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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.

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McGraw-Hill Book Company, Inc.

McGraw-Hill Building

330 WEST 42ND STREET

NEW YORK, N.Y.

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May 2, 1939.

Professor R. C. Friesner,
Butler University,
Indianapolis, Ind.

Dear Professor Friesner:

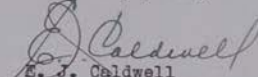
May we again call your attention to our recent publication of a new, third edition of Sinnott & Dunn's *PRINCIPLES OF GENETICS*. A copy was sent for your desk use in January.

On the enclosed sheet you will find comments on this revised book which are typical of the reaction of teachers all over the country. We hope that you will find them interesting.

Although published just before the beginning of the second semester, the third edition is already in classroom use on 65 campuses, and teachers in many other colleges and universities have told us they will adopt it in the fall. The University of California, University of Chicago, Cornell University, University of Illinois, University of Minnesota, Pennsylvania State College, University of Toronto, Wellesley College, and Yale University are representative of the adoption.

We hope that you have now had an opportunity to become thoroughly familiar with your copy and will send us your comments or criticism of it, letting us know how it meets your textbook requirements.

Very truly yours,


E. J. Caldwell
College Department

EJC:FLM

COLORADO STATE COLLEGE
OF EDUCATION • GREELEY

Division of Education

Rugg
Reply (over)

May 5
19 39

Dr. Zinner
To the Director of the
Curriculum Laboratory

Dear Sir:

The new college library now being completed at the Colorado State College of Education makes it possible for us at Greeley to promote more adequate facilities for the study of curriculum problems on both college and public school levels. Your institution is listed as one of the colleges with a curriculum laboratory. After considerable preliminary study of needed extensions in curriculum investigation including examination of the recently published survey of the United States Office of Education in its Bulletin 1938, No. 7, it occurred to us that possibly we could capitalize upon your experience in the field.

Hence, we would appreciate it if you would do the following for us. First, would you please answer briefly the questions below:

1. Describe briefly such points as the organization and financing of your curriculum laboratory indicating the staff organization, where it is housed, its seating capacity, and the amount of money expended on it.
2. a. Outline 1, 2, 3 the types of materials available such as courses of study, units of work, bibliographies, books, periodicals, pamphlets, pictures, etc., with any comment you care to add.
b. Also give us suggestions as to methods of selecting such materials.
3. Outline 1, 2, 3 the main types of activities carried on in your curriculum laboratory such as construction of new courses of study, making bibliographies, etc.

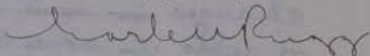
-2-

4. Who participates in the activities of your laboratory?
5. Finally, outline any more specialized types of activities carried on or aided by the laboratory, such as the activities of curriculum construction of individual professors, or activities of the college curriculum committee.

Second, we should appreciate the receipt of any reports or bulletins available for distribution.

We would appreciate having these returned by May 15, 1939. May we say, in conclusion, that we shall be glad to reciprocate after our laboratory is organized by giving you a summary of our laboratory.

Sincerely yours,



Earle U. Rugg, Chairman
Division of Education
and Librarian

EUR:p

We do not have a curriculum laboratory at Butler University. We do have a Curriculum Committee in each college of the University and a general university committee. The committee in each college considers all applications for new courses or changes in old courses in its respective college. All actions of the committees of each college are then subject to review and possible veto by the University Committee.

Our activities are not limited to consideration of courses but include curricular matters in the broadest sense. The present school year has been devoted to the formulation of what we call "Special Interest" or "Pre-career" curricula. These will soon be available for distribution and

(over)



I shall have a copy sent to you as soon as available.

This Committee also considers requirements for graduation and any changes therein. The Committee is strictly legislative in function, but does consider applications petitions for special changes ~~in some instances~~ involving ~~and~~ setting aside of rules in some cases.

The committee is responsible to the general faculty and ~~any~~ new rules or new departures of any sort are subject always to final approval of the faculty.

Sincerely yours

Ray C. Friesner, Chairman
University Curriculum Committee

May 11, 1939

Dr. Earle U. Rugg
Colorado State College
of Education
Greeley, Colorado

Dear Dr. Rugg:

We do not have a curriculum laboratory at Butler University. We do have a Curriculum Committee in each college of the University and a general university committee. The committee in each college considers all applications for new courses or changes in old courses in its respective college. All actions of the committees of each college are then subject to review and possible vote by the University Committee.

Our activities are not limited to consideration of courses but include curricular matters in the broadest sense. The present school year has been devoted to the formulation of what we call "Special Interest" or "Pre-career" curricula. These will soon be available for distribution and I shall have a copy sent to you as soon as available.

This committee also considers requirements for graduation and any changes therein. The committee is strictly legislative in function but does consider petitions for special changes involving setting-aside of rules in some cases.

The committee is responsible to the general faculty and new rules or new departures of any sort are subject always to final approval of the faculty.

Sincerely yours,

Ray C. Friesner, Chairman
University Curriculum
Committee

RCF:VCW



R. R. - 13 - BOX 158
MAIN OFFICE AND NURSERY AT CASTLETON - BRANCH NURSERY AT E. 46th ST. AND ROAD 13

INDIANAPOLIS

INDIANA

PHONE - BROADWAY 3493 3233

May 15th, 1939.

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

Dear Professor Friesner:

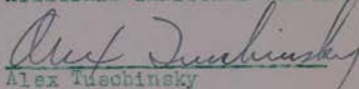
We are now planning the third Annual Rose Festival to be held Sunday, June 4th, at the Hillsdale Nurseries. This year there will be over 100 varieties of Roses on display in addition to a large collection of perennials, shrubs and trees.

Because of the great interest and attendance at last year's show, we are now working for state-wide interest. Especially would we like to secure your support and suggestions as to developing this into a worthwhile enterprise.

You will notice on the list of committees attached hereto, we have taken the liberty of including your name. We hope this will meet with your approval and that you will find it convenient to attend our next committee meeting and assist in forming a program.

Sincerely yours,

HILLSDALE LANDSCAPE COMPANY


Alex Tuschinsky

AT:nh

Landscape Contractors, Designing, Planting . . . Artistic Rock and Sunken Gardens, Fountains, Pools, Swimming Pools, Spraying . . . Garden Furniture . . . Moving Large Trees . . . 93 Acres Ornamental Trees, Evergreens, Shrubs, Roses, Vines, Perennials and Rock Garden Plants . . . Finest Nurseries in Indiana . . . Alex Tuschinsky, Owner.
Member of the Indiana Nurserymen's Association.

COMMITTEES FOR HILLSDALE 1939 ROSE FESTIVAL JUNE 4th

Mr. Alex Tuschinsky Executive Chairman
 Mr. H. T. Vitz Secretary
 Mr. Wallace O. Lee Indianapolis Power & Light Company
 Mr. F. O. Belzer Boy Scouts
 Mrs. M. S. Goulding Garden Clubs
 Mrs. E. R. Becker Garden Information
 Miss Ruth Davis Campfire Girls
 Miss Marie Schubert Butler University
 Mrs. Maxwell Droke Girl Scouts
 Mr. Carl Schubert
 Mr. Louie Gessert
 Mr. Don F. Stiver Director of State Police
 Mr. P. Denning Head of W. P. A.
 Professor Ray O. Friesner Butler University
 Judge Henry O. Goett Judge of Superior Court

The various committees appointed were as follows:

General Publicity

Wallace O. Lee, Chairman

Music

Mr. F. O. Belzer

Mrs. E. R. Becker, Vice-Chairman

Reception & Presidents of Garden Clubs

Mrs. M. S. Goulding, Chairman

Refreshments

Mr. Carl Schubert

Mrs. E. R. Becker, Vice-Chairman

Traffic

Louie Gessert

Patronesses

Mrs. Markuz, Chairman

Mr. Don Stiver

Mr. H. T. Vitz

Publicity for May Queen

Miss Ruth Davis, Chairman

Judges for May Queen

Hon. Judge Goett

Miss Marie Schubert, Vice-Chairman

Mr. Wilbur Peat

Mr. W. Hurley Ashby

MASTER OF CEREMONIES

Judge Goett

Swimming

H. T. Vitz

May 17, 1939

Mr. Alex Tuschinsky
Hillsdale Landscape Company
R. R. 18, Box 158
Indianapolis, Indiana

Dear Mr. Tuschinsky:

I have your letter regarding serving on your committee for the Annual Rose Festival. I shall be quite willing to do whatever I am able in this capacity. I fear, however, that it will be difficult for you to find a time of meeting that will not conflict with my teaching or field duties. However, I shall be glad to serve if it is possible.

Very sincerely yours,

Ray C. Friesner

RCF:VCW



TEXAS TECHNOLOGICAL COLLEGE
LUBBOCK, TEXAS

17 May 1939.

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

Dear Dr. Friesner:

It seems likely that we will have two graduate assistantships open for next year.

We hope to make the stipend \$300.00 for the nine months. The student would be expected to aid in laboratory instruction in freshman botany or biology or both and in certain other departmental duties to the extent of about half time. The other half time would be available for work toward the master's degree.

At the present time we would prefer that the student select as a thesis problem some anatomical or morphological aspect in any group of plants, especially the seed plants or the liverworts. Other projects would not necessarily be eliminated, but we feel that we can handle the proposed type of work to better advantage.

This is rather a late hour to be writing you about the matter, but it has not been possible for us to make our plans earlier. If you have any students who are interested, please have them write me.

Very sincerely yours,

R. A. Studhalter, Head.

W. F. LOEHWING, PRESIDENT
UNIVERSITY OF IOWA
IOWA CITY, IOWA

AMERICAN SOCIETY
OF
PLANT PHYSIOLOGISTS

F. P. CULLINAN, SEC'Y. TREAS.
U. S. HORTICULTURAL STATION
BELTSVILLE, MARYLAND

Official Journal

PLANT PHYSIOLOGY

*Letters sent to
Eli Lilly + Pathman-Moore*

May 20, 1939

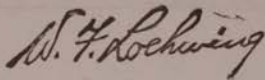
Head, Dept. of Botany
Butler University
Indianapolis, Indiana

Dear Sir:

As a non-profit undertaking, The American Society of Plant Physiologists regularly publishes an International Address List of Plant Physiologists in all countries of the world. In order to make this complete, we are obliged to enlist the co-operation of plant scientists in the various institutions of the country and in this connection we take this opportunity to ask if you would be kind enough to prepare, as complete as possible, a list of all plant physiologists of your staff and others in the vicinity, giving their full name, title, and address, with a statement of their main botanical specialties.

Though the American Society of Plant Physiologists is not in a position to pay for the assistance of collaborators in preparation of this international address list, a printed copy thereof is sent to each collaborator. Your co-operation will be greatly appreciated and an addressed return envelope is enclosed for your convenience.

Sincerely,



W. F. Loehwing

WFL:ON
Enc.



R. R. - 13 - BOX 158
MAIN OFFICE AND NURSERY AT CASTLETON - BRANCH NURSERY AT E. 46th ST. AND ROAD 13

INDIANAPOLIS
INDIANA

PHONE - BROADWAY 3233

May 30th, 1939

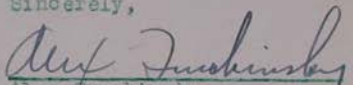
Professor Ray C. Friesner,
Butler University,
Indianapolis, Indiana.

Dear Professor Friesner:

Two weeks having elapsed since the first meeting and assigning of committee chairmen for the Third Annual Rose Festival, you no doubt have found many ideas for planning a bigger and better show.

The second meeting is to be held Wednesday, May 24th, at a 12 o'clock luncheon at the Athenaeum. It is intended for this to be the final meeting of the Executive Committee and final plans will be set for the Festival. Please make every effort to attend this meeting as your help is greatly needed.

Sincerely,


Alex Tuschinsky
HILLSDALE LANDSCAPE COMPANY

AT:nh

Landscape Contractors, Designing, Planting . . . Artistic Rock and Sunken Gardens, Fountains, Pools, Swimming Pools, Spraying . . . Garden Furniture . . . Moving Large Trees . . . 93 Acres Ornamental Trees, Evergreens, Shrubs, Roses, Vines, Perennials and Rock Garden Plants . . . Finest Nurseries in Indiana . . . Alex Tuschinsky, Owner.
Member of the Indiana Nurserymen's Association.

29-0000

May 22, 1939

Mr. Alex Tuschinsky
Hillsdale Landscape Company
R. R. 13, Box 159
Indianapolis, Indiana

Dear Mr. Tuschinsky:

I have your letter of May 20 in which you announce a meeting of the Committee for the Third Annual Rose Festival for Wednesday, May 24 at 12 o'clock. I am very sorry that I shall be unable to attend this meeting since my duties at Butler University require me to be present at one o'clock, and my experience in the past has been that it is impossible to get back from a downtown luncheon in time for this one o'clock work.

I am sorry that I shall not be able to be present and hope that I may be able to be of some other value to you.

Very sincerely yours,

Ray C. Friesner

RCF:VCW

CARNEGIE INSTITUTION OF WASHINGTON
ECOLOGICAL RESEARCH

ALPINE LABORATORY, MANITOU, COLORADO
(JUNE-SEPTEMBER)

MISSION CANYON, SANTA BARBARA, CALIFORNIA
(OCTOBER-MAY)

May 29 1939

Doctor Ray C. Friesner
Butler University
Indianapolis Indiana

Dear Friesner:

This is a hasty note on the eve of leaving for the Alpine Laboratory - chiefly to say that your kind card was duly received and that we shall hope to see you both again in Indiana on the eastward journey in September. Perhaps if this can be timed properly, we can stop at Bluffton and possibly see the Oak Barrens together.

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

FEC:GJ

Frederick E. Coville

June 1, 1939

Director of Research
Eli Lilly Company
Indianapolis, Indiana

Dear Sir:

I have a letter from Dr. W. F. Leeuwang of the University of Iowa in which he asks me to secure for him a list of the names and addresses of all plant physiologists in the vicinity of Indianapolis for the International Address List of Plant Physiologists in all countries of the world. He asks that the full name, title, address, and a statement of their main botanical specialties be given.

I am writing to you to ask whether you would care to see to it that such a list is made for the research workers of your laboratory. If this could be sent to me within the next couple of weeks I would appreciate it very much.

Very sincerely yours,

Ray C. Friesner

RCF:VC

June 1, 1939

Director of Research
Pittman-Moore Laboratories
Indianapolis, Indiana

Dear Sir:

I have a letter from Dr. W. F. Lockman of the University of Iowa in which he asks me to secure for him a list of the names and addresses of all plant physiologists in the vicinity of Indianapolis for the International Address List of Plant Physiologists in All Countries of the World. He asks that the full name, title, address, and a statement of their main botanical specialties be given.

I am writing to you to ask whether you would care to see to it that such a list be made for the research workers of your laboratory. If this could be sent to me within the next couple of weeks I would appreciate it very much.

Very sincerely yours,

Ray C. Friesner

RCP:VCH

June 1, 1939

Dr. W. F. Loewling
Botany Department
University of Iowa
Iowa City, Iowa

Dear Dr. Loewling:

Your letter requesting a list of plant physiologists in the vicinity of Indianapolis is at hand. I have written to the Eli Lilly Laboratories and to the Pittman-Moore Laboratories asking their Directors of Research to supply me with such a list from these two firms. In the meantime, I shall take care of the list from Butler University and Indiana Central College. I hope that this list may go forward to you within the next two weeks.

I am sorry that this amount of time is likely to be required, and will send it to you as promptly as possible.

Very sincerely yours,

Ray C. Friesner

RCF:VCW

June 2, 1939

Mr. E. J. Caldwell
College Department
McGraw Hill Company
330 W. 42nd Street
New York, N. Y.

Dear Mr. Caldwell:

In reply to your letter of May 2 regarding Sinnott and Dunn's
"Principles of Genetics" I may say that in my opinion it represents
a very high grade contribution to the teaching of genetics. The
presentation is concise and logical, the contents are adequate for
complete course and the problems are excellent for thorough drill
and review.

If you did not have Shall I would use Sinnott and Dunn, but
Shall fits my course better.

Sincerely yours,

Ray C. Friesner

RCF:VCM

OHIO WESLEYAN UNIVERSITY
DELAWARE, OHIO

DEPARTMENT OF BOTANY

265 West Fountain Avenue
Delaware, Ohio
June 6, 1938

Doctor Ray C. Friesner
Butler University
Indianapolis, Indiana

Dear Friesner:

I am glad to have your letter in regard to Miss Newman. Perhaps you would like to have her write me about herself. Just at present, I am so tied up with the problem of securing a President that I am having to let departmental matters slip. I have heard of several people who may be interested in coming here.

Very hastily yours

Claude E. O'Neal.

WHEATON COLLEGE

"For Christ and His Kingdom"

WHEATON, ILLINOIS

June
eight
1939

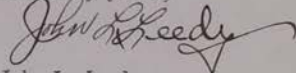
Dr. R. C. Friesner
Department of Botany
Butler University
Indianapolis, Indiana

Dear Dr. Friesner:

I am sending 51 herbarium specimens by parcel post to be applied on our exchange account with your department.

Please forgive the long silence from this end. We have greatly appreciated having the Maine material to refer to. Thank you again for opening this exchange.

Sincerely yours,



John L. Leedy

Pitman-Moore Company
Indianapolis

June 10, 1939

Mr. Ray C. Friesner
c/o Butler University
Indianapolis, Indiana

Dear Mr. Friesner:

The writer wishes to state that he has read your letter with interest, and that if we understand your question correctly, Dr. Loehwing is interested in a botanical classification. Our organization has no one whom we would class as a Plant Physiologist.

Very truly yours,

Frank B. Fisk

F. B. Fisk, M. D.

FBF:MAL

Soil Conservation Service
Glen Rock, Penna.
June 12, 1939.

Dr. Ray Friesner.
Butler University
Indianapolis, Ind.

Dear Dr. Friesner: You will receive under separate cover a collection of 60 specimens from New Jersey, Maryland & Pennsylvania which I hope will meet your favor.

This leaves a balance to your credit of some 100 specimens which I hope to be able to obtain and prepare for you this summer.

I trust that you will have a pleasant and profitable vacation season.

Sincerely yours
Ernest A. Longbrake.

June 21, 1939

Dr. R. A. Studhalter
Department of Botany
Texas Technological College
Lubbock, Texas

Dear Dr. Studhalter:

I owe you an apology for being so slow in replying to your letter regarding an opening for a graduate assistantship with you for next year. Your letter caught me in the closing of the school year and the opening of the summer session and I have just now gotten an opportunity to reply.

I am sorry that we do not have anyone whom I could feel free to recommend. Our good students happened to be placed before we received your letter and the mediocre ones I would not be willing to have come to you as representatives of our work.

We consider it an honor to be notified of your vacancy and hope in the future that we may have some one worthy of coming to study with you.

Sincerely yours,

June 27, 1939

Dear Mr. Miller:

Any of the following students would be able to do the work involved in mold counting after they have had a period of training with you.

FIRST CHOICES

Arnold, Herbert - 4321 Vollege Ave., Ma. 3143
Baker, Michael - 956 N. Oakland, No phone
Dreyer, Allan P. - Greenwood, Indiana
Morton, Richard - 2253 N. Illinois St., No phone
Pittenger, Robert - 3559 College Ave., Ma 3772-W
Edwards, J. Gordon - 2334 Carrollton Ave., Ma 6677
Kortley, John - 425 N. Audubon Ave., Ir. 0236
Heiret, Winston - Elgin Illinois
Moss, Byron - Loganport, Route 5 (Would be exceptionally good)
Brown, Boris - 5538 Broadway - Br. 3261
Kibler, Mary Ann - 3639 Hamlock St., Ma 1454
Harbaugh, Peggy L. - 5012 Park Ave., Ma 1629
Hyman, Carol Ann - 3441 Guilford., Ma 0142-W
League, Dorothy - 1169 N. Warman Ave., No phone
Wells, Gladys - 1164 N. Warman Ave., No phone
Delporte, Lillian - 1414 N. Dearborn St., No phone
Roush, Audrey - 514 Middle Drive Woodruff Pl., Ch 1469-W
Rupkey, Helen R. - 1133 Linden St., No phone
Hibma, Frances - 3125 Broadway, Ta 0956
Shelton, Ruby - 1035 W. 37th St., Ma 4349 - J
Phillips, Phyllis Ann - 3936 Cornelius St., Ma 2494
Goodlet, Jane - 4334 Broadway, Ma 4328

SECOND CHOICES

Brabender, Doris - 5886 Wright St., Dr 4275-R
Clairmont, Gene Nancy 618 W. 43rd St., Ma 4324x 6824
Jacobs, Arthur - 4955 Washington Blvd., Ma 6527
Topmiller, Bernard F. - 1320 Wallace Ave., Ir 2765
Burns, LaVerne (male) - 2624 Vermont St., No phone

Sincerely yours,

Mold Counting

First Chair

- Loris Brown 5538 Broadway Br. 3261
 Mary Ann Kibler 3638 Hemlock, Ha 1454
 — Herbert Arnold 4321 College, Hu 3143
 — M. D. Baker 956 N. Oakland No Phone
 Paul Lentz
 Byron Moss
 Robert Kent

Second Chair

- Loris Brubaker 5686 Wright St. Dr. 4275-R
 4955 Wash. Blvd. Hu 6327
 Arthur Jacobs 618 W 43rd. Hu 6824
 — Gene Nancy Charnot
 1320 N. Wallace Dr 2765
 — Bernard T. Topmiller
 Burns, Lawrence 2624 Vermont
 No Phone

- Allan P. Dreyer Greenwood, Ind
 Peggy L. Harbaugh 5012 Park ave Hu 1629
 Carl Ann Dyman 3441 Guilford Ha 0142-W
 Dorothy League 1169 N. Warman No. Phone
 — Richard Norton 2253 N. Illinois No Phone
 — Robert Pittenger 3559 College Ha 3772-W
 Gladys Walls 1164 N. Warman No Phone
 Delporte, Lilian 1414 N Dearborn No Phone
 — Edwards, J. Gordon 2834 Carrollton He 5677
 — Korbley, John 425 N. Audubon Dr. 0236
 — ~~Kraus, William G~~ 
 — Noiret, Winston ~~4400~~ Cornelius Elgin, Illinois
 Roach, Audrey 514 Middle Dr. Woodruff Pl. Ch 1469-W
 Rupkey, Helen R 1133 Linden No Phone
 Nihma, Frances 3125 Broadway Ta 0956
 Shelton, Ruby M 1035 W. 37th Ha 4349-J
 Phillips, Phyllis Ann 3936 Cornelius Ha 2484
 Gullett, Jane L 4334 Broadway Hu 4328 ~~Bro~~

1939

1939

June 28, 1939

Dr. W. F. Lowmyer, President
University of Iowa
Iowa City, Iowa

Dear President Lowmyer:

I have at last gotten replies from the two biological laboratories in Indianapolis regarding names of plant physiologists whom they may have on their staffs. Both The Eli Lilly Laboratories and the Pitman-Moore Laboratories report no one on their staff who could be properly looked upon as a plant physiologist.

At Butler there are two of us who are interested more or less in plant physiology and who have published some research in this field but neither of us are any longer "out-and-out" physiologists.

Dr. John E. Potzger, Assistant Professor of Botany in Butler University, Address Butler University, Indianapolis.
Teaches Plant Physiology and Ecology, Main publications in the field of Ecology. Researches also in the field of Mitotic periodicity and in Physiological anatomy.

Dr. Ray C. Friesner, Professor of Botany in Butler University, Address, Butler University, Indianapolis. Teaches Cytology, Genetics, and Taxonomy. Publications in the fields of physiology, ecology, and taxonomy. In physiology, main interest and research in periodicity.

I shall leave it to you to decide whether these two names should be included. We do not look upon ourselves now as physiologists. In case I have not given all the information you desire, I shall be glad to do all I can to meet your needs.

Sincerely yours,

From Whitney

4121 Natural Sciences Bldg.
Ann Arbor, Michigan,
June 28, 1939.

Dear Dr. Friesner,

I had such a nice little chat
with Prof. Bartlett the other day -
I wanted to tell you about it. He said
very appreciative things about you
as he always does. He spoke of your
meeting at Huntington and said
he wished he had known more about
your Botanical Gardens at Britton
so he could have included something
about them in his speech. Then we
mostly talked about how nice you
were to everyone - he said you took
more trouble to be fair and kind
to people than almost anyone he
ever knew, that sometimes he used to
think you went out of your way more
than you should - anyone who
couldn't get along with you must have

something quite wrong with him
and would be deserving of very
little sympathy.

We got to talking about the
economic situation - He spoke of
the fact that in his department they
could use twice as many people
and keep them all busy, if they just
had something to pay them with. He
seemed to feel there needed to be more
jobs for more people even if wages
had to be lowered, and expressed quite
a little opposition to labor unions.
He suspected our difficulty might
be the cost of high living rather than
the high cost of living, - that prices
as well as wages could come down.
Well, I hardly know what I do think
about all this, because I am not very
well informed, but Professor Bartlett
is certainly interesting and stimulating
to talk to on almost any subject, isn't
he?

I am pretty well established

in my new office - Dr. O. K. Kelberg arranged for me to have one to myself. The other private offices on this corridor are also occupied and Dr. O. K. Kelberg's general research lab will have six people as I understand, so we are quite a colony. But I rather doubt his ability to generate the kind of research atmosphere I have been used to at Butler. He has to be over at the Rackham Building a lot, and is also giving the lectures in Comparative Anatomy for the summer. But he has received me very cordially and I think is much interested in my finishing up. I have seen Miss Richards and any number of other people I know from here, there, and everywhere. The registration is said to be overwhelming.

I hope Mrs. Friesner is quite all right again and that you will have a nice trip after summer school. Why don't you come thru Ann Arbor? Sincerely - Esther Whitely



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COLE NURSERY CO.
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1041 MENTOR AVENUE
PAINESVILLE, OHIO

July 5, 1939

Mr. Ray C. Friesner
Butler University
Indianapolis, Indiana

Dear Mr. Friesner:

We regret exceedingly that the hardy Fuchsia Scarlet Beauty did not grow for you. It so happened that we dug quite a lot of plants early in the Spring and they laid around our cellar for about a month before shipment to you so we imagine some damage had occurred before you got them. At any rate we are so anxious to have you see this plant at your place that we are sending you four (4) growing pot plants, and although the season is late for successful transplanting we believe and hope you can have success with them.

Fuchsia Scarlet Beauty is making a marvelous show here, the original plants being 2½' high and each plant literally covered with thousands of entrancing little buds and blooms. If you happen to be in this neighborhood we hope you will stop and see them.

Yours very truly,

THE COLE NURSERY COMPANY

BY *[Signature]*

DBC:KM

SHRUBS
EVERGREENS
SHADE
FRUIT
AND NUT
TREES
BERRIES
BULBS
FLOWERS
ROSES

"Everything That's Good and Hardy"

EK

Kokomo, Ind. - 7-18-39
1812 No. Purdue St.

My Dear Dr. Friesner and
Prof. Patzger: -

My letter to you changing your
plans - - all seems utterly ridiculous
and silly now. - Prof. Kase had to
leave here Fri. at 5 PM. He had a nice
time. Your card came Saturday - and so
will be ready for you on July 22 - for LaPorte
County. I am trying to forget my actions
- Trust it will be - "All's well that
ends well."

July 5 - went to Miller bog. Made specimens
representative of place. Found a few *Spiraea tomentosa*
- a handful - There are 5 albe by acre. Several patches
of *Betula pumila* - five - 1 patch 10' tall. *Prunella floribunda* - big
patches. - Some *Ilex verticillata*; - plenty of *Cornus obliqua*
! Acres terribly dense of *Rosa palustris*. About 15 acres & 10
" more no good for crops. Also a few *Scutellaria*

gabrielata or *S. epilobifolia* - new name -
 Rare - 1 other station here. Also *Acumina*
regalis + *Onoclea sensibilis* - 7 / I can't make out
 that I found the *Sparganium tomentosum*. - Its rarity explains
 why I missed it before. - You reported *Bidens*
aristosa for Maroon bog. Was not here late
 enough to get it - Its new to me. - There is a
great abundance of a weed that I'm sure
 is it - in both places - big solid patches. -
 Leaf exactly fits. - Now 1-1½" high - I'll get it
 later - which will make me 9 *Bidens*.

On Peru trip - Got 2 new to me.
Psoralea Onobrychis. - We possess some
 patches of it w. Peru. and *Scutellaria*
incana (*S. canescens*) Also large patch
 of *Rosa suffulta* - a new Co. record. (perhaps)
 Dean has it only from Tipton Co. - So have I. -
 (1939) 7 2 good Howard stations.

Trust weather is good next Saturday
 and that exchanged trips will work out all.
 This needs no reply. - I'll be awaiting you.

Best Wishes to You - and the other
 Pros. - Students. - Sincerely - Clark

Among species new to me - found on
July 9 - were: -

Trientalis americana.

Rubus triflorus.

Acerates floridana.

Lilium umbellatum.

Phlox glaberrima.

Oenothera fruticosa.

Asclepias amplexicaulis.

1 sedge I can't name -

and 6-7 others -

Very Sincerely

Charles M. Ek

July 19, 1939.

Dear Dr. Freisner,

I am enclosing a list of the names of the Cyperaceae plants that you sent me to determine in June. I think they are fairly correct. A few were pretty young, to be sure of them.

If the achenes and scales are not mature enough for the shape and markings to appear normal, it is difficult to be sure one is correct on the determination. I think May is a little early to gather most sedges in this part of the country. The fruits are not quite ripe enough.

All your *Eleocharises* came out "obtus" or "palustris". "obtus" is a very variable plant and though some of the plants looked as if they might be something else the achenes showed them to be "obtus".

I enjoyed doing the plants and am

very happy to have the collection. A good
number of the species I haven't in my
herbarium. Thank you very kindly for them.
If you have any others at any time I will
be glad to do them for you.

Trusting that you are enjoying a pleasant
vacation I remain

Yours sincerely
Jules M. Vincent de Paul

Record names in Field books
If any name is already there and this name is not the same, merely check this name and return to me RCF

NAMES OF SPECIMENS
SENT TO MARYGROVE COLLEGE

- # 2977 - *Eleocharis palustris* (L.) R. and S.
- # 3508 - *Rhynchospora gracilentia* Gray
- ✓ # 6745 - *Carex pennsylvanica* Lam. (probably) - too young - unit comments
- # 7364 - *Eleocharis palustris* (L.) R. and S. (probably, too young to be certain.)
- # 7431 - *Juncus*, probably a proliferated form of *Juncus effusus*, or too young to determine.
- # 7432 - *Juncus balticus* var. *littoralis* Engelm.
- # 7498 - *Juncus tenuis* Willd.
- # 7563 - *Juncus tenuis* Willd.
- # 7891 - *Eleocharis obtusa* (Willd.) Schultes
- # 8044 - *Eleocharis obtusa* (Willd.) Schultes
- # 8343 - *Eleocharis obtusa* (Willd.) Schultes
- # 8344 - *Eleocharis obtusa* (Willd.) Schultes
- ✓ # 8587 - *Eleocharis*, probably *obtusa*, too young to identify.
- # 8622 - *Scirpus lineatus* Michx.
- # 8823 - *Cyperus filiculmis* Vahl
- # 9182 - *Eleocharis obtusa* (Willd.) Schultes
- # 9784 - *Carex rosaeoides* E.C. Howe (probably, too young)
- # 9793 - *Carex laxiflora* var. *gracillima* Boott
- # 9808 - *Carex pennsylvanica* Lam.
- # 9809 - *Carex tribuloides* Wahl. (maybe, too young to identify)
- # 9810 - *Carex rosaeoides* E.C. Howe (probably, too young)
- # 9811 - *Carex pubescens* Muhl. (probably, too young) etc
- # 9812 - *Luzula campestris* (L.) DC.
- # 9825 - *Carex grisea* Wahl. (young)
- # 9840 - *Carex Willdenovii* Schk.
- # 9846 - *Carex laxiflora* var. *latifolia* Boott
- # 9862 - *Carex laxiflora* var. *gracillima* Boott

- # 9918 - *Carex squarrosa* L.
- # 9924 - *Carex cristata* Schwein
- # 10,014 - *Cyperus dentatus* Torr.
- # 10,015 - No seeds present, probably a proliferated form of *Juncus brachycephalus*.
- # 10,015 - *Juncus brachycephalus* (Engelm.) Buch. proliferated, no seeds present
- ✓ # 10,016 - *Rhynchospora glomerata* L. Vahl
- # 10,019 - *Cyperus strigosus* L.
- # 10,026 - *Cladium Mariscoides* (Torr. - Muhl.)
- # 10,027 - No seeds present, probably *Juncus brachycephalus* (Engelm.) Buch.
- # 10,028 - *Carex flava* L.
- # 10,039 - *Carex pseudo-cyperus* L.
- # 10,041 - *Scirpus americanus* Pers.
- # 10,042 - *Scirpus occidentalis* (S.Wats) Chase
- # 10,043 - *Psilocarya nitens* (Vahl) Wood
- # 10,047 - *Scirpus Clintonii* Gray
- # 10,050 - *Scirpus cyperinus* (L.) Kunth
- # 10,052 - *Scirpus americanus* Pers.
- # 10,469 - *Carex laxiflora* Lam.
- # 10,507 - *Carex canescens* L.
- # 10,508 - *Carex pubescens* Muhl. (probably, too young)
- # 10,550 - *Carex longirostris* Torr.
- # 10,564 - *Carex varia* Muhl.
- # 10,612 - *Carex stipata* Muhl.
- # 10,613 - *Eleocharis palustris* (L.) R. and S.
- # 10,619 - *Scirpus validus* Vahl.
- # 10,623 - *Carex vulpinoidea* Michx.
- # 10,624 - *Carex tribuloides* Vahl.
- # 10,625 - *Carex cristata* Schwein.
- # 10,626 - *Juncus tenuis* Willd.

- ✓# 10,665 - *Carex Bicknellii* Britton
- # 10,678 - *Carex cristata* Schwein
- # 10,679 - *Carex cristata* Schwein
- # 10,719 - *Carex crinita* Lam.
- ✓# 10,726 - Too young, probably *Carex lupulina* Muhl.
- # 10,727 - *Carex lupulina* Muhl.
- # 10,729 - *Carex stipata* Muhl.
- # 10,730 - *Carex cristata* Schwein
- # 10,742 - *Carex intumescens* Rudge
- # 10,752 - *Scirpus lineatus* Michx.
- # 10,789 - *Carex laxiflora* var. *gracillima* Boott
- # 10,810 - *Carex vulpinoidea* Michx.
- # 10,832 - *Carex Frankii* Kunth
- # 10,833 - *Carex lupulina* Muhl.
- # 10,834 - *Scirpus atrovirens* Muhl. (very young).
- # 10,847 - *Scirpus atrovirens* Muhl.
- ✓# 10,848 - *Scirpus lineatus* Michx.
- # 10,860 - *Carex vulpinoidea* Michx.
- # 10,861 - *Carex cristata* Schwein.
- # 10,913 - *Carex glaucoidea* Tuckerm.
- # 10,914 - *Juncus tenuis* Willd.
- # 10,917 - *Carex arcta* Boott
- # 10,918 - *Carex triceps* var. *hirsuta* Bailey
- # 10,939 - *Scirpus lineatus* Michx.
- # 10,940 - *Carex squarrosa* L.
- # 10,987 - *Eleocharis palustris* (L.) R. and S.
- # 10,988 - *Carex pseudo-cyperus* L.
- # 11,006 - *Carex tribuloides* Wahl.
- ✓ 11,007
- # 11,008 - *Juncus tenuis* Willd.
- # 11,017 - *Scirpus validus* Vahl

- # 11,018 - *Carex tribuloides* Wahl.
- # 11,019 - *Eleocharis obtusa* (Willd.) Schultes
- # 11,020 - *Juncus articulatis* L.
- # 11,042 - *Scirpus lineatus* Michx.
- # 11,043 - *Scirpus atrovirens* Muhl.
- # 11,045 - *Carex lurida* Wahl.
- # 11,119 - *Carex muskingumensis* Schwein.
- # 11,120 - *Carex Asa-Grayi* Bailey
- # 11,123 - *Carex squarrosa* L.
- # 11,138 - *Carex hystericina* Muhl.
- # 11,449 - *Fimbristylis autumnalis* (L.) R. and S.
- # 11,450 - *Eleocharis obtusa* (Willd.) Schultes
- # 11,776 - *Cyperus Engelmanni* Steud.
- # 11,777 - *Cyperus flavescens* L.
- ✓ # 12,193 - *Juncus effusus* L.
- ✓ # 12,194 - Too young, probably *Carex Frankii* Kunth
- ✓ # 12,195 - *Scirpus atrovirens* Muhl.
- # 12,196 - *Juncus aristulatis* Michx.
- # 12,200 - *Carex cristata* Schwein
- # 12,223 - *Scirpus atrovirens* Muhl.
- # 12,224 - *Juncus articulatis* L.
- # 12,225 - *Juncus dichotomus* Ell.
- # 12,227 - *Eleocharis obtusa* (Willd.) Schultes
- # 12,228 - *Carex vulpinoidea* Michx.
- # 12,229 - *Carex squarrosa* L.
- # 12,244 - *Juncus aristulatus* Michx.
- # 12,266 - *Eleocharis obtusa* (Willd.) Schultes
- # 12,267 - *Carex squarrosa* L.
- # 12,282 - *Juncus tenuis* Willd.
- # 12,741 - *Carex aurea* Nutt.

Kokomo, Ind. - Aug. 1. - 1939.
1812 North Purdue St.

My Dear Dr. Friesner: -

Your card came today. I got the *Lindigia*
sphaerocarpa Qt. - but of course not the
varieties. In some way I missed the *Galium*
labradoricum and *Rhamnus alnifolium* in
the last swamp - full of *Rhynchospora corniculata*
& *Dulichium* - I got *Hypericum ellipticum*
(not quite sure) All the other 6 " I have are mostly
dry situations. 1 raceme of *Triglochin mar-*
atima - other was *T. palustre*. Also 1 plant
seemed to be *Stachys ambigua* - in swamp.
Lindigia alternifolia in bog. *Solidago virginica*
- not in flower - worked by leaves - bog - In
all about 14 new to me. - A Great Friesner

Day -

To Peru July 26 - boy & I - Frigate -
Long hot day - & 1 new one - 3 tiny plants -
Can't work it - not enough facts known. -
The 2nd or 3rd station for *Guara bicolor*.
Oenothera lociniata. *Ambrosia psilostachya*
(I forget new name) *Veronica virginica* *Ribes*
terrestris - all railroad dry soil plants (for me)
also *Cheopodium Batrys* - a R.R. plant.

2.

A Card and paper for Dr. Potzger. Am
drying a lot more grasses - including *Sandbar!*
Said he'd like a set of *Eragrostis hypnoides*.
I know 4 stations - This grows in dried up
parks + swamps. Have been to 2 stations and
everything under water - It takes a dry 1936
year for this grass - I'll try + see the 2 other
spots this week + hope to find it now or later.
There was a wagon - load in 1 place - 1936 - &
now all 1-3 feet deep in water.

Plan to go to Morvin bog - Miller bog
this month - also other local trips - Maybe
Pere again along Trask River - west of Pere.

I remember of your plans to leave
Aug. 4 - 10 A.M. - So I'll be brief.

It is to wish you a pleasant
profitable vacation month - I KNOW
you will realize it. Also useless to
caution you to be careful - You are a careful
driver - So I trust you and Mrs. Friesner
arrive in Maine safely, that you rest and
botanize - + return refreshed for 1939-40 - I'll
be seeing you about Sept. 16. - So I hope
with Best wishes - Sincerely - Chas. M. E.

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August 4, 1939

Professor R.E. Friesner
Butler University
Indianapolis, Indiana

Dear Professor Friesner:

We are sending you, under separate cover,
a complimentary copy of Holman and Robbins "General
Botany", which we believe you are using in your
classes.

For our records, kindly acknowledge the
safe receipt of your book.

Very truly yours,

JOHN WILEY & SONS, Inc.

M. Wright
Educational Department

MEW

I have just come across this letter
and thought it might give you some idea
of the Ipswich Botanical Society meetings,
that is, if you can decipher it. You
needn't return it.

Edith Bicknell 12 Knox St. Portland
P.S. I have just heard a most interesting lecture on the geology of Knox Co.
by the first Sunday evening you must be at my cottage.

Berwick, Me.
Aug. 5

Dear Edith:

Surely we missed

you & spoke of you at the meeting.
Also I sent you a card from
Gaspé or somewhere on our travels.
It was such a nice meeting - in
some ways, even program not up
to last - but a very interesting
talk by Mr. Horton on early bot-
anists with slides of persons,
places & flowers - a talk on drug
plants by Dr. Youngkin of Boston
Pharmaceutical College, one by
Nylander on the orchids & ^{the}
trogona (get A.H.N. to give you a
sp.) & geology & by Chamberlain
on botanizing in the vicinity -
he teaches at Presque Isle. They
own talk on Mex. & Tex. plants.
I was much dissatisfied with

Miss ^(space boat her) Kavelle, Mr. Merrill, Haven,
Worth, Beans, Carpenter, Lowe,
(she was very nice ^{Hyland} really, & boat
Mr. Merrill) the Dr. (dentist) & friend
there, the Nichols, the Minots,
Mrs. Skillings, ^{absent}, Mrs. Brown,
Miss Jordan, ^{Mrs. Adams}, Mrs. Sturges, ^{Mr. Sturges}
about 30 in all. We could eat
at hotel, or in their coffee shop or
at the "Stop Inn". We were daily
at Hylander Museum & he conducted
us one day & a geo. group, another
Chamberlain guided 2 days. We
got some good things & saw but
did not collect - *Arctostaphylos* *rotun-*
difolia, *Habenaria macrophylla*,
H. orbiculata, *Hookeri*, *latifolia*
& lots of *H. hypnoides*! *Cypripedium*
reginae, *Petadites* (lvs. only) *Pys-*
os *asarifolia*, *Valerian*, *Galium*
varian *haradense*, *Isotria*, *Rosa*
johannensis (new one) *Galium*
various sedges. *Patentilla* *flus-*
did not come my way. I sent
my stuff to him, as I could not
take to him. *Hedysarum* & *Aster*.

^{Bicknell}
+ *Prunus pumila* - *Castilleja pallida*
re re - I thought banks of Aroostook
wonderful - someone got *Viola labrad.*
we all gave to a lady who hadn't.
I got big sta. of *Gehamium* just
+ passed around - 2nd sta. I've
seen in the - makes poor sp. I did
suggest to Norton you + Parlin to be
remembered - to perhaps that's where
your sp. came from? A lovely country
the Aroostook Co. Hotel was com-
fortable - We left home very, very
hot & dry, colder that day + 1 1/2
weeks of showers had washed
out potatoes - we had one rainy
day, soaked - (Alas a mo. here of
drought in a generation + perfectly
sickening - crops ruined berries
destroyed shortage of water - just
2 little showers since my return -
not a spear of green grass - horrible
tempted to go to bed & remain!
depresses me to look out even -
Mrs. Adams' husband very ill & so
she couldn't come - Mr. Parlin has
been ill too, & couldn't afford to come -

We started from Caribou after the meeting, entered at Van Buren Twp on no. 1 'Side Gaspi'. I'd been 'before' but not 'grace' & it, around, went very slowly, 'lots of rain - fog 2 or 3 days, just while I most needed good weather. The trails were slippery, often slides even of trees, & the my knee stood up well on bogs in Caribou, Arcturusa, Calopogon, Yellow & Royal 'Ladies' slippers & I was only one to stay with Highlander, it gave out at Percé after too much walking on uneven ground. - Climbing I collected for A.M.N. as well as Cornhill & suggested that when he gets them, 2 or 3 specs. You might like 'dupes', as *Tanacetum* *pur.* (banks of St. John) *Alchemilla*, *Male Fern* etc. - I had some stars from Weatherby, Bear, ^{Champlain} *Wegand*, mostly of little use - weather or season - grand scenery - better places to stay & to eat than before lots of new cabins. The other time was madly rushed. This time, too long in some places, not enough in

others, poor weather to dry & species-
maddeningly poor - tragic to see
how they came out - got *Pinguicula*
Laurentian Primrose *Hedysarum*
Alchemilla, *Coralorhiza* ^{Saxif.} ^{lucida} ^{very com.}
esp. *maculata* - found also *innata*
& acres of *H. hyperborea* & *clavellata*
Knautil - some good sedges - We
then went only 45 mi. a day!
eg. hunting (very poor) fossils &
we stayed in one ample place to
get some at Fossil Fish Cliffs - We
saw marvelous scenery & really
had a corking time but I spent
far too much on top of a new car
& Mex. trip - At Gaspe one night at
Percé & nights - a favorite place - walked
at low tide out to the Rock, went
around & on to the Bonaventure I.
& saw tens of thousands of gannets,
some murret, Kittiwake, Razor-
billed auk, black guillemots but
no puffins - The frosts proved valu-
able botanically. I got Male Fern
galore - Merrill asked for some -
got *Cryptogramma* St. *Cystopteris* (both)

We drove along St. John R. from
St. Leonard to St. John (overly near
Fredericton) & banks of St. J. as far
as Crooked. I've sent a big box
to Cornell. Took boat from St. J. to
Grand Manan, against my judg-
ment & ran into fog (can't see
way!) so could make no boat trip,
etc. 1st day when we should
have grabbed our day. Collected
some & got about considerably for
so brief a stay. Not so nice a place
as stayed before. Acad. sharp tailed
sparrows & song about all the added.
Whisper. in not being able to make
Machias seal I. trip for puffins.
But on whole we had fine trip &
got on well. Ret'd to find home
of the shovels within 40 m. had
hit here, painter had fallen from
scaffolding (same way) & broken leg bro-
ke in land serious, angina, desolation
& ruin in the fields, my dad had
left for a good job' or far sitting
in barn - verily, troubles begin when
you get home - or increase. With
very best wishes, Dr. Anne Grace
wondered have come by Rockland, Pilot you understand.

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

Rockport, Maine,
August 20, 1939

Mr. Ray C. Friesner
Tsuga Lodge
Lincolnville, Maine

Dear Mr. Friesner:

I have yours of August 16, and will say that I am very grateful to have the opportunity to follow you up on the mountains on your discovery trip. It is convenient for me to go on Wednesday, August 23, and shall look for you at the CCC Camp at 10 o'clock as you have stated,

Sincerely yours

Hans O. Heistad

H-H

Columbia University
in the City of New York
SCHOOL OF BUSINESS

Round Hill, Virginia
August 25, 1939

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

My dear Dr. Friesner:

I have been told that several years ago one
of your students did some work on nitrogen
fixation in the honey locust tree and that
something was published on the question.

I will very much appreciate a reference on
this.

Hoping to hear from you, I am

Very truly

J. Russell Smith ew

Professor of Economic Geography

JRS/cw

PLANTS OF KNOX COUNTY, MAINE,

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

Revised to August 26, 1939

- | | |
|--|--|
| (20) Aster macrophyllus var. lanthus | Large or broad-leaved aster |
| (21) Aster ^{umbellatus} ptarmacoides | Upland white aster |
| (11) Apocynum androsaemifolium | Spreading or fly-trap dogbane,
honeybloom, bitter root, |
| (19) Aspidium spinulosum (see Dryopteris) | Spinulose wood-fern |
| Aspidium cristatum | Crested shield fern |
| (7) Abies balsamea | Balsam fir |
| (9) Anaphalis margaritacea | Pearly large-flowered everlasting,
immortelle, silver-leaf, moonshine,
cottonweed, none-so-pretty, |
| (13) Aralia nudicaulis | American sarsaparilla |
| (19) Aster acuminatus | Sharp-leaved aster |
| (2) Acer pennsylvanicum | Striped maple |
| (3) Acer saccharum | Sugar maple |
| (7) Agrimonia gyrosepala | |
| Aspidium noveboracense | New York fern |
| Aspidium simulatum | |
| Aspidium marginale | Marginal shield fern, evergreen
wood fern |
| (22) (Athyrum angustum)
Asplenium filix-femina | Lady fern |
| (14) Arctostaphylos uva-ursi | Bear berry |
| (6) Actea alba | White Baneberry |
| (17) Aronia melanocarpa | Black chokecherry |
| (3) Achilles millefolium | Yellow milfoil, old man's pepper,
nosebleed, |
| (4) Acer spicatum | Mountain maple |
| (23) Athyrium angustum laurentianum | |
| (12) Aralia hispida | Bristly aralia |

- (24) *Athyrium angustum rubellum* (*Asplenium flex-famina* in Gray)
Aspidium thelypteris Marsh fern
- (15) *Arenaria peploides*
- (10) *Apios americana*
- (16) *Arenaria serpyllifolia*
- (17) *Ascephyllum nodosum* — (Brown Algae)
- (8) *Alnus incana*
-
- (26) *Botrychium obliquum* — *dissectum obliquum* (B. obliquum in Gray Men).
 (27) *Botrychium virginianum* Rattlesnake or Va. grape fern
- (25) *Betula lutea* Yellow birch
-
- (37) *Cornus canadense* Bunchberry
- (33) *Chioenes hispidula* Creeping snowberry
- (34) *Clintonia borealis* Yellow clintonia, dogberry,
- (36) *Corallorrhiza maculata* Large coral root
- (38) *Cornus rugosa* Dogwood
- (29) *Campanula* *rotundifolia* *intercedens*
- (39) *Corydalis sempervirens* Pink or pale corydalis
- (32) *Chenopodium rubrum*
- (28) *Cakile edentula* American sea rocket
- (35) *Coptis groenlandica* (*Cotrifolia* in Gray Men. Gold thread.
- (37) *Chenopodium leptophyllum*
- (30) *Chelone glabra* Turtlehead, snakeshead,

Sheet 3- Knox County

- (43) *Diervilla lonicera* Bush Honeysuckle
- (44) *Drosera rotundifolia* Round-leaved sundew, dewplant,
- (40) *Salibarda repens* Creeping dalibarda or snowberry
- (41) *Daucus carota* Wild carrot, Queen Anne's lace, bird's nest
- (42) ~~*Samolus*~~ *Dicksonia punctilobula* (*Dicksonia in hay*) Hay-scented fern
- (45) *Dryopteris* ~~*spinulosa concordiana*~~ *spinulosa* Spinulose wood-fern
- (54a) *Dulichium arundinaceum*
- (47) *Dryopteris cristata* Crested shield fern
- (46) *Dryopteris cristata clintoniana* Crested shield fern
- (48) *Dryopteris intermedia*
- (52) *Dryopteris spinulosa*
- (54) *Epigaea repens* (50) *Dryopteris noveboracensis* Trailing arbutus, mayflower,
- (58) *Eriogonum articulatum* (49) *Dryopteris marginalis* ground laurel,
- (59) *Eupatorium maculatum* (53) *Dryopteris pubescens*
- (60) *Eupatorium perfoliatum* (51) *Dryopteris simulata*
- (55) *Epilobium adenoaulon* Boneset, thoroughwort,
- (56) *Epilobium angustifolium* Great or spiked willowherb, fireweed,
- (57) *Equisetum sylvaticum* Northern willowherb
- (61) *Fagus grandifolia* American beechnut
- (63) *Fucus vesiculosus* Rockweed
- (62) *Fucus dentatus* Rockweed
- (64) *Galeopsis tetrahit*
- (67) *Gaultheria procumbens* Creeping spicy wintergreen, checkerberry, mountain tea,
- (66) *Galium palustre*
- (68) *Gaylussacia dumosa* Dwarf huckleberry, gopher berry,
- baccata*

- (65) *Galium lanceolatum*
- (69) *Gnaphalium ^ualiginosum*
-
- (30) *Hypericum punctatum*
- (76) *Hieracium canadense* Canadian hawkweed
- (70) *Habenaria clavellata*
- (74) *Hamamelis virginiana* Witch-hazel
- (73) *Habenaria psycodes* Smaller purple-fringed orchis
Hudsonia erucoides
- (79) *Hypericum perforatum* Common St. John's wort
- (72) *Habenaria orbiculata* Large round-leaved or greater green orchis
- (77) *Hieracium paniculatum* Panicked hawkweed
- (71) *Habenaria leucophaea*
- (78) *Hieracium scabrum* Routh hawkweed
- (75) *Hedeoma pulegioides* American or mock pennyroyal, tickweed, squaw mint,
-
- (81) *Iris versicolor* Larger blue-flag, fleur-de-lis,
-
- (82) *Juniperus communis depressa* Dwarf juniper
-
- (83) *Kalmia angustifolia* Sheep laurel, lambkill,
-
- 87 *Leontodon autumnalis* Fall dandelion
- 89 *Polygonum ~~Carolinianum~~* *Sax. hirsutum*
- 96 *Lycopodium obscurum* var. *dendroideum*
- 93 *Lycopodium* *complanatum* var. *flabelliforme*
- 91 *Lycopodium annotinum*
- 92 *Lycopodium clavatum* Club moss, ground pine, creeping pine

94 *Lycopodium lucidulum*

86 *Lechea minor*

97 *Lycopus americanus*

- 99 *Lysimachia terrestris*

Bulb-bearing loose-strife, swamp
 candles,

94 *Lyonis ligustrina*

85 *Lechea intermedia*

90 *Lobelia inflata*

Indian or wild tobacco, eyebright,

84 *Lathyrus maritimus*

Beach pea, seaside pea,

95 *Lycopodium obscurum*

88 *Ligusticum scoticum*

103 *Melampyrum lineare latifolium*

108 *Myrica gale*

105 *Monotropa uniflora*

Indian pipe, ice plant, ghost
 flower, corpse plant,

100 *Maianthemum canadense*

104 *Microstylis uniflora* (*microstylis* in Gray Man.)

101 *Medeola virginiana*

Indian cucumber-root

106 *Myrica asplenifolia*

107 *Myrica carolinensis*

102 *Melampyrum lineare*

Narrow-leaved cow wheat

109 *Nemopanthes mucronata*

110 *Oakesia sessilifolia*

Bellwort

111 *Oenothera muricata*

Northern evening primrose

112 *Osunda claytoniana*

Interrupted fern

113 *Ostrya virginiana*

Sheet 6 - Knox County

- | | | |
|-----|--|---|
| 121 | <i>Polypodium polypodioides</i> | Gray or hoary polypody |
| 122 | <i>Polypodium virginiana</i> | |
| 117 | <i>Pinus strobus</i> | White pine |
| 116 | <i>Picea rubra</i> | Red spruce |
| 125 | <i>Prunus virginiana</i> | Chokecherry |
| 115 | <i>Phegopteris polypodioides</i> | Long beach fern |
| 114 | <i>Phegopteris dryopteris</i> | Oak fern |
| 118 | <i>Polystichum acrostichoides</i> | Christmas fern |
| 123 | <i>Potentilla tridentata</i> | Three-toothed cinquefoil |
| 128 | <i>Pyrus melanocarpa</i> <i>see Aronia</i> | |
| 124 | <i>Prenanthes trifoliata</i> | |
| 126 | <i>Pteridium latiusculum</i> | Bracken or brake |
| 119 | <i>Polygonum cilinode</i> | |
| 127 | <i>Pyrola elliptica</i> | Shin-leaf |
| 120 | <i>Polygonum</i> ^{<i>convolvulus</i>} <i>pubescens</i> | |
| 118 | <i>Polygonatum</i> ^{<i>pubescens (= P. biflorum of Gray)</i>} <i>convolvulus</i> | |
| 129 | <i>Quercus borealis maxima</i> | Large fruited Red Oak |
| 132 | <i>Rosa nitida</i> | |
| 130 | <i>Rhexi</i> ^{<i>virginica</i>} | Meadow beauty, deer grass, |
| 131 | <i>Rhododendron canadense</i> | |
| 133 | <i>Salicornia europaea</i> | Slender or jointed glasswort
saltwort, |
| 152 | <i>Spartina pectinata</i> | |
| 136 | <i>Smilacina racemosa</i> | |
| 159 | <i>Streptopus roseus perspectus</i> | Sessile-leaved twisted stalk, |
| 157 | <i>Spiranthes ochroleuca</i> | |
| 158 | <i>Stellaria longifolia</i> | |

Sheet 7 - Knox County
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Sparganium

- | | |
|--|---|
| 140 Solidago juncea | Sharp-toothed, early, plumed goldenrod, |
| 154 Spiraea latifolia | |
| 137 Solidago bicolor | White goldenrod, silverred, |
| 145 Solidago rugosa | Wrinkle-leaved, tall, hairy, goldenrod, bitterweed, |
| 142 Solidago nemoralis | Gray, field goldenrod, dyer's weed, |
| 143 Solidago nuttallii | |
| 148 Solidago squarrosa | |
| 146 Solidago sempervirens | Seaside goldenrod |
| 155 Spiraea tomentosa | |
| 139 Solidago canadensis | Canada goldenrod, rock yellow weed |
| 160 Suaeda maritima | |
| 141 Solidago latifolia | Zig-zag, broad-leaved goldenrod |
| 138 Solidago caesia | Blue-stemmed, wreath goldenrod |
| 135 Selaginella rupestris | |
| 147 Solidago serotina gigantea | |
| 144 Solidago puberula | Downy goldenrod |
| 134 ^{cu} Saitellaria lateriflora | Zig-zag, broad-leaved goldenrod |
| 156 [^] Spiranthes gracile | |
| 151 Spartina patens | |
| 150 Spartina alterniflora | |
| 153 Spartanilla rubra | Red flowered Sand Spurry |
| 149 Sonchus asper | |
| 164 Trifolium procumbens | Low, smaller hop clover, |
| 161 Teucrium canadense | American germander or wood sage, |
| 163 Trientalis americana ^{lorenalis f. transmontana in Gray Man} | Star flower, chickweed, wintergreen, |
| 166 Trillium undulatum | Painted trillium |

162 *Teucrium canadense littorale*

Narrow-leaved germander

165 *Triglochin maritima*

Vicia oracca

Blue tuft cow vetch, tare, oat peas,
tinegrass,

169 *Vaccinium pennsylvanicum*

Dwarfed, sugar, low-bush blueberry,

173 *Viburnum molle*

172 *Viburnum cassinoides*

Withe-rod, Appalachian tea,

171 *Viburnum alnifolium*

Hobble-bush, American wayfaring tree,

169 *Vaccinium vitis-idaea*^U minor

174 *Viola rotundifolia*

Round-leaved violet

170 *Valeriana officinalis*

167 *Vaccinium corymbosum atrocarpum*

175 *Woodsia ilvensis*

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GSH

PLANTS OF WALDO COUNTY, Maine

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

Revised to August 26, 1939

- (Aspidium - see Dryopteris)
- 17 Aster acuminatus Sharp-leaved wood aster, mountain or whorled aster,
- 3 Acer rubrum Red maple, swamp maple,
- 6 Acer columbianum American sarasparilla
- 15 Aralia nudicaulis Asplenium
- 19 Athyrium angustum (filix-foemina of Gray Man.)
- 2 Acer pennsylvanicum Striped maple
- 4 Acer saccharum Sugar maple
- 9 Amelanchier canadensis Service-berry, June berry, shad bush,
- 13 Anaphalis margaritacea Pearly everlasting, immortelle, silver-leaf, cottonweed,
- 18 Aster umbellatus Tall flat-top white aster
- 7 Alisma subcordata American water plantain
- 16 Aronia floribunda
- 5 Acer spicatum Mountain maple
- 12 Apocynum androsaemifolium Spreading dogbane, honeybloom, bitter-root,
- 14 Aralia hispida
- 1 Abies balsamea Balsam fir
- 8 Alnus incana
- 10 Amphicarpa bracteata
- 19
- 22 Betula populifolia White birch
- 21 Betula papyrifera Canoe birch
- 20 Betula lutea Yellow birch
- 23 Botrychium dissectum obliquum Ternate grape fern
- 24 Botrychium multifidum silaifolium (B. ternatum intermedium of Gray Man.)
- 25 Botrychium virginianum Rattlesnake fern, Virginia grape fern,

Sheet 2- Waldo County

- 26 *Carex scoparia*
 36 *Cornus canadensis* Low or dwarf cornel, bunchberry,
 34 *Corallorhiza maculata* Coral root
 28 *Chamaedaphne calyculata* Leather leaf, dwarf Cassandra
 32 *Circaea alpina*
 33 *Coptis groenlandica* (*C. trifolia* of Gray Man.)
 30 *Chimaphila umbellata* Pipsissewa, Prince's pine
 27 *Cephalanthus occidentalis* Buttonbush, bush globe flower,
 31 *Chilogenes hispidula* Creeping snowberry
 29 *Chelone glabra* Turtlehead, snakeshead, balmony,
 39 *Corylus americana* American hazel
 37 *Cornus rugosa*
 40 *Corylus rostrata* Beaked hazel
 38 *Corydalis sempervirens* Pink or pale corydalis
 35 *Cornus alternifolia*
 41 *Dennstaedtia punctilobula* Hay-scented fern
 49 *Dulichium arundinaceum*
 43 *Drosera longifolia*
 44 { *Dryopteris boottii* ~~*spinulosa*~~ *intermedia* Glandular Swamp Fern
 47 *Dryopteris spinulosa* Spinulose wood fern
 45 *Dryopteris marginalis* Wood fern
 8 *Dryopteris phegopteris* Marginal shield fern
Dryopteris linnaea
 42 *Diervilla lonicera*
 48 *Dryopteris thelypteris pubescens* Marsh fern
 46 *Dryopteris noveboracense* New York fern
 55 *Eriocaulon articulatum*

- | | |
|----------------------------------|---|
| 56 <i>Euphorbia esula</i> | |
| 58 <i>Eupatorium perfoliatum</i> | Boneset, thoroughwort, |
| 57 <i>Eupatorium maculatum</i> | Spotted Joe-pye weed |
| 51 <i>Epipactis pubescens</i> | |
| 50 <i>Epilobium adenocaulon</i> | Northern willow-herb |
| 53 <i>Equisetum fluviatile</i> | |
| 54 <i>Equisetum sylvaticum</i> | Tin weed |
| 52 <i>Equisetum arvense</i> | |
| 59 <i>Fagus grandifolia</i> | American beech nut |
| 61 <i>Fraxinus nigra</i> | |
| 60 <i>Fraxinus americana</i> | |
| 65 <i>Gaultheria procumbens</i> | Wintergreen, checkerberry,
mountain tea, |
| 66 <i>Gaylussacia baccata</i> | |
| 64 <i>Galium palustre</i> | |
| 67 <i>Geum laciniatum</i> | |
| 63 <i>Galium obtusum</i> | |
| 62 <i>Galium asprellum</i> | Rough bedstraw |
| 71 <i>Hamamelis virginiana</i> | |
| 82 <i>Hypericum virginianum</i> | |
| 76 <i>Hieracium scabrum</i> | |
| 73 <i>Hieracium aurantiacum</i> | Devil's paintbrush, orange hawkweed, |
| 75 <i>Hieracium paniculatum</i> | Panicled hawkweed, |
| 72 <i>Hedeoma pulegioides</i> | American or mock pennyroyal, squaw
mint, |
| 69 <i>Habenaria orbiculata</i> | Large, round-leaved orchis, greater
green orchis |
| 68 <i>Habenaria lacina</i> | |
| 70 <i>Habenaria psycodes</i> | Smaller purple fringed orchis |

Sheet 4 - Waldo County

- 77 *Hydrocotyle americana*
- 74 *Hypericum boreale*
- 76 *Houstonia caerulea* Bluets, innocence, eyebright,
- 80 *Hypericum majus*
- 81 *Hypericum perforatum* St. John's wort
- 79 *Hypericum canadense* Canadian St. John's wort
- 74 *Hieracium canadense*
- 83 *Ilex verticillata* Winterberry, black alder,
- 84 *Iris versicolor*
- 85 *Juniperus communis* Dwarf juniper
- 86 *Juniperus communis depressa*
- 87 *Kalmia angustifolia* Sheep laurel, lambkill,
- 94 *Lycopodium clavatum* Club moss, ground pine, creeping pine,
- 96 *L. lucidulum*
- 97 *L. obscurum dendroideum*
- 95 *L. complanatum flabelliforme*
- 92 *L. annotinum*
- 93 *L. annotinum acrifolium*
- 98 *L. tristachium*
- 91 *Lobelia inflata* Indian or wild tobacco
- 104 *Lysimachia thyrsiflora*
- 103 *Lysimachia terrestris*
- 100 *Lycopus rubellus*
- 101 *Lycopus uniflorus*
- 99 *Lycopus americanus*
- 89 *Leontodon autumnalis* Fall dandelion
- 102 *Lyonia ligustrina*

- 88 *Lechea intermedia*
~~*Ledum procumbens*~~
 90 *Lobelia cardinalis* Cardinal flower, red lobelia,
- 110 *Myrica carolinensis*
 111 *Myrica gale*
 108 *Monotropa hypopitys*
 107 *Medeola virginiana* Indian cucumber-root
 106 *Malaxis unifolia* Green adder's mouth
 105 *Maianthemum canadense*
 109 *Monotropa uniflora* Indian pipe, ghost flower, corpse plant,
- 112 *Nemopanthus mucronata*
 113 *Nuphar advenum*
 119 *Ostrya virginiana*
 120 *Ostrya virginiana glandulosa*
 118 *Osmunda regalis spectabilis* Royal or flowering fern
 116 *Onoclea sensibilis* Sensitive fern
 121 *Oxalis acetosella* Wood sorrel
 115 *Oenothera perennis* (*Oe. pumila* in Gray)
 117 *Osmunda claytoniana* Interrupted fern
 114 *Oakesia sessilifolia* Bellwort
- 137 *Pteridium latiusculum* (*Pteris aquilina* in Gray) Bracken or brake
 131 *Populus tremuloides* Aspen
 126 *Pontederia cordata* Pickeral weed
 129 *Polystichum acrostichoides* Christmas fern
 138 *Pyrola elliptica* Shin-leaf

Sheet 6 - Waldo County

Oak Farm

Narrow-leaved Beech Farm

- | | |
|--|---|
| 123 <i>Phlegmaria dryopteris</i> | |
| 124 <i>Phlegmaria polypodioides</i> | |
| 139 <i>Pyrola secunda</i> | Serrated or one-sided wintergreen |
| 127 <i>Polygonum muglenbergii</i> | |
| 124 <i>Potentilla tridentata</i> | Three-toothed cinquefoil |
| 127 <i>Polygonum sagittatum</i> | Arrow-leaved tear thumb |
| 135 <i>Prenanthes altissima</i> | |
| 133 <i>Potentilla monspeliensis</i> | Rough cinquefoil |
| 125 <i>Polygala sanguinea</i> | Common field or purple milkwort,
purple polygala |
| 136 <i>Proserpinaca palustris crebra</i> | |
| 122 <i>Panicum linearifolium</i> | |
| 132 <i>Potamogeton spikhyrus</i> | |
| 126 <i>Polygonum amphibium</i> | |
| 140 <i>Quercus borealis maxima</i> | |
| 143 <i>Rhexia virginica</i> | Meadow beauty, deer grass, |
| 142 <i>Ranunculus</i> | |
| Ranunculus <i>flammula reptans</i> | |
| 141 <i>Ranunculus acris steveni</i> | |
| 144 <i>Rhnanthus oblongifolius</i> | |
| 145 <i>Rosa palustris</i> (R. carolinae of Gray Man) | |
| Sambucus purpurea | |
| 151 <i>Spiraea latifolia</i> | |
| 152 <i>Spiraea tomentosa</i> | Steeple bush, hardhack |
| 150 <i>Sium suave</i> (cicutae-folium) | Water parsnip |
| 158 <i>Solidago latifolia</i> | Zig-zag or broad-leaved goldenrod |
| 159 <i>S. nemoralis</i> | Gray or field golden rod, dyer's weed, |
| 161 <i>S. rugosa</i> | Wrinkle-leaved, tall, hairy, goldenrod,
bitterweed, |
| 156 <i>S. graminifolia nuttallii</i> | |
| 155 <i>S. canadensis</i> (canadensis) | Canada goldenrod, yellow-weed, rock
goldenrod |
| 154 <i>S. bicolor</i> | Silverrod, white goldenrod, pale
goldenrod |
| 157 <i>S. juncea</i> | Early, plume, sharp-toothed, or
yellow-top goldenrod |
| 162 <i>S. serotina</i> | |
| 160 <i>S. puberula</i> | Donwy goldenrod |

- | | | |
|-----|---|--|
| 147 | <i>Scutellaria galericulata</i> | Skull cap |
| 153 | <i>Spiranthes gracilis</i> | Ladies' tresses |
| 148 | <i>Scutallaria lateriflora</i> | Mad dog, skull cap |
| 146 | <i>Sagittaria arifolia</i> | |
| 149 | <i>Selaginella rupestris</i> | |
| 164 | <i>Thalictrum dasycarpum</i> | |
| 163 | <i>Taxus canadensis</i> | |
| 165 | <i>Thuja occidentalis</i> | Chinese arbor-vitae |
| 166 | <i>Trientalis borealis</i> (<i>T. americana</i> in Gray Man) | Star flower, chickweed, winter-green |
| 167 | <i>Trillium undulatum</i> | Painted trillium |
| 172 | <i>Verbena hastata</i> | Blue vervain, wild hyasop, simplers Joy, |
| 175 | <i>Viburnum acerifolium</i> | Maple leaved arrow-wood, or dockmackie |
| 177 | <i>Viburnum dentatum</i> | Arrow-wood, mealy-tree |
| 176 | <i>Viburnum alnifolium</i> | Hobble-bush, American wayfaring tree, |
| 180 | <i>Viola renifolia</i> | |
| 179 | <i>Viola lanceolata</i> | Lance-leaved violet |
| 181 | <i>Viola rotundifolia</i> | Round-leaved violet |
| 173 | <i>Veronica officinalis</i> | Common speedwell, fluellin, Paul's betony, ground-hale |
| 174 | <i>Veronica scutellata</i> | Marsh or skullcap speedwell, |
| 169 | <i>Vaccinium macrocarpon</i> | Large or American cranberry |
| 168 | <i>Vaccinium canadense</i> | |
| 170 | <i>Vaccinium pennsylvanicum</i> | Dwarf, sugar, or low-bush blueberry |

171 *Vaccinium pennsylvanicum nigrum*

178 *Vicia cracca*

Blue tufted or cow vetch, cat
peas, tinegrass

182 *Woodsia ilivensis*

Rusty woodsia

GSH

Shrubby Plants of Megunticook
and Bald Rock Mountains.

Waldo + Knox Counties, Maine.

- | | | |
|----|--|--------------------------------|
| 4 | <i>Arctostaphylos</i> sp <i>uva-ursi</i> var <i>coastalis</i> | Bearberry |
| 6 | <i>Aronia melanocarpa</i> | Smooth Chokeberry |
| 1 | <i>Aralia hispida</i> | Spiny Sarsaparilla |
| 2 | <i>Alnus incana</i> | Speckled Alder |
| 5 | <i>Aronia floribunda</i> | Hairy-twig Chokeberry |
| 3 | <i>Amelanchier canadensis</i> | Juneberry |
| 8 | <i>Chamaedaphne calyculata</i> | Leatherleaf |
| 7 | <i>Cephalanthus occidentalis</i> | Buttonbush |
| 13 | <i>Corylus rostrata</i> | Beaked old Hazelnut |
| 11 | <i>Cornus rugosa</i> | |
| 10 | <i>Cornus obliqua</i> | |
| 9 | <i>Cornus alternifolia</i> | |
| 12 | <i>Cornus stolonifera</i> | |
| 14 | <i>Diervilla lonicera</i> | |
| 15 | <i>Gaylussacia baccata</i> | |
| 16 | <i>Hamamelis virginiana</i> | |
| 17 | <i>Ilex verticillata</i> | |
| 18 | <i>Juniperus communis depressa</i> | |
| 19 | <i>Kalmia angustifolia</i> | |
| 20 | <i>Ledum groenlandicum</i> (Prob. not suitable
for transplanting) | |

- 21 *Lyonia ligustrina*
- 22 *Myrica asplenifolia*
- 23 *Myrica carolinensis*
- 24 *Myrica gale*
- 25 *Nemopanthus mucronata*
- 26 *Rhododendron canadense*
- 27 *Spiraea latifolia*
- 28 *Spiraea tomentosa*
- 29 *Taxus canadensis* (~~difficult~~)
#
- 31 *Vaccinium corymbosum*
- 30 *Vaccinium canadense*
- 32 *Vaccinium pennsylvanicum*
- 34 *Valburnum alnifolium*
- 33 *Valburnum acerifolium*
- 36 *Valburnum dentatum*
- 35 *Valburnum cassioides*
- 37 *Valburnum lentago*