you use a set. This *Rudbeckia* business gets me. Most all past flower but I have one old buzzard that has a large ~~to~~ flower ^{at top} ~~out~~ and has several long side branches. Never say a *Rudbeckia* branch like it before or behind. The longer you live the less you know.

Sincerely yours, Chas. C. Deam.

STATE OF INDIANA
CONSERVATION DEPARTMENT
DEPARTMENT OF PUBLIC WORKS

Recd. 9/21

Board

Governor Paul V. McNutt
Lieut.-Gov. Clifford Townsend
Virgil M. Simmons
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INDIANAPOLIS

Bluffton, Ind.
Sept. 15 1936

Administrative Officer
V. M. Simmons

Dear Hermann:- Received your two letters this morning and the lists. Many thanks for them and especially for naming my specimens. Sorry you think so little of my specimens that you kept only a very few. May be I can do better next time. No, when this is published, I am thru.

9,00 A.M. Wednesday: Got box. Find postage 17 cents enclosed.

As to the type you should be entitled to it to do as you like. If I have the disposal I would send it to the Gray Herbarium. Ind. University is no place for a type. Too since Robinson did so much with Eupatoriae the Gray Herb. would be the logical place for it. You make the decision. *Do you want it*

Say here is something to make you scratch your head. I have never to my knowledge or recollection had a Eupatorium serotinum growing here. This year I have not less than three seedlings in our garden. Could they be seedlings of the var. nov. I have no objection to having serotinum growing here so I will assemble the plants this fall. Will let some seed mature of the var. and have Mrs. Deam sow in hot bed. *see what dare they make*

Many thanks for the separate. I have not received my copy of the Mich. Acad. Papers. Have had it paid for over a year.

Many thanks for the lists. Now Mrs. Winch can start to stab maps, etc. We have street Fair here next week and she will not come. They have a Merry go round in front of her room and then begins the cattle barn and cows make noise all night and she does not like the barn yard odor. I had hoped to go around Ind. next week but no word from Wilson yet.

As to the Nieuwland and Just stuff, I am all fed up on such darn carelessness. E. L. Greene told me personally that Nieuwland would never make a botanist because he "was too careless" Greene had him measured O.K. OVER

As you suggest his *Carex pauciflora* has a dubious label. If you include this species I would certainly give all the details under the write up. I see on distribution sheet that Pepon reported it and also Fassett. I will look in the Field Museum tomorrow to see if they have a specimen from Ind. I will see what I can do about this. ^{Maybe} I had better go over to U. of Ill. and see what they have over there. If you can get down here I will take you over there and back, and back to Ann Arbor when I can have the excuse to bring home some of my junk if you are thru with it. The fact you did not find it in the Umbach herb. leads one to believe it is not in Ind. You know I never did much on *Carex* in the dune swamps where this species would be found.

Now as to Just and his Pine and Pine Station, doubtless it is the Pine in Lake County. Now Clarke Street. I tried to get in there two weeks ago but that area is out off by improvements, dredging. You know Just has ^{been} ~~been~~ the U. S. only a few years and he may have thought Pine was in Porter County. Any thing, with Pine to it belongs to Lake County. You know it is very embarrassing and misleading to say you found a thing in Gary. When you say in a city you think of a wail, weed, etc. Gary now occupies about all the area in north Lake County outside of the other incorporated towns. Now the exact citation is difficult. I have just tried to look it up and so near as I can make out the greater part of Gary is in Calumet Township. The town of Pine shown on the 1876 map shows it on the section line. Half in sec. 25 and half in sec. 30. But most of my collecting has been on the west side of the road (sec. 25), although our *Carex Richardsonii* was in sec. 30. Pine was called Stockton in the 1917 Soil Survey Map. It is now the north end of Clarke Street. You have the dope, designate it as you like. Pine Station is ^{now} ~~no longer~~ only a telegraph office on the B. & O. Ry.

Webster's Crossing is just west of Notre Dame. There used to be a traction line north from South Bend the I. I. I. which they called the 3-I's. Lakeville is in St. Joseph County about 10 mi. s. of South Bend. Hudson Lake is in the ne. corner of La Porte County; Baileytown is in Porter County, no such place now, ^{only a strip on Truchin Ln} It is in sec. 28 about 2 mi. nw. of Porter, in some writings (early) called Port Chester.

hermann-3

Say it was Hell to wade thru the McCoy stuff, etc. Your only satisfaction is that you can say so far as you know you have seen all Ind. material. "When the maps are finally all stabbed up they will give other states something to shoot at.

Will look after the EK C. brachyglossa. Ek told me he would collect Carex this year. I have a long letter here now from him. He can do me little good and I can do him none except entertain. He probably would send on his Carex which would not be a dozen sheets and then I would pay him 5 cents a sheet and just the worst mind run stuff such as C. blanda, etc.

Do you want some more of the Eupatorium var. nov. I have several and will make several more when I come home. The heads are not quite mature yet. I want specimen to show mature achenes. How about the one with ternate leaves

As to the selection of names for the hybrids call em any ¹think you like from skillet handle up.-

"My Mineral Springs" I note in both places you write before Mineral two letters look like my. I have no idea what they stand for. Mineral Springs is a

station stop along the South Shore Traction Line. It is 1 mi. north and 1 mi. west of Porter. The Tamarack ~~stop~~ ^{is} just west of the section line (Mineral Springs Stop) and about 2/5 mi. north of the traction line Ry. The real swamp would be about 2 mi. nw. of Porter.

Chain Lakes in just west of Notre Dame a few miles, in St. Joseph County. Chain Lakes is the local name of a string of small lakes and so far as I know there is no such a place although a steam Ry runs thru em as I recall. According to the map there are two small lakes with the section line running thru em. There is a Country Club located there, so named on the map but no Ry stop. The ~~lakes~~ ^{are} in Warren Township, 7 mi. west of South Bend. ^{pass} _{local map}

Keiser Stop on Traction line is now the east line of State Park, Dune State Park, Tamarack stop is between this and Mineral Springs. both in Porter Co. As to the C. scorsa we can put it on itinerary for next year

As to the Juncus dichotomus forget it. Doubtless it ^{is} J. Greenei for which it has twice been named for Ind. Guess I reported it upon the authority of Weathey

Yes I will as soon as I can give you list of herbaria I can send dups. of Eupatorium, Will do this first thing when I get back. Better let me send them to you and (I mean specimens and you give them out. I prefer to do this. I will count what I have and can make. Please do this

send you later

STATE OF INDIANA
CONSERVATION DEPARTMENT
DEPARTMENT OF PUBLIC WORKS

Repl. 9/21

Board

Governor Paul V. McNutt
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INDIANAPOLIS

Bluffton, Ind.
Sept. 11 1936

Administrative Officer
V. M. Simmons

Dear Hermann:--I have your letter of Sept. 9 and I am glad to know you are on Carex. Now as to the Vermillion Carex will ~~xxx~~ say that the plants I got this year are from the same place I got them on the first picking. That is if I can recall correctly and I am almost positive. So I must have been mistaken in my distance on the first trip. So I believe it best to change the data on the first label to read as my last label. I usually have good mental pictures of collecting places and this one this year tallies in every particular with the first except my label says 3 instead of 5 miles. Yes if I am on the surface and able to travel a trip next Memorial day will suit me fine. Put it on your calendar ^{under}.

Now do not be in any hurry to return me the unmounted plants, except the McCoy stuff. And I know he is in no hurry so let it ride until you have ample time.

Many thanks for the data on the notes about Heleocharis, Phragmites, etc. I will write Mrs. Chase and get her reaction on it. In the Rev. Genera of Grasses it is P. ~~summi~~ communis Trin. Also I will write Weatherby about Heleocharis

You know I very much like your attitude about getting to the bottom of things. Next week I plan to spend Thursday and Friday ^{at} Field Museum to check up some items. I figure a Flora of Ind. to be a "Contrib." should live up to its title and I do not wish to leave a stone unturned.

Well here is my report on trip last Sat, Sun. & Monday ^{WV} to be Ind. for Helianthus. Think I learned a few things but need more dope. Go Sunday to Kosciusko Co. You know about all the difference I can get between Helianthus rigidus? and H. laeteriflorus is that the first has red flowers and the second yellow (tips or lobes of disc flowers) not rays. OVER

Well In Newton County we found *H. rigidus* (which I think I will call *H. scaberrimus*) was frequent in the prairie area. The drought cut its stature but colonies had the red flowers. Colonies always small. We set out to find a colony with red and yellow and finally found one colony with one yellow flower in it. We found no colonies of yellow flowers. Cook and I stodd and looked at the brutes and so far as we could make out they are nigger babies (all look alike). *H. xx altissimus* is a good species. I have it several times. Habitat marl bogs and in arborescent stuff just back of sedge zone. Do you care for a set of this junk. You know *Helianthus* are not plants, they are just outlaws.

I am trying to introduce all species and forms into cultivation. I now have several species, ^{about 21} good ones such as *H. doronicoides*, *H. laetiflorus* and *H. instabilis*, think you have plenty of the last. Can send you seed or rhizomes. *H. tuberosus* is a liar. I have a large colony here so I dug up about 20 plants to study the tubers and found only one with a few tubers.

So I concluded the dry season went hard with em and they may not set tubers all the time, that is all plants ^{started} have tubers. So when you collect and spy plants with fibrous roots, you may be way off because the plant may not have set tubers. Now in my case we did not leave the tubers in the ground because I was careful about this, dug the ground all out and put in wheel barrow and look the ground over good for tubers. Plants *H. tuberosus* O.K. ^{more} ^{S. Deam}

Well on this trip I found nothing of importance except I did find *Talinum rugospermum* in Newton County, already found there by Miss McKee. We looked our eyes out for the *Triplasis* she found but it eluded us. I crossed Little Monon Ditch in Pulaski County and found *Zannichellia* abundant in it. Do you care for a specimen. Say man last eve I went down to our river here to get some *Sagittaria*. Say you never did see such stuff. Plants very large and 25-35 inches tall. I am collecting a good series and you can ^{have} a set if you care for em. The interesting thing is that I found only *Sagittaria brevirostris* and both rounded and acute leaves, ^{forms} but each form in a colony by itslef.

This P.M. at 4:00 I go again to try to clean up on em. I am signing off.

Best wishes, I am sincerely yours, Chas. C. Deam

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Repl. 9/7/36

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INDIANAPOLIS

Bluffton, Ind.
Sept. 1 1936

Administrative Officer
V. M. Simmons

Dear Hermann:- I have your letter of Aug. 30 and I sure was glad to hear from you. I am sorry you will not be down soon. I was hoping you and I could go over to Urbana. I was out yesterday hunting Helianthus and a nitwit came out of a corn field and hit me broadside, but fortunately not hard enough to upset me, but the garage placed a value of \$45.50 damages on car. Dam fool run out into a country road from a cornfield with an old Chevy and had planned to turn into the road the same way I was going. One of these darn fools who thought no one would be on the road but I was and going about 40 mi. per. The trouble is it did not hurt his car. He run right out of field and hit me broadside, broke running board, bent fenders and mashed doors. Think when he saw me he went to put on brake but put foot on the gas

I have been up against it on Helianthus. Worked 3 weeks trying to put Watson's Monog. and his named specimens I have. Think I have a lot of wrongly named specimens. So I decided to go to the field and try to learn his species and do my own naming. Got no where yesterday, Found the same old things. Sat. Paul Comok (shoffer) and I plan a trip of 2½ days to nw. Ind. for Helianthus and any thing that may show up. They are so bulky I am not collecting duplicates, except it be of some peculiar form.

Well I am glad to get a report on the Miss Banta plant. I will make specimens again this year. The plant is now in flower. No hurry about return of plants. Guess you are always glad to get things out of your road. I have a lot of Helianthus borrowed and I will be glad when I can send them home.

Let me know amount of postage on Notre Dame plants when you send them. Say I sent you two more boxes of Carex, etc today. The real last I have. OVER

Repl. 8/30/36

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INDIANAPOLIS
Bluffton, Ind.
Aug. 8 1936

Administrative Officer
V. M. Simmons

Dear Hermann:- I have your letter of Aug. 6 and I am glad you now again turning the grinstone. Do not kill yourself at the job. Of course it is all right if you kill yourself at my job???? Remember you have a wife and family who may need you.

Now you end your letter by saying I may expect you down. This surely shortens my letter. Why write when you can talk. But when here they will be little ceap talk, All must be investigating, So come right along any old time but do not surprise me. I ^{can} be out, have made arrangements to go. Next week I had planned (state forester) had made it that we go to Steuben County and then to South Bend, etc. for 3 days but then a higher up comes along and says we must all be here next Thursday to attend a big Game Dinner to be served at the C.C. Camp. ^{May} be we can get away early and make the trip any way. I wanted to try for some Pota. and Myriophyllums. Wife and I go tomorrow in Whitley and Noble Cos. to try for them.

Well when you come have a list of things you wish to see and I will offbear so you can get over as many as you can. I do want to rehash that Pilea pumila over with you and maybe Teucrium & Carpinus & var.

Now I have a few items I would like to check up on at Urbana Ill. I hate the expense but if you can spare the time and would like to go I will accommodate you by letting you do the driving and I will pay all your expenses. I do not find any Carex from Ind. in ^{any} a list. Now may be you would like to list their Carex and Juncus (Ind.) Now I think we can make it in a half day. About 200 miles from here, all State Roads. We could leave here in P.M. and get there in the eve and next morning do our work until say 2,00 P. M. and get home that night. OVER

Sarracenia not in index

Phragmites

Helosciaris

This we would have only 1 day hotel and be out really one 1½ days.
What say you?? My memo says look up Sparganium angustifolium. May we
both could pass judgment on it. We might be able to make arrangements
to get in promptly. Trouble is during the summer months most of the
so called botanists are out in the shade. Now if this meets your approval
and you wish to write the curator you can do so. I know Hottes who is the
nominal head. He let me in before and there was no one around to bother
or check on me. Only thing is to arrange in advance to get in and where
to find the key or janitor who has been given permission to let us in, etc.

As to the Moffatt C. retrorsa you are the boss and what every you say
goes. May be we might find something among the Hill stuff at U. of Ill.

Now I will not bother you further. I am glad you had such a successful
trip in the north. These trips always amount to more than you at first
thing they do.

Q say: How about the publication of the Eupatorium from Jeff Co. I would
like it published so I can use it. I want to increase the number of my plants
a whole lot.

By the way if you can spare more time down here we will go to
Southern Ind. for a day or two for aquatics. I would like to work Hovey
Lake and sloughs. Think I wrote you about the new Lophocarpus I found.
It is L. spatulatus ^{or} close ally. I sent it to Gray Herb. to name for me
I found it in the artificial bog in Harrison County where we got the
Glyceria acutiflora. May be could fish up more of this. This would make
our trip 300 miles ^{longer} more. Could make it in 3½ or 4 days. No hurry about
this Ill. trip.

Best wishes, I am sincerely yours,

Chas. C. Deam.

Just starting Helianthus, have read the literature, so now the specimens

D.

Repl. 76

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Administrative Officer
V. M. Simmons

Bluffton, Ind.
July 16 1936

Dear Hermann: Long time between drinks. Presume you have landing at Ann Arbor to get "het up". We had an all time record here, -111 deg-
Well I will not bother you with a letter. The enclosed letter is self explanatory. ^{be} May you have a duplicate of *Carex laricina*. If not snip from my specimens and send on to Svenson. Svenson is a fellow you need to keep in touch with.

Hope you had a wonderful trip. I have been naming up the McCoy stuff and have all of my stuff, Dr. Lyon, and McCoy stuff except two boxes I have to go over. ^{ready for you} Then I will send them in. That will end the *Carex* business I guess, at least so far as I now know.

Saturday I go to Lake Cicott, Cass County to meet Friesner and Potzger to botanize. I am going over to collect a foreign *Verbascum phlomoides*. Very bulky animal. Will get some duplicates if the weather has spared them.

Say I include some memos I have made for you at different times.

I have been working like hell but making no progress. This week will end the accessioning of plant records. Then I have some things to rewrite, among which is the *Antennaria*, -due to Fernald's write up of new species *A. munda*, etc. He reduces Greene's *Antennaria calophylla* to a var.

Then I must write *Oenothera*. I have Munz's key now. *Oenothera biennis* and *muricata* now go to other name (4 species)

OVER

Say when are you coming down? Never try to surprise me. I may take a fool notion to go around Ind.

Did I write you I found that my *Sagittaria graminea* I found in the pond in Harrison County, Beaugard's pond?? is a new thing, - *you never show for *Phycaria aculeata**
a Lophocarpus, probably a sp. nov. I want to go down there and see about it. I got it Oct. 6 but I want to try for it in August

Well I have some gossip to relay but if it rots so much the better.

I am sincerely yours,
Chas. C. Deam.

P.S. Do not return the Svenson letter.

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Found to be of the same importance

Repl. 8/6

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INDIANAPOLIS

Bluffton, Ind.
June 21 1938

Administrative Officer
V. M. Simmons

Dear Hermann:-I have your letter of June 16 and I am glad to learn you are having one of the "times" of your life. I well know the whole "affair" is one of hardship but on the other hand it is an opportunity of a life time and a lesson and experience you will not forget and one that few will ever have and in this you will have a treasure few have. Well do I know the days and nights I have fought mosquitos and endured hardships but the net result is I know Ind. as no one knows it botanically and constant association with a species for weeks makes a mental picture of the species that one does not forget so that when I see specimens I can at once distinguish them and it seems rather miraculous to a beginner to see me through out a specimen that is wrongly named, etc. Comes quite natural after a ^{long} ~~long~~ acquaintance with the plants. That is what you are building up, etc. I have just read in the Jour. of the Appalach. Club the comment of a member of the Wheeling "Va. botanical club. He says they have about 50 members, aged from 18-50 and in education from highschool to college graduates but he adds the observation "High school teachers of biology evince no interest in the project". I would say the so called high school teachers are "high jackers" getting the peoples money without returns, in other phraseology "embezzling" in the name of teachers.

Many thanks for the offer for a set of dupliques. I doubt if I can have any thing to offer in return so I must decline. In the event I get out this year I may revise my reply.

I also note your request to get specimens for your Jap friend. I will keep the *Pilea* and *Boehmeria* in mind and if you send him stuff you can add what I ^{may} pick up. I just got back from the Notre Dame trip (Friday

eve. We found nothing exciting up there on Pilea. They do not have a specimen of *P. fontana*. I want you to go over my manuscript of this genus when you have time. I am wondering if you really mean to come down here for a day or two. Not bragging I really do have a good selection of certain plants. Pilea for example. Say again when you talk about specimens you need labels Dam specimens with only Notre Dame on them. You have no habitat. Of course in most instances it is not absolutely necessary but always desired.

Well Dr. Just was not "stringing" you when he told you he did not have all his plants not distributed. He probably has 5-8 thousand not yet distributed. We went thru the whole mess and sorted out the Ind. plants and the Carex. His ^{Ind}Carex was all in among other Carex and Mrs. Winch and he sorted them out while I made critical determinations. I took up there shipping boxes ^{for time} and the plants are now all out and you will get them in a few days. Do not forget to report to me the postage on them (No. I will write Just to report to me and I will sent it to him, so you need not bother).

Now if convenient drop me a card when you arrive and then I will send you the McCoy and Dr. Lyon's Carex. I brought along about 10 large bundles of Dr. Lyon plants he has collected since I saw his herbarium. Doubtless they will have some Carex but I do not know. I hope ere you get home to have the whole mess gone over because I want to get to work on advanced work. Doubtless you will have seen the last number of Rhodora In it Fernald describes a new *Solidago* (*S. Deamii* from the Dunes)

Well I will sign off. Wishing ^{7m} the very best health and luck. I hope you have good companions which is important in such a trip.

I am sincerely yours,

Chas. C. Deam.

P.S. I am still interested in *Ranunculus*. May you can help in working out just what *R. septentrionalis* is and what this *R. caricetorum* is. I am fearful of Fernald's disposition of them. He has had only a few specimens (dead ones) to make conclusions on. May be you will chance upon *Ranunculus* in quantities, etc., keep it in mind. Deam

Regl. 6/16/36

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INDIANAPOLIS

Wednesday eve, June 3, 1936

Administrative Officer
V. M. Simmons

Dear Hermann:- Your letter of May 21 was duly received. I have been busy recently. Last week we got the records at Franklin College and finished at Ind. U. Got home late Friday and early Sat. morn Mr. Wilson called for me and we made a hasty trip to Posey County and back Monday P.M. 845 mi. First stop was in Vermillion County for the *Carex varia*. Think it is just typical *varia*. Then to Vigo County to get *Amorpha* and then to Posey Co. to get that *Galium obtusum* with pubescent fruit. Found out that the typical plants have glabrous fruits but that plants can be found with 1,2,3,4, or more hairs on the same plant. That some (very few) have rather pubescent fruits throughout. So there you are for that novelty. This reminds me of my *Podophyllum peltatum* with ~~it~~ maroon fruit. This year I had flowers. The flowers are about 2/3 as large as the normal ones. In fact I neglected to take measurements, fool like. The pedicels are maroon and pubescent. Two of the ovaries have already fallen and the third is about 3/8 inch long and quite warty or wrinkled, I do not know if natural or if it is drying up. Will watch it and when it drops will pickle it in alcohol. Here is a plant that some geneticist should take up. There are about 4 more species, Asiatic and they have red fruit but the U.S. one has yellow. The foliage is strongly suffused with red.

As to the proof reading, many thanks for your offer. This must ride for awhile. My assistant and I may get along O.K. or quit, That remains to be seen.

As to *Scirpus debilis* and *Smithii*, I will make a memo for you to look my plants over.

As to *Ranunculus septentrionalis* I tried to get it at the Old Stand but it was all plowed up. Kriebel was up here and he tells me he has plants that root at the tips and that he will send me some in due time. OVER

Doubtless they are the true *R. septentrionalis*. Next week we go to Notre Dame and I will look at the type. of *R. caracstorum*.

As to *Myosotis micrantha* will say we have it from Lagrange, Parke and Owen counties. I am getting too feeble to get out. Sunday I walked a mile and I am not over it yet. My asthma is about to get me. Right at this minute I can scarcely write. All I ask is to finish the Flora.

As to *Antennaria* I leave them alone because I do not know them. I used Wiegand's Key and gave him credit for it. *A. fallax* and *Parlinii* are sometimes quite close here. I mean as to red glands to separate them.

Yes I want you to see my *Pilea*

Fernald's *Anemone quinquefolia* var. *interior* is O.K. I guess. We do not have it. Turn this around. We have no glabrous material (var. *typica*).

Now I have nothing in particular to write. Shall I send on the *Carex* varia? ^{for *Vernonia* Co} Also I did collect a few numbers of *Carex* and I think I have some of the McCoy plants. Can you take time to determine them for the records?? Now we will be at Notre Dame all of next week. So I can not send any thing until about June 15-16. I can send you the stuff I have and what I send of my own, probably 4 numbers, you can keep all if I already have them from that county. I saw plenty of *Carex* but I was too tired to collect. I did get a flowering specimen of *Glyceria septentrionalis* in the Nolta Erwin woods in "Scuffle Pond". Just learned its name. No signs of *Hottonia* there this year. The woods are dry. Saw about the largest snapping turtle in it I ever saw. Had about a half dozen large leeches on it. Did not see a single plant that attracted me. Fact is we were in the woods only a short time. Spent most of my time on the *Galium*.

When I come home I will finish naming up and checking the McCoy collection. I still have 14 large boxes. Most of the Ind. material I can name at sight except certain groups but it takes time. Well here are my best wishes, and if Just has not sent you the *Carex* I will raise hell. I am getting tired of the "boondoggling"

Sincerely yours,

P. S. I will not mention *Carex* or *Juncus* until I am thru or we come to em.

Chas. C. Deam

Deam

STATE OF INDIANA
CONSERVATION DEPARTMENT
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Recd. 5/21

Board
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INDIANAPOLIS
Bluffton, Ind.
May 13 1936

Administrative Officer
V. M. Simmons

Dear Hermann:--Your letter of May 3 was duly received and I would not answer just now but if I do not I may not get to do so for about 2 weeks. Friday I go to Ind. Acad. then company here over Sunday, Prof. Mullendore or Franklin, and Kriebel. Then next Monday morning to Ind. U. and then to Franklin College. Then home

I note what you say about the Potzger "soil survey". It is just a dam outrage that our colleges and "horse sense" do not teach people how to collect. I believe I never miss an Acad. meet that I do not rave em on making specimens you know it all, so it is not necessary to rehearse.

In my job of listing specimens, specimen after specimen have all the leaves pressed in one zone and then the under side always pasted down. The making of such a specimen or its mounting indicts one as who never identifies a specimen. I repeat, dam em.

Now the specimen of Carex verified by me at Butler I never saw. Much to my chagrin and against my wishes, they had a fellow to follow me and stamp the specimens that I passed over as verified by Deam. Many I never put my O.K. on, but the "stamper" did not miss any, that is just what I suspected. Deam is an old plug any how, so it will not matter much

Now while my assistant is not looking, here is a question which I wish you to answer so as not to embarrass you in any way. My assit. is going to leave me next month but will come back to read proof when I need her. Now lately she has become so dam chesty that she seems this book and not be finished without her and a lot of other things. Now to the point I know you are at present buried in work. But my proof will not arrive possibly before winter. Now would it be possible for you to read

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at least the galley proof. You to be paid the customary price for reading it. In this way [^] will get the services of a real botanist and just shut this smart elick up. ,ately I can not do a thing that she does not begin to argue about and it is about to drive me crazy. I want to rid ^{of} entirely of her when she leaves.

Many thanks for the dope on *Scirpus devilis*. I will copy it and file with the specimens and later this fall go over the mess again

Now the McCoy specimens I have. Just received word from McCoy that he sent me his whole herbarium. As soon as I can get to it I will begin to identify it. He informs me that you can keep one of each except where he has only one specimen. I will send them on in due time and do not waste time on junk. Think he has no labels but data on margin of sheet. He wrote me that he would send me blank labels or he would write the labels if I returned him the specimens and then he would return them with labels. You see this is "peanut stand" scope of business.

By the next time, I think I will get it beat into their heads how to act.

Doubtless you have seen how Fernald has broken out again. I have gone over ^h *Aruncus* and it is "*elymus*". I have gone over my *Aruncus* several times. The leaflets vary from glabrate to densely pubescent but the follicles are all the same ^h cylindrical, so I am changing the name to *A. alleghensis* var. *pubescens*. I have no true *A. alleghensis* so I do not know what it looks like.

His *Ranunculus* sept. var. *caricetorum* is very vague. I spent a day on it and I have changed my few *R. septentrionalis* to the var. *caricetorum* and eliminated *R. septentrionalis* from our area. I have a photostat copy of the original description of *R. sept.* I find no character but the length of the beak that holds and it is not any too good. I have *R. sept.* growing here. Hope to collect it and if I do I will get you one of the genuine. The retrorse hairs is the only thing that distinguishes the var. *caricetorum* from *R. sept.* Say I do not know if you would be interested but I wish you could come down ~~some time~~ sometime and go over all of these nuts with me.

May 13

What do you think of Fernald's *Sassafras*? Name probably O.K. but the var. *molle*??? My specimens run from glabrate to densely pubescent. Now veal or beer. Now in *Benzoin aestivale* Palmer & Steyermark describe a variety of *Benzoin* just like this business and I just junked it simply because we have no glabrous plants. Sometimes Fernald pooks at pubescence and then takes it up. At the very best I think to call the pubescent form of *Sassafras*, that is if that is all the difference, a form would be the thing. What do you think about dividing the *sassafras* on the pubescence? If so what the key? Fernald says the more pubescent plants are var. *molle*.

Now I have not yet gone over *Pilea*. Seems that Fernald has found something in establishing the type, *Pilea pumila*, equals *Pilea fontana* I will go over this soon and let you know what I think of this *Deamii* business.

Well Epling sent me back my *Stachys* and with a fine discussion of our species and a key. He made a duplicate of the key and may be you will be interested in his letter and key. If so I can send you the duplicate. Some changes but nothing epoch making. The *Stachys* we got in Clark County he O.K.'s. He had all my specimens

Mackenzie in his Index gives *Carex picta* on page 247. It is not there. What is the page?

Well here is another question on Coastal Plants. Miss Welch found *Utricularia inflata* in Jasper County. I had it in my excluded list until I saw the specimen. I want to try for it this year but probably droughts have killed it off

I am feeling so darn bum I do not know if I can walk the woods any more. Walked about a mile the other day and I was all in.

Be a good boy and do not work too hard. Sincerely yours

Chas. C. Deam.

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Repl. 5/21

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Bluffton, Ind.
Mat 4 1936

Administrative Officer
V. M. Simmons

Dear Hermann:- I have your letter of May 2 and note contents. I have altered your list of Ind. plants to take care of the Scutellaria and Houstonia. Sorry you went to the trouble to dig into this. You know when you are worth a million a few extra dollars do not count for much. That is what wife and my assistant talk. What is the use to kill yourself to get a few more Ind. records. But my idea is I am at the bat now and never again and if I can make a 3-bagger or home run I want to do it. I want to make the next guy work like hell to head ahead of me. Make it so hard that none but past masters will take the trail.

I hope you get the items from Fiedler, why not, only a few fools like you and I abroad.

Will send on the McCoy Carex and the Ek plant in due time.

Say shall I try for more Ind. Carex this year and give you all or give me one of counties I do not have represented. Hard for me to turn em down

I am writing McCoy today and I will write him if he sent you any thing but the two boxed from Butler. Do not believe he did.

Now as to that darn Scirpus debilis-Smithii complex. I worried over that once and my recollection is we had it up before. May you had my specimens but they have no indication that you had. If you will go over em I will send them with the Carex. Now I have gone over my specimens again and I am not yet sure about the two species. No literature so far as I know. Fernald discusses them in Rhodora 3:251-252. 1901. Fassett describes var. levisetus of S. Smithii in Rhodora 23:42.

On other sheet I give you my key which is bum and I will also quote what I say in write up. OVER

* Long, Rhodora

You will note that B. & B. Illus. Flora ed 2 junks *S. Smithii*.

The position of the floral bract and its length, especially the last are variable. Take for example the specimen you have from Jasper County, a large one because of extremely favorable year and habitat, in a sandy roadside ditch. All plants in this ditch were exceptional in size and vigor. Note that the involucral bracts are strictly erect, but plant immature.

The character of divarication may come as plant begins to mature, I do not know. (Was called to dinner and train of thought all shot)

The relative length of bract and the divaricating characters do not seem to work out with my specimens, but probably due to immaturity.

Now as to shape of achene. I fear this will not hold. An examination of a lot of spikes show achenes from plan-convex to unequally convex.

I had hoped to make a study of this problem last fall. The species was common on the shore of Lake Cicott but last year when I went there there were no specimens. Will try again this year if I chance to get there.

Well if you can give me any enlightenment O.K. No I have no *S. debilis* var *Williamsii*. I have a Gray *Gerb. Exsicattae* of both *S. debilis Williamsii* and *Scirpus debilis* and *S. Smithii* var. *setosus* so I should not have any trouble but yet I do. Too much wood in my head.

Sincerely yours,

Chas. C. Deam.

Section of Deam's key to *Scirpus*.

Culms obtusely ~~angled~~ triangular; mature involucreal bract usually divaricate; achenes obovoid, unequally biconvex, about 1.7 mm long, surface black with shallow and irregular pits; bristles longer than the achene. 2. *S. debilis*

Culms etrete; mature involucreal bract always erect; achenes obovoid, plano-convex, 1.5-1.8 mm long, surface black with shallow and irregular pits.

Bristles lacking. 3. *S. Smithii*.

Bristles present, usually 6, sometimes fewer, longer than the achene.

3. *S. Smithii* var. *setosus*.

Write up of *Scirpus Smithii* var. *setosus* Fern.

This variety is difficult to separate from *Scirpus debilis*. In fact, they are combined in Britton & Brown's Ill. Fl. ed. 2. The shape of the stem seems to be the only constant character. The divaricating bract of *Scirpus debilis* is very characteristic but it seems that all plants do not have a divaricating bract. The shape of the achene can not be relied upon since on the same plant one can find plan-convex as well as biconvex achenes.

Is this orthodox, or more literary than factual.?

Repl. 5/21

STATE OF INDIANA
CONSERVATION DEPARTMENT
DEPARTMENT OF PUBLIC WORKS

Board
Governor Paul V. McNutt
Lieut.-Gov. Clifford Townsend
Virgil M. Simmons
Paul Fry
James D. Adams

INDIANAPOLIS
Bluffton, Ind.
May 1 1936

Administrative Officer
V. M. Simmons

Dear Hermann:--I have your letter of Apr. 29 and I hasten to reply because nothing is gained by delay. My assistant went home this eve and I will not see her until Tuesday when we go to ^dePaw to finish listing their plants. Confidentially she gets on my nerves, and I am glad to get away from her. She knows she is ^{going} to quit now and every thing she does "is a hard job" and she wants to ditch things and let me do em after the book is out. "ell I must get along with her because she has too much details in her head to change help now. She for instance when I told her to go over our records and when she found ^{ce} ~~C. arex~~ ^{brivior} var. ~~var.~~ molesta to change it to C. molesta. Then she goes into a fit about one not knowing his mind etc. It galls me but do not let it worry you. I will get along with her to the end, I hope, but if it comes too raw, I will make a short story of it.

Now the first thing I have to say to you is to not be a darn fool. No one can work until 2 ⁴⁴.M. Cut down on your tasks, Finish those irons already hot and let the others ride. For example return the Cyperaceae to Friesner and tell him you are just too busy at present to name em and later you may be able to do so. ^{but release em} Of course he will never send em again. I think McCoy did that job, not understanding what it was all about. You can not offend Friesner. "e is one of the nicest men you have ever met. Enclose 60 cents in postage to return the boxes. I think the Friesner boxes were from McCoy, may be not. I have about 1,000 of McCoys plants here and I plan to go thru as soon as I can. Will have to let it ride 2-3 weeks yet. Will do it at piece meal. You return all plants except the ^{arex} or such as you wish to see. ^{Keepo}

I have your dope on C. molesta and make the changes.

OVER

Now as to the Vermillion County plant I guess I will let it ride until May 30 and take a chance

Thanks for the list of new hybrids. I will look data and see if I can recapture any of em, probably would not recognize em, except I can go to the exact spot again. Glad we agree on naming hybrids. Too the Fernald idea is a splendid one.

I will try for the *Juniperus virginiana* var. *crebra* this year but will probably not get to it. I will keep this thing in mind and collect whenever I can where mature fruit is available.

I have done as you suggest and deleted all the records you mention. *in you had list*
This *Houstonia ciliolata* (of manuals) which I am calling *H. longifolia* and the *H. canadense* which I am excluding on the authority of Standley is surely a "thin ice" problem. I brought home with me from Butler what one would call typical *H. canadense* (except the basal leaves are not ciliate) "all there are just too darn many things to trash out." I worked over a day again on *Pycnanthemum*. Friesner had one specimen and I have two which do not fit *P. pilosa* and come nearest *P. verticillata*. So I just put them in a folder, *Pycnanthemum* undetermined. This genus is badly in need of revision. Undoubtedly my three plants are something new. Heard from Epling and he said he had finished my *Stachys* and was sending them with keys. Then he asked to see my "edeoma." *I sent are 3 and* Did not think they were worth any thought. May be close study will bring out some overlooked characters so that he can make additional segregates.

I pity you for not having so located so you can settle down to business. *Have a herb, instead of a manuscript*

You ask about the dope on *Pilea fontana*. This has been sent. As to *Lactuca Saligna* will say this is a common plant for miles, in sandy railroad ballast and in southern Ind it has become common along roadsides. I will use one of my old maps on which I now have plenty and indicate my Ind. plants and use the back for letter.

For No report the *Muhlenbergia sylvatica* n. *attenuata* (Scribn.) Neumann. I have just looked at my manuscript and I find that Palmer & Steyermark have already made the comb. so that is settled.

Our only report for it is mine.
Blackford County; Deam in Proc. Ind. Acad. ci. 1906:138. 1907. Found along
the Interurban Track just south of Hartford City
So far we have found it in herbaria indicated by letters. Red stars
are my plants but none but the Blackford Co. one reported. My map shows
a migration from the east. Probably often overlooked, although I now
now it in almost any phase.

I have made inquiry about Pepon's specimens but got little satisfaction.
Someone told me he said he had a ^{real} great number, say 10-20 thousand specimens
in his summer home along Lake Mich where the present Dunes Park is located
and he got peeved some way and he burned them all. This is a good story
but it will not stand in court. ^{as} he is my interpretation of this alibi.
A few years ago when he began his flora of Ill. it was known that I was
at work on one in Indiana and he soon found out that future floras
demanded specimens. I razed him about his Dune Flora and I think others
did so, I think he invented this "destruction" story. Entirely too
unreasonable for a learned man to do such a trick. I do not recall I have
ever seen one of his specimens. Earl E. Sheriff would come nearer knowing
about his plants than any one else and I am inclined to think it was
Sheriff who told me. I should have made a record of this gossip. I will
see Dr. Lyon May 15 at Ind. Acad. meet and I will try to think about it and
learn what he knows and if any thing I will record and tip in his Flora
of the Chicago Region. I do not think he has any plants in Field Museum.

Say now any time I can serve you in any way, do not hesitate
Say ~~xxxx~~, when and how did we get acquainted.
Tried to think the other day how I ever got mixed up and it takes little
up with you. It almost seems antiluvian to me now. It helping the guy who

Yes I spent another day on Steironema lanceolatum complex. Have had
to modify my key somewhat and I had 3 specimens from N. Car. which do not
fit very well (veins on sepal lobes of the S. heterophyllum a little too
conspicuous, and the basal or lower leaves but little or not at all
different from the central cauline ones, but plant of dry habitat and
about 10 inches high. The plants are different (guilty but not proven)

If you hear from Dr. Just be sure to write me. I will see him May
15-16. The occasion must determine my line of lingo to that boy. I hope I
make no mistake. Sincerely yours,

Cnas. C. Deam.

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the Interurban Track just south of Hartford City
So far we have found it in herbaria indicated by letters. Red stars
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Sheriff who told me. I should have made a record of this gossip. I will
see Dr. Lyon May 15 at Ind. Acad. meet and I will try to think about it and
learn what he knows and if any thing I will record and tip in his Flora
of the Chicago Region. I do not think he has any plants in Field Museum.

Say now any time I can serve you in any way, do not hesitate
to send out the S.O.S. usually I have my dope at hand and it takes little
effort on my part and I tell you I get pleasure out helping the guy who
needs help and appreciates it.

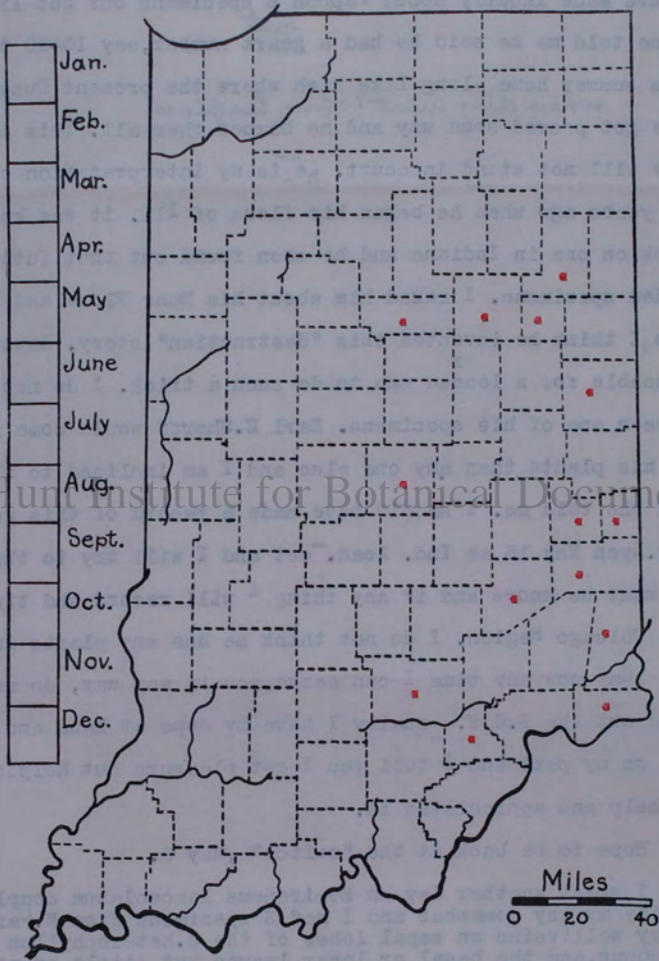
Hope to be back at the "switch", May 9.

Oh yes I spent another day on Steironema lanceolatum complex. Have had
to modify my key somewhat and I had 3 specimens from N. Car. which do not
fit very well (veins on sepal lobes of the S. heterophyllum a little too
conspicuous, and the basal or lower leaves but little or not at all
different from the central cauline ones, but plant of dry habitat and
about 10 inches high. The plants are different (guilty but not proven)

If you hear from Dr. Just be sure to write me. I will see him May
15-16. The occasion must determine my line of lingo to that boy. I hope I
make no mistake. Sincerely yours,

Chas. C. Deam.

Salix
Lactuca Saligna L.



Digitized by Hunt Institute for Botanical Documentation

Apr. 30, 1936

Repl. 5/2/36

PORTER:Lyon in Amer. Midland Nat.12:39. 1930

PORTER:Buhl for Lyon in Chicago Acad. Science Bull.5:7. 1934

INDIANA DUNES:Buhl in Amer. Midland Nat.16:249. 1935. Specimen in Nore Dame

Original description in Amer. Midland Nat.3:7-8. 1913

Dr.Lyon discusses this species and Adicea Deamii in Proc.Ind. Acad. no.37:403-404. 1928

Rydberh made the transfer from Adicea to Pilea in Brittonia 1:86. 1932

Dear Hermann: I have your card relative to *P. fontana*. I use one of my old maps to show the distribution in Ind. as I now have it. Have not gone thru Notre Dame Herb. My opinion is that it may very much more common than reports or specimens show, simply because of its diminutive size. Collectors would not observe it or pass it up as a depauperate plant. When once it is published peoples attention will be called to it and possibly even Fernald will regard, possibly only as an ecological form, etc. I have worked it so much it appears as a real thing to me.

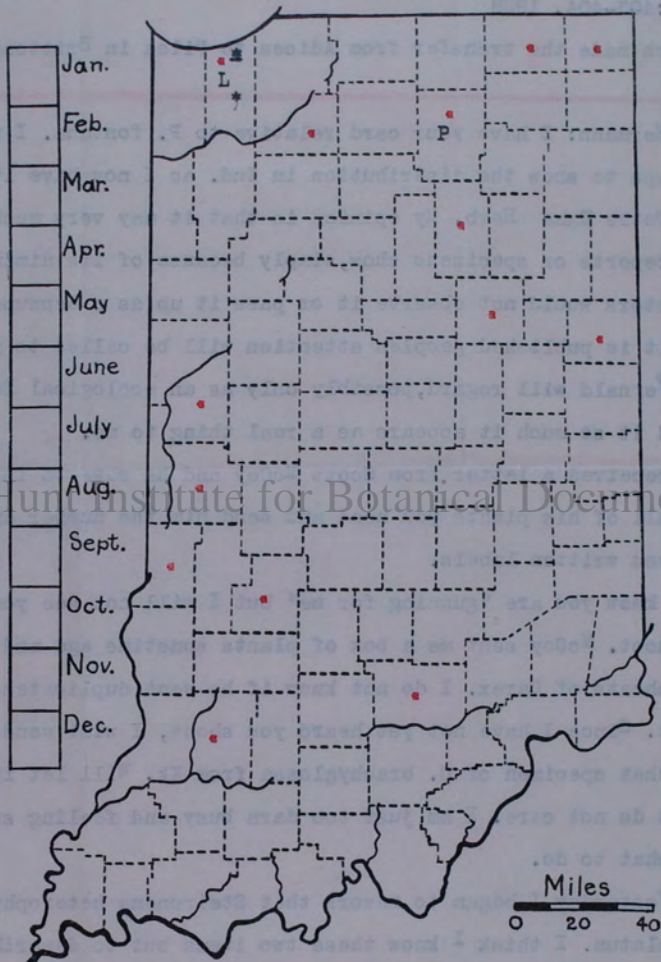
Just received a letter from Scott McCoy and he says to inform you to take all of his plants you need and send him the number and he will then send you written labels.

I know you are "gunning for me" but I will not see you until I hear you shoot. McCoy sent me a box of plants sometime ago and I sorted out ~~about~~ (16) sheets of *Carex*. I do not know if he sent duplicates of these to you or not. Since I have not yet heard you shoot, I will send these to you with that specimen of *C. brachyglossa* from Ek. Will let it ride for sometime if you do not care. I am just too darn busy and feeling so tought I scarcely know what to do.

Yesterday I began to rework that *Steironema heterophylla* and *S. lanceolatum*. I think I know these two items but to describe the differences and to assign a name is another thing. Weatherby suggests that I follow the Gray's Manual which I know has it all balled up. I will not make any new names but I will make new assignments. When you read old authors you find they did not understand. Small in his Flora has me beat. I can not see what he means by his *S. lanceolatum*. Since you have your own troubles and as ^A1 Smith says this is not your baby, I will sign off with best wishes, Ch s.C.Deam.

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Pilea fontana(Lunell)Rydberg... In Indiana.



Digitized by Hunt Institute for Botanical Documentation

Repl. 5/2

STATE OF INDIANA
CONSERVATION DEPARTMENT
DEPARTMENT OF PUBLIC WORKS

Board

Governor Paul V. McNutt
Lieut.-Gov. Clifford Townsend
Virgil M. Simmons
Paul Fry
James D. Adams

INDIANAPOLIS

Bluffton, Ind.
Apr. 28 1936

Administrative Officer

V. M. Simmons

Dear Hermann: Since I raised a rumpus about that *Houstonia lanceolata* I thought I would go over my lot again. Have spent more than a half day and I am just where I started. I sent all my *H. ciliolata* to Standley and he returned them saying all belong to *H. longifolia* but gives certain numbers I can refer to *H. canadense*. Well I studied the lot and could not make out a difference so I scuttled *H. canadense*. Evidently this is a genus that needs critical study. In my *H. purpurea* which is surely a widely varying lot I find one specimen I am tentatively calling *H. lanceolata*. Hope to take it to Chicago with me if I ever get there or I may get done on it before that time that will convince me that it is O.K. Nothing I can find has been written on the genus outside our manuals, By the way Standley says if we wish to recognize *ciliolata* to call it var. *ciliolata* of *canadense*. Rydberg in his *Flora of P. & P.* makes it a synonym and does not account for *H. lanceolata* at all, although its range comes within his book.

Now I have a specimen from low ground 7 mi. west of Mt. Vernon, Posey Co, taken near the River that is different from any other plant I have. This difference tallies with Gray's Manual statement under *H. lanceolata* when it says: Inflorescence very leafy. This is a casual observation that was not translated into a good character. This plant of mine has the upper internodes very short and the leaves are in 4's instead of opposite This is my only specimen with leaves whorled and it otherwise tallies with the species. It was described in Lamarch's Encycloppedia and I am sending for a photostat copy of original description. I have Torrey's *Flora* in which *H. ciliolata* was described. Well in your next letter let me know if your plant has whorled leaves. Sincerely yours, Chas. C. Deam.

Repl. 4/29/36

STATE OF INDIANA
CONSERVATION DEPARTMENT
DEPARTMENT OF PUBLIC WORKS

INDIANAPOLIS

Administrative Officer
V. M. Simmons

Board

Governor Paul V. McNutt
Lieut.-Gov. Clifford Townsend
Virgil M. Simmons
Paul Fry
James D. Adams

April 27 1936

Dear Hermann:--Your letter of Apr. 23 was duly received and also, the two additional slips. From the number of corrections of the Mackenzie determinations it seems as if he was "going some". I do not believe except in very rare cases did he have a plant different from the one I retained. I nearly always divided a clump so no error could occur.

Well we got back from Indpls, and I was nearly dead. While I was there McCoy sent you two boxes. The mounted material belongs to Butler U. and the unmounted to McCoy. You are privileged to take a specimen of each of the McCoy plants. When you return them let me know the postage and I will reimburse you. In all cases the same. Send Just his postage or refer it to me and I will, or you pay and I will pay you. In all cases I want you to break bark even.

Now as to the Claytonia. I have again gone over my plants and I admit that the sepals while in flower are rounded at the apex or only slightly acute but in full fruit the sepal lobes become elongated and "gaping" like *my specimens* in Panicum virgatum. I scarce venture to say how much your plant varies, but it should be followed up.

Now I will look over your letter and answer the items in it.

Now as to the description of the new Eupatorium and new Carex combinations I would send to Rhodora regardless of what Just thinks. First he should appreciate the great favor you do him to go over his plants, etc. The Butler people appreciate the work I have done in going over their Indiana plants. Friesner was more of an amateur 10 years ago than now and I found many things wrongly named, in wrong genus and in wrong family. Think I have them about right now, a few may be off, since I was feeling so bum.

OVER

Digitized by Hunt Institute for Botanical Documentation

of Ind plants

While I think of it on your list is *Juniperus virginiana crebra* from Harrison County. To be frank I studied my plants and decided to pass this up. Do not think it is so hot but hope to get additional material this year. *Crebra* is the plump-leaved (corn fed) plant and the one that seems to have been on "relief" and is attenuated is the southern plant, typical. Now I have plants from Maine, N.H., Mass., Pa., N.J. and from Ga., one from the east coast of Fla. and one from the west coast (St. Petersburg, and all three southern plants have short plump leaves and the pitted stone, better say stones with wide angular depressions. I did not go into this subject very deeply, preferring to wait until I get all the material I can. Small in his *Flora* describes *silicola* Small which may be the ^{as} cotal plain plants I have. All the plants I have, have the pitted seeds. *Custom for Ellhat Co, St. J. R. Has a prominent leaves*

No. I would publish only in *Rhodora* at least for the present. It is botanical and not a "rummage" paper magazine.

Now as to the naming of hybrids. If we follow precedence and common sense I think it best to give the ^m a specific name. Long ago we all know what *Quercus Leana* is. It is much easier for me to recall *Quercus Bushii* than *X Q. marilandica x velutina*. The hybrid is an entity, a concept, and why not accept it as such. True this procedure may reflect upon the trinomial idea yet I think the two things are not comparable. My notion is ^{la} the name them and if possible from some character that can be used in their determination. I am surprised you have found so many new hybrids. Possibly their recognition will simply ^{ify} some of the taxonomic problems.

As to the *Carex* from Vermillion County, May 8. Do you think it worth while to try for it May 30-31. Will it be too late. I go to Posey County on that date to try for the *Galium*. I do not see how I can get there except I make a special trip. May be I can make it on May 18. On that date we go to Bloomington or I could get on way back home on May 24., May 23. Which date the best.

You say the "new *Carex* hybrids" might be worth getting. Wait ones? I know only the one *C. typhina x Shortiana*

Hermann-3

Say you say Steyermark needs" a sermon " on specimen making. Broaden your remark to take em all in. Then poor labels. Nothing but locality and date and often that garbled.

The number of Brittonia, containing the Scleria article costs 50 cents for about 100 pages. I have not yet had time to go over it. We are bedding every effort to list all herbaria now and then no matter what becomes of me the Mrs. can go ahead and stab the maps. We hope to finish the Paw U. next week, then Ind. U. in two weeks, and then for Notre Dame.

As to Core on Scleria will say he has lots to learn, especially in making specimens. Had a lot of em at Butler U.

As to the mounting paper will say I use the same quality and weight they use at Gray Herb. Many years ago I got off brands but never again.

I enclose you the last bill I purchased. You can return in your next letter.

Now as to Just and etc. I hope to see him May 15 at the Ind. Acad. Meet. You know he is to write Chenopodiacea for me. I have always been shy about him coming across with the Ms. on time. I will get onto this all and make arrangements with him to list their plants. If there is too much hesitancy I will pass em up and say damn em. I doubt if what they have will add much because I have about 700 or more from each Lake, Porter, and Laporte Cos. Dr. Lyon has about 900 from Porter and I have a goodly lot from St. Joseph and Elkhart which they have not visted.

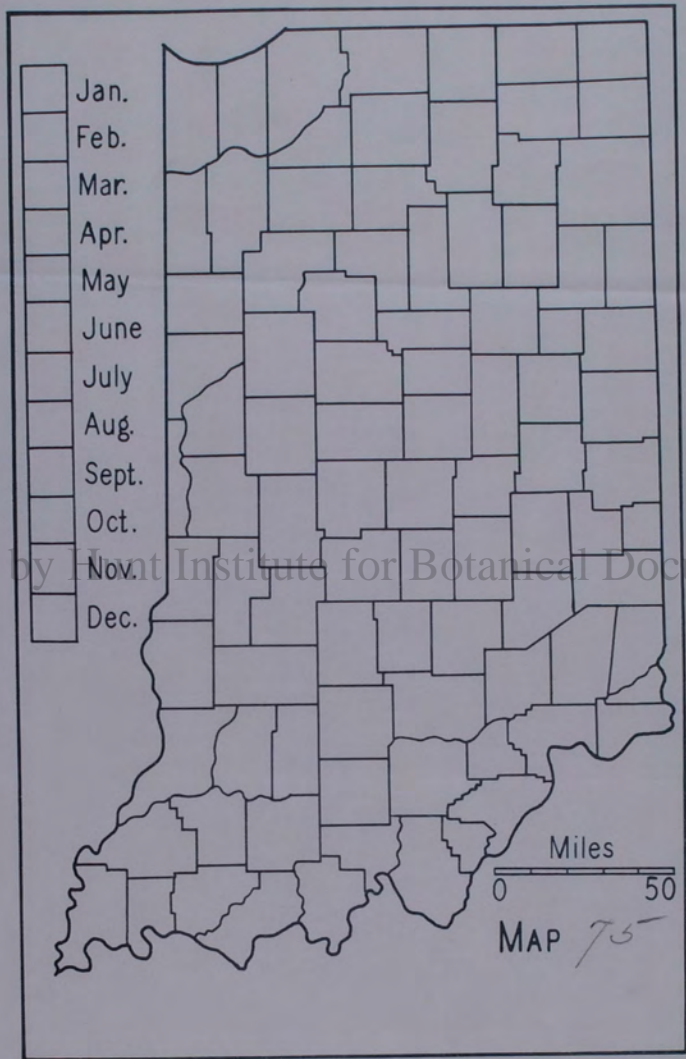
Much obliged for the new Mich records. Will check them against the general distribution and add if agreeable to you

Now I think I have run down. Well be a good boy and work hard but not too hard and save your money to buy books, etc. after you wife has had a new hat not to cost over 25 cents or such amount as she things is necessary

Best wishes to you and I only wish I had you on occasions to make decisions for me on certain critical species, etc. such as that Juniperus crebra. ⁺eucrium canadense var. virg, etc.

I am sincerely yours
Chas. C. Deam.

This is the final map we were one with
today no tonight's Map



Memos to Hermann

You report

6134 *Scutellaria epilobifolium* from Spencer County. Please check this determination. I do not have it south of the Lake Area. Where did you get it?
nervosa Pursh
4 mi N. W. Chasney

6143 *Houstonia lanceolata* Spencer Co

purpurea L. Immatura
This if correct is new to Ind. Where did you get it. This is a very ticklish plant at the best.

Standley has gone over all of my *Houstonia ciliolata* and he says they all belong to *H. longifolia*. I do not believe we have *H. ciliolata* in Ind. If you have Torrey's Flora of New York, 1846? see his figure in it especially if you have the colored plate as I have it.

I note you call your

6703 *Juniperus virg.* var. *crebra* Harrison County, Where did you get it.

I have gone over my plants twice for that variety and I decided we did not have it. Probably I do not understand this var.

Your list includes a lot of the good things found in Ind

In your letter of Apr. 12 you say ^{change} change Friesner's *C. brevior* from Marion County to *C. brevior* var. *molesta* (old *C. molesta*). In the list of the Deam Herb. you list only *C. molesta* Mack. Now question is are you reducing *molesta* ~~Mack~~ Mack. or has it been done. At least who is author of *C. brevior* var. *molesta* (Mack)??? Let us know what name to use (in your next letter)

I think what you call *H. lanceolata* I am putting in as a narrow leaf form of *H. purpurea*. If you consult B. & B. Ill. Fl. you will note there is a good difference in the key but look at figures and read the descriptions of the fruit. Gray's Manual seems to set them off C.R. but I do not have specimens with calyx-lobes 5-9 mm long. I will go over these again tomorrow to check on my work

Deam 56, 652 as Scix Smith setosus is debilis

Proc. Roy. Soc. Ser. B. (cont.)

Caldwell, J.

Factors affecting the formation of local lesions by tobacco mosaic virus. Proc. Roy. Soc. Ser. B, 119: 493-506. pl.13. Mr.2, 1936. no.815.

Leach, W.

Researches on plant respiration. IV. The relation between the respiration in air and in nitrogen of certain seeds during germination. (b). Seeds in which carbohydrates constitute the chief food reserve. Proc. Roy. Soc. Ser. B, 119: 507-521. Mr.2, 1936. no.815.

Thornton, H. G.

The action of sodium nitrate upon the infection of lucerne-root-hairs by nodule bacteria. Proc. Roy. Soc. Ser. B, 119: 474-492. illus., pl. 11-12. Mr.2, 1936. no.815.

Queensl. Agr. Journ. (Brisbane) (23Q33)

Morwood, R. B.

Paspalum ergot. Queensl. Agr. Journ. 45: 146-147. illus. F.1, 1936. no.2.

Stephens, S. E.

The wampee. Queensl. Agr. Journ. 45: 178-180. illus. F.1, 1936. no.2.
Clausena lansium.

Rep. Danish Biol. Stat. (442.9D232)

Blegvad, H.

An epidemic disease of the eel-grass (*Zostera marina* L.) Rep. Danish Biol. Stat. 39: 3-8. illus.(map) 1935.

Due to a fungus, ?*Ophiobolus halimus*.

Petersen, H.E.

Preliminary report on the disease of the eel-grass (*Zostera marina* L.) Rep. Danish Biol. Stat. 40: 1-8. illus. 1935.

Due to a fungus, ?*Ophiobolus halimus*.

[Rep.] Empire Cotton Grow. Corp. (London). (72.9C79Rs)

Progress reports from experiment stations.

[Rep.] Empire Cotton Grow. Corp. 1934/35.
144 p. 1936.

STATE OF INDIANA
CONSERVATION DEPARTMENT
DEPARTMENT OF PUBLIC WORKS

Recd. 4/24

Board

Governor Paul V. McNutt
Lieut.-Gov. Clifford Townsend
Virgil M. Simmons
Paul Fry
James D. Adams

INDIANAPOLIS

Bluffton, Ind.
Apr. 15 1936

Administrative Officer
V. M. Simmons

Dear Hermann: I have your letter of Apr. 12 1936. Many thanks.

Just investigated and I do not find a list of Carex or Juncus from Notre Dame. Did Just ever send them to you. Wish you would write for them instead of me. If they do not come across, woe be to em.

Last week at Wabash College and got the whole outfit. Next week to Butler U. and hope to clean up, if not too much Clute talk.

Enclose find the counties for the Greene collection.

Again as to the problem when my accession number covers two species. Give my own specimen an A and let the other have the original number.

I have written McCoy to get his stuff off to you as soon as possible. ~~Here is the way but at Butler U. Clute is the Curator, like the old curator who kept hotel. Scott McCoy does all the work and is constantly working on it~~ Friesner but in any old time but prefers to keep out as much as possibly to save friction. Clute on the one side and Friesner and Potzger and McCoy on the other are just like cats and dogs. Friesner, Potzger and McCoy are just like one, get along fine and are O.K. So when I go down next week I think I will ask McCoy to pull the Friesner specimen and put it in with his and had him all the corrections and let him make them without Clute ever knowing it. I do not know what in the ell you call it when a very small body has a very wide orb. Well that is Clute.

This reminds me. Sometime ago you thought a Carex I got in Vermillion County north of Clinton about May 8? you thought should be sought again. If you think there is any possibility of it being worth while I will do my best to try rediscover it

Thanks for calling my attention to the Claytonia carolina. I will go over my specimens again. I have material outside our range for comparison. If I find any I think should go to that species I will inform you before I close this letter. open

In regards to vars. of *Osmorrhiza longistylis* will say I have divided them but probably some would prefer to lump them. Think it is best to separate them. I give you my key which probably carries the important distinctions.

Stems glabrous or the upper part with some pubescence . *O. longistylis*

Stems ~~glabrous~~ villous with hairs ~~xxxxix~~ about 1 mm. long.

O. longistylis var. *villicaulis*.

Stems puberulent with hairs mostly 0.3-0.4 mm long. *O. long.* v. *brachycoma*.

The first two probably throughout the state. The last I have only one specimen in a woods about 12 mi. ne. of Indpls. Of the first I have 22 specimens of the second I have 13 specimens

Let us try to keep the location of the maps in the Flora in mind when you get down here?

There is some advantage in learning the counties of Ind. In the event you must change occupations you would be qualified for railroad mail clerk you could throw the mail O.K.

You remind me of poor specimens again. Collectors leave behind them

specimens, a monument to the extent they worked along that line and the

quality of work done. I swore all last week at J.M. Coulter. The data on his specimens very inadequate and exchanges he wrote on his Hanover County label and it was hard to tell if from Ind ~~or~~ Pa. or N.Y., Ill. etc. Then his own specimens? What are they, An index of his knowledge of what a specimen should show, or do not give a damn or what. He is like most of the collectors.

Dr. A. Clapp who collected about 1836-40 made good specimens. They have 14,000 specimens at Wabash but I doubt if they have more than 3-4 thousand Ind. specimens. We keep account and in the end we will publish the name of the collectors and the number they collected. Showing em up eh, guess it will turn some of them over in their graves. There can be no kick,--they will get just what is coming to em. Then the idea of showing both sides of leaves and pressing specimens in natural position must be stressed more.

Well I guess I have all the bile out of my system now so I will close and look into that Claytonia business. Sincerely yours

P. Having been feeling very bum, so went to doctor today Chas. C. Deam.
says I am O.K. but getting the "German Goitre" (fat belly)

Well I have spent most of the A.M. and last night in going over my Claytonia again and again I give it up.

According to Small's Flora (new one) we might have the Claytonia media but I doubt the validity of the species. I measure the seed of all my specimens where seed was available and it runs about 2 mm wide except on one which is 1.5 mm wide. This one had the very narrow leaves. Nothing correlates. The calyxes run from 5-11 mm long, rounded to long acute, scarcely acuminate. DeCandolle in his monograph gives a good key to the forms but I can not make any thing out of them. The shape and size of leaf blades is just too diverse to make any thing out of them. See North Amer. Flora 21:297 where Rydbery keys out the species.

Now if you wish to see my material I shall be glad to send it on.

By the way, I just received no. 1 of Vol. 2 of Brittonia in which Core gives us a monograph of Scleria. I have not had time to go over it but must because we have several species in Ind. Think he includes all but such distribution as he gives for Scleria pauciflora irritans: N. Hamp. to Ohio, Mo., Kans., Fla., Tex; Then in citing specimens he cites them from Ohio, Oakland Co, Mich., Indiana Why did he not say N. Hamp. to Mich etc. The reader in citing distribution if he followed his general statement he would omit Mich, which would be an important omission.

I hope Core has done a good piece of work, superficially it looks good.

Deam

P.S. Do not send Just the paper on Eupatorium until you get his Carex and Juncus

Deam

Also reimburse him postage, etc. on the Carex, etc. and report to be so I can pay you. Prepay the return and report to me.

Deam

Reprints from publications not yet rec'd or not available.
Carmin, J.

Algae of Palestinian shores. Reprinted from
Bull. Inst. Oceanograph. (Monaco) as Bull. Independ.
Biol. Lab. Palestine no.16. 7 p. [1934]

Non-current indexing.

Glasnik Bot. Zavoda i Bashte Univ. Beogradu (Bull. Inst. & Jard.
Bot. Univ. Beograd) (Belgrad) 451B412)

Fott, E.

Die Schwebeflora des Ohrid-Sees. Glasnik
Bot. Zavoda i Bashte Univ. Beogradu (Bull. Inst. &
Jard. Bot. Univ. Beograd) 2: 153-175. iv pl. 1933.
no.3.

Gessner, F.

Limnologische untersuchungen am Skadar (Skutari)
-See. Glasnik Bot. Zavoda i Bashte Univ. Beogradu
(Bull. Inst. & Jard. Bot. Univ. Beograd) 3: 56-62.
1934. no.1/2.

Glišić, L.

Cytological observations on a Salvia-hybrid.
Glasnik Bot. Zavoda i Bashte Univ. Beogradu (Bull.
Inst. & Jard. Bot. Univ. Beograd) 3: 1-17. pl. i-
iii. 1934. no.1/2.

Glišić, L.

Professeur Nédeljko Košanin. In memoriam.
Glasnik Bot. Zavoda i Bashte Univ. Beogradu (Bull.
Inst. & Jard. Bot. Univ. Beograd) 3: i-x. port.
1934. no.1/2.

Liste des travaux scientifiques de Kosanin:
p.ix-x. French.

Glišić, L.

Zur kenntnis der samenentwicklung der gesneria-
ceen. Ueber die endosperm- und haustorienbildung
von Roettlera. Glasnik Bot. Zavoda i Bashte Univ.
Beogradu (Bull. Inst. & Jard. Bot. Univ. Beograd)
3: 94-111. illus., pl.iv. 1934. no.1/2.

Jakovljević, S. J.

Ueber die temperatur- und vegetationsverhält-
nisse der insel "Sveti Petar" im Prespasee.
Glasnik Bot. Zavoda i Bashte Univ. Beogradu (Bull.
Inst. & Jard. Bot. Univ. Beograd) 2: 183-188.
1933. no.3.

Reply 4/12

STATE OF INDIANA
CONSERVATION DEPARTMENT
DEPARTMENT OF PUBLIC WORKS

Claytonia
Dunrobinia long.
Mixed collections
Administrative Officer
V. M. Simmons

INDIANAPOLIS

Apr. 3 1936

Board

Governor Paul V. McNutt
Lieut.-Gov. Clifford Townsend
Virgil M. Simmons
Paul Fry
James D. Adams

Dear Hermann: Your letter of Apr. 1 here and I hasten to reply.
In regard to immature specimens and others of which the determination is in any way in doubt discard them with a feeling of religious duty. I say damn an immature specimens of any kind. The Butler U. herbarium is a real kindergarten. They are putting me on the "spot" at Butler. They have a man to follow me and are stamping all specimens, Determination O.K., specimen seen by Deam. But I put a question mark on the sheet and then they lay off the stamping and I tell you I mark a good and plenty of em. Too in many cases when they collect a plant they may collect a half dozen and mount them all, species and specimens of just any old thing. They have about 30,000 now and I am sure if I owned it I would reduce it to below 20,000. Now please go to the limit is junking my poor specimens. I am so doing with all of my stuff.

Thanks for the McKee list. I would not insisted on you listing the Carex and Juncus but Miss McKee is now preparing it to present to DePauw University so it will have a perpetuity. I do not know if you kept a duplicate or not but Carex no. 23 reads Carex scorpia. This is new to me. You list scoparia. Will you let me know about this and oblige.

OK. By the way her list being from a perimeter county has some good items in it such as Carex cristatella, molesta, Muhlenbergii, and Sprengelii. Too the Juncus Greenii and J. macer f. Williamsii

Now I am up to another such a mess. Scott McCoy of Indpls has a herbarium, unmounted. I suspect of probably 1,000 plants. He wants me to go over them, They are mostly from Knox and Sullivan counties. By the way he makes real good specimens, next to Kriebel, not so ample as Kriebel who sort of overdoes like I do. OVER

Butler Conservation Dept

Can you take the time to go over McCoy's stuff for a set of specimens. That is he would send you all and you keep out the one you prefer. It would not be safe to report upon a duplicate he has. You let me know about this and I will be down to Butler U. the week of Apr. 20- Doubtless ^{the} McCoy herb. will go to Butler in the long run since McCoy is now an assistant there now in botany. McCoy was a banker, or rather was employed in a loan shark office and he was let out because he squealed on the President how he was robbing the people, etc. McCoy is a sincere Christian and he let a few of his friends know how the President was robbing, drinking and running with women. So he ^{became} was a white-collared out of a job so he is now taking a "course" in botany at Butler and teaching elementary botany. If you can take the time to name his stuff let me know and I will have him send it right on.

Yes we received several sheets of my specimens. (I mean list of names)

wick, mass
The Mrs. left at noon for Chicago for week end. She has the stamming practice up to date. She still has the names you last sent me to do. She finished the Butler ones yesterday.

By the way Weatherwax and I had a conference a few weeks ago and we decided to change the map. It is now being made. It will be a duplicate of the zone I enclose except it will have solid lines, "thermometer" will be shorter, the scale moved up so the number of map will go on the cut. I enclose you a sample Weatherwax made, photo very poor but it will come out O.K. He has a scheme for hand lettering and he is to do the lettering which will be much better than typing. ^{see photo enclosed} Now comes a question I have not yet discussed with Weatherwax. We talked it over as putting three maps in a row on a 5 inch mat, This will slightly reduce the maps I enclose. Now I have been think this matter over and I believe the maps will look better on the outer border and that will leave the text continuous. Of course in some instance there will not be enough margin to absorb all the maps when it might be necessary to to put a strip across the page in addition. Then the maps would appear like in Coste's Flora of France which I like.

Hermann-³/~~2~~. What do you think about it.

As to ~~xx~~ state maps with county names on them, will say I have none and I doubt if we have a map any longer, since the office was moved. I enclose you an old one which keep. I had these made 20 years ago. Now I had 2500 maps made like the one I enclose and I shall be glad to send you gratis all you can use since we will use the new maps when they come. Guess you can soon learn our counties. I know them so well that it seems as if one should get it in a few hours but I know Dean Coulter who has worked in Ind. all his life does not yet know them. My Assist. knows em O.K.

As to the Robbins book, will say I loaned my copy to Weatherwax when he was here and I have only hastily glanced at it and it seemed to me to contain a lot of the things that a student of botany should get out of a course. The errors you point are of the first magnitude. I suggest that you in a friendly way write them about it. Such letters often establish good friendships. If he objects you are warned to lay off him for ever. Dam a man who

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can not take criticism. But if he can not take criticism he is not a man who can be trusted.

No hurry about getting my lists to me since we are out next week, and the Mrs. is always anxious to finish what she has taken up. Home one week, and then to Butler to finish up if possible. W.N. Clute bothers us so much. He is a queer animal, I think I know him but I can not describe him. If you never get acquainted with him, you lose nothing (confidential). We want to work away from home a week and home a week to catch up with correspondence, etc. and then a week away. This collecting the data at the other herbaria is much greater than I had thought it would be. Butler U. has 30,000 sheets. Wabash has promised to isolate all sheets except those that occur in Ind. That is put exotics in a different cover. This will greatly facilitate things. Butler has attempted to do so but things are so badly mixed that I have to go thru all to make sure I miss none. I am possibly too conscientious in getting very Ind. record I can. I feel certain it will be some time before someone else will follow my plan so I want to make a killing while I am at it.

Hermann-4

The sentence you can not interpret in my letter I can not either at present. So pass it up. I think I meant when your assistants made a list of my Carex for them to indicate if you had the same species from the same county. Since you sent me a complete list of all your plants, including Carex at several times, this is not necessary. We already have stabbed all the counties you sent us of your own collecting. Now there may be a slight mix up on account of the immature ones. In the list you send you say immature, etc. Why not take out all immature ones and burn them and for the lists you sent me list those you destroy and I will mark them off the list. Be hard boiled in getting rid of poor specimens.

Use your own collecting for the type of Carex Sartwellii var nov.

As to the Rynchospora filiforme at Butler, I will make the change on the sheets so named, to R. capillacea.

By the way I got 100 plants from Fort Hays Kansas and they are O.K. A few too long but on the whole very satisfactory except the label. The label is a "broadside". For a label to have printed on it habitat, locality, family, etc and then finish with a margin is just too ignorant for discussion. Why not include on label the multiplication table for those who do not know it. I will write em a strong letter on this ^{matter} letter. I probably do not have any friends on my exchange list but may be I can help the cause of botany and that will persist after I wither.

Guess this brings me up to date with you. Best wishes. Do not work too hard. If you get it worked out so you can spend a few days collecting in Ind. let me know and we will outline an itinerary.

I am sincerely yours,

Chas. C. Deam.

Repl. 4/1/36

STATE OF INDIANA
CONSERVATION DEPARTMENT
DEPARTMENT OF PUBLIC WORKS

Board

Governor Paul V. McNutt
Lieut.-Gov. Clifford Townsend
Virgil M. Simmons
Paul Fry
James D. Adams

INDIANAPOLIS

Administrative Officer
V. M. Simmons

Bluffton, Ind.
March 31 1936

Dear Hermann:- The Trilia here O.K. Thanks.

Say I was down to Butler U. last week listing their plants. Worked hard all week and got only up to Anacardiaceae. I hope to be able to finish in a week. That man Clute talks so much we can not work.

Next week we go to Wahash College.

By the way in the Rynchospora at Butler U. we found a Rynchospora from Failing Lake, Steuben Co. named by you as Rynchospora filiformis I do not find this name. Is it a synonym of R. capillacea. Sorry I did not bring the specimen home with me to examine it closely to learn ^{if} it is

what I am calling R. capillacea. Please give me some light on this subject and oblige

Don't forget to send me a list of the Mc^Kee Carex. At Butler learned of another botanist in Newton County. Do not know how much he has collected but he has a few in Butler. His name is Casper Loughridge. Will look him up.

Guess this is all. Hope you are not as busy as I am. I also hope you are coming along with your work to your satisfaction.

Best wishes, I am sincerely yours,

Chas. C. Deam.

STATE OF INDIANA
CONSERVATION DEPARTMENT
DEPARTMENT OF PUBLIC WORKS

Recd. 4/1/36

Board

Governor Paul V. McNutt
Lieut.-Gov. Clifford Townsend
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James D. Adams

INDIANAPOLIS

March 12 1936

Administrative Officer
V. M. Simmons

Dear Hermann:—^{bed} Last night after going to bed I happen to think in your last letter you asked about the listing of the Deam Carex & Juncus. I should have replied at once but I was just too busy with the McKee stuff to think of any thing else. I finished last night at 9,30 P.M. Had some good records in it. That is the map (perimeter) will show some good marks on our prairie border. While the county is essentially a prairie county, she has done most of her work along the I^ondquois River which is a very narrow strip across the southern end of the county

Thanks for the Latin description of the Acer nigrum forma.

Say man you must just "pipe" down on so much work. Do not take on another load until you get out from under some of the burdens you are carrying. Outsiders do not know what a task and responsibility you have in Carex and Juncus. Of course we all want the most perfect job you can give us and too it is your first important Paper and it is hoped it will stand for ever.

I note that you are turning up new things in Carex.

The C. Sartwellii collected in the marsh in Lake County, we were there together, surprising we did not see it.

Now as to the lists of Carex for Ind. your scheme is admirable and you just send on the lists or slips and we can stab them and return them at once, But would like to have old name you change name if convenient.

I am sorry you can not take a Carex hunt. By the way this week Gene Wilson of our Dept. came and he is glad to take me to Posey County the last of May for the Galium. So in the meantime if you will OVER

accept additional Carex let me know where you wish me to go. I do not wish to crowd the mourners but on this trip if I can pick up some more Carex with the hopes of adding stabs I would like to do so. I would collect only two sheets, one for you and one for me. By the way I will want a list of all of your Ind. plants so they can be stabbed. When the Carex come have the "boys" to indicate if you also have the species or have them make a separate list. Nice if you could have a separate list for your own convenience.

Note that Fassett has reduced Gleditsia inermis to a forma, while I am trying to make a perfectly good species out of it. What in the ^L does Fassett know about this variety. I called Palmer's attention to the specimens I took last fall. Pod quite different from the typical pods in having dry interior of pod, narrower, smaller seeds and I plan to do my darndest to ^{collect} flowers from it this year and compare with those of the species. I am of the opinion that Fassett is in for a pinching. No rush to dispose of this to him ^{was} until it is studied.

No I do not have Kuhnendahl's work. It seems to me I have seen it advertised for about 10-15 dollars.

Guess this is all. I am out of "gas" and must lie down. In the morning still I have to lie down oft and on until noon. Tell you I am about all in.

Today I plan to overhaul Agrimonia. I find my key will not work well. I must pioneer in this case.

Glad to learn you and Gleason have hooked up together. Fine for you. Of course you will consult Fernald and get permission to work the Kewancee area.

Say a week or so ago I went over the Glyceria septentrionalis and put the dope in an envelope and forgot it.

Here are my best wishes, I am sincerely yours,

Chas. C. Deam.

Repl. 3/7/36

STATE OF INDIANA
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Virgil M. Simmons
Paul Fry
James D. Adams

INDIANAPOLIS

Bluffton, Ind.
Feb. 27 1936

Administrative Officer
V. M. Simmons

Take

Dear Hermann:- Will this eve after supper to answer a few letters I have here. I have just finished Potamogeton and I now will clean up some items. My assistant does not have var. separated from species (bone head) but we now have 2143 sp. & vars. written. We have excluded 585. I estimate of those written 20-25% are exotics. We still have to write Heuchera; Solidago, Helianthus, Uenothers 2 sp. Carex & Junci, Chenopodiaceae, Lemnaceae. The three last are farmed out. I think our Flora will exceed that of Mo.

Now I will take up your letters after I remark the river is up and all our field with 1/2 inch ice and freezing and water receding which means that the ice will mash my little trees. If possible I will get a map to go in tomorrow and release those not broken off. About 5 years ago I lost not less than 50 by breaking off.

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Say I wish to describe the pubescent petioled form of Acer nigrum as a new form. "ill you please give it to me in Latin and greatly oblige. My Latin is too rusty to trust myself. This pubescent form is parallel to Acer saccharum var. Schneckii. I have seen specimens from as follows: Glabrous petiole, Que., Maine, southw. to S.C., N.Y., Ohio, Mich, Ky., Tenn, Ill, Minn, and Mo (frequent)
Pubescent petioles: Que, N. Hamp, N. Y. W. Va, Ont., Mich, Ill, Wis, Mo (one) county, Vt.

Oh yes I got 75 sheets from A.O. Stevens from N. Dak. from one of his correspondents. Plants well dried, fairly well made but very inadequate labels He has at least one more set of them

Thanks for your long comment on Comandra. I must leave it as it is, - C. Richardsonii. I feel so bum and I do not know when St. Peter will hand me a periscope and kick me out into celestialspace and say look for Heaven. Got word that one of my good acquaintances, 76 years old fell dead. Wonderful man, self educated, could speak and read 8 languages, took course in genetics and higher mathematics, yet he was a chemist, one our best. OVER

Today I added *Ilex verticillata* var. *padifolia* to my Flora.

Also wrote *Nymphaea tuberosa* and excluded *N. odorata* from Ind. Conard told me at St. Louis this winter that he did not believe *N. odorata* got west of the Appalachian and south of Mich. He makes all of the Iowa *Nymphaea tuberosa*.

"any thanks for the "Suggestions to Authors of the Geol. Survey" Is is fine and has much original stuff in it. I had never heard of it. My assistant is sending for a copy. I see in it that you can buy the U.S. Gov. Printing Office Manual of Style for 20 cents. Every one should have this. I have the complete thing tho.

In regards to the *Glyceria septentrionalis* will say I will get my set and look em over this Sunday.

"ell I think this cleans up on you.

Say I am just like a kid in some ways although I am about to check out. I want to plan summer collecting trips. This year I must stay at home and get this Flora out but too I must get out some if I am able to go or have some one to carry me around. Now I have no trouble of getting guys to go but they will not go to the same places and not botanists. Since you are majoring in Carex, etc. will it be possible for you to get away this Spring to gather Carex etc.

I will try to get the state pay your expenses and mine. If the State will not I will but do not tell Mrs. Deam. If you can go, when. I can go any time After you have studied the genus you will know the vacant spots in the state where more collecting should be done, etc. where we are most likely to find something worth while, etc. I like to go with you because you know plants and any old kind of accommodations will suffice. You are out on a plant hunting expedition and particularly looking for the best hotels and eating places. If you think you can't away, tell me when and if you have any idea the itinerary. May you can not get Carex and will want to go in July or August, O.K. But I have one trip I want to make. I found a *Galium* of the obtusum complex but with pubescent fruit. I found it in the flat woods west of Hovey Lake, Posey County, on May 25. Now we should be there about June 1. Then there is that "freak" *O. varia*? in Vermillion Co, if you still think it is worth while to follow up. I got it about May 5. I presume I have a thousand things to look up for the Flora and I would like to get some of the outstanding items. Well there is plenty of time but I get a kick in planning for hunting plants than operating that periscope for heaven and a harp and palm leaf fan. I know I will make a mess of the later because I never did play a harp or use a fan. It has been suggested that I am booked for a place where I will need a fan and one more resistant than a palm leaf.

Gosh I hope you are progressing O.K. with the Carex-Junci. Do not kill yourself. "ell here are my best wishes, I am sincerely yours,

Say I just got Robbins & Eisenbarger, Practical Problems in Botany, 42⁰⁰ by Jno. Wiley & Sons. Best book on the subject of Botany I have seen. Send for it and look it over. Cha. C. Deam.

You can return it.

Recd. 3/7/36

STATE OF INDIANA
CONSERVATION DEPARTMENT
DEPARTMENT OF PUBLIC WORKS

Board
Governor Paul V. McNutt
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Virgil M. Simmons
Paul Fry
James D. Adams

INDIANAPOLIS
Mch. 3 1936

Administrative Officer
V. M. Simmons

Dear Hermann:- I know the crime is grave and you can shoot me if you think I deserve it. Sending you a big box with Carex and Juncus from Newton County. Miss Madge McKee of Goodland yesterday drove in with all her plants for me to check- These are to appear on our maps as her private herb. I will stab them as ~~Mexex~~ Mk. I have not yet decided upon the characters. Now I know this is some job but I believe it is worth while. You will remember Newton County is part prairie, part that old Bogus Lake Area and Iraguois river runs thru it. Along this river is a narrow strip of mesophytica forest. The rest sand dunes and black and white oak. Miss McKee is a very high grade woman but no botanist. She is a U. of Chic graduate, traveled extensively. She is an old school teacher who had to stay at home and care for her mother until she died and Miss McKee must now be 60 yrs. Old Maids are like mules you can't tell their age.

Now I do not wish to impose a time limit on you but I am to return her specimens Mch 23. That is the day I go to Lafayette and I can take them with me, ^{thus} ~~such~~ save packing and expense. Now she did not say any thing about keeping any specimen, fact is I did not ask her. So if a specimen sticks to your fingers it is up to you and God and if God does not see you, you will be O.K.

I am hoping her work will help out that western border. I do not know how much stuff she has but from the pile here she must have 600 species or more. I am jsut about thru with Eks junk. I hope the McKee material will be better.

Now you can just name em and I will list em or you can make OVER

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a list of em and send me the list. If you send me the list, you might just as well direct the package to her at Goodland she will have something to think about and in that way you will not be rushed to name them. When I get your names I will prepare an entire list of what she has and send it to her. Now in the event she has any thing you wish to see in particular please make a memo and send it to me with date and if we get to the bush we will get to it some way. You know they say life is sweet and bitter. Well her is a bitter dose. I will promise not to duplicate until another opportunity comes along and I must admit I have little resistance along that line.

best wishes, I am sincerely yours,

Chas.C.Deam.

P.S.

Miss Madge Mc^Kee, Goodland, Indiana is her address.

Fred Macgregor
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STATE OF INDIANA
CONSERVATION DEPARTMENT
DEPARTMENT OF PUBLIC WORKS

Repl. 3/7/36

Board

Governor Paul V. McNutt
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Paul Fry
James D. Adams

~~INDIANAPOLIS~~

Administrative Officer
V. M. Simmons

Bluffton, Ind.
Feb. 18 1936

Dear Hermann: I have your letter about Carex, etc. I make haste to get you the berries of the Carex gravida while the lot is being polished in your mind. Wish in your next letter you would inform me if you make change in determination, etc. so I can change label on my sheet.

I note your question on Glyceria septentrionalis. I will as soon as weather moderates get my specimens and look them over. I referred to my grass book and I find my measurements do not tally with yours. I always use the Grass Book because I made the measurements, etc. of every thing that is contained in the book, they are correct so far as I measured but the limits given may not be inclusive.

Say of course you have your troubles but if you wish a real one get into Potamogeton. Except one Section, the whole darn thing is hell. I have just gotten into it but not out of it. I am now in the second week in it. I am now in the wide-leaf forms, thought they would be easy but not so, as yet

Will answer your letter in due time.

Best wishes, I am sincerely yours,

Chas. C. Deam.

Again and I hope for the last time I am milling thru Comandra.

Fernald: Rhodora 7:47-49, tells us what *C. Richardsiana* is and he went over all my plants collected before 1922. I enclose you his letter. You and I collected Comandra this year, June 8 on north border of Graveyard Lake. I have a note saying blades green or possibly slightly glaucous beneath. I labeled my plant *C. umbellata* but I see I have following Fernald in my Ms. and called all plants *C. Richardsiana*. Presume I had better follow him but I do not get his distinction on depth of rhizome. He sent me two plants and the rhizomes match mine. The depth of the rhizome much depends upon character of soil. The glaucousness of leaves seems to make a lineal series in Ind. I have a few orthodox *C. umbellata* and for my life I can not see the difference.

In my key I have used Fernald's characters and have not added any others. because I can not find them. The leaves of Ind. plants on the whole are quite a good deal narrower, not so elliptic.

Now do not go to any trouble about this thing. If you have any notion on it let me have it but do not dig into it. I thought Fernald's letter might interest you. Please return when you make your reply. No hurry about looking into this. tell me what you call your Ind. Steuben Co, plant

Repl. 2/2/36

STATE OF INDIANA
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INDIANAPOLIS

Bluffton, Ind.
Jan. 28 1936

Administrative Officer
V. M. Simmons

Dear Hermann:- I am cleaning house today and I am sending you the few specimens I have for you.

Say you mention working your ~~Ph.D.~~ Ph D. What in the heck is all about. Tell me subject.

Ordered the Linnaeus of Fiedler and he was out and he said he would have more in 3 mos. so I placed my order. Thanks for calling my attention to it. I have the 3rd ed. Vindobonae, 1764 ed.

The International rules, 3rd ed. 1935, has 150 pages, 8 x 11 inches
Guess this is all. I make an enclosure.

Now do not be in a hurry to answer. Any wrong determinations you chance upon write me.

I am working the Ind. Scrops. Pennell's book is a classic. His distribution is too deep for me. I have gone about half thru it (working the species) I am now on Veronica.

His Lindernia (Ilysanthes) is not so very clear. Seems to me there is a great tendency to intergrade, especially his var of Lindernia dubia. I think he has things straight but in this instance he admits there is no shore line between the two vars., typica and major.

Tell I will not bother you with my worries because I am sure you have enough and you need your time on Juncus and Carex.

Best wishes, to you and family, I am sincerely yours,

Chas. C. Deam.

STATE OF INDIANA
CONSERVATION DEPARTMENT
DEPARTMENT OF PUBLIC WORKS

Recd. 1/10

Board

Governor Paul V. McNutt
Lieut.-Gov. Clifford Townsend
Virgil M. Simmons
Paul Fry
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INDIANAPOLIS

Bluffton, Ind.
Jan. 6 1936

Administrative Officer

V. M. Simmons

not read

Dear Hermann:--Well I have 3 of your letters here and I wish to report on the St. Louis investigation, etc.

I went thru all their Eupatorium and they have nothing to interest you. I snipped two envelopes of *E. cuneifolium* but this species as they have it has nothing to do with your specimen. Doubtless it is some form of *E. serotinum*. What the standing I do not know. They have a fair run of *E. serotinum*, some with very wide leaves but all have the characteristic petiole. So far as I hastily noted the involucre was also characteristic. I enclose you the two "snips" from *E. cuneifolium*, so labeled.

Now I will take up your three letters and answer as I read them. By the way I am returning the press board covers and I sent the book catalogue Saturday. So I think this letter will clear the slate. By the way I saw some folks at the St. Louis meet. but I did not glean any thing very startling. Rosendahl, Butters, & Makala paper on *Heuchera* has just been handed in for publication. In the Jan. *Rhodora* will appear the *Ranunculus circinatus*, longirostre complex. Mo. Gard. Herb. and no one seems to know any thing about the herbaceous *Smilax*. Had a long talk with Steyermark. He is a real fellow and it is refreshing to talk to some one who knows plants. Saw many others but few who added data for the Ind. Flora. By the way steps were taken to form a Section in Taxonomy. They plan the dues to be about 50 cents a year and to start a journal devoted to taxonomy alone. The journal business I did not get the dope on it but Gleason told me the Journal was all arranged. Gleason did not take the floor because he is an officer and would not speak for or against the movement. L.S. Petry, our Secy. spoke against it but J.H. Schaffner and Friesner spoke for it. Assett the renegade voted
OVER

against it after signing the petition. I would have spoken but I always talk too sarcastic and on this occasion I would have gone into em rough shod. The Editors of the Amer. Jour of Bot. have been handing the taxonomists lemons long enough. Enough. I will send you the resolutions which I ask you to return. The organization is to be formed by July 1, how I do not know. I suggest that if you are interested that you send your name into to Gleason and ask him to put you on the roll for membership and thus be a charter member.

In reagrds to the extra *Carex* you ask for I will lay out what I can and send later on.

Tried to find at St.Louis some one who had tried out the *Weatherby Cystopteris fragilis* var. *Butters* had not seen it(the paper) Wherry was not there. L.S.Hopkins had not seen it(Said they did not take *Rodora*. Say how can some guys get along without publications. Always give the boy and axe when you ask him to cut wood.

I see Graves has neshed up *Botrychium* again. Have not had time to look into his findings.

Do take time to be sure to get your Ph D. degree. Do not kill yourself working.

Say I have placed *Heliopsis scabra* under *H. helianthoides*. *Sytyermarck* thinks that is O.K. Glad to learn he O.K. my judgment on the complex. Our plants are possibly all one thing. Probably *H. scabra* becomes a good variety in the far west but all characters that are given in books to separate the two break in my specimens.

I am signing off. This is my busy year. I plan to do nothing else than to finish this *Flora*. I will cut out field work and reading. Reading only stuff that pertains to taxonomy of plants I am interested in.

Best wishes to you and family for a happy, healthy, and profitable 1936

Chas.C.Deam.

Repl. 1/10

STATE OF INDIANA
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Governor Paul V. McNutt
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Paul Fry
James D. Adams

INDIANAPOLIS

Bluffton, Ind.
Dec. 25 1935

Administrative Officer
V. M. Simmons

Dear Hermann:—Your two letters here O.K. had planned to write you earlier today and it is about time to quite for today. I plan to leave tomorrow at 6,45^{am} provided I can get to Car. Our auto is bawking and I have about 10 times^{tried} to get our taxi man (only one) and it is now late so I am uncertain if I am off or not. Was out to country 15 mi. today to see a farmer friend who died. Snow here all drifted and when we got in it was deg. below zero. Early froze one place where I had to shovel off a snow drift Well I must be brief.

Many thanks for the *Agrostis hiemalis* from N.Y.

Say I wrote my labels for the *Juncus* and I note you are making some combinations, etc. These should be published soon. Do not put them in the *Flora* it will bury them.

I note what you say about The Pennell Monograph. Glad to hear such a good report of it. I will read it closer now. You know I am getting panicky about finishing the *Flora*. Think I will quit reading for a year and work at *Flora* day and night. I have Ecology. Jour ecology, Ecological monographs for most of the year piled up. Think I will just file them with a lot of other items and read them later or never.

As to the duplicates you ask in addition I am glad to send you in due time the few I have. In several instances I have no duplicate.

I note what you say about *Penstemon Deamii*. I shall scrutinize it closely when I work the genus. I agree the genus *Gerardia* is now in such a flux you can not feel satisfied where it should go. I agree it is best to junk it.

As Germany money exchange is prohibitive. Mark about 50 cents. like the Florin which is 40 cents. OVER

es I got a good stinging in the DuRietz item. Would like to see the Host & Son cat. No.32. I have about quit buying but would not turn down a good item now and then. Will return the catalogue. Send to St.Louis, Mo. Hotel Stadler and I will have it to read on way hom.

Say your Internation Rules are surely not like mine. Mine measures 8 x 11 inches, pub. by Gustav Fischer, Jena, cost me $\frac{1}{2}$,75 in paper.

No I do not have Praegers Botanist in Ireland. Will get it.

ay you are able to size Small exactly right.

I hope repprt that Hitchcock is dead is a false rumor.

The Ruellia parviflora stuff needs reworking. See my specimens if you ever get here for some time.

Will return the press boad covers upon my return. I have some of the same things but rarely use them. I rarely use my separates and binding them makes it expensive. I am in the habit of throwing the separate in with the plants it covers. That way the people who get my herb. will get some bargains.

Well Hermann I will sign off. I hope I get thru and back O.K. and in the meantime I hope you will not over work and do not accept any more tasks until this RxRx Ph.D. is off hands.

Best wishes to you and family. I am sincerely yours,

Chas. C. Deam.

Supplement to "The Journal of Botany", June 1934.
Publ. by Taylor & Francis, London.

STATE OF INDIANA
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INDIANAPOLIS

Administrative Officer
V. M. Simmons

Bluffton, Ind.
Dec. 18 1935

Dear Hermann:- On think of the St. Louis trip, I believe I would like to have 2-3 mature heads and a cauline leaf of that new Eupatorium so I can take it along. Also you might write me a brief letter informing me thta you are sending me a leaf and a few heads of the Eupatorium which you ash me to use in comparing it with material at the Garden and if not too much trouble to look over their material and see if any of it would be of value to you in your study of the specimene, etc. and explain you would like for me to arrange a loan of such specimens as I think you could use and that you will promptly study and return them. Oh forget to say to arrange a loan thru the U. of Mich. Botanical garden.

Or if you prefer me to look em up and later thru mail to arrange the loan. But if I have your letter I can show it them and leave it with them as evidence of the request of the loan, etc. Of course if they begin to crawfish then I will be licked but I do not fear that because they are under obligations, many to me.

Nothing exciting here. Today I finished bringing my stuff up to the last number of Rhodora. Fernald did a good job on Nyssa. I had know for many years there were two things but could never find what it was. I knew that the branchlet of var. caroliniana would break when flexed while Nyssay typica would bend and not bear. Pioneers knew it as "yaller" gum and said it split like poplar. You can usually spot it in the woods, the branches have an upright growth and the bark is different.

I plan to go to St. Louis Thursday Dec. 26. I have many things I want to look up. So here are my best wishes, I am sincerely yours, Chas. C. Deam.

copy

P.S. I just started to write the labels for the Cared you named for me.
I see you did not take out any specimens. I meant for you to take all
you wanted, at least one of each number. Why not. Now if you want one
of each of the duplicates send in your order P.D.Q. and oblige,

Dear

Digitized by Hunt Institute for Botanical Documentation

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INDIANAPOLIS

Bluffton, Ind.
Dec. 10 1935

Administrative Officer
V. M. Simmons

Dear (Dr.) Hermann: Well I hope the nightmare of the Ph.D. is over and that you have conquered.

Well I was glad to get your letter Dec. 1. Wife mailed to me to DePauw University where we worked last week (I mean assist. and I) We had a fine week of it and every thing so fine. Yuncker and Mrs. Welch just did every thing they could to make us comfortable, etc. They have their Herb. arranged according to the Gray Man. and all Indiana specimens are in manilla folders and all others in red so that this greatly facilitated our work. Well to date we found one species new to the state. E. J. Hill had sent them in exchange a specimen of *Pyrola chionantha*. So far as I know this is the only Ind. specimen. Too I found a very poor specimen of *Trautvetteria* from Vigo County. It was unnamed just coming into flower. We found a specimen at Purdue that Clapp got in Floyd County in 1832 I believe So this species goes for Ind. Just got stuck this P.M. on a *Mentha* we found down there from three places. I have it myself. It was named by Weatherby for me as *Mentha Cardiaea* Gerarde. Now it is not that by a mile. I am going to take it with me to St. Louis and try to identify it there and if Epling will be there may be can give me a boost.

Well I suppose you have ere this looked at Pennell's *Scroph.* Just got my copy from the binders and last night I hurriedly went thru it. I find that Pennell did describe that *Penstemon Deamii*. Think you got some on our last trip. Pennell has done something I am doing, to give the name of all collectors and where their plants are found. I plan to add the number they have also. Now this Pennell publication has so darn many things in that I do not know just what to do about them. For example,
over

I did not reread his Gerardia argument. Can not see how we can have Gerardia in Scrop and one in Acanthaceae. I know Pennell has been as careful as he can and has aimed to give(cite) all the specimens he has seen as I take it but in a good many cases he does not cite an Indiana specimen yet he spots it on the map. For example Gerardia Skinneriana, Buckneria americana, etc. I want to read his notes at the end of the book of about 50 pages on the distribution of the Scrops, etc. This should be very instructive. I wish Fernald would review this book. Did you read S.F. Blake's review of Hutchison's books on Plant Families, recently published. This review is in last number of Jour Heredity, an unusual place for it.

Well got my DuRietz article back from the binder. The whole volume, binding etc. cost me \$10.20. Also got today the International Bot. Rules of the 1930 Congress, pub. this year. Unfortunately I did not designate and they sent me a paper bound copy.

I enclose you a few memos. Always regard them as my letters, lightly.

One is to decrease your financial budget, to buy Carex junk.

At nights while at Eau Claire I went thru the Mo. Flora. I note that they take ^{up} Ranunculus caricetorum of Greene. This I must look into.

I will now read your letter and answer any thing I see I can squander your time on.

Happy about the Carex paper, to be here before the middle of May. As to the home-coming of my Carex I can not use them and consequently no hurry about them. I suggest that you send them down by U. Mich truck and that you be the driver. That way we can get in a little visit. No hurry about the plants at all. However, the sooner we get them the sooner we can stab our maps so when you have completed the paper, let em come.

I looked at Greencastle about Eupatorium and they have nothing you can use. Do you wish to see the rest of my E. serotinum, if so I will ask Ind. U. to return them to me. While at Mo. Gardens I will try for a loan of some specimens, such as I may select. I now plan to go on Dec. 26, Thursday and work there Frid. Sat, Sunday? Monday. Fassett writes me he will be there

See Hypostemum Sat. Oct. 7 32
Spec. #116 - 25 Nov. (= 16. Oct. 32)
M. 333-428

Digitized by Hunt Institute for Botanical Documentation

Friday morning.

I plan to further investigate the Weatherby Cystopteris. I wrote Clute to give us his opinion in the next number of the American Botanist. At St. Louis I surely will meet some fernologists and I will interrogate them.

As to your publishing at Notre Dame I would not do so if you do not feel like it. We will get along. I never told Just you would or ever even mentioned the fact

Glad to learn that Gleason is exchanging with you and that he has wakened up and learned that there is some U. S. botany to learn.

As to the Ranunculus experiment I suspect that the species will accommodate themselves considerably to habitat. I have two lots here doing fine that are in much drier places than I dug them. I might send you some next year if I get out or if we get out together we can exterminate them. Trouble is in making a trip like you and I did is that you can not do it all. I have added greatly to the items I need to look up this year.

Just today I had to work over some *Physalis* of the *P. heterophylla* complex? My write up of this genus is punk. I have made notes to observe certain things. One thing is, the color of the anthers and filaments, more especially of the anthers. Pennell uses color in his *Penstemon*. Now I am interested in learning if the color is restricted to certain species or specie complexes or not. For example all of my specimens of *P. heterophylla* have yellow anthers except one and I am not sure it is this species. Then of the closely allied species *P. ambigua* the anthers are both yellow and blue. All are blue in *P. pubescens*, yellow in *P. subglabrata*, I think yellow in *P. virginiana*. Probably in a long series this color character will not mean any thing but if it does it is an easy one for flowering specimens.

Equisetum litorale Kuehl. Schaffner puts under *E. palustre* L. See Amer. Fern. Jour. 23:126. This is the last I find of it.

Well I have had only a few minutes time to glance at Small's new book on Ferns. and I see he has described a new genus. made it take in our old friend *Asplenium angustifolium* Mx. He also and perhaps correctly uses both *Thelypteris* and *Dryopteris*. OVER

But he still maintains *Botrych um dissectum* and *B. obliquum*. So you see a poor devil like ~~XXXXX~~ myself is like a toad in a hailstorm, All I can do is to blink and jump this and that way and get no where.

Well I will sign off, hoping the Ph.D. is now behind you and you are feeling fine and that the family is likewise.

I am sincerely yours,

Chas.C.Deam.

Memo to Hermann

2490 Carex. 17 Arbeiten v, Behrendsen, Binz, Bornmuller, Figert, Glaab,
Holmberg, Kerner, Kukenthal, Mullner, Murr, Vetter, Vollmaan, Waisbecker

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That is German Marks

8.50

Listed in No.49 by Karl Max Poppe

Lepizig, C.I, Germany

It seems as if he has had a lot of separates and he has been trying to
sell as a lot and now he has divided them up into to subjects and
offering in that way. You may have his catalogue, just received.

Memos to Hermann.

Your 6,752-my 56,322 I name *Monotropia Hypopitys* var. *rubra* (Torr.) Farw.
Plant with cream-color flowers; capsules, styles, and stigmas densely
upwardly pubescent

caroliniensis
Your *Ruellia* 6730 I name *R. ~~exasiense~~* var. *parviflora* (Nees) Blake
The specific name correctly spelled. I just compared with the original
in Walter's Flora. I have this var. from Clark, Crawford, Posey, Spencer
and Warrick counties. I believe as Small does, see his Flora that
this is a species. on't you think I had better so regard it
Of course it does not matter how you regard it

On page of Small's Flora 1229 he shows you where our old friend
Gerardia goes. I got the drift from some source that Fernald was
going to restore ~~*Gerardia*~~ *Gerardia*. I have order the Int. Rules
of nomenclature and should be here in a week. I did not know they were
published. Published last Spring

At last I got the vol. containing the DuRietz Fundamentals
units of Biological Taxonomy. Now to binder. Cost me about 10,00

~~P.S. I have just gone hastily over my *R. ciliosa* specimens~~
and this genus is sure a variable one. I have complete plants with
4 internodes and they usually run about 6 internodes and I have a very
glabrous and widely and copiously branched plant from Crawford County
that has 15 internodes and the branches mostly 10. Tube of corolla
1.5-4 cm. long, some variation. Plants nearly glabrous to densely
pubescent. tried to work out something on the ~~recurved~~ recurved
short pubescence under the villous one. leaves elliptic to ovate. No
literature on the subject. However, Macbride wrote me in 1918 that
var. *ambigua* Gray is correct and that the manuals erred in taking up
var. *parviflora* as the first var. name. But according to the
synonyms in B. & B. Illus. Flora he is wrong. In looking over
DeCandolle Prodr. Vol. 7 you will find he treats the erect form
of this species as separate from the branched form, probably nothing in it.

I am convinced that some study will be required to bring this out. I
did have a good start of *R. ciliosa* growing here but wife and man
lost it for me. next year will try for some more. I did just fine
and if I have it growing may can get something out of the
flowers.

Translations (cont.)

Karakulin, B. P.

Relationship of the conidial stages of *Septomyxa* and *Marssonina* on maple trees and their connection with the ascomycetic stage of *Gnomonia cerastis* (Reiss). *Bolezni Rastenii* (Leningrad) 14: 73-81. 1925.

Translated from the Russian.

Lagerberg, T.

Ytterligare bidrag till k nnekdom om toppr storna hos grenen. (Further contributions to the knowledge of toprots on the spruce). *Skogsv. F r. Tidskr.* 18: 55-64. Ja., F. 1920.

Lederer, E.

Sur les carot no ides de quelques champignons. (The carotinoids of some fungi). *Compt. Rend. Soc. Biol. Paris* 117: 1083-1085. 1934.

Lendner, A.

La maladie des ormeaux. (Elm disease). Reprint from *Rev. Hort. Suisse* no.11. 7 p. N.1932.

Nojima, T.

Studien  ber *Polyporus japonicus* Fries. (Studies on *Polyporus japonicus* Fries). *Forsch. Geb. Pflanzenkr. K. Univ. Kyoto* 1: 177-191. 1931.

Translated from the Japanese.

Weese, J.

Studien  ber nectriaceen. 3. (Studies on Nectriaceae). *Zeitschr. G rungsphys.* 6: 28-46. Ja. 1917.

Correction

V.2, no.14, p.34.

Under State Publications the title of journal should read *Bull. Dept. Agr. Calif.*, the paging 297-300, and the number, 3.

Non-current indexing.

Ann. Rep. Taihoku Bot. Gard. (451T13)

Kudo, Y. & Masamune, G.

Genera plantarum formosanarum or a description of all the genera of the vascular plants indigenous to Formosa and an enumeration of all the species, varieties and forms hitherto known in Formosa. I. *Ann. Rep. Taihoku Bot. Gard.* 2: 1-141. 1932.

Repl. 12/1/35

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Governor Paul V. McNutt
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Virgil M. Simmons
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INDIANAPOLIS

Bluffton, Ind.
Nov. 27 1935

Administrative Officer
V. M. Simmons

Dear Hermann: Well I received pt. 7 of Carex today This is the last No. and completes it with Index. So now you can hop into Carex just like you meant to finish it.

Say I was up to Notre Dame U. last Sat and Sunday to clear up a lot of questions I had against them. Keep mum ^{but} I was disgusted with Nieuwland He is a good well meaning fellow but he sat at the table opposite me and talked like an auctioneer and had be so furious I could not work and I entirely forgot the Eupatorium. I am sorry. I have made a memo for the Mo. Gardens. Say this reminds me. Just and I were talking about the Eupatorium and other things and naturally I planned to look at them later but forgot it. I told him you found *Juncus secundus*, and Ex. J. Gerardi and you planted to write a paper on this dope and pub. in Rhodora. He at once exclaimed why write a paper on Ind. botany in Rhodora. So you see his reaction. He says his magazine goes to over 50 foreign countries and has as wide a circulation as Rhodora. Well you get me Al. If you can place ^{your} of publication without too much compromise I think it wise to do so, especially since you have not yet got their Carex. The Midland is coming out now in pretty good shape but it is not entirely botanical.

Say you may think I am rushing things but again I wish to clear my desk since we plan to go to ^{de} Pauw next week. Then when I came from Notre Dame in order to get away from Nieuwland I brought hom^e with me all of the Hebert grasses. These I went over yesterday and I had my assistant list them so she could stab them on our maps and I asked her to add to the list the Mich. plants, think may you might be interested in them. If you are please say so in your next and thank my assist for copying them for she objected to doing it. Now this is the way I feel about such things. I always want OVER

help the other guy if I can without too much trouble. For her to write Berrion County did not mean any thing. I called off the counties and she typed them. If no value to you at all it cost us very little effort. People are queer creatures and some more so than others.

Yes I have Piper and ^{Cherry's} ~~Wattie's~~ Flora. By the way did I tell you I sent to the Catholic U. for the two pub. you mention and they charged me \$2,00,

Thanks for the name of Father Louis-Marie. May be I will have some stuff left and I will try him out. What I need most is material from Ark. Mo. and Okla.(eastern), west. Tenn. Seems impossible to get any thing. Will (hope to see them) see Moore of Ark and Rickett of Mo. at St.Louis and have a talk with them.

Think this brings me up to-date. Assist. went home for the remainder of the week and now I am going to hop into to it and try to name up my summers catch.

^{Toucan}
If every thing fixed I have a whole day yesterday and at noon some one phoned and asked us out to dinner(another hour or two gone)

Best wishes, I am sincerely yours,

Chas.C.Deam.

Memo to Hermann

The Ranunculus complex, -R. septentrionalis, hispidus, caricetorum, R. illinoensis, R. Macounii, etc. are a mess. We do have at least the R. septentrionalis and R. hispidus and var. falsus, which may not be a variety at all but a species. I feel we do not have the real characters that are needed to separate them. Lamarck in his original description of which I have a photostat copy says the petioles of the basal leaves are glabrous and so are some of my specimens. I have growing here what is surely a Simon Pure R. septentrionalis and I have just examined the petioles of the fall basal leaves and they are hispid. Some authors stress the shape and size of petals of flowers in keys but I have separated them on length of beak of achene I can not find any other character to use. I feel like this character is not sufficient. Seems to work with my material. I just saw the Greene R. caricetorum and it seems to me to be R. septentrionalis. Now to the point. Are you in a position to put this bunch under cultivation. We are in the midst of them and if you could give this attention and work out positively or negatively some characters and publish it would be O.K. I take to score on some old complex like this is better than to discover a new species. Now I have three lots of the group here under cultivation. I do not believe they will spread badly but I think in such a study you should give them the advantage of a natural environment if possible. I mean the wet ground species should be replanted in such a habitat and the dry ground forms in a like habitat. You know we get R. hispidus on the tops of the knobs in s. Ind. and possibly the same thing in low ground in n. Ind. Seems incongruous but that is the way I have assembled my specimens. Think this over and if you wish to try em next year you can begin to transplant now because the basal leaves are all persisting yet. I might be able to help you next year to dig and send in stuff. I know of a large colony of the R. septentrionalis about 25 mi. from here.

Revista Inst. Café Sao Paulo (68.29Sa63)

Teixeira Mendes, C.

Replanta de um cafezal. Revista Inst.
Café Sao Paulo 10: 1744-1757. illus. Ag.
1935. no.103.

Riv. Patol. Veg. (Paris) (464.8R52)

Agustoni, E.

Osservazioni e ricerche sul nerume del cavol-
fiore. Riv. Patol. Veg. 25: 305-315. illus.
Jl./Ag. 1935. no.7/8.

Alternaria brassicae.

Montemartini, L.

Eccitabilita' di organismi ammalati. Riv.
Patol. Veg. 25: 293-303. Jl./Ag.1935. no.7/8.
Ustilago & Tilletia.

Schweiz. Zeitschr. Obst- u. Weinb. (Wädenswil) (80Sch9)

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Repl. 12/1/35

STATE OF INDIANA
CONSERVATION DEPARTMENT
DEPARTMENT OF PUBLIC WORKS

Board

Governor Paul V. McNutt
Lieut.-Gov. Clifford Townsend
Virgil M. Simmons
Paul Fry
James D. Adams

INDIANAPOLIS

Bluffton, Ind.
Nov. 22 1935

Administrative Officer

V. M. Simmons

Dear Herrmann:- I have your letter of Nov. 18 and the *Valerianella radiata*.
var leiocarpa. I have it from the same county and I will return the first
time I am sending you any thing. I do not care for two sheets of the same
species from the same County.

I am leaving early in the morning for Notre Dame (incidentally a foot
ball game there but since I never saw a game I am not guilty. Just wrote me
he was not busy Sat. or Sunday so I am going up there to try to clear up
about 100 things I have charged against them. I hope Nieuwland is not present
for I get ^{can} along with Just but Nieuwland has too dam much of the "divine"
in him. He can never see why he is wrong and he usually is. Well I have
come to the point I am hard boiled. The Flora must be responsible for
and it is written for a long time and will be the foot ball for amateur
and professional botanists and I want it to be able to take rough usage.

I just received news that Kriebel has landed a job with the Soil Erosion
Service. He is to be at Zanesville O. a month and then he is to be
transferred to Bedford. Kriebel has been sick but I hope he can pull thru.
I wrote him to be a good soldier and to let the spending money uselessly,
men marking time or worse, etc. just to be blind to every thing and saw wood.
Thanks for my accession no. of Buchenau. You say 2,002. I have some other
book for that number. I know I went over my book and I could not find it
so undoubtedly I accessioned several books at one time and duplicated. So
I will now accession mine with my latest number. I return the bill which
you can keep if interested in it.

Glad to get your O.K. on *Sagina decumbens* var.

OVER

Say my assistant is howling. She tells me to make no further suggestions to you to write or do a darn thing until those Ms. are here. She is getting panicky. She wants all Ms. in by the middle of May. She is planning to leave me June, about the 10th and she wants to stab all the maps before she leaves. That is one reason I am going to Notre Dame tomorrow to bring our Ms. up to date so far as we can. Then Dec. 2 we plan to go to DePauw U. and start to list their plants. We will work a week. Have no idea how fast it will go. Then she can stab the maps at her leisure and she will have a plenty ^{lots of} when I tackle Potamogeton. I have had so many odd jobs of late Potzger sent me in a few grasses to name. I recognized them at once but when I went to put them thru the key I found a defect so yesterday I had to revise a section of Panicum.

Now as to the Lycopus paper. You are right. Send it to Gray ^{R. H. S. Herb.} ~~Herb.~~. As to "Notes on some Ind. Plants, describe Eupatorium banta? and then add such notes as you see fit. Publish too in Rhodora. You say I wrote Gerardia and Ottonia and sundry other meaningless names. Just what you might expect of me. Yes Ottonia was reported ^{before hand the pot of fibrous} and I have a specimen collected by Schneck in Gibson County. The stem has long fibrous roots from the top to the bottom. Ours did not have.

Now I have a grievance against that man E.C. Prophet of Mich Acad. Sci. In July I sent him a check for \$4.00 for the two vols of Mich. Acad. Sci. and I have never received the books and the check has never been cashed. Do you know any thing about him. I wrote once or twice about it. I am soon going to take this matter up without any recourse to leniency or any thing else.

Fernald's excuse for overlooking the Dodge paper is a darn poor Alibi. It is up to them to get all the literature published in a catalogue that if used will be fool proof.

Now when you want the Lycopus send the B.O.S. and tell me just what you want and it will out the same day I get request.

I plan to photo the Ptelea and if I do and it is any good I will send you a picture of it.

3 Of course it is no news for me to get skinned. Bot. "Wild Flowers of Newfoundland by A.M. Ayre of Dulau & Co. Came today. Cost 4 sh and 6 p. I is an Oh My pocket thing not worth a dime to you or I. So do not getskinned. Today I ordered M.E. Jones, No. 18 publication, posthumous. Edited by his daughter. Cost 1,90. It will be O.K. for western botany. You can see when you come down or may be your library buys it.

Yes I plan to go to St. Louis. I expect I will spend most of my time at the herb. since I hear so poorly and be "skomed" ^{skomed} at night. You mention some botanists on the St. Louis program and end by saying you do not know Vestal. I do and he is smaller than those to whom you refer. Read some of his papers in the Ill. Acad. Sci. However, I think they will be some good things on the program. I have not had a synopsis, only the first notification I do not see why you can not borrow all the ^{herb} material you want from any source with the U. of Mich. back of you. Of course such institutions as Field Museum with poor equipment hate to exert themselves to serve. Such institutions and others that have a herb. should be reminded that the loan of material is one of the primary functions of the herb. To have thousands of specimens piled up to be inventoried annually gets no one any where. They are for use, on the ground or elsewhere and the curators? should be made conscious of this some way, probably thru an influential trustee. If you can get me just a few hints on this Eupatorium I will see what I can do for you. I will go over the lot and lay them out and ask the higher up or ^{in you} powers to be to send them to who? probably the U. of Mich. Museum, or who?

No I did not stir em up at Lafayette, they are not only dead but as the Bible says their bones are to dust.

Yes I hope I am not ^{prejudiced but} but I just do not understand Fernald. In last Rhodora in some instances he seems to telescope two species if separated by some other author and on the other hand he will divide what appears to be a single variable complex.

His Eleocharis quadrangulata var. crassior I could do nothing with. Wrote to Svenson to let me know what Ind. material belonged to. Doubtless in fresh material the character that Fernald uses is O.K. but in dry material ^{over}

it is different. Think ^{out} my all belongs to var. crassior. I have a specimen of the Gray Ex-sic without a fruiting spike. I do wish he had made a key to the *Sagittaria* Weatherbiana and others of the complex. I have a hunch we have something else in the Erwin woods swamp. I got a specimen there in July and it does not match *S. graminea* at all but I can not name it. I hope to get back there to check up on it. I want to find that swamp in there that has the cottonwood about it. Guess you was not with me this summer. I met a man about 60 and asked him about the swamp in that woods and he said he had lived in hailing distance all his life and that there was no swamp in there with cottonwood around it. It is around this swamp I thought I found the *Apios Pricea*. I dug a few and all had one tuber. Want to check on this tuber business. It is barely possible all 1 yr. plants have a globe^{se}, single tuber, and the necklace type is after the first year. This swamp is on my itinerary next time.

Dioscorea villosa L. I have read Bartlett's disposition of this name and it seems to me to be better than Fernald's. I have it *D. paniculata* and I plan to leave it for the present.

"Well since I must get up early in morning I will sign off. I really had no excuse to write but I want to come back to a deck cleared up to date.

Best wishes, I am sincerely yours,

Chas.C.Deam.

Memo to Hermann

Memos on Fernald's article in last Rhodora.

I have carefully reread Bartlett's reason for rejecting *Dioscorea villosa* and what Fernald has just said and what Blake said in Rhodora 20:48 and I believe I will let my Ms. stand as it is. I have all my specimens labeled *D. paniculata*. I see in Flora Mo. the use *D. villosa*. I hope to learn who coached the authors on nomenclature

What do you make out of Featherby's *Cystopteris fragilis* var *protrusa*?

I have a single far north specimens of this species and it is from Alaska and it is quite different from our Ind. *fragilis*. But when it comes to dividing our Ind. specimens into var. ~~protrusa~~ ^{protrusa} and var. ~~protrusa~~ ^{Mackayii} then I am up. When you look over this complex and are sufficiently interested and would like to see my Ind. material and others I will gladly send it you.

Robt. Ware of Boston sent me some *C. fragilis* from Switzerland, Austria, Hungary, Madeira, etc. and the whole affair is too fine-haired for me. If Weatherby had not cited a Wells County specimen I would just pass the thing up. Want to get your reaction to this var. business. Used to think I knew

what a petiole was but I am dubious. Seems in this case a little like the veal-beef proposition. The distinction probably O.K. but I did not study it intensively enough to get it

My memory served me wrong when I wrote you about *Agrostis scabra*. We have worked this and I copy part of our key.

Spikelets mostly 2-2.5 mm long; glumes connivent in fruit, covering the grain; anthers mostly 0.5 mm long; flowering in northern Ind. from about June 3-July 10. A. scabra.

Spikelets mostly 1.4-1.9 mm long; glumes not connivent in fruit, exposing the grain; anthers mostly about ~~0.2~~ 0.2 mm long; beginning to flower in northern Ind. the last of May and maturing fruit usually by the middle of June. A. hiemalis.

Agrostis scabra in in n. Ind. and does not go south of Wells County
Agrostis is through Ind. but mass dist. in southern half of state.

Handwritten initials in red ink.

over

Fruit flattened, twice as broad as thick; corolla blue; introduced plants (See excluded species)

Fruit triangular-pyramidal, about 4 mm. long; flowers white (See excluded species)

Fruit oblongtetragonal or ovoid-tretagonal, mostly 1.5-2.1 mm long, fertile cell wider than the two empty ones, ridged on the back; the two empty cells with a deep groove between them.

Fruit pubescent. 1. V. radiata.

Fruit glabrous. la. V. radiata var. leiocarpa.

The glabrous form the most common in Ind. I have a nice colony here in our field.

Kriebel sends me his No. 1,496 for checking and remarked that you named it *Scirpus Eriophorum*. I make it out to be *S. pedicellatus*. The first named at a Coastal plant.

By the way Kriebel has at last landed his job at Zanesville, Ohio with the Soil Erosion Project. He wrote me recently that he had been sick and I think despondent. I got a card from him yesterday telling me that he was at Zanesville for a month and then they would transfer him to a project at Bedford so he can be near home. I do hope he will make good. After he gets acquainted with the job he will make them a valuable man.

Recd. 11/21/35

STATE OF INDIANA
CONSERVATION DEPARTMENT
DEPARTMENT OF PUBLIC WORKS

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Governor Paul V. McNutt
Lieut.-Gov. Clifford Townsend
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INDIANAPOLIS

Bluffton, Ind.
Nov. 17 1935

Administrative Officer
V. M. Simmons

Dear Herrmann:- Your letter of Nov. 5 was duly received and wife forwarded it to me at Lafayette. My assist. and I were at Purdue all week listing the Ind plants in their Haybarium, spelled correctly. I can not tell you how bad the place is and I leave it to the Mrs. Wynch to tell you. "e found some wrong determinations and a few darn bad. For example Ilex vert. was Physalis pubescens; Mimulus ringens, once Ruellia pedunculata and another time equally as bad. Mollugo vert. was Galium concinnum and Galium palustre; Arenaria serpyllifolia, Houstonia caerulea; Senecio obovatus f. rotundus, Achillea Millefolium, Ilex. verticillata, Senecio vulgaris.

I fear these are only mixed labels and I can not understand how any one could be so stupid. Oh yes Spiranthes garcilis was Lysimachia terrestris

Well I am glad the Lycopus key is approved by you but I am always conscieous of how superior you are to me when you go over my work for which I am very grateful. Tha ks for your key to the genus. Think I shall use my own key with the corrections you make. I fear the mine run will not get that nutlet idea. I worked the nutlet idea to good advantage at Purdue. "e had L. americanus with just the very top broke off. I do sbt if they could have been identified by our Manuals. You had better write up the genus for Michigan.

My Gosh: I see I have answered this letter last week. So please excuse me.

This is up to date. I have just packed the Eupatorium Banta and 3 sheets of E. semiserratum and a few E. serotinum. In searching for the remainder of E. serotinum I can not find them so they must be at Bloomington If you need them let me know and I will send for them. The specimens are theirs OVER

so I will have to borrow them. May be like Dr. Enders last Saturday. In going over their herb. I found some *Potamogeton* and *Penstemon* and 2 *Houstonia* I could not name so I asked Enders if I could take them with me and as soon as I named them I would return them. He began by asking me how long I thought I would have them out, etc. Fact is I doubt if any case they have been opened for a year. Gets under the skin for the Dean of Science to treat one that way, especially when we estimate that about 70% of their Ind. material is my specimens given them. They have a lot of junk, students collected without county of date on them. All of which should be junked. These of the Oh My type such as *Arisaema triphyllum*, *Podophyllum*, *Celastrus*, and the like. Well sir on this trip I came to a different conclusion why there are not more taxonomists and I have decided the subject is just too difficult, and of course the work cuts some figure. Hope we can meet at St. Louis and discuss this matter. I have engaged a room and I am planning to go, except my health forbids. Two weeks from Dec. 2 we are planning to go to the Paw U. and start to list their stuff. Yuncker told me they had separated all Ind. material into manilla folders and all exotic into red folders so that will greatly facilitate matters.

The Buchenau copy here O.K. Please send me accession no. out of the copy you have retained and oblige. Got another section of *Carex*, Mackenzie's ~~last~~ yesterday.

Just received "Some distinguishing characters of certain species of the genus *Brassica*" by Albina F. Musil, Assist. Botanist, U.S. Dept. Agr. Bureau Plant Ind. Div. Seed Investigation. Only one page description and 3 plates, worth having. Also they sent me "Seed List" with common names by F.V. Coville, 1935. Both gratis and worth the postage.

Also received "Key to the Trees of Ark" by Lewis M. Turner, revis. ed. 1935. He gave me a copy. This is a mimeographed publication with all species illustrated. Seems to be a nice think for "Teaching Farm Forestry". Address Lewis M. Turner, Dept. Hort. & Forestry, University of Ark. Fayetteville, Ark.

Say in a recent letter you made i quiry about persons with whom to exchange specimens. You know your biz but here is a suggestion. Years ago I was quite able to buy books but I thought I was hard up but had not learned to buy. Then I took of the proposition of trading specimens for publication on the basis of 5 cents a sheet. I sent probably a thousand to Phil Acad Science for their Proceedings at their published prices. Think I got my Mo. Gard, Repts that way. Why not tackle Rosendahl for their publications if you do not have them. Probably the Mo. Gardens would give you their Annals that way. Or Arnold Arboretum their Journal. Think I got some of the memoirs of the N.Y. Bot. Garden that way. Well Al you get me.

Think this is all I can think of.

I am sincerely yours,

Chas. C. Deam.

STATE OF INDIANA
CONSERVATION DEPARTMENT
DEPARTMENT OF PUBLIC WORKS

Repl. 11/18/35

Board

Governor Paul V. McNutt
Lieut.-Gov. Clifford Townsend
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INDIANAPOLIS

Bluffton, Ind.
Nov. 10 1935

Administrative Officer
V. M. Simmons

Dear Hermann:--Just got in^{A)}. Was at Crawfordsville Thursday, Fri. and Sat. attending the winter meet of Ind. Acad. Sci. Nothing exciting from there. All I get out of those meeting is the meeting of the old timers and let the youngsters milk me for what little I know about Ind. weeds. However, I am always glad to attend and especially if I can lend a helping hand to do so, but so often we dripl in dry holes.

The two boxes came during my absence. Enclosed find postage. 28 cents

I surely appreciate your correction on key to Lycopus, etc. They are gratefully accepted. I also have gone over your key without resorting to the specimens and it seems to me to 100% O.K. but I doubt if would better for my work since as I take it yours is far more technical, or rather I mean it should be used by some one a little accustomed to your terms. As to the use of papillose versus tuberculate I think the last far better. I did so when I wrote it. My assistant and I milled around quite a while to get a name to fit the specimens. My authorities are B.D. Jackson's Dict. and Crozier's book. Your discussion of these terms again emphazies what I have been working for, for years, -a more definite difination of such terms. We are long past the terms "lines, thumbs" etc. One of the worst mix ups is pubescence. The whole category of the terms used in pubescence should be revised very shaprly. So far as I know it has been only a few years that spreading and appressed pubescence has been taken into account. Look how I had to manuver about to get Gray people to recognize var. Deamii Lespedeza virginica. I do not recall who but think it was Rydberg who really first recognized Aster exiguus and ericoides, guess this was Blake, Liatris pycnostachys and E. Beboiana. The trouble is in the cases I have mentioned that the old timers hoot at the idea of separating species on such frivolous characters. OVER

However, no doubt a close study will show other characters as pronounced but not discovered. The old "Posey and weed" botany is passed. I admit the now phylogenetic idea has pervaded the camp which has its significance but the old time taxonomy should not give up but tighten the belt ~~ix~~ ^{and} get busy to do "closer" work. Gray and others of his time used gross characters only usually but we now have come to understand it so happens that these will not always suffice. The Lycopus is an example. I have not seen any herbarium specimens ^{of Lycopus} but I expect to find quite a few named wrong.

You say you have only 2 specimens of *L. rubellus* at U of Mich. Say I know you are a fool to work and now doing what about 3 ordinary college profs. are doing but why not write an article for the Mich Acad. Science on Lycopus ~~for~~ ^{of} Mich. Make a ~~new~~ ^{new} key using the one you have, probably amplified to the limit but I would not want you to even mention my name. What I would like to see ~~ix~~ ^{in botany} is, speaking in geological terms" to see a gradual upheaval of the interior of the U.S. until it would be visible as far east as Cambridge, Mass. An article of this kind will not hurt you and bring you to favorable notice. As a business man, I am strongly in favor of advertising. All advertising is good but some better than others. I know you will not contribute any immature stuff. I shall be glad to loan you all my plants. Let me know on this so I can send them on as soon as I can get to it. I am leaving early in the morning for Lafayette where I plan to list all the Ind. plants in their herbarium. Mrs. Winch allready over there. I have no idea how long it will take. Probably all week. I worked a half day last week at Crawfordsville and got over only thrier grasses.

As soon as I get back and get my correspondence up I will pack the Eupatorium and the Lycopus if you wish to see any of them. Better take my suggestion and write up Lycopus of Mich. Also write up in Rhodora "Notes on some ^{new} Ind. plants and describe the Eupatrium, and rept. the Juncus secundus and Gerardia and any thing else that occurs to you.

3

As to the Buchenau when you return the paper covered one, the incident is closed. However, I would like my accession number if catalogued so I can substitute new number and then I can tell you when and where I got it. For some inexplicable reason I do not have this on my book list. When I buy a book from a catalogue I always (this an exception) cut out the book advertised and paste it on a library card with price, date of Cat. and Firm and file away, This in addition to my library accession. Then when I read a recent catalogue and I see the price way up, I cut this out and paste on card. All this for the guidance of the ones who distribute my books. Gosh you must look ahead when all ahead is uncertainty

As to the *Silene antorrhina* var. *divaricatus*. I find nothing published on it the items to cite in *Rhodora*. ^{you} As my glabrous plant has no glutinous bands. I have only one such and ^{myself} it was the giant one I got. I have lain it by with one of the other orthodox ones to give to Gray herb. According to ^{you} Eernald the glabrous plant is a variety new to Ind. but I fear this var. of glutinous band is a sporty sort of a thing. Did you get any glabrous and non-glabrous specimens there. Very unusual to have two things growing together there. Guess we will have to get back there. You see in this instance you will have again to pioneer. ^{in working this variety} Remember there are a whole lot of blind alleys in botany. If I can help you any in this let me know if you wish to see my plants. Think it is all up to you to get the Interior ^{US} discovered. I know of no working or who is competent to do any thing so consider it a one-man task. Now what you need is a bunch of students to whom you can consign "problems" and which will fit into your work.

By the way I found in Crawfordsville a small tree (*Ptelea trifoliata*?) no leaves present but an abundance of fruit. I took some fruit. You can have some if so desired. This species was just loaded with fruit. One carpel developed, I do not know what you usually have in your area, 1 or two carpel develop. No leaves present to ascertain if it was the pubescent form or not. The bole was about 5 feet and the diam. about 8 inches. OVER

The canopy rounded. I have seen this species I estimate ^{not} over 2½ inches in diam. Plan to get exact measurements and photo later. How large diam. have you ever seen. Is it worth while to get photo and follow up on it. In all the plants I have seen one ovule aborts. Demaree, whom I took to see this specimen, told me he knew plants in Ohio with ^{two} ~~but~~ ovules developing. Wonder if he is off, or in ^{two} ~~in~~ difference ranges of the plant ^{two} ~~both~~ do develop. He said he would send me some seed with two ovules. While the books give the fruit 3-celled only two show up with the naked eye. J.A. Harris many years ago made a statistical study of the width of wing with relation to the seed but I find I do not have this article catalogued. Books tell you one ovule develops. ^{is} this not a problem? It seems to me (without criticism) that so darn many college profs. ^{do} ~~to~~ not know there are problems or are to apathetic to tackle one. If I get it right, you might start with the U. of Mich. Can't you get your bichemists to discover some enzyme that will activate these guys. Much obliged for the dope on Metz Flora and Ulke's Flora. I have written for them.

By the way in last number of Schmidt's list I saw he listed Case's Botanical Index, incomplete but it had in it the number I lack to complete my set. I at once ordered it but lost it. There are only 3 sets in the U.S. and I have it complete except last number.

I really string out my letters to you longer than necessary. Guess simply because I feel I am writing to a live one.

"ell I hope to survive my trip to Lafayette. When you get the plants (Eupatorium) you will know I am again on the job.

Thanks again for the Lycopus dope.

Sincerely yours,

Chas. C. Deam.

Glad you got the Schkur publications and that they are so fine.

Deam

Repl. 11/2

STATE OF INDIANA
CONSERVATION DEPARTMENT
DEPARTMENT OF PUBLIC WORKS

Board
Governor Paul V. McNutt
Lieut.-Gov. Clifford Townsend
Virgil M. Simmons
Paul Fry
James D. Adams

INDIANAPOLIS
Bluffton, Ind.
Oct. 31 1935

Administrative Officer
V. M. Simmons

Dear Hermann:- I have your letter of Oct. 28 and the package ^{Ek's plants} came this morning. Thanks for going thru this compost heap. I have not opened it probably will not for some time. I plan to take up Potamogeton tomorrow and I am confident I will not finish for a few days. I only hope I may finish in 4 weeks, if I do ^{we} shall be happy

Got a letter from Fernald and I have Solidago Buckleyi (2 specimens mine and the one I sent him) from Posey Co. A single colony about 3 x 3 feet sq. on a very low white oak ridge just south and east of the Nolta Erwin woods. See Small's Flora, Fernald says, Marion Co, West Va.

MacCracken Co (Paducah) Ky, and several cos in Mo. southw. Fernald restores Solodago petiolaris and scores Mackenzie for changing name. Also Milton

Hopkins borrowed my Arabis hirsuta and as is often the case the Gray people discover something in the Interior. Hopkins says I have several things and probably one new one. I called his attention to the pinnate leaved form which I noted on my sheets as I went over as non-conformists. He says he must now borrow more material so I presume you will get a call.

I am sure that ^{glad to} Juncus articulatus is O.K. Can get a bale of it and more if you need it

As to the Juncus nodatus in the buttonbush swamp east of Livonia, Smith's Lake will say that is O.K. I think I told you I saw the J. secundus in the wet border of the se. corner of that swamp and two farmers came up just as I came to the place (I had noted it as I went in and thought I would take it as I came back) well don't you know those guys just talked me out of getting it. I got so busy asking questions, etc. that it escaped me. Doubt if this will yield us any thing more.

OVER

I return the stamps you sent together with those you sent on the Ek pkg.

Say man if I happen to be any where on the surface of terra firma ^{in the year} it will be by choice and if I am near Clinton it will be to hunt that *Carex lucorum*. This would take your help because the station is not at all clear to me. It was giving me a good sprinkle all the time I was out in that section and I am not any too sure I could retrace the road but I am willing to try it. I will make a note of it and if I can make it I will do so. If we two make it we will find it make one to order.

Mrs. Winch has entered the corrections in the Kribel list

Do not consider the printing of my labels. My days for collecting are over and as soon as we go over my herbarium to change labels I will not need many. You ^{don't} Mrs. Wynch puts on new labels when she comes across an old one. For the past 10 days I have been trying to bring up all odd ends so as to get our job narrowed down to a few things. We now have left Poatamogeton, Najus, Scrophulatiacea, Solidago, and Helianthus. Heliopsis

A few holes to cork up, the largest is *Oenothera biennis*?-*maricata*? Of course the revisions of genera et~~as~~ as they come out necessitate the rewriting of some genera. I feel certain when I get a report from Palmer on my *Carya* I will have some things to add

Glad you got the Holm *Carex* Papers. Just received the Dulau & Co, Botanical Catalogue No.239 and they list No.4:Akiyama(S.(*Conspectus Caricum Japonicarum*. 2 plates,172 text figs.roy. 8 vo.sewed Sappora. .10 shillings This might interest you.

Now I think this brings you up to date.

I am sincerely yours,

Chas.C.Deam.

P.S. Just got Buchenau *Monographia Juncacearum* pub. 1890 by Engelmann Do you want it. I do not know really how much it differs from the other I sent you. Doubtless this more up to date.If you want it holler.

STATE OF INDIANA
CONSERVATION DEPARTMENT
DEPARTMENT OF PUBLIC WORKS

Repl. 11/2

Board
Governor Paul V. McNutt
Lieut.-Gov. Clifford Townsend
Virgil M. Simmons
Paul Fry
James D. Adams

INDIANAPOLIS
Bluffton, Ind.
Oct. 29 1935

Administrative Officer
V. M. Simmons

Dear Hermann:—I have just finished Lycopus and I have the Mrs. make an extra carbon for you. I wish at your leisure you check up your specimens and see if you have Lycopus asper Greene (according to Gray's Man) in Mich. I fear ^{you} we do not know this ^{species} genus. I tried to do something with dried flowers but you can not do it. A few years ago I had L. uniflorus growing here but it was dug before I had finished my study of it. I plan to put the species under cultivation again if I can get seed. If you are out in the wild and find seed of Lycopus virginiana, L. uniflorus, L. rubellus, L. asper, send me just a few so I can get a dozen plants. Make no especial trip but if out and you chance upon them..

Now do not let any of these requests be a pest.

Just got a letter from Fernald and he says he ^P has put 2 mos. in Soliadgo and not done. Also he will be busy until the holiday season which means he will not be in St. Louis.

Sincerely yours

Chas. C. Deam.

P. Benner named all of my specimens in 1930. He had L. virginicus and L. uniflorus variously mixed. I sorted them out according to my key and I now have what seems to be a homogeneous lot. Cut, cuss, and discuss my key or just say not worth a dam, too rotten to talk about it

Do you have L. americanus var. Longii. in Mich.?, ^{Some have petals}

P.S. Have you yet determined your Silene antirrhina var. divaricata we took on west side of the Black woods 4 mi. sw. of Mt. Vernon. I found one of my perfectly glabrous throughout and without glutinous bands. It was the very large plant I took.

Deam

Chas. C. Deam
Fernald Rhod. 17:96 (Can't locate
J. also 12:129-131 || descriptions of var. referred
to on p. 97, var. divaricata)

Rec. 11/2

STATE OF INDIANA
CONSERVATION DEPARTMENT
DEPARTMENT OF PUBLIC WORKS

Board

Governor Paul V. McNutt
Lieut.-Gov. Clifford Townsend
Virgil M. Simmons
Paul Fry
James D. Adams

INDIANAPOLIS

Bluffton, Ind.
Oct. 27 1935

Administrative Officer
V. M. Simmons

Dear Hermann:- Well this is Sunday morn and I will write you the first thing I will reread your letter and take up the items as they come.

No I did not plan to send either a specimen of Eleocharis Wolfii or Festuca Shortii to Gray Herb. I did not have good enough specimens. I do not know if I told you or not. I had it in mind that the woods were those of Mrs. Nora Erwin but I find it is Nola so after this use that name. I must if I ever go down there again get the section, etc. because that stretch of woods will always be classic grounds for me.

As to the disposal of Ind. duplicates here are some figures. I keep a record of my exchanges.

Bartlett, mostly while at Harvard. . . 793, owes me 90
Brown, Clair, Baton Rouge, 28 *Good*
Carnegie Museum, 17, good place to send, but the come back may be darn poor
Dr. E. A. Eames, Bridgeport, Ct. 4, 30, good man
Griscom, Ludlow, 33
Gleason 454
Gray Herb about 400
Gress, E.M. Harrisburg, 22, very mine run
Hapeman, Harry Dr, Minden, Neb about 400, fair
Heller, A. A. over 1,00, and he sold them, His specimens O.K., fine
House, H.D. 91, mine run
Mackenzie K.K., 1388, think all went to the N.Y. Garden
Adams, J.W., Morris Arboretum, 100, mine run
Mo Gardens, probably 300 U.S.
U. of Wisconsin, 518
Stevens, A.O., N. Dak. Agr. Coll. 24, bum stuff
National Museum, probably 300 or more
Nelson, J.C. Salem, Oregon, 125, good stuff
N.Y Gardens, about 1,000, Ind.
Wadmond, C.O. 83, fair, tool old
Underwood, J.K. Tenn, 349, fair, some excellent
Portland Soc. Nat. Hist, A.H. Norton, 100, good stuff
Phil Acad. Science, probably 800, exchanged for publications, at 5 cents ea
Pretz, Harold, 92, good
Wiegand, K.M. 372, fair, too many too old
Svenson H.K. 234, goo, He writes he has collected a lot in the south this year, Good source for stuff
U. of Minnesota, 997, fair to excellent
Marie Victorin, 1, 897, his good to excellent
Core, E.L. 100, poor

OVER

Wells, B.W. Raleigh, 28, poor
Demaree, Delzie, from Ark. 371 fair to excellent
Bright, John, 540, good
Knowlton, Clarence H. 500 good
Milwaukee Museum, 132, poor

I gave you these exchanges so you can see where my plants are and you will not duplicate.

The plants you want I have not collected this year. I will in due time send those I proffered, although I have no *Solidago petiolaris*. I had only two specimens and one I have sent to Fernald. ^{Have live plant} This year I collected a peculiar form of *S.olidago ulmifolia* [var, *latifolia*?], I had it two years ago and Friesner says it was an undescribed variety. Seems to me not a var. of *S. ulmifolia* at all, Did not go into it tho. I sent Oct.6 about 10 sheets to Fernald and told him to hold out what he wanted and return the remainder. I have not seen the specimens or heard from him yet. Will send you one if I ever get any back and if worth any thing.

As to the *Eupatorium* sp. nov. you are to describe it. Please tell me just what you want me to send you, how many. Shall I send all my *E. serotinum*? I have no *E. cuneifolium*. I have sent *serotinum*, 1, from Ark, 1 from Miss. and 1 from Va. Let me know and I will act P.D.Q.

Hope you will look into the *Ilex* problem. If after I send you my specimen of *I. vert. v. padifolia* if you wish a live plant I can divide my colony and send you one next spring.

As to the Palmer-Steiermark Flora. Got a letter from Palmer and he wanted to send me a gratis copy. I had already bought it and had it bound. I wrote him thanking him and told him if he had a surplus, that you was a "deserving democrat" and would accept small favors ^{ex} without any obligations. So if you chance to get a copy you will not ^{be} the reason in part.

Palmer & Steiermark have tried to pad their list and have made no taxonomic notes. I note what you say about the *Carex* situation. I have met Steiermark and he may be a little pug-naceous and over estimates his own judgments.

In regards to Walter's *Agrostis hiemalis* will say I have tried my best to find it in my Ind. stuff. If I have ^{it} I do not recognize it.

I had several sheets of *A. antecedens* from Pretz of Pa. but I may be just too dumb. "hen you come down some time I will ask you to go over some of my material and see if I have it. I have made a memo to go over my material again if I can find the time to do so before I publish. I do not understand why if it is a good species that Hitchcock junked it. That may be why I did not give it the acid test. I know Fernald things^K it good but I presume I left it for the higher ups to fight it out

Glad you have a complete set of *Rhodora* at hand. You can't keep house without them. Too it would be nice if you had your literature card indexed like I have so you can turn to any thing you have(literature). I have a species index(the species that occur in Ind only) Wonderful help to me. If you could work in some of the alphabetical help, I would trust you to copy mine, I mean my cards. Of course my cards would include some literature you would not have. I wonder if the time will ever come when the bibliography of a species will include all references to the species. Fine if one would have the dope on it.

No additional reports for Kriebel's *Carex* needed. Only the new ones as you have sent. Thanks for them

I sure am glad you are interested in *Silphium*(I mean the *S. complex* I sent you.) Now the problem with you will be to get other collections from the sw., etc. Hope you will also get interested in *Rudbeckia*. This is a showy and easily grown plant and surely "acts up". I can send you live plants of a lot of stuff. Miss Panta got *Rudbeckia bicolor* Nutt. this year in the "flats". Bush sent me herb. specimens of *R. missouriensis* but no live plants Plants too immature, I fear the seed will not germinate. Will try a few heads

I am glad you take to the *Napaea*, This is a rare thing but does excellently with me, needs black loam. I hope you succeed with the *Lactuca campestris*

I got a letter from Stebbins(assist to ^Wabcock) on the *Lactuca* I sent them They say *L. campestris* is new to them, that is they do not know the species and are glad to have the few seed I sent them. So this species? must be little known. E.E. Sherff told me long ago it was ~~xxxxxx~~ over

a good species. If I see Sherrf I will ask him more about its habitat. All I know is what he says in his Skoki Marsh report. I think I told you the varying color of the latex of *L. actuca* and the *L. spicata* of Ind. has two colors. The blue-flowered *L. spicata* has white latex while the slightly yellow or almost white rayed form has brownish latex, but the p ppus of both forms brownish. Needs looking into, maybe I am off on my determination. Yesterday I was out 15 miles and I found a woods with a lot of *L. actuca Spicata?*, only stems now. I went to get seed of *Lycopus uniflorus* or *L. virginica* but could not find any. Also went to check up on a colony of *Botrychium dissectum?* I have had under observation for three years. I wanted to get them in fruit and yesterday I found both forms growing together and in fruit. This is the second time I have found both the *dissectum* and *obliquum* form together. Few people get em in fruit because they fruit so late. Last year they did not fruit, think it was too dry, year before I was there too early, middle of Sept.

Now as to regards to the *Gleditsia* will say I have compared the seed of this narrow boy with two bottles of seed I have here and this narrow pod has very much smaller seed and it is a trifle more oblong. The seed of *G. aquatica* and *G. texensis* are orbicular and large. I hope you can spare the space to plant all the seed I sent and hold them for two years to learn what percentage have thorns, etc. I have a young tree here but not old enough to flower. Now if I am in the area where the darn thing flowers I will collect flowers. Don't want to wish you any bad luck but wish you and could make another trip around Ind. next year in *Carex* time or some other time to suit you. The Bartlett note of interest. Now about the germination of the seed. I planted 2 four feet rows of the seed two years ago and got only 6 germinations. I planted possibly 60 seed. Seed should be scarified. I have just tried a revolving leatherpunch to break or nick em but slow work. ~~xxxx~~ Another job for some "Fera" girl.

Believe this brings me right up to date on correspondence. I am sincerely yours, Chas. C Deam.

STATE OF INDIANA
CONSERVATION DEPARTMENT
DEPARTMENT OF PUBLIC WORKS

INDIANAPOLIS

Repl. 10/28/35
Administrative Officer
V. M. Simmons

Board
Governor Paul V. McNutt
Lieut.-Gov. Clifford Townsend
Virgil M. Simmons
Paul Fry
James D. Adams

Bluffton, Ind.

Oct. 23 1935

Dear Hermann:- I have the list of the Banta Carex. Many thanks for it and the corrections.

I note the Schker pub. offered by Fiedler. Go ahead and buy them and send me the bill and I will loan them to you until you are thru with them. If you get them send me the bill and I will send you check at once. I enclose you 20 of the Jefferson County labels. Just mark out my name and add hers at the bottom. If you get that printing press going and use as good paper as I use, best grade of bond paper about 16-20# paper, I will give you 75 cents for 500 of each kind I may need.

I note what you say about Scirpus eriophorum Will work mine over again but do not believe we have it. It seems to be Coastal Plain stuff. Yes I need to get onto Bartlett's alibi business but mine comes by mail. This mail Fassett wants all my Atragalus canadensis, and Gray herb. wants all mu Arabis hirsuta. So it goes I had planned to start Lycopus this Monday morning and not a tap as yet. All correspondence, reading Ms. for some one else, etc. Cheer up we hope the worst has come.

Best wishes, I am sincerely yours,

Chas. C. Deam.

Recd. 10/23

STATE OF INDIANA
CONSERVATION DEPARTMENT
DEPARTMENT OF PUBLIC WORKS

INDIANAPOLIS

Administrative Officer
V. M. Simmons

Board
Governor Paul V. McNutt
Lieut.-Gov. Clifford Townsend
Virgil M. Simmons
Paul Fry
James D. Adams

Bluffton, Ind.
Sat. morn., Oct. 19 1935

Dear Hermann:-I am sending you the few seed I have for you. ^{an} cut off the Agave by mistake.

The Acer Schneckii were collected this morning and are green, Please get into package and open this one up.

Lost my ball of twine in operations and had to paste some of them (bags) shut with tape which I despise.

ay I enclose a few thornless honey locust which you did not order. Plant the lot and see if they come true to seed. Please note the very narrow pod with little or no gluey stuff inside. I believe this is a good species? The pods is entirely different from any honey locust I ever saw. Found two trees both with these narrow pods. So far as I know nothing has been done with this tree as to study it. Good experiment to plant a population of say 1000 seed .and see if they all come true. (Interrupted here two hours.)

Will mail this as I go up town. I am due up town this minute. This P.M. Miss Edna Banta and an Ind. U. assist. in botany come to be here until Sunday P.M. She wants to publish on the Flora of Jefferson County. I want to hold her off for another year yet if I can. Prof. Welch has sent me her Relict Paper to go over. I am getting as bad as you, being ridden to death. I had planned to take up Potamogeton next week but I still have a few holes to stop up in the Ms. [^]esterday I ~~fixin~~ finished Steironema. This is a genus that is badly in need of revision. I am not able to find a character that will hold in their classification.

Best wishes, I am sincerely yours,

Chas. C. Deam.

Recd. 10/20/35

STATE OF INDIANA
CONSERVATION DEPARTMENT
DEPARTMENT OF PUBLIC WORKS

Board

Governor Paul V. McNutt
Lieut.-Gov. Clifford Townsend
Virgil M. Simmons
Paul Fry
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INDIANAPOLIS

Bluffton, Ind.
Oct. 12 1935

Administrative Officer
V. M. Simmons

Dear Mr. Hermann: Your nice letter of Oct. 9 here. Many thanks for the one for Mr. Ek. Glad to learn the Juncus is new. Evidently introduced along the railroad??? Well I am not starting to write you a long letter. I just want to clear my desk and next week get down to work. Last Sat. E.P. Wilson of the forestry dept. and I left on a 5 day trip a la Deam-^{er} Hermann gait. We covered much the same territory you and I went over. Our best find was in the Erwin woods or rather an adjacent one (only a wire fence between. I found a small colony 3 x 3 ft. but only two plants in flower. Solidago petiolaris, new to Ind. We got specimens of Carya sp. probably 4 sp. from 4 trees at the Siding about 4 mi. south of Vincennes. Can send you specimens if you care for them. Also got a few Carya seed of Carya alba var. subcoriacea Sarg. Can you use them? Got some live specimens of Rudbeckia of the R. hirta complex. Got live specimen of the Solidago also Also got a specimen of Smilax ^{puberulenta} lasioneuron but did not run across any S. echinrata. We covered too much territory and failed to find some items I looked for, notably the Leptochloa floribunda (old name) Known only from Ind and Miss. Got Paspalum repens, and Leptochloa filiformis (You can have any of these. No hurry to inform me because I will not distribute my plants until after the holidays. However, I lay out plants I know are desired.

Say I have always been interested in Ilex verticillata. and a var. padifolia??? Our norther form has obovate leaves and is a large shrub, usually 6-12 feet high, blades comparatively smooth beneath, large, obovate, sparingly pubescent beneath. Then we have one in the "flats" in southern Ind. that normally grows 3½-5 feet high in clusters. OVR

Leaves elliptic or nearly so, usually about $\frac{3}{4}$ -1 inch wide, yellow green, usually very pubescent beneath and strongly rugose beneath, margins of blades usually inrolled on drying. This plant I am calling var. *padifolia* but it seems it should be a species. I do not have enough dope on it. Would like 25 seeds of your kind if you chance upon a colony yet this winter. I want to try to grow em here. I have planted several plants I have dug and they promptly die for me but the ^{Clark} Scott County plant I have has multiplied and is fine. I can send you a fruiting specimen of it if you can use it. I grew it here but original plant from ^{Clark} Seett. Co. A woman sent me a leaf from both kinds and she says she got them from the same swamp in Carroll Co? Now this puts a little different aspect to it. Do you have any dope on this problem.

Now I wish to thank you very much for the data on *Pilea*. I am too ignorant of botany to know difference between seed coat, etc. Shall use your term, etc. Thanks. This will keep me off one of Fernald's rocks. I looked hard for *Pilea* on this trip but all vegetation was frozen in sw. Ind. The freeze down there was much harder than up here but I did find one *Pilea pumila*, not very good leaves but seed are exceptionally small. Can you use a specimen? When I was the ^{Gray} Herb. guess it was 2 years ago when the meet was there I tried to show Weatherby how nicely the surface and inner "seed coat divided the two species and he could not see it. Guess they have got the idea now. Have you seen any thing like Lunell's *P. opaca* (fruit orbicular) ^{Ho} The contrasting statement of length of petiole should go in and I will do so, although the character is not very diagnostic in the extreme plants but will be a good guide at least. You know this segregate is an example of how we can overlook things

Now as to the *Eupatorium*. I have written Miss Banta and asked her if it would be O.K. for you to go ahead and name it. I have not said a word to her about calling it *Batanum*? You go ahead and name it what you please. I shall be glad to loan you all my *E. serotinum*. I have about 40 Ind. sheets these should give you some idea of em. There are other cognate species you might wish to see and if so such as *semiserratum* let me know and I will

Yes

send them all up. I do not find that Small in his Flora touches this thing and Fernald & Griscom in the May Rhodora take up some forms of Eupatorium. I find no recent literature on Eupatorium that applies to this species. While B.L. Robinson was a specialist on this genus I do not recall that he ever published any thing to apply to Ind. Eupatorium. It not quite likely this is a sport or endemic to southern Ind. It may be a frequent plant in the Miss. Valley in places. I see the Mo. Flora contains the Eupatorium cuñeifolium var. semiserratum. I have a specimen from Ark. that does not look just right for the last named species. It is Demaree's collection. Now as far as me sharing the job and honor of naming this scamp, I am "off the record" entirely. I never expect to try to describe a plant except I am compelled to do so. If I see something and I can not convince any one else, I will have to wade in. It might be worth while to go thru Greene's publications and see if he has any thing on it.

I note you can buy Coste's Flora in Wheldon & Wesley Cat. just received for 10 pounds and 10 shillings. I paid \$22.00 for mine

Your observation on Sporobolus is surely fine. I have never experienced any trouble in separating them on pubescence of lemmas, too the lemmas of neglectus are so much thinner, etc. When once you can distinguish them it is easy but that is begging the question. What one needs is a key to help the amateur. Thanks.

Things this brings me up to date so I will sign off.

Sincerely yours,

Chas. C. Deam.

P.S. In regards to Fernald's review of Hitchcock's Manual I will say I do not like it. I have no objection to what he says but the ways he says it "In these later days" you can call a man a liar in diplomatic language and spare him of ^{the stigma of} offensive language. Well time will work out the differences in Panicum sp. I have followed Hitchcock except in P. Wernerii, P. barbulatorum but while I follow him in P. ^Ashei and P. commutatum I comment on them that I think they are the same. Doubtless quite distinct in the extremes but too near a lineal series. OVER

After I had this written I received a letter from Chas.M.Ek to whom I called attention to the *Lactuca Saligna*. He had collected a long series of it because our manuals think it rare. I called his attention to what you said about the color of the flowers and he said he thought them yellow. So he observed and I copy his remarks: Sept. 29 I found a few patches of *Saactuca Saligna* with a few bloom. The anthers are a deep yellow; the rays are greenish-white on upper or inside. Dividing the ray into its five parts, - on outside the outer parts are greenish-white and inner 3 parts are distinctly blue, - that is 3/5 of ray is blue on outside. The inside might, I presume be called a light or greenish yellow (I am rather poor on color but my artist daughter is well nigh perfect in colors, tints, shades, etc.). I have copied verbatim. Now this leaves a point for observation. It is hard on the sections, *Lactuca* and *Mulgedium* if we have a mixed colored flower Keep this in mind and I will do the same and if we should get together next June we can look into the business.

Deam.

Digitized by Hunt Institute for Botanical Documentation

P. S. I just got the Kew Bulletin for 1934. It contains a paper by Prof. H. W. Rickett of the University of Mo. on the plants collected by Bradbury in Missouri Territory. Rickett worked this up while in Europe at Kew. You may know him well enough to ask for a separate of the paper or ask him any how. On page 59 I note he makes a new name which interests me. He calls *Lithospermum linearifolium* Goldie of our manuals *L. incisum* Lehm. I wrote Weatherby about this sometime ago and he says it is O.K. I think you have had this reported from Mich.

Deam

UNIVERSITY OF MICHIGAN
ANN ARBOR
COLLEGE OF LITERATURE, SCIENCE AND THE ARTS

JOHN R. EFFINGER
DEAN
W. R. HUMPHREYS
ASSISTANT DEAN

Oct. 9.

Dear Dean:

The package of Mr. Ek's collections from Howard County has arrived and I am grateful to you for your trouble in

separating the Carex and Juncus and bundling them up for me. I shall make an attempt at naming them before long although they are a discouraging lot. Now it is a problem to know what to do with such stuff.

They cannot by any courtesy be called specimens, of course. I don't believe there are more than one or two sheets in the lot which I would ~~not~~ be willing to add to my herbarium so I doubt if you will want to admit them to yours^{and}. Even if you should, I don't see how they could be mounted since most of them are too large for the sheets. Yet if county records ^{based upon them} are to be published they must be

STATE OF INDIANA
CONSERVATION DEPARTMENT
DEPARTMENT OF PUBLIC WORKS

Repl. 10/9

Board

Governor Paul V. McNutt
Lieut.-Gov. Clifford Townsend
Virgil M. Simmons
Paul Fry
James D. Adams

INDIANAPOLIS

Bluffton, Ind.
Friday eve. Oct. 4 1935

Administrative Officer
V. M. Simmons

Dear Hermann:-Well my man got sick and could not go on schedule and we are to go tomorrow morning if nothing happens again.

I have bundled up the Carex and Juncus from Ek and Mrs Deam will mail them tomorrow. When you get them and write me wish you would write me a separate short letter that I could forward to Mr. Ek. Telling me receipt of package and what a mess of stuff it was, etc.

By the way, I separated the Juncus from the Carex and in the Juncus you will find one that is new to me. I did not even try to determine it but I know too well I never saw this species any where. Probably this one find is worth all the trouble it takes to go over the lot. You take out what you can use and return remainder to me. I had labels printed which are on top of the box in an envelope. I enclose ~~in~~ one Carex I overlooked when I sent mine. Please check determination and report.

I also send you two Pilea fontana. You should be ashamed of yourself for picking such baby plants as you sent me. Now I find in the lot one leaf with 10 teeth on one side so my key must be modified to read 9(10) teeth. Well this Pilea fontana interests me, The large ones are at where spring emerges (underground) Must be that the plants get more lime or what ?? By the way I have just looked up my accession book and I find you and I were there and got the Myosotis scirpoides so you recall just what a place the habitat is. Ordinarily ^{in all habitats} the plants are 4-6 inches high and thick as hair I have found them mostly in among old cattails or in such a place. Are you getting a kick out of them. The large plants were fully 1/2 inch in diameter when collected. They grew up fell over, then grew up again and fell over and then the top about 10 inches tall. Just as pressed. OVER

Now ordinarily the plants are simple or nearly so. ^{always simple in small plants} I have sent you one large simple one and one branched one. I have others that are as much branched. You see Lunell when he described the plant did not have the material I now have. Most all of mine was small until I found the St. Joseph bunch. If you wish to see all of my Pilea I shall be glad to send you the whole outfit. I think I have the best lot in the U.S. I have been for years collecting them in mature fruit and the fruits are in envelopes, etc. There are possibly only the two species in Ind. The Pilea opaca has roundish ^{Oh} fruit and none of mine are roundish. When once you begin to study the two species you wonder why Gray was so dumb. I think P. fontana is a beautiful species and interesting from an ecological standpoint. If you get it into your head to write on Pilea get my junk. Do not forget to let me know about the Eupatorium ^Bantiana.

Hope to get some items on this trip if it ever comes off. We can now be out only 5 days. I am very much interested in herbaceous Smilax and I will try to load up on them if possible. They are ^{as above} so in growth as Christ's second coming. Mine did not even budge this year. If you know any thing to pep em up let me have the dope.

Well I presume you will be interested in the ^Aew Flora of Missouri by Palmer and Steyermark and the new Tradescantia publication by Anderson and Woodson, pub. by Arnold Arboretum. I have not had time to go over either. However, I note that Palmer & Steyermark have not omitted any var. or forma. I must go over page for page to get ideas for my work. I note that they have Polygonatum cantulatum and var. This is a genus I must look into. Bush writes me that my autumnal flowering Rudbeckia must be Rudbeckia missouriensis ^{it} and promises to send me a live specimen. I had hoped to get to Jefferson County ^{Ind} and get a lot of live material this trip but must miss Jeff. Co. Too much gossip, no wonder I get nothing done. Wrote Woodson about the change of name of Apocynum hypericifolium (See Fernald in late Rhodora). Woodson says A. hypericum is O.K. and gives plenty of good reasons. More about this but I will pass. Sincerely yours, Chas. C. Deam.

Many thanks for the specimens.

Deam.

STATE OF INDIANA
CONSERVATION DEPARTMENT
DEPARTMENT OF PUBLIC WORKS

Repl. 10/9/35

Board

Governor Paul V. McNutt
Lieut.-Gov. Clifford Townsend
Virgil M. Simmons
Paul Fry
James D. Adams

INDIANAPOLIS

Bluffton, Ind.
Sept. 30 1935

Administrative Officer
V. M. Simmons

Dear Hermann:- I have your two letters and I must hurriedly reply. I plan to leave Thursday for a 6 day trip that may fix me. I was out yesterday (350 mi.) trip and to day I am all in. I went to get *Carya* and a peculiar form of *Solidago ulmifolia*(?) I also stoped to get some real *Pilea fontana*, none of your small stuff but plants 3 ft. tall and a half inch in diam. Do you want one? Peculiar thing. On the south bank of the St. Joseph River evidently a series of springs emerge. They form a large boggy area, probably 100 x 100 feet. Out away from where the springs must emerge the plants are mostly 6-10 inches high but up near the bank where it is very boggy the plants have grown up and fallen down and all curled up with the tips up 6-10 inches high. A light frost did hit some of the leaves. I hurried looked at my specimens but so far as I counted the 9-teeth holds Say you may be interested in my key. I enclose my duplicate which please return. Will you please freely criticise. Think I told you I tried to convince Weatherby that *P. fontana* was a good species but he would not give in. Something must have convinced them. May be they "looked at" the plants

Say is Mrs. Erlanson at U. of Michigan. I got a separate of her latest rose paper and the hand writing looked like hers.?

Please do not swear. Last week ^{627 m old} r. Chas. M. Ek of Kokomo was over here and he brought with him the plants he collected. Now he is a "down and outer" right. He is a graduate of Indiana University, worked about 25 yrs in Plate Glass Works and now penniless. Last two years he has walked all over Howard County and collected plants and dried them between newspapers. Has had no instructions how to make a specimen although he spent several years at Ind. Biol. Station at Winona many years ago. OVER

He is very obstinate and probably would not learn. Well to be short in "order not to go crazy" he went to collecting. He has been able to add several things to the Ind. Flora, all introduced plants from railroads. Since Howard County is almost all cleared and farmed he has done well to find any thing. Well he found a lot of Carex and some Juncus, one very peculiar looking thing. I did not attempt to name it and he said he could not. Now I want to send you the whole lot and let you look it over. Any thing you can name O.K. You take from it what you care to. Then return me the remainder. He has no accession number. I think the Juncus worth the trouble to name the lot, if new to Ind. which it must be. The trouble is he just pulled the plants and are poorly dried and it will be hard to make a decent specimen. Of course all you can name and do keep a specimen, it will go on the map as in your herbarium and if I keep any it will have two letters. He wants to see Howard County represented as much as possible. He plans to collect next year but the whole lot will be too late to go into the Flora but I have promised to take any thing he gets if a good specimen is made to pay him 5 cents each, Poor devil he needs it. When he left he asked me for any discarded ^d under cloths, socks, etc. So the subject is part charity on my part but so far as you are concerned it is a matter of business. Since I am going away and no telling what shape I will return in I may send them on right away if I can find time to wrap em up for you. I will get a label printed and my assistant will send you some as soon as off the press.

Sorry to learn you have tonsilitis. Though you was a grown up. Here is hoping you are O.K. ere this.

I note how you are buried in work, Now do not kill yourslef. But do remember you are to write Juncus and Carex.

Hydrocotyle americana found only twice in Ind. Miss Banta found it it in the outlet of a spring, Water seepin out of side of cliff (unstratified rock) and on edges of seep where there was a little soil this plant grew on a north slope. I found a few plants in Lagrange County in a quaking bog in among young tamarack in sphagnum with cranberries. Only a few plants and these probably now all gone as cows were turned into the place last year

I note what you say about plants going crazy as to environment. This is true of some I know. How it will hold for all I do not know. I know Aronia melanocarpa a typical bog plant in n. Ind. I find in crevices of rocks (in the unglaciated area) in the knobstones rocks, unstratified. Also others. Say I have treated Ilex verticillata as one species but I must revise my write up. I now think I may have a different species in s. Ind.

Say we are moving the Atlantic Ocean nearer to Ind. each year. Kriebel has found Panicum ^{mattamuskatense} ~~muscaten~~ in Lawrence County in two places.

Your finds in N. Mich are surely interesting and one wonders where all the botanists have been these years. Bartlett now in the antipodes rooting around and last year in Mexico. May be in due time he will discover n. Mich like ^{Er}erald has discovered the interior of the U.S.

Equisetum 56,111 is E. kansasum Schaf. *Swiss Lake W*
Equisetum 56,114 (Beaver Lake Ditch, Newton County) E. laevigatum A.Br.

I did not take a specimen nw. of Earl Park, Benton County

Yes I feel sure the ^Kestuca at the roadside Erwin woods is O.K. F. Shortii. I have it from a like habitat from same County and it had the "look" when we took it.

You mention ^Descurainia to me again and you get a kick. But this man Ek has collected it several times and I got his stuff now to go over, so you will hear from me later on on this subject, darn this lousy bunch. Now Schulz should know crucifers but like so many European authors they never have sufficient American material to form good judgments, even if they are not biased

es I have a few seed of Baptisia tinctoria ? and also Baptisia alba? As to blue-flowered ^Lactuca Saligna. Now I hate to say so but I do not believe you have the blue-flowered plant. Ek told me that the flowers came out yellow and then went blue. I admit a very peculiar transformation. He left some with me and that is what he says happens. I have seen the roadside yellow with it but I ^aswear if I ever saw a purple one. Must investigate this?

OVER

I did not know you had a live specimen of *Eupatorium Bantiana*? Mine are O.K. and I have just pressed them. I have given them only the first over and while it simulates *E. serotinum* yet it has sessile leaves and I suspect study will reveal other differences and it will prove to be a new species. Will you describe it? I have about a dozen specimens if you need em for study. Miss Banta wrote me she found it another place. If you will describe it let me know. If not will you or shall I send it on to some one to name. I can not do it

Guess this is all. You ask me about *Sagina decumbens* var. I determined it to be *Sagina decumbens* and I never knew there was a variety. Will look into this tomorrow before I close this letter. I am like yourself just too darn busy to accomplish much. Too much company, foresters, botanists, etc. Got a letter from a Niles Mich. Landscape Architect who wants to come here and have me show him my arboretum. Lord I have no arboretum and how he ever got the idea? Ek took two days last week but I think it well spent.

Thursday I go with an amateur forester and botanist who is assistant state forester He is to drive me around Ind. 6 days and I am to select the places to go. I have many things I want to check up on. By the way I got some plants from Kriebel today and he had in the lot that *Stachys Clingmani*? and one of the *Stachys cordata* bunch he could not go. I now have several collections of the *Stachys Clingmani*. When I conclude my study of them I may write you.

Must sign off or the "sand man" will make me quite

Sincerely yours,

P.s. I have looked at the *Sagina* and I find some petals. Do Chas. C. Deam have Coste's *Flora of France*, if so look in it about it. May be you have a better book on it. I have lain out a specimen for Gray Herb. and asked them to report on it. Will not send them any thing for a month or more. Will let you know their decision
Deam.

Repl. 9/23/35

STATE OF INDIANA
CONSERVATION DEPARTMENT
DEPARTMENT OF PUBLIC WORKS

Board
Governor Paul V. McNutt
Lieut.-Gov. Clifford Townsend
Virgil M. Simmons
Paul Fry
James D. Adams

INDIANAPOLIS
Bluffton, Ind.
Sept. 12 1935

Administrative Officer
V. M. Simmons

Dear Hermann:- Well the Carex & Juncus go forward tomorrow morn. Al ready to go now. I did not clip off the base of label thinging you might wish to add something to the label. I send all I have, many only a single specimen. Take until your conscience hurts and return the remainder by mail and I will promptly return postage.

Well Fassett was here over week end after he left I felt so bum I canceled my Fall trip and today I feel so much better I regret it. I had so many things I wanted to check up and collect. I am getting old very fast. Fear by next year I will be ^{ca}inapitated but I guess you and I have pretty fished out the Carex.

I have your letter of Sept. 4 and I will answer it. No I did not know the U. of Mich. owned land in Upper Peninsula. Fine that you can get up there and check on some of Fernald's finds. He has a lot in last number of Rhodora He has discovered that our Lithospermum caroliniana is not that species and is new and he calls it L. croceum. Guess that is all the changes his paper makes me change. He surely did through a wrench into Geum in a recent paper.

I am sure interested in your finding of Juncus militaris. Again the east shakes hands with the interior. Rosendahl says he has many Coastal plants out in Minn. I know nothing of geology but I am of the impression that where ever you find the same geological era on the surface you may expect to find similar plants. I know you have not read the British Jour. Ecology. I was ^{just received} reading a review on page 543 on the origin of the Mediterranean Flora which is worth reading. It might give a suggestion to the solution of our problem.

Cornicum praecoxius
Eupatorium *Sippia*
Agrioxonia

Hydrocotyle
Pilea

over

Will send you some seed of *Lactuca campestris*. Forgot to enclose the seed of *Spigelia* I got for you, only a few seed. As to *Lactuca Saligna* it is a common sand ballast plant in many parts of the state and also a roadside weed in se. Ind. Common all along certain railroads. All plants I have seen are yellow. ^{flowered} Am interested if you have a blue-flowered form. I do not believe this color business of *Lactuca* has been settled. Babcock plans to plant and study them. If you have a blue-flowered plant ⁺ would like one.

I have no technic on *Wolfia*. This year I did use very thin cellophane bags, 1/4 and 1/2 pound size to put in *Lemnaceae* and then just put them in my driers just as usual with all the moisture in them and they came out O.K. Your technic ^s is a novel one and doubtless can be so improved to be 100% success. Write it up in your next paper and then other guys will improve it and let us know.

Guess this answers your letter. Sorry to be so curt but I have not struck a lick at advanced work for a week. Fassett came here and tore up a lot of stuff, among which he said he was raised on *Baptisia tinctoria* and that our Indiana plants are not that species. Also that we have two species in that group. So Sunday we drove 288 miles to a place where I knew a colony grew so as to get seed, photos, etc. ^u We will plant some of the seed. Can you use any of em. I have a large one growing here in my garden for 10 years or more and when Pennell was here 6-7 ² years ago he said at once that my plant was *Baptisia alba*, ^{Coarctata} although flowers are yellow. My terminal spike this year had 40 flowers on it and pods are 4-5 times as large, taking this from memory. I have a nice lot of the seed of the large form of this complex. I do not have time to study them and Father Time will have me safely lain away before that time but if you can use any of the seed say so.

I am sincerely yours,

Chas. C. Deam.

Repl. 9/22

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INDIANAPOLIS

Bluffton, Ind.
Sept. 18 1935

Administrative Officer
V. M. Simmons

Dear Hermann:- I still have a few seed here that might be of interest to you before I cut I submit my list and if you can use them (limited quantities) let me know at once. Check these if any you can use.

I have already cut a few of each of my Silphium, hoping you would take them and try and get some one interested in this complex, -Silphium integrifolium-trifoliatum. Schaffner says it offers a great study. I have plants with alternate, opposite, trifoliate and quadrifoliate leaves all on one plant and some somplants variuously mixed up. Some of those high powered geneticists or phyllogonists might get a snoot full of this problem.

Digitized by Hunt Institute for Botanical Documentation

In haste, I am sincerely yours,

Chas. C. Deam.

P.S. Wish you could shuttle back and forth more. I would like to work over with you some of my nuts such as Smilax.

Say I reworked my Pilea pumila and fontana and I now have it fool proof, 2 species sure as gun. You know I plant I think 6 plants of Smilax (herbaceous species this year, and I dug a lot of the root system, in fact the whole thing and the darn plants have all just marked time. In 1922 I planted a root of Smilax Bona-nox as large as a bucket and today it is not more than 30 inches high. Says species of this genus must not be in any hurry. By the way I forgot the very species I had in mind for you, in 1922 I planted a seedling 2 ft. high of Acer saccharum var. Schneckii and this year it has seed can you use some, how much. Also I took flowers and fruiting specimens, Can you use a set? You know Schneckii is a pubescent petiole form of saccharum and the pubescent petiole form of nigrum is un-named. All trees of Schneckii I have seen seem to be of a gnarly type. Mine here wanted to grow crooked and all the branches wove together. Had a hard time to make the sort of tree out of it I did. Come down some week end and let us mill over some of the nuts.

Deam

Aug - 26
Repl. 9/4

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INDIANAPOLIS

Bluffton, Ind.
Aug. 26 1935

Administrative Officer
V. M. Simmons

Dear "ermann:—At last I restudied the dam Descourainia and the best my senile mind could do was to lump the whole mess into D. brachycarpon. I do not like the Macbride separation on pubescence and I do not believe it will hold. It will take a past master on Crucifera like Schulz to pass judgment on these characters. The up and down of the glands I do not believe will work. I went over some related plants such as all my Arabis lyrata, Sisymbrium Thalianum, Cardamine pennsylvanica, etc. to see how the hairs acted on the base of the plants and it helped me none. Now the plant "ernald got does seem to be different. It is really pubescent, in this instance ^{plant} simple, may be due to habitat, but the style is 40-50% longer, ^{than that of said plant} seeds in one row. Now I will be 70 this Friday and "ather Time is so close on to me I can not take time to fiddle with this problem. I thought E B. Payson did something on it but I can not find he did. Payson was a good student of the Cruciferae. I note that A. Nelson in his Flora says the mess is hopeless. The combination D. brachycarpon (Richardson) G.E. Schulz you will find in Munz Flora S. Calif. Munz separates D. pinnata and brachycarpon but I could do nothing with his key and my specimens. If you have the Pflanzen Reich, may the complex is treated in it satisfactorily "ell the die is cast. In the Deam Flora if will be D. brachycarpon, at least until further evidence comes in. Sorry I can not follow you. Many thanks for the generous loan of specimens. Any time you can use any of my junk just holler.

I will send you all the Carex, Juncus, and the "escourainia plants tomorrow. I am sending you all the unmounted plants I have with one label for each number. Help yourself and return me what is left. Do this at your convenience. I put all the Juncus in one box but later found 2 numbers OVER

If I get any more junk this fall I will send it in. I think I am about thru. Went last Saturday (33 miles) out to Newton County where you and I got the large Equisetum on dune at bridge at the ^{beaver} Lake Ditch. Well about 10 days ago I was returning in a hurry (looked like rain and it did start to rain soon and kept it up all day until I got home). Well I got out at this bridge and I found a single specimen of Lactuca campestris. I hunted for a half hour for more and Saturday Mr. Barnes who drove me and I scouted around for nearly three hours and were able to locate only one more plant. I will send one on to Wabcock. Books seem to take no stock in this species but when you see it alive you at once know it is something new. I got some mature seed, if you want a few let me know. Too I found Euphorbia glyptosperum ^{spk} as common in the prairie. On that trip I also found a peculiar Scleria and I went to get more of it and we were able to find only a single specimen more. These Sclerias are a tough lot. Here interrupted, now 4 hrs later. Fellow here who plans to go with me or vice versa on Oct. trip around the state. We leave here Oct. 3.

In the lot of specimens I send you tomorrow I will send the few Spigelia seed I was able to collect from our plants here. This is a bad one to get. A few capsules mature at a time and you can rarely get more 1-3 on a plant a time. May what send you will help some one get a start
Thanks for the loan of specimens.

Today I found time to read an hour from "Symposia Commemorating Six decades of the Modern Era of Botanical Science Vol. 1, Nos. 1-3 Iowa State College Nov. 15-16 1934. This has a lot of good articles in it and if you do not have ^{it} get it. I do not know who sent me my copy, came express prepaid, think may be it came thru the Iowa Acad. Sciences. It is quite a book 352 pages, Oct. ^{paper} covers. No doubt the University library has it. I enjoyed Sinnott's article very much. He is a high grade fellow.

Well I guess I have most of the June trip worked up. Have you done all of yours yet? I have lain away the Stachys.

Guess this is all. Sincerely yours, Chas. C. Deam.

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INDIANAPOLIS

Administrative Officer
V. M. Simmons

Bluffton, Ind.
Aug. 16 1936

Dear Hermann:--This is to let you know that the two specimens you sent are here O.K. Will try to get to them next week.

Got in last night from a 3-day trip to nw. Ind. Got a lot of good stuff. I was shown and collected *Talinum rugospermum* and *Selaginella rupestris* (in the dunes) + yesterday I found a *Lactuca* with rose color flowers that belongs to the *L. canadensis* complex but is not that species at all. I could find only one plant about 30 inches high with runciate and spinulose teeth. Think it is the *Lactuca campestris* that our manuals do not know. Think that Sherff told me of finding it. Wish I would have had more time to get more plants. I got one good one and I have kept some seed for Babcock so that they will not be heated in press. In due time he can tell me if he will what it is. I will bet a farm I never saw the animal before. The praries are reddish-purple with *Liatris* now. I went out there to get an *Artemisia* I found one time but too immature to make determination and now field in corn. Dam it. Found a *Euphorbia* as common, I did not recognize but I may have it. It is glabrous and semi-erect in the grass (tall) I neglected to take a specimen of the mature grass, may be + could have determined it. Looks like blue grass but stems are wiry and heads on yet. I just must get back there. It was south of Conrad at that bridge where we got the *Quisquetum*. There is a dredged ditch that leads off west from that place and I followed it a $\frac{1}{4}$ mile.

OVER

Lactuca saligna
Boltonia

I was pushed for time so I had to limit myself to about a half hour. I spent 3½ hrs over in Jasper County in the Game Preserve. Vegetation is so rank this year and I just could not stop collecting although it was all duplicates except I think I got *Scirpus Smithii* or var. in a glorified size.

Well time will tell what I got. I feel I should not go out again this year but I want to go to Turkey Run for a fern and will probably go farther.

I did want to get into to get some of that *Juncus nodatus* in Jasper County but they were making a new sand road and I did not try it.

By the way I just got a letter from Miss Banta and she has found *Cyperus pseudovegetus* in that woods where we found *Eleocharis Wolafii*. Too she found in a spring from the top of a high cliff along Big Creek *Hydrocotyle americana*. There seems to be no North & South & East and West in botany in Ind. any more. The first named species has been found only in vicinity of Half Moon Pond and *Hydrocotyle americana* in a sphagnum bog in Lagrange Co. about 15 mi. south of Mich line. This all just emphasizes the fact that we need experienced collectors in the field to acquire the limits of distribution. As yet much of the distribution is accidental.

Too busy to be sociable. Mail man just horns so mail will be in here in a minute so I will sign off.

Chas. C. Peam.

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INDIANAPOLIS

Bluffton, Ind.
Aug. 12 1935

Administrative Officer
V. M. Simmons

Dear Hermann: I have your interesting letter and box of specimens. Now I can not take the time even to look at them. I am leaving in the morning for nw. Ind. to be out 3 days. I want to go to Wolf Lake to fish for Potamogetons and try to rediscover some of the "ev.E.J.Hill stuff. While up there I am planning to spend a half day on dunes at Pine. This is the classic place to work. When I get home and rested up I will try to go over the "escurainia. They can wait. Then the first thing will be to get you the Carex, Juncus, etc.

Now I wish to thank you very much for the Juncus secundus and Juncus (kansans).

I have found nothing recently exciting, except it be Potamogetons which I do not know. I have made three trips to the lakes the past week but stuff seems to me to be "mine run"

I do want to get to the dunes the last of Sept. to get Scleria. I hope to get Panicum spretum on this trip and if I do I will remember you.

"ell please let things ride, knowing I will get to them as soon as possible.

Sincerely yours,

Chas.C.Deam.

Repl. 8/9

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INDIANAPOLIS

Bluffton, Ind.
Aug. 1 1935

Administrative Officer
V. M. Simmons

Dear Hermann:- I have your letter of July 29 and in reply will say I shall be very glad indeed to get a sheet of the ^Kansas Juncus.

I am sending the ^{Des}gecurainia and I wish you would look over all the lot at your leisure and write on the sheets your opinion. I think I have regarded them as all D. intermedia. I should have gone over them again. Believe I have them labeled pinnate. Well for the life of me I can not now tell what I did think they were but as I now recall it I take all Ind. stuff to be intermedia although they are labeled pinnata.

I exceedingly regret to hear of the Manchucco puppet curator. I also regret I am not able to say something. Since you would be suspected at once I am tongue-tied but if I ever have a chance at Hartlett I will try to lead him out and ask him what is to become of the Dept. of Bot. at U. of Mich. If I was the Pres. I would junk most of the personell and make a real dept. of botany there. They have a good man in you and do not know it. Well you will have to just let er ride and possibly things will "turn up" If I get my Flora out and others will see your papers I hope it will set em to thinking about you and may something will open up. I firmly believe Taxonomy is coming back and when it does it will be with a stampede

Well soon after Aug. 10 I will send you all my Carex and Juncus.

Guess this is all. I enclose two items which might interest you.

Sincerely yours,

Chas. C. Deam.

Enclosed find 14 cents in postage for return of box.

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DISEASE RESISTANCE
WILLIAM C. STEERE
SOLANACEAE: GENETICS AND
CYTOLOGY: MOSES
JOSEPH S. TIDD
RESEARCH ASSISTANT

August 8, 1935.

Dear Dean:

Please excuse my delay in acknowledging the receipt of your *Descurainia*. I thought I could go over it the evening it arrived and return it the next day but it proved to be a more involved problem than I had supposed and so took longer to reach any sort of a conclusion. I am returning the plants today.

I think *Descurainia pinnata* can be excluded without question. I am including a couple sheets of true *D. pinnata* from the U. of M. Herbarium since I found none in your material and thought you would like to see for yourself how different it is from anything you have in Indiana. The rest of the material I have segregated into two lots with a note of my disposition of them on the folders. The great majority of Indiana specimens are decidedly glandular at the bases of the plants and very slightly and rarely, if at all, stellate-cinereous on this basal portion. This, of course, makes them *Descurainia brachycarpa* (*Sisymbrium brachycarpum* Richards) according to ~~the~~ ^{his} ~~Briggle's~~ ^{Briggle's} treatment. They are so readily distinguished from the more northern *D. intermedia* (see, particularly, the sheet of this species collected by Fernald and Pease, Delta Co., Mich. which I am also sending as a loan) on this character that to me it seems that they ought to be kept at least varietally distinct. I can vouch that the distinction between them is far more obvious than, for instance, ^{between} the recently proposed varieties of *Rubus parviflorus*. The more northern plant which Fernald seems to be treating specifically as *Descurainia intermedia* (Rydb.) Daniels never,

so far as I can see, has any stalked glands at base of the stem and these are replaced by a stellate pubescence. Of this plant I could find only three Indiana specimens, two in your Herbarium and one in the U. of M. Herbarium which I am forwarding to you.

It is somewhat puzzling to know why MacBride makes no reference to the relative length of the pods, so greatly stressed by Rydberg, in D. brachycarpa and D. intermedia in his account of the group. I presume that one is to infer from that that he considered it to be either hypothetical or of no significance. I have myself been able to find no specimen referable to D. brachycarpa which has the fruits averaging ^{only} 5-8 mm. long; most of them average at least 8 mm. and vary from about 7 to 11 mm. If Rydberg is right on his pod lengths then it appears that both Fernald and MacBride have misapplied the names, calling brachycarpa intermedia and intermedia brachycarpa, but the ranges of the two strongly belie this. Fernald's note in Rhodora 37:261 is ~~very~~ ambiguous. He states there that MacBride records D. intermedia ("as Sisymbrium brachycarpum) in Rhodora 17:140 from southern Ontario only. ^{But on this page} MacBride records three collections of Sisymbrium brachycarpum from Michigan and only two from Ontario, whereas his var. intermedium is not referred to on this page. What is one to choose of the great choice of interpretations of such a statement? Either that Fernald was guilty of an oversight, which seems not very probable. One must infer from this, ^{either} that F. was guilty of overlooking the Mich. citations, which seems not very probable, and in which case he would be treating or that MacBride simply misidentified an Ontario specimen which he should have referred to his var. intermedium. ^{If this latter and more likely hypothesis is correct, then} ~~It~~ ^{is} plain that Fernald is treating the 2 plants as specifically distinct since he ~~uses~~ ^{uses} the later of the two specific names for the northern plant. Well, I ^{believe} ~~guess~~ I had better write to him to get his note cleared up beyond a doubt.

Well, I shall be glad to hear whether you agree with me that there is a significant difference between the two plants. I presume that the combination Doxcuraria brachycarpa has been made but I don't have it, as I have no reference to the taking

* One might imply from this that Fernald was treating S. brachycarpum as a synonym of D. intermedia, although in that case the taking up of the later specific epithet intermedia for the earlier valid brachycarpa would be hard to explain. But ~~the~~ an examination of the references cited by F. disproves, I believe, this implication that the names are being used synonymously.

Repl. 7/29

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INDIANAPOLIS

Bluffton, Ind.
July 20 1935

Administrative Officer
V. M. Simmons

Dear Hermann: Have your letter July 18. In reply will say I have not yet tried to determine the *Ruellia* we collected. I took some of it last week in Washington County. This *Ruellia* bunch are stunners. Last week I went with a firm determination to try to get more dope on em. I visited a woods where I took an anomalous form about 20 years ago but not a plant could be found there now. As soon as I name my plant I will give you my determination.

My assistant leaves Aug. 10 and then I hope to work up my catch as fast as I can. I must take this time she is off to get to the woods to get more stuff. The more you are out the more you learn by a lot. I took the stiff leaved-form of *Ranunculus aquatilis* yesterday the first time in Ind. It has been reported and I have had it excluded but had a memo to rewrite before Flora went to printer. I am now glad to be able to report this species I had plenty of the form that have the leaves to collapse when taken from the water. Now when I talk about species and you could use a duplicate if I have it you will be welcome. But the Lord says ask and you shall receive, no ask, no receive.

I am getting so absent minded I forget if I told you I worked the Smith Lake east of Livonia last Sat. I worked it hard and I saw the *Juncus secundus* I am sure just as I went into the swamp and expected to get it when I came out but before I got out two men joined me and too darn much talk made me forget it. However, if you have a specimen for me O.K. I want to get back to this swamp again this fall for *Sagittaria* if I can. As I have named my *Festuca* 56,212 *Festuca octoflora* var. *typica* and all others var. *tenella*. Thanks for the determination on *Juncus* which I will record. OVER

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Now as soon as I possible can after Aug. 10 I will send you my Carex and Juncus

As to the darn Descurainia will say I have just gone over this thing again and now think all Ind. material belongs to *D. intermedia*. According to Rydberg in Flora P. & P. leaves of *D. pinnata* are more or less canescent. None of mine are. I have a few western specimens labeled variously which I refer to this species. I also have *D. Sophia* from NW.

If you would be interested in seeing my specimens I will gladly pay transportation both ways. Rydberg gives the length of pods of *D. intermedia* in original description as 6-10 mm. long and 1 mm wide. His original description seems to fit our plant. I did not take a specimen near Earl Park at least it is not in my accession numbers. I have not yet determined the plants of this trip. I hope to get at em next month

Have you seen Gleason's Flora New York. I have only casually gone thru it but it seems to me to be O.K.

Think this is all for this time. By the way I just received my Senecio back from St. Louis Gardens but I have not yet examined them only casually but I see I will have to rewrite the genus

As to the Hyoscyamus guess if you keep it we will not bothered with. If you thinkit worth while I would be glad to have it and include it and give you credit for the discovery. Probably should go in.

Must close. Let me know if you wish to see the darn *Descurainia*.

Sincerely yours,

Chas C. Deam

Repl. 7/12

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INDIANAPOLIS
Bluffton, Ind.
July 7 1935

Administrative Officer
V. M. Simmons

Dear Hermann:- I have your letter of July 3 with enclosures. Many thanks. Say in unloading a plant press the other day I found one of your specimens in it, -Dioscorea. Will send it when I send Carex, etc.

Yes I have passed in write up Glyceria and I am adopting Glyceria septentrionalis Hitchc. The same must happen with Andropogon provincialis, A. furcatus and possibly others.

I note what you say about the N.Y. Garden. You are not in position to do so but each of the Directors should have a letter. June 28 I ordered Gleason's ^{New} Botany but not here yet. When I was in Office at Indpls. I always had a supply of books wrapped and all we had to do was to write ^{Dear Sir} address and paste on and book was off. Order received in morning mail, book was in Post Office at 11,00 A.M. P.M. orders went out on 5,00 P.M. mail. People appreciate service.

I would return the Rydberg book and ask for a clean copy.

Hyoscyamus niger has never been reported for Ind.

Dracocephalum parviflorum I have not seen in Ind. although reported. I am excluding it. Gray People are now using Physostegia for virginiana and speciosa. Glad to get correction in B. & B. Key to Moldavica and Dracocephalum.

Mrs Deam tells me to thank you for the ^Daxifriga seed.

E.D.Hull of Gary has found Baptisia australis along the railroad in Lake County. I see that it occurs in Ohio up to Lake County. In Ind. I have seen it only along the bank of the Ohio River

Say Schaffner was here yesterday and we discussed the introduction?? of southeastern Coastal plants in Ind.etc. OVER

He says they are beginning to find them in southern Ohio. As you know he is not up to date or particularly interested in the subject. But he tells me that some one over there has made the suggestion that there was a very large preglacial river that crossed Ohio and that the diversion by the glacier made the Ohio R. This suggestion should be followed up or taken into consideration. Likewise I think I told you that our early geologists said that a preglacial river crossed Harrison County N. & S. and that will account for the southeastern plants there. Our present state geologist hoots at the preglacial river. At least there is a thread of evidence that should not be neglected in this study.

Well I must get busy at specimens, sincerely yours,

Chas. C. Deam.

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INDIANAPOLIS

Bluffton, Ind.
July 2 1935

Administrative Officer

V. M. Simmons

Dear Hermann:- I have your letter of June 30 and since my nerves are a little off due to excitement I do not feel like work so I will try to write you.

Since supper, I was down in arboretum, ^{wedding} wife shot my grandson, 8 years old. They got my 32 automatic, and my wife had never fired a revolver in her life and she was trying to see if they could not get the bullets out and make a Fourth July cap revolver out of it and the revolver discharged and shot boy through left fore arm. Fortunately it was a flesh ^{wound} wound about 6 inches long. No bone or nerve shattered. X-ray showed bone O.K. but it just frightened wife nearly to death. Boy had wound dressed and two shots one for tetanus and another for I do not know what. Well I guess he will get along O.K. but we do not care for any more Celebrations like this.

Now as to the correct name (probably no such an animal) for the old *C. cincinnata-paniculata*. *Cornus circinata*, Gray, *C. rugosa* of B. & B. is O.K. now as *C. rugosa*. If I sent you *C. racemosa* equal *C. rugosa*. that is error. *C. racemosa* is *C. paniculata*, ^{and} *femina*, *candidissima*. The real problem just now is to separate *C. racemosa* from *C. stricta*. Apparently this can be done only when plants have ripe fruit. *C. racemosa* always has white fruit and *C. stricta* a Copenhagen blue. Only way to study the fruit in Arboretum is to bag the fruit with cheese cloth because the ^{birds} birds take the fruit almost before it gets white. You can not identify Miller's *C. femina*. In fact not one of the Miller tribe are very clear.

Weatherby has not entirely forsaken *Thelypteris*. Weatherby told me several years ago he was afraid *Thelypteris* would not stand

I note that Fernald has gone to *Gerardia*. This is a Linnean genus and all the species N. Amer. and I do not know why without reading up why Britton

OVER

and Pennell have taken up Agalinis. I believe on the whole Pennell is rather conservative, yet prefers to break up the larger groups such as the old Gerardia. Thanks for calling my attention to this. I will keep it in mind when I write the Scrops.

I note you collected 100 Parietaria. No trouble to get a cart load here if you are in the right place. Last Sunday I found ^{Raspida} Hedeoma in a sandy fallow field where it was quite thick over a large field.

I note what you say about Hystrix patula var Bigeloviana (Fern.) Deam. This is correct but I did not have sense enough to know I made the comb.n. Now I will go it one better and reduce it to a forma as is the custom where the variation is pubescence only.

Tell me when you wish me to send you the Carex I have collected this year. I have not yet taken time to write the data on them but can do so in a few eves. I have only two small pigeon holes of them.

I plan to go to Kosciusko County on Friday to explore new territory. Area said to be a large tamarack swamp, etc. Hope it is true and I can find some orchids, Carex, etc.

Sincerely yours,

Chas. C. Deam.

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INDIANAPOLIS

Bluffton, Ind.
July 1 1935

Administrative Officer
V. M. Simmons

Dear Hermann: I have your letter and card. Thanks. In regards to *Glyceria plicata* I know nothing except I accepted Hitchcock's naming of the grasses and he gave me the name *plicata* Fries. I note that ^Hegi uses that name but no doubt for a segregate of *S. fluitans* of Europe.

Thanks for the name of the article and publishers. etc. ^{as per etc} I have at once ordered it from Dulau & Co, England. So do not go to the trouble of writing the points you mention except you wish to do so.

Say yesterday I was up to Steuben and Lagrange counties and I found a fern in Steuben County I do not know. ^{Swamp} ^{In moist sugar-cane wood} looks like *Thelypteris marginale* but as you know this is a good growing year. This plant has almost a triangular frond, pinnae very wide, whole frond ^{about 2-3 inches} ~~small~~ and out about a dozen colonies we found but one fertile frond. I have not tried to name it as yet but I do not believe I have any thing in my herbarium that will match it. The pinnae are as wide as those of *T. Goldiana* which is absent in this woods. We found about a dozen plants within a radius say of about 150 feet but not elsewhere. ^{do} of course we did not fine-tooth business. Will report on it when I take it out of press. I tried for my red dog fennel but did not find it. Also tried for *Panicum Liebergii* but could not find it. Got one *Carex*, a common thing. Oh yes I did get some *Carex Muhlenbergii* in better (riper) condition than that a month ago. I will discard the early collection. Got some ^{of} *Panicums* of the *Lanuginosa* and *Depauperata* sections.

Too busy I must get to work. Just received ^a North Amer. Flora Vol. 18, pt. 5. continuation of *Carex*.

By the way I note in botanical magazine that E.D. Merrill is to be generalissimo of botanical interests at Harvard. Sincerely yours, ^{over}

Chas. C. Deam. OVER

P.S. Miss Banta sent me specimen of *Stachys* species incognito, same as we
got. She got hers from the Park. I may make a 2 day trip to the Ohio
to get more of this. I doubt if I can do any thing with it but I may be
able to get abundant material and I can send it Epling. When you
determine your plant if you have any hope on it let me have it and oblige
also in you work up of our trip if you find any thing startling me ^{let} know
and oblige,

Dear

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INDIANAPOLIS

Administrative Officer
V. M. Simmons

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Bluffton, Ind.
Monday 11,00 A.M.

Dear Herrmann:- I have your midnight letter. Say man you must let up on working so hard. You will kill yourself. Guess you will get a rest while out because I can not stand your pace. At night we will not have any thing to do so to bed you go. I will have plenty of hypnotic so I will just can you.

I have the old trek list and your new one. Now it will not be possible to visit all the places in the limited time. You kick for more time if you can get it. An opportunity of a life time, because we will not have a chance to add to it after this year.

Now we will go and see where *Carex Ricjhardsoni* grows. I think I can tell tell it from leaves and no doubt we will find some old culms and may be some of from which you can make a specimen. Now I think it best to defer making a rigid itinerary until you get here. I have the state so well in mind that if my head works I can pilot around O.K. Only thing is to know what to eliminate and so budget our time so as to get the more valuable things. Well we can work at it at nights.

es be sure to bring a good camera. Now this whole trip is up to you. All I am to do is to pilot and make an ass out of myself by bossing too much. A cure for the last is just to plainly tell me where to head in. As to *Carex alopecoidea* I thought I had it from "ells County from our own lot here. May be it is some name much like it.

Oh well we will have plenty to engage our attention. You talk as if you are coming alone. I expected the Mrs. to come too. Well get here as early as you can.

Do not forget the wet feet. so that if we start out early you will not have wet feet and get sick. Sincerely yours, Chas. C. Deam.

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INDIANAPOLIS

Sunday 11,00 A.M.

Administrative Officer
V. M. Simmons

Dear Hermann:-I enclose you a receipt book. Take receipts in your name. Better spell out your first name . They are awful particular. Put in Town and date in first line And where it says For.... Put in no. of ~~gals~~ ^{price of each} gals of gas and qts of oil. Have them sign name of filling station and add initials of one signing the receipt. The signature in line where it says Firm or corporation. Now you get enough gas to run you to Ind. and you can get gas and oil at Angola ^{get receipt for it} and when you leave for home you can load up again

Now I hope you can land at Bluffton early so you can look over our weed patch, etc. Also look at the few Carex I got so far and get our route mapped out.

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Yesterday I went to Steuben County. I found Carex Sprengeli in two different woods. In strictly forest conditions. I have it three times in Ind. but twice along roadside and once on the hanging rock where you got it last year. Then yesterday I found a sedge with a few perigenia head in very dry sandy black oak woods. Only a culm here and there. It looks like Carex bromoides but it can not be that. Then I found a Carex in a sandy fallow field, came in from an adjacent woods ? that looks like the old C. Muhlenbergii but I do not think it is. Looks like it. This in the extreme ne. part of State. Possibly $\frac{1}{2}$ mi. from Mich line. all three I mention. Now if you wish to see em growing we will have to change our trip a little. These are the things I want to work out the last minute. As pilot I can soon change directions, etc. If you are willing to stand for all kinds of abuse, etc. and stay all night about any old place we end at night O.K. Suitable hotel accommodations are rare but we will try to make the best of it, espec ally since you can drive after night we can drive to some place.

OVER

Now this is about all the advice I have. One thing about your feet. I like to wear old slippers in car. and I think I will wear gum boots most of the time. They are snake proof, and easily off and on and easily cleaned and moisture proof. Good stuff when you have to wade a little water, ect. You wear what you like. I have an old pair of slippers here we can fix up on short notice, for you if you care for em. If you have any suggestions as to baggage etc. let me have it at once. I will try to be about packed when you come so we can have all the time to "breeze around"

Think this is all. Hope you will get an extension of time, so we need not hurry and get more stuff.

Well I will be all cocked and primed and ready to go any old time you arrive. Believe it best to start some morning, although we could get on by starting late in P.M. Our first stop will be just south of Ft. Wayne to try to find that 998 Juncus Dudleyi. May be we can locate it and iff too immature you can get it enroute home or I can get it later.

Here is hoping we will have a pleasant and profitable trip, I am sincerely yours,

Chas. C. Deam.

Receipt outside of Ind no good.

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INDIANAPOLIS

Administrative Officer
V. M. Simmons

Bluffton, Ind.
Tuesday eve, June 4 1935

Dear Hermann: Your letter received this morning and since I must go up town yet this eve I will hastily reply. I am glad every thing is going as planned. Now so far as I am concerned do not worry. You are to do the driving and I will be baggage and be geographer. You can collect and I will do some if I can and I am hoping to do some. Now you get exact dates and we will plan accordingly. Say tell that boss of yours to let you off a day or two more.

Now I will make memos of all the points you have listed. You mention some plants you wish to get but I do not know stations. Better give me name of plant and Nos. and then I can see if we can criss-cross around so as to make them.

The season is a little late here but I think we will find it right on hands farther south. I sure want to visit the Erwin woods and get more Callitriche. I would like to mill around in that vicinity at least a half a day. that is provided we can get in there with a car. It has been very wet here and especially in the bottoms all spring. By gosh we will get in there if not submerged if we have to hire a hoss and buggy.

I think I have *Carex molesta* from more than the Tipton Co. station. Think I have it from Posey County, Think from the woods south or east of Half Moon Pond.

We can get all you have listed. You add *C. grvida*. We can get that one too. Then you add some names with nos. Here they are. You know you have the specimens so will you give nos. and then I can probably work them into the mosaic. ¹²⁷*C. amphibola*, ¹³⁶*C. conoidea*, ²⁵*C. alopecoidea*, ²²*C. cephaloides*, ^{14a}*C. radiata*. I am payaing a man good price for digging *Carex* up here in our field. OVER

They are getting too ripe to hold. No we do not have Scirpus Clintoni
I would like to take time to botanize in Jasper County where we have
several southeastern plants such as Panicum spretum and others. I will
put it on the list.

Now if you want to make another trip later in the year, I am with you
if I survive this trip.

As I now have ^{it} we will start Thursday morning June 13 and be back
as late as possible if I do not cave in.

Now I suggest that you bring with you your accession no. and
number in the field and let us send all ^{plants} in here and have them dried here
and when dried I will mail them to you. You need furnish nothing except your
spending money. Better let me pay all bills and then when your check comes
just sign it over to me. Do as last year. Bring collecting suit, no dress
up stuff so as to reduce baggage. I can furnish all else. This is all.

Sincerely yours,

Chas. C. Deam.

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INDIANAPOLIS

Bluffton, Ind.
June 1 1935

Administrative Officer
V. M. Simmons

Dear Hermann:- Many thanks for the separates.

This is to inform you that I went to Pine, ^{May 29} Lake County for Carex Richardsoni R.^Br. and I am happy to report I got plenty in prime condition. I do not if you ever collected it or not but it is hard to see for the first time, after that it is easy. The culms fall over and are prostrate on the short stiff leaves or other vegetation. It grows with Carex Meadii and what I call ^{know} Carex varia. I canvassed the third dune before I found it. I went to get it and expected to camp there for it or until I got too tired to trek more.

May 30 I met a Mr. Tryon from Chicago who showed me Thelypteris marginale, Polypodium virginianum, and Asplenium platyneuron growing in the sand in the dunes. Otherwise no finds. Oh yes I did. I got a Carex on a sand hill in Starke County I do not recognize, I mean I do not recall its kind in that sort of a habitat. I will bet it is not common to say the least. I did not restrict myself to one sheet either.

Well the plans are still set for the sailing June 15 or circa that date. Maybe I can stand it if not I am not worth saving, so let us go. I have not yet got over the Dune trip but on our trip I plan to be baggage most of the time.

Best wishes, I am sincerely yours,

Chas. C. Deam.

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INDIANAPOLIS

Bluffton, Ind.
Wednesday, May 23 1935

Administrative Officer
V. M. Simmons

Dear Hermann:—Saturday morning I had my week's correspondence laid out to answer and Prof. L.E.Hicks and wife came and staid until Monday morning which wrecked my plans. We had a fine visit.

Your very interesting letter of May 8 was duly received. Since there was nothing in it urging I have just let it ride. I will read it now and answer any thing that suggests itself.

In regards to Mackenzie species occurring in Ind. you have all of my specimens and Mackenzie's records were made from my specimens, at least for the most part. I suspect his *C. albicans* is *C. heliophila* as I recall it. Now when it comes to *Carex*, please remember I know nothing. It will be up to you to work out these minute distinctions

I have not yet had time to go over Hitchcock's Grasses. I plan to take up the grasses soon. I still have *Cirsium* and the general key to the Compositae to write then the grasses. I worked today on *Cirsium*. It will give me some trouble, especially on nomenclature. Most authors refer the entire leaf-form of *Cirsium arvense* to var. *integrifolium* while Rydberg in his *Flora P. & P.* refers it to a separate species which I think is correct.

Yes I had Zenkert's *Flora* last Fall. Good book.

As you say I do not understand why Victorin did not adopt some of the recent names I thought were established. I think it is a great mistake to ignore varieties with the hopes of ignoring trouble. The amateur is just sure to stumble upon one of the variables and then he has a new species and will bother some one with it. Varieties if properly described are no more difficult to understand than species and their identity are just as important.

I did not buy Peattie's Almanac. OVER

You are right on Rhodora. They need a revival. Fernald's stuff is O.K. but shorter articles belong to the American Botanist. Too I object to Desmids and algae, and other "low downs". I would like to see a ~~strictly~~ a journal restricted to the taxonomy of flowering plants. Why not. It would greatly relieve us from subscribing to a host of journals and take a chance. Jour. (Bot.) Gaz., Bull. Torrey Club, Amer. Bot. are almost out of the game. I feel the Gray People are too conservative and too selfish to expand. If they would let any one in who lived on this side of the Alleghenies and who never had taken a graduate course at ^{Harvard}, then O.K. Then put price up to \$5.00 and triple the ^{pages} magazine. I take the Annals of Mo. Garden to get an article now and then and so it goes all around. All of the taxonomy of Phanerogams could be published in one journal. Gleason's new Journal is like a wagon with five wheels. The N.Y. people have gone magazine crazy. They started a series of ^{memoirs} "Memoirs", none published for a long time. Torreya is just surviving, Jour. N.Y. Garden is pretty slim. Brittonia needs to be revived. I have ^{had} this idea in mind for years and had wished to bring it before the Bot. Soc. of Amer. but I can not talk. Well let us discuss this on trip.

As to Trillium, I made my trip but it rained just as we arrived and we got nothing. I do not know how I will dispose of this genus yet. We will try to talk this over.

Now as to our proposed trip. This is a doubtful trip for me. I may not be able to do much but I hope to be able to go with you and be guide as it were. I am hoping I will get better but the time is fast approaching when we go. Let us prepare just as if every thing is O.K. Now I plan a trip to the Dunes Friday and Sat. June 1. I want to go to Pine and look for *Carex Richardsonii*. Will not possibly recognize it when I see it. I will read description before I go. I want to make this trip a try out. I will not over exert myself and try to get a few items if possible. If you have any thing in mind let me know. Too at any time I get any thing you can use holler. Last Sunday Hicks and I went to northern Ind. Got *Cardamine pratensis* var. *palustris* in duplicate, May be you could use one.

Hermann-23

I have good news for you. Your entire expense on this trip will be paid by Indiana. That is all of the Ind. expenses. ^uGet gas enough to get to Angola and there get gas on Ind. You will have to take receipts. I will send you blank receipts in due time. Now as to the day and time of the day we set sail will say all the days look alike to me. It is entirely up to you. So you please give details and ^l will conform. Also number of days you can be out, etc. So far as I now know I will have no conflicting engagements, in fact I shall make none, nothing but sickness will change things so far as I am concerned. Too you begin to make a ^mmap of places you wish to visit, etc. kind of habitats, etc. so I can begin to make it~~n~~ery.

My Okla folks plan to arrive June 6 and leave June 22. The night you are here we will hang some on nails and others we will bunk on the floor, etc.

Well the ^oovernight in bed I had one of those wild ideas to work out. Now the dope is to get some one to try it out. The idea came about in this way You will recall I have a red-fruited Podophyllum here. The darn thing is not going to flower this year. Why not. Well this started the problem. Probably easily solved, no apparatus and little brains except the boss. The blooming period of this species ^{of plants} and others might be of interest. Just what in each case determines the period. ^lIs it definite, or is it influenced by several factors such as nutrition, moisture, etc. Now the Podophyllum propagates for the most part by rhizomes. If the "going" is good why flower. If drought or hard nutrition comes, then better flower??? You get me Al. The problem may not be worth a darn but any common laborer could do the work. The plant will grow in the sun in cultivated soil or in sod. "as no insect enemy (rust is all) and no stock will touch it. Could be planted in regular order, say 4 x 4 feet and a study of the progress could be made. Well I have gone all thru this. If interested we can discuss it. I am planning to go near where I found my plant and if interested we might seek more. Think ^l told you the red-fruited relative inhabits Asia. These "throw backs" may not be of any interest at all.

As you know I am not a botanist, only a plant collector.

OVER

Do you take Claytonia. I see ~~in~~ today's copy Wherry has changed our old friend Parnassia caroliniana to P. americana Muhl. I presume the name will be published. Oh well this is not a new name. I doubt if a new species described in this publication would stand or else they have a circulation greater than I think they have. Better read this article anyway Wherry refers to Small's Flora p. 590 1933 where the name is correctly given.

Well the world do move. Think I discussed Fernald's Hieracium Gronovii var. foliosum and Lippia lanceolata. Like to show em to you when you come down and a lot of other things.

Well I am going to sign off. This note is to let you know I still persist.

I hope you and family are O.K., expecting you all in about 3 weeks. Sincerely yours,

Chas. C. Deam

P.S. I see that Rydbery in his Flora P. & P. was the first to make this change see page, 390. Guess it is safe to accept this new name unless some one else gets busy and digs up an older one.

Deam

Recd. 5/5

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INDIANAPOLIS

Bluffton, Ind.
May 5 1935

Administrative Officer
V. M. Simmons

My Dear "ermann:- I have your welcome letter of May 1. Sure glad to hear from you and that you are O.K.

You mention the ~~xxxx~~ time consumed by your librarian in getting new publications to you. This week Hitchcock's Grasses here. Cost 1,75. It is a classic. Have you seen Munchner's (Cornell) Book on Weeds. ? (\$6,00) I also bought Fisk & Addoms Lab. Man. of General Botany, 1,00 to just see how they handle the subject. Will show it you when you come. ay I am glad you are receptive to the suggestion of writing a book on botany for beginners. I shall be glad to give you the few books I have on the subject. I have ideas on this subject but for the most part are not accepted by the highbrows.

Lord I did not know Fernald was in Aweenaw County Mich. I never heard of it. Wonder he has not written something about it. "e surely is tearing up things in se. Va. I have been two days on revising our Ms. and making changes on my plants and I have not done yet. By the way when I was writing Sagittaria I got stuck. So I just bundled up some Sagittaria and sent them to Weatherby. Got em back yesterday and they confirm my determinations. We have Sagittaria brevirostra all over Ind. and also have Sagittaria australis Small. (See Small Flora) Small says Ala. We have it in sw. Ind. Weatherby says Sagittaria longirostra is only a wide-leaf form of S. Engelmanniana and S longiloba is probably S. brevirostra. So you see there is "pay dirt" again. Gosh the Gray's Man. new ed. will surely look as if it has been revised. Well the time is fast coming when you and I set sail? My asthma is still giving me trouble. I am planning to go out next Sunday for a trip to see if I can make it. I have a man to drive, etc. I wish to make a study of Trillium cernuum and T. erectum. (OVER)

My write up of this genus is not at all satisfactory. Anderson (in Rhodora) and Friesner in Butler U. studies have gotten this genus in such a shape I do not know if I am going or coming. I have a lot of plants growing here and my assistant took measurements and observation every day last year. Trouble we do not have all the forms growing here. "hat I lack is plants with maroon petals ~~and~~ with a maroon ovary. In the event you are out and run across such and send ^{can} me the corms will you please do so. The ovaries of all my plants are white and remain so. We have paid especial attention to the position of the peduncle. The peduncles of all our plants seem to be stationary. They are either under the leaves from the beginning to the end or above them and never decline below them. Assistant made notes on ours every day. Wonder if this movement of the peduncles is a myth or not. ^Probably and assumption ^P only. Now Hermann I find so many opportunities for the Hall-Clemets method of ^Taxonomy in the common sense of the term. There are certain plants we must put under cultivation and watch em and plant the progeny of a plant and note the variations, etc. Trillium is one of them. Sagittaria is another. Note the influence of moisture and fertility on Sagittaria. Lunell did some good work on the Sagittaria and Ranunculus. When you get established I hope you will be able to undertake some of these knotty problems. The general statement that light, moisture, and soil affect plants but to what extent on certain species I think is not yet known. By the way Fernald in last Rhodora splits Lippia lanceolata. So far as I can see I have both forms of it. ~~oo~~ Would like to show my plants when you come down

I am certainly glad to get "the low down" on Farwell. he has so impressed me and lately I rarely consult his multitudinous varieties etc. I never met him. Once I called on Cecil Billington, Detroit, and I had written in advance if it would be agreeable to Farwell for me to call on him at Parke, ^Davis Co, then ^A was a druggist and he never answered my letter. So I was "snubbed" and a cheap cuss like me is the kind to remembe^r it longest, so I never tied up to him except on one occasion when he wrote an article on Cornus.

Hermann-2. I suggest that you dump every thing of Farwell that has no value. I appreciate the value of types, etc. if he ever designated such. I am for a cleaner and clearer taxonomy. I am glad to see Fernald in last Rodora^h page 175 under *Rudwigia natans* refer to Small & Alexander's plants described in English as "illegitimate names". You know it irritates me for a member of the team to get the swell head and think they run things. The Botanical Congress composed of the leading botanists of the world, agreed that all new species should be written with a Latin diagnosis. Now Small comes along and defiantly describes them in English, not ignorant of the fact or that he was not able to get a Latin diagnosis. No Small is the Dictator and I hate em on that account I have no use for a piker of any kind. I know of no instance as yet where any one has taken the matter up and renamed a species but I hope they will in his case and I hope it will stick. I hope there will never be a retroactive rule be passed by the Botanical Congress. We must kill off these regegades.

Now I would hate to be the author but the botanical world should know the facts about the Farwell herbarium. If it could be published as an anonymous note the facts, it certainly would clarify matters. Why should he have a glittering monument of gold in botany when in fact it should be of sand and washed away with the first wind.

Now as to our trip, in the ~~xxx~~ event you have any thing you will be especially interested in, let me have them piecemeal so I can arrange the itinerary. I had it in mind to try to get up to Pine, ^{about May 21} Lake County and try again for *Carex Richardsonia* but I may not be able to make it. Most of the things I need additional data on belong to a season later, mostly August and Sept. In about a week I will arrange My "wants" in a chronological order ^{and geographical} and find out just what I need. *Trillium* is the thing now and I do not know where to go for it. I did find a single specimen of *T. cernuum* var. *macrosperma*? some such a name, with purple anthers and purple ovary (not maroon) an entirely different ~~plant~~ plant. This I got in a low woods in La Porte Co. Anderson's character of the spreading of the corolla lobes I think is an important one but I can not make it corallate. OVER

No trouble with *T. grandiflorum*. The mix up is in *T. cernuum*, *T. erectum*,
and *T. Gleasoni*(?). I think the last is an entity and not a mere form as
Friesner makes it. Since the *Trillium*s are so easy of cultivation, why not
start this at once and in 5-10 years you can tell us.

"Well I think I have run dry, so I will sign off. Hoping to hear from you
from time to time if only a card. Best wishes, to you and family and the
rest of the botanical fraternity.

I am sincerely yours,

Chas. C. Dean

5/1/35

STATE OF INDIANA
CONSERVATION DEPARTMENT
DEPARTMENT OF PUBLIC WORKS

Board

Governor Paul V. McNutt
Lieut.-Gov. Clifford Townsend
Virgil M. Simmons
Paul Fry
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INDIANAPOLIS

Bluffton, Ind.
Apr. 19 1935

Administrative Officer
V. M. Simmons

Dear Prof. Herman:- Well sometime since I have written you, I never keep track of my correspondence or keep carbon copies so I must take it from memory, which is almost gone for me. Thought you might be interested in what Svenson says about Eleocharis olivacea. I wrote him when Fernald came out and made it a var. of flaccida. Think I will let it stand as a species. As Svenson says we do not understand the southern range of the species and until that is worked out it seems best to let it ride. We repeatedly learn that when a plant is known in its entire range we will break it up.

Example see the splitting of American from European plants of which Fernald is the "King". Please return the Svenson letter sometime.

I also enclose a second edition of Cyperus. When I tried to work over some Cyperus Miss Banta sent me I detected what I take to be weaknesses of keys.

Well my health is not improving but I am going ahead planning as if nothing was a matter. I am now writing you as an excuse for work because I feel so rotten. I have on the "block" a bad genus, -Sagittaria. I have just begun it and I am now trying to construct a key to immature fruited specimens of which I have too many if I can not do so. If you have good mature achenes then it seems as if you can get by. I have just finished Alisma and I put all of my plants into A. subcordatum a la Samuelsson. Wiegand maintains var. parviflorum (Pursh) but I can not for the life of me see how he can use that name since Pursh did not mention the size of the flower except in the specific name which I do not consider sufficient. Then we do not have a large flowered form in Ind. as I make it out. I will measure flowers this summer if I have a chance but I think mature heads would be equivalent. OVER

By the way we are to get Victorin's Flora of the St. Lawrence Valley now. I ordered it this week. It will be a hum dinger. Got Munz's Flora of Southern California this week but have not had time to look at it. Also Sinnott's revised edition of his botany. Say I know it irritates for one to suggest you a job but darn I am a pachyderm and thrusts do not effect me. Now here is a job for you. Write a botany for high schools and mine run colleges. May be I have "blowed off" to you on this before. Take Sinnott's new book. The treatment of the flowering plants pale when compared to the Thallophytes. His book is O.K. ^{may be} to train college professionals but for the Indiana University student it is criminal to compel its study. Students will take one year college botany and if they have a good memory on leaving college they can tell you about algae but they have no acquaintance with the trees and shrubs they meet up with and would not know how to learn their name, cultural qualities, or any thing about them. Now I do not want to be understood to be going to seed on "utility". Students soon forget the algae, etc. but they may keep alive the memory of a beech and hickory tree, etc. When I see you if agreeable I would like to talk this matter over with you and if I possibly can I wish to make a convert of you. I do wish to have some one before I die agree to write a "botany" for our people and not a high brow for the ethereal what nots.

Hope you are coming along O.K. with the ~~V~~arex and Juncus. I am planning if I am able to get up to Pine and try for Carex Richardsonii but I fear I will not know it if I find it. Will have to carry with me a description of it and key to related species I may find up there. Too I shall welcome any suggestions as what and where to go. This trip is contingent on your not being to leave your work until June 15 at which time many of the early Carex will be "too far gone".

Well here are my best wishes to you and family. Hope you are well and doing two men's work and not hurting you.

Sincerely yours,

Chas. C. Beam.

STATE OF INDIANA
CONSERVATION DEPARTMENT
DEPARTMENT OF PUBLIC WORKS

Board

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INDIANAPOLIS

Administrative Officer
V. M. Simmons

Bluffton, Ind.
Feb. 25 1936

Dear Mr. Hermann: Many thanks for the return of the Ms. duplicate. Also the
Fernald letter.

Now as to the distribution of *E. olivacea*, its status, etc. I prefer to
leave that to Svenson. I believe Svenson is making a good study of this
genus and while he and Fernald may not agree on the status of certain forms,
I have made up my mind to stick to Svenson, at least until I am convinced he
is splitting things too far. Now in regards to *E. caribaea* var. *dispar*.
Svenson makes this remark about my No. 55,328, Kosciusko County. Quote:
"I am of the opinion that there is no essential difference between *E. caribaea*
var. *dispar* and *E. microformis* Buckl. of Texas. In this case if we wish to
consider the material as a variety of *E. caribaea*, which I think is its
actual status, there should be a new combination made. Both are thin scaled
representatives of *E. caribaea* with small achenes, and with the scales
tending to be lax and brownish. Your no. 55,328 especially agrees with
E. microformis. This identification I think strengthens the idea of plants
migrating through the Miss. Valley to the Great Lakes rather through the
Mohawk Valley, an opinion in which both of us I believe are agreed".
I have detached a small plant from my sheet which I enclose. If it be worth
while this summer I will get more from same station.

Say I think I have the asthma beat. Two days now and little or no wheezing
As to your paper on *Eleocharis* I would withdraw it especially since
Fernald is grooming some one else to outdistance you.

As to *Cyperus ferax* vs *speciosus* I have followed your suggestion and will
use the name *C. speciosus*. Weatherby says either and in the event *C. ferax* and
C. speciosus prove to be two species and *C. ferax* Coastal I will be setting *C.K.*

over

Not less the *C. speciosus* ride. Thanks however for the proffer to get me specimens. I do not wish you to think I am not interested and I repeat I am in a race with Father Time and I must "cover ground" and not be too particular. If I had the time I would delight in being more meticulous all the time because that is my way of doing any thing,--do your very best, and then it may be poor enough. We ^{have} too many evidences of haste. My Assist. is now just copying Mr. Buhl's paper just pub. in Amer. Midl. Nat. and he has made a good many errors, needless ones.

Now as to the title for your Doctorate Thesis take any thing and do it in any way to be please or be to your advantage. *Carex* or *Juncus* will be O.K. with me. Of the two titles the distribution of, or the Genus *Carex* in Ind. I prefer the later because that title is more comprehensive which permits you to enter into discussions of habitat and frequently, and any old thing that may come up. While the first title if you stay to the subject you are more limited. Your idea of "padding" is O.K. I do not know if I introduced a new idea in showing distribution by using the initial of the herb. in which the specimen is located, etc. I think my grass maps show about all that is necessary. Of course if space permits, it is find to cite county, name of collector and his number. Oh well that will be up to you. There is only one hiatus, and that is if they do not publish my Flora. However, if the U. S. ^{say no money next year me to death} does not go too much to the dogs I might publish it myself.

Now we can get *Silene Cseri* if it the time of the year and I think it is. It is along State Road north of Crawfordsville. I will put it on the list.

Well now I guess this brings me up to date and I will get busy on ferns which I hate.

Best wishes, I am sincerely yours,

Chas. C. Deam.

Hermann-2

I have made a memo of the desiderata you wish on Cyperus. I have always shied collecting Cyperus because I thought no one cared for them.

No the list of nomenclatural changes are not all I have made. Assist has "bawked" on going over the entire Ms. and visit all I have made. If you think such a list would be worth while I will see if I can coax her into it when she has leisure. As I see it the best of us, except we have marked in our manual the new name will slip sometimes. I have not done this although I think I recall most of the names. In fact I have adopted all and most of them are my only recollection of the names. Yes I have Habenaria viridide var and Eleocharis pauciflora. This reminds me I take up Eleocharis tomorrow I have a fine set of them. I have been interested in them for a long time and Svenson has named all of my specimens(all)

Now I note Fassett wants you to write Juncus for Wis. O.K. when you have the time. Now Hermann be careful or you will overwork. I know you like to work but you must have your rest and exercise. Now please be obedient

Was to doctor yesterday. He is doping me now to ascertain if I have heart asthma or the other kind. I was on lounge most of Sat. Sun, and this A.M. I hope I can make it A.M. because I do want to finish this Flora. I told wife in the event I could not do it that you should do it if possible to get you. Now it seems as if you have a man's job but let me tell you I hope I am not dead yet. End of letter of Feb. 7

In reply to your letter of Feb. 15 will say I am certainly glad to learn that U.M. has got a real taxonomist. Too that you have a real job now and an opportunity. I know so little about taxonomy that I should not venture an guess as to one's ability or discuss relative merits. But I am just like "the soap box" citizen who has ideas on the most abstruse questions, I have my ideas although with little back ground. I do hope your new position in time will lead up to a permanent citizenship at Ann Arbor and I am certain you will be a great credit to the Institution. Practically no publication on taxonomy has come out of that University. I am quite aware however, the profs. time is taken for teaching but if one would interest himself in a certain group or problem that in due time sufficient would be accumulated for publication. Yes I know you are entitled to your Sundays and evenings with your wife or society but these guys never publish. Choose which you prefer.

You must now get your PhD, So accept that task as imperative.

It is surely a recognition of ability that Ehlers turned over all the high grade students to you. Too it places him where he can have an easy job, use the same old dope he has been using for years. Go to Fred you will round up the bunch in due time.

I am also glad to learn that Indiana Carex & Juncus are ~~xx~~ on the Calender as a certainty. I hope so

I am sorry you can not get off for the Ind. trip before June 15. Carex will be pretty well done ere that time. I had planned to start for Minneapolis to attend the Botanists meet up there, June 21 but I will cancel that trip altogether to fit you into the picture. You set the dates and I will be there if health permits.

In looking up my records I find I got only Carex brevior, 1 mi. east of Goldsmith, Tipton County. This is a good record

Corrected over

Feb. 18

Eriophorum spissum, is restricted to my two collections as follows:

De Kalb County in an old tamarack bog a mile south of Garrett

La Porte County in a tamarack bog about 6 mi. west of La Porte. No doubt extinct in De Kalb but I found it last year in La Porte Co.

I had hope to find Eriophorum tenellum in Ind. but I have failed as yet.

I note what you say about Scirpus acutus and validus. I also note what you say about St. John. At one time I thought he was right but when I made my study of the genus just recently I changed my mind. The two species are quite distinct but like so many things we fail to take into account the varying factors of aquatic or semi-aquatic plants. I copy from my key:

Stems rather soft; inflorescence lax, usually drooping; spikelets many, ovoid, on long, drooping pedicels; achenes obovoid, 1.5-2 mm long, plano-convex; bristles usually longer than the achene. S. validus.

Stems rather stiff and firm; inflorescence erect, the spikelets and pedicels erect or ascending, compact; spikelets subcylindric; achenes obovoid, in my specimens 2.3-3 mm long, ~~unequally biconvex~~; bristles about equaling the achene or slightly shorter. S. acutus

In Scirpus my greatest trouble is to distinguish Scirpus debilis from S. Smithii var. setosus. I can not do it but have made it an order of business to collect this fall. I know where I can get some I think. I know books tell you how the achenes of one is plano-convex and the other lenticular, etc. but the darn things do not sort out right. Guess I will have to get an electric eye.

Say now at any time you wish to see my key of any genus and my write up just write me and I will loan them to you. This will give you a notion what occurs in Ind. You can not rely upon the old Coulter Catalogue for a list of what occurs in Ind. Too bad but I have a monopoly on this but I am only too glad to share the information to any one. I had my trouble with Scirpus especilley in dividing S. cyperinus. When I quit I had 13 species of Scirpus for Ind. Scirpus Eriophorum I am excluding and S. atrocinctus but I suspect the later is here but I have not seen it yet.

Well I will sign off. Remeber they can not hold a good man down, but take care of your health right now. Do not over work

I am sincerely yours,

Chas. C. Deam.

P.S. Inform me when to change address to the U. of Mich.

note down the number of lenticular

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THIS SIDE OF CARD IS FOR ADDRESS



Frederick J. Hermann
C/o U. of Mich. Botanical Garden
Ann Arbor,
Mich



THIS SIDE OF CARD IS FOR ADDRESS



Frederick J. Hermann,
C/o U. of Mich. Botanical Garden
Ann Arbor,
Mich

Repl. 2/15

Dear Hermann:--Your find letter and copy of *Cyperus* here O.K. I am now working on *Lactuca*. Fear they are going to down me. When I won or lost the battle I will answer your letter in detail.

Sincerely yours,

Chas. C. Deam.

If you have any of the "low down" on *Lactuca* please let me have it. I can handle the exotics, O.K.

Scisq. acut.

E. spirosum

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Dear Hermann: This morning I mailed you a letter which contain the carbon copy of the *Cyperus*. I forgot to turn it over to Assist to make corrections. Will you please return ~~it~~ it and when she copies the corrections I will return it. Please excuse error. Now 9,00 A/M. and I just returned from Doctor and he says I do not have Heart Asthma. That is good news. So here I now have a chance and let us still figure on trip. Sincerely yours,

Chas. C. Deam.

STATE OF INDIANA
CONSERVATION DEPARTMENT
DEPARTMENT OF PUBLIC WORKS

Repl. 7/8

Board
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Virgil M. Simmons
Paul Fry
James D. Adams

INDIANAPOLIS

Administrative Officer
V. M. Simmons

Bluffton, Ind.
Feb. 7 1935

Dear Hermann: I have your letter of Feb. 5 and I hasten to reply so that you may be able to intercept the Rhodora article.

No. 55, ³²⁸ Kosciusko Co, E. caribaea v. dispar. east side of Chapman Lake, ⁴ mi. ne. of Warsaw. No. 55, 529, ditto species Lake Co. n end of Clark St., Gary. Formerly Pine, Ind.

E. caribaea v. dispar 55, 357A Aug. 16 1934. Low marl border of the east side of Adams Lake about 3 mi. ne. of Wolcottville. ^{Lagrange Co}

Now these are my Ind. stations. Will try to get you one of the Lagrange Co, plants next year. Forgive me and sent all out before I wrote you.

Sorry to hear you have picked all of the troubles you have. I am getting better, taking about a half dozen kinds of medicine. I wish summer was here. I feel so weak I fear I will be no good. Let us hope for the best.

As to the ^Uallitriche I expect Svenson is right but I sure want a good collection to prove it. The fruit of the specimens I had are not at all like my specimens. May be I do not know them. I will not forget to get some, nevertheless

Say you must not just slave for some one else. When you come to those immature things, just write on em too immature for identification. Now as to Gates and the attending the A.A.A.S. will say he usually attends. Now I hate to be personal but I am regarding you as a good personal friend. Now the ^{is} truth is that Gates is not a popular fellow and no one wishes to associate with him so at these meetings he is "not seen". That is the way I treat him and I think I am mine run. OVER

I hope you will never regret your trip there.

Thanks for calling my attention to the *Siu cicutifolium*. Will investigate it and let you know.

Say you have not yet had the Field Museum *Carex*. Have you? If not, please get busy to get their loan thru the Museum (Indiana plants only) and I will pay the charges both ways. Also write Mr. Hottes of U. of Ill. and ask for their Ind. *Carex* and I will pay charges. I would write but I think it would be more effective if the Museum would write for their loan. It might be stated that the loan is for a paper on the *Carex* of Ind. to appear in a Flora of Ind.

Must sign off so as to get this off on noon mail.

I hope you will get O.K. soon and do not work too hard.

Sincerely yours,

Chas. C. Deam.

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STATE OF INDIANA
CONSERVATION DEPARTMENT
DEPARTMENT OF PUBLIC WORKS

Repl. 2/5

Board

Governor Paul V. McNutt
Lieut.-Gov. Clifford Townsend
Virgil M. Simmons
Paul Fry
James D. Adams

INDIANAPOLIS

Administrative Officer
V. M. Simmons

Bluffton, Ind.
Feb. 1 1935

Dear Mr. Hermann: Many thanks for the specimen of *Cyperus refractus*. The one I had as I suspected was *Cyperus strigosus*. I see that the length of the achene is very diagnostic. Enclosed find postage on specimen.

Say F.M. Gaige, Of U. of Mich Museum was here the other day for a few minutes. He seemed to be looking for a man to make a survey (botanical) of a bog. In discussing coming taxonomic men, I "blew you up" as strong as I could. So if Gaige ever gets into conversation with you be forewarned. He said he was going to get acquainted with you.

Say here is where you and I cross swords. You determined a specimen of *Scirpus* from Knox County for Friesner collected by McCoy as *Scirpus Eriophorum*. I have just finished Ind. *Scirpus* and I do not find this species in Ind. You also determined one of Kriebels plants as *S. Eriophorum*. Now This is a Coastal species and I do not believe occurs in Ind. Note it has a terra cotta involucre. I refer ed your plant ^{Kriebel} to *S. pedicillatus* which I am recognizing but I do not believe a word of it. To me it has only a forma standing. All the differences I can see is the pedicillate spikelets. Wiegand stresses the early fruiting and later fruiting of *S. cyperinus* and *S. pedicillatus*. My specimens do not divide that way. at least I do not divide them that way. Now I believe there is a segregate in this *Scirpus cyperinus* but I am not able to make it.

Now I guess this is all. ^Wish that man Svenson would report on my *Eleocharis*. He is getting to be too slow for me. Best wishes, I am sincerely yours,

Chas. C. Deam.

STATE OF INDIANA
CONSERVATION DEPARTMENT
DEPARTMENT OF PUBLIC WORKS

Repl. 2/5

Board

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Paul Fry
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INDIANAPOLIS

Administrative Officer
V. M. Simmons

Bluffton, Ind.
Feb. 2 1935

Dear Hermann: Have just heard from Svenson on Eleocharis and I find I still have as follows for exchange. If you can use any one or all, please check or rather send me the nos. on enclosed card and I will lay away for you. Sorry I had already distributed some of them. One was a new var. to Ind. E. obtusa elliptica Fern. An Atlantic Coastal form found in La Porte Co.

Best wishes, I am sincerely yours,

Chas. C. Deam.

P.S. Wife took me to the Doctor yesterday and I had a thorough examination and I'm O.K. except this asthmatic cough. So get ready for that May trip

Deam

- 55,390 Eleocharis olivacea, Steuben Co
55,328 E. caribea var dispar, Kosciusko Co
55,529 ditto Lake County

Dear Hermann: You are to keep the Cyperus paper except you wish to careve it and send it in and then I will return it. We made you and .N.CFassett two copies to use for your own use if they can be used. ~~Mighty fine~~ of you to divide your C. lancasternsis you might have lonaed it and I could have returned it. We have changed the Kriebel list, C. peterosperma, etc. Will send you some punched paper at once Attend to G leason stuff first. Make me the last one to wait on. I do not want any Banta plants

Yours, Chas. C. Deam

Dear Hermann: You may resent the treatment of accepting things from our waste basket. I keep an up to date list of the changes in Gray's Manual and we just copied it and I am sending you our old copy. Junk it. Thought you might not have caught all the changes up to date.

Deam

All names with a pencil chek means Weatherby to me in a letter accepts the changes.

Dear Hermann: I have meant to inquire how the hybrid Carex came thru last summer. Did it die or flourish like a good Carex should??

Deam.

*achene less than 2mm. long in C. strigosus
over 2.5mm. in refractus and more than 1/2 length of scale.*

STATE OF INDIANA

CONSERVATION DEPARTMENT
DEPARTMENT OF PUBLIC WORKS

Repl. 1/25

Board

Governor Paul V. McNutt
Lieut.-Gov. Clifford Townsend
Virgil M. Simmons
Paul Fry
James D. Adams

INDIANAPOLIS

Bluffton, Ind.
Jan. 22 1935

Administrative Officer
V. M. Simmons

Dear Hermann: I have taken today off to bring all of my correspondence up to date. I have just finished *Cyperus* and we will send you a copy of the paper, probably tomorrow which you keep. I would, however, appreciate the favor if you would go over it and try it on some of your material and see if it will work and carve it to the limit. Return the paper carved up ready to serve as you see it and I will take your suggestions and criticisms and return you the paper. Now my ~~keep~~ may seem silly to you but spikelets breaking off the tree and winged rachilla are relegated to the scrap heap. I may have gotten into a worse mix up. Fact is I am not quite yet clear on just what *Cyperus strigosus* is. If the spikelets of all the specimens of this species are stramineous then I fear I have something else in it. There is a species called *Cyperus refractus* which is supposed to have terete spikelets and it may be I have included this species in *C. strigosus*. I do not have an authentic specimen of *C. refractus* I feel that color of scales is a good character and holds except in this species and in part of *C. esculentus*. At least I shall await with anxiety to hear if you think my key will work or not.

Say do you recognize both *Carex laxiflora* and *Carex gracilescens*?
Yes keep the Banta stuff. She said to and "mind" the blonde school marm.

Glad the *Carex leptalea* w^s of interest. You ask if ^{Mrs.} Mary F. Baker is still alive, etc. I see she is listed in the Botanical Directory (1931) as at "Winter Haven, Florida." Write her. Remember that the Lord said, ask and ye shall receive

I presume you have already learned that Mr. Carl Buhl died suddenly last Wednesday of a bursted aorta. OVER

No doubt he did not get far enough along with ^uesmodium to publish. Too bad.
Well Hermann I had nothing especial to write but I just want to get rid
of every letter on my desk and then I hop ^{well} into Eriophorum.

No hurry to write me. With best wishes to you and family, 10am
sincerely yours,

Chas.C.Deam.

P.S. Only 5 mos now until we trek to southern Ind. Remember the date. You
are to set the exact date. I make no dates from May 20 to June 10. Except
that spring meet of Ind. Acad. comes at wrong time. No doubt it will be
scheduled for May 23-25 and I expect ^{it} to be in southern Ind.

DEam.

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Repl. 1/15/34

STATE OF INDIANA
CONSERVATION DEPARTMENT
DEPARTMENT OF PUBLIC WORKS

Board

Governor Paul V. McNutt
Lieut.-Gov. Clifford Townsend
Virgil M. Simmons
Paul Fry
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INDIANAPOLIS

Bluffton, Ind.
Jan. 10 1935

Administrative Officer
V. M. Simmons

Dear Mr. Hermann:- Well I got home O.K. but as usual after I get home from ~~such~~ such a trip I catch a cold. I am just getting toward the end of it now.

Say Miss Banta sent me some plants to get determined. She mounted them on sheets. No doubt not poisoned. I am forwarding you for determination. She says keep all if you can use them. So please let your conscience be your guide. She says she has duplicates. If you can use, keep one or all, the all saves postage. Please report on them at your convenience.

Well I hope you got home O.K. and found wife and children O.K. I also you had a good time. I feel if I sort of neglected you but I thought if you needed me you would make it known. It is always best if one can "root" his own way thru. Hope you met all there whom you wished to see and that your contacts will be worth while in the long run.

Well the sun is shing right now which makes one wish he was out in the woods.

Well I have had just so much detailed work I have scarcely done any thing since my return. Monday I started on Cyperus. I am trying to make a key by which I can name the species of our area. I know you will laugh at it but I never shall forget the trouble I have always had with the genus (rachis, spikelets falling and not falling, rachis wing or not, etc. I am using color of spikelets, spikelets aggregated into heads or on elongated axis, etc. If interested I can send you my key.

Here are my best wishes, I am sincerely yours,

Chas. C. Deam.