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conservation of the prairie soils of Iowa. Comparison of volume weight and pore space soil determinations in the prairies and in adjacent fields under rotation cropping shows that the depletion of organic matter and deterioration in structural condition as a result of cropping have not been excessive. They occurred only in the Kalsow prairie in Pocahontas county and there only to a depth of six inches.

One characteristic of the prairie as soil building vegetation not commonly recognized is the great diversity of the component plants. These natural mixtures of grasses, legumes and other herbaceous plants are usually composed of 100 to 150 different species. Under continued unmowed treatment the Kalsow prairie increased in dry-weight yield of hay from 1.34 tons in 1949 to 1.77 tons in 1950 and that of the Ada Hayden prairie from 1.69 tons to 2.24 tons. The additional 1.66 tons of organic matter per acre left on the surface of the soil in the Hayden prairie in 1950 from previous years, indicates that the removal of some portion of the organic matter is probably desirable. Tests to determine the quantity to be removed and the manner of removal are planned for both tracts in 1951. A grant of \$350 for these investigations was made by the conservation commission in 1949 and renewed in 1950.

The members of the committee have been giving further consideration to the working plans for the eight separate conservation projects of the committee as outlined in the comprehensive report of the committee in 1944. Outlines of these plans with specific recommendations for future activity in the several fields of conservation will be included in the proposed unified conservation program to be presented in the committee report for 1953.

No attempt has as yet been made to select a person to take the place of Dr. Ada Hayden on the committee.

Respectfully submitted,

J. M. AIKMAN, *Chairman*

Committee:

H. S. Doty
G. O. Hendrickson
H. G. Hershey
C. R. Keyes
G. B. MacDonald
F. H. Mendell
E. B. Speaker
F. F. Riecken
J. M. Aikman

Coordinating committee:

L. A. Knowler
G. D. Lovell
R. A. Nelson
L. A. Underkoffler

Report of the Biological Survey Committee

Within the past two years the Committee has suffered by the loss of three members, one each by death (T. C. Stephens), resignation (R. B. Wylie), and removal from the state (C. L. Gilly). Accordingly, three additions to the Committee with the permission of the nominees, are suggested to the President of the Academy for appointment.

The Committee feels that its primary purpose is to assist in projects that would contribute to an eventual state-wide survey of the biological resources of Iowa. So far, the absence of funds for such a project has limited the Committee to such enterprises as they might be able to carry on alone, and to the encouraging of other members of the Academy of individuals outside its membership, to proceed with biological studies in this general direction. As a Committee, we would be very happy to receive or give suggestions concerning what particular projects or phases of biology might be most profitably investigated, and, if questions of coordination should arise, we would be willing to act as a clearing house of information.

The Committee members have been working and publishing, privately and through the Academy, on botanical and zoological taxonomic groups, ecological habitats, and geographical areas, as represented in the state. While we hope this admonition is unnecessary, we would like to urge all the members of the Academy who are whole or part-time biologists, to continue their activities, begin new ones, and publish their accumulated data, in order that the resources of the state might be better known, better understood, and more efficiently used, looking toward a continuing improvement in the conservation aspects of Iowa biology.

Another project the Committee is considering is the possibility of producing a bibliography of published material on Iowa biology arranged by subject and by taxonomic groups.

One of the most useful forms of publication of biological information is that of illustrated handbooks on special aspects of biology, and, in particular, on various taxonomic groups. We would like to commend the Iowa Conservation Commission for the most recent addition to such publications, "The Fishes of Iowa," by J. R. Harlan, E. B. Speaker, and Maynard Reece. This type of popularization of scientific knowledge, with no loss in accuracy, should be considered by scientists as one of their primary functions, and, in fact, as a duty to their fellow citizens. Works of a similar

nature on other aquatic organisms, amphibia, reptiles, birds, mammals, fungi, wild flowers, and trees are sorely needed.

H. E. JAKUES,

MARTIN L. GRANT, *Chairman*

Report of the High School Relations Committee of 1951

The 1950 convention at Iowa City was a very successful one. The recognition ratings given the 37 essays were divided among the clubs as follows: Zeta Mu Epsilon of Marion, two superior; S. O. S. of Saint Joseph Academy of Dubuque, two superior, four excellent and three honorable mention; C₂H₂ of Charles City, one excellent; S. O. S. of Wilson High, Cedar Rapids, two superior; Alpha Beta Kappa of City High, Cedar Falls, one superior; Tri-Sci of New Hampton, one superior, five excellent and six honorable mention; Phi Beta Chi of City High, Fort Madison, one superior, one excellent and two honorable mention; Nascents of West High of Waterloo, four superior and two excellent; Science Club of Panora, one excellent.

The stage of the auditorium of the City High School was well filled with exhibits from the clubs. The following recognitions were made by the judges: superior ratings to Tri-Sci of New Hampton in biological and physical sciences; Alpha Beta Kappa of Cedar Falls in biological and physical sciences; Phi Beta Chi of Fort Madison in biological science; General Science Club of Amos Hiatt Junior High School of Des Moines in general science. Excellent ratings were given to the Microscope Club of Roosevelt High School of Cedar Rapids in biological and physical sciences; and the Nascents Club of West High School of Waterloo in biological and physical sciences.

On September 9, 1950, the executive committee of the Junior Academy met at the Memorial Union in Iowa City to plan for the club year of 1950-51. The meeting was called to order by President Elsa Schmidt of Winfield. Others present were Vice-president, Dick Anderson of New Hampton, Secretary Edwin Blinks of Marion, Treasurer David Gardner of Des Moines, Senior Councilor Roger Isaacson of New Hampton, Junior Director of Essays S. M. Pattee of Cedar Rapids and Permanent Secretary D. C. Stroud of Des Moines. Shortly before this meeting was to take place, it was learned that the Junior Councilor Elect had left Iowa to accept a position in another state and that the Senior Director of Essays, Mr. E. A. Kurth of Grinnell, had passed away suddenly just before

his school was to close in May. Faced with the necessity of filling these offices by appointment, the executive committee voted to exchange the duties of the Junior and Senior Councilors. This arrangement made it possible for Mr. Roger Isaacson and his club of New Hampton to continue publication of the News Letter. Mr. William Lloyd of Winfield was asked to serve as Junior Councilor, a place which he has ably filled. Mr. S. M. Pattee, who was chosen at the meeting in April to be Junior Director of Essays, very graciously accepted to serve as Senior Director of Essays, and he has directed that program this year with the assistance of Mrs. Sarah Brown of the City High School of Newton as Junior Director of Essays.

A new feature by which interest in science club work could be promoted was used at the Iowa State Education Association meeting in Des Moines in November. Several clubs arranged some attractive advertising posters in the corridor of East High school where the science luncheon was held. Literature was distributed and interesting explanations were made by the young folks in charge of the tables.

As an item of business at the 1950 convention, the S.O.S. Club of the Saint Joseph Academy of Dubuque was asked to submit drawings for an official seal for the Junior Academy. Several drawings were received and placed on exhibit at the 1951 convention.

The membership of clubs has not been as large in the Junior Academy this year as it was last year when twenty-three clubs were enrolled. During the 1950-51 year only three new clubs were added to the roster. We close the year with twenty-one clubs, a loss of five clubs, from our membership. Such losses usually can be attributed to a change of teaching personnel in the school system. There seems to be a need for more vigorous campaigning to enroll existing clubs in the Junior Academy. This is necessary in spite of the fact that practically every principal of a high school in Iowa was given an invitation last fall to have the science club of his school become active in the Junior Academy of Science of Iowa. There are 437 members in the Junior Academy clubs this year. These clubs are as follows:

- Cedar Falls—Alpha Beta Kappa
- Cedar Rapids, Roosevelt High—Biology Club
- Cedar Rapids, Wilson High—Wilson Science Club
- Charles City—C₂H₂
- Des Moines, Amos Hiatt Jr. High—General Science
- Dubuque, Saint Joseph Academy—S. O. S.
- Fort Madison—Phi Beta Chi
- Grinnell—Kappa Kappa Kappa

Iowa City—Chi Beta Pi
Keokuk—Phi-Chem
Knoxville—Kamera Klub
Marion—Zeta Mu Epsilon
New Hampton—Tri-Sci
Newton—Science Club
Oskaloosa—Senior Science Club
Panora—Panora Science Club
Riceville—Riceville Science Club
Sioux City, East High School—East High Chemists
Waterloo, East High School—
Waterloo—West High School, Nascents
Winfield—Science and Camera.

The work that has been done by the Tri-Sci Club of New Hampton and the advisor, Mr. Roger Isaacson, in publishing the News Letter for the past two years, is very much appreciated. The Junior Academy publication has been produced in printed form during the two years. There is need for a great deal of promotion in each club to interest each member in becoming a yearly subscriber. Many more subscriptions will have to be obtained to maintain a printed publication.

The affiliation of the Junior Academy with Science Clubs of America has continued during the year. From time to time useful publications have been received from the S.C.A.

To continue financial support of the work of the Junior Academy the committee recommends that the appropriation of seventy-five dollars be continued by the Iowa Academy of Science for 1951-52.

We appreciate the service that has been rendered to the Junior Academy by the City High School of Waverly and the local committee that has helped to make the convention a success.

The committee recommends the appointment of the following persons as adult advisors for the Junior Academy for 1951-52:

Senior Councilor, Mr. Roger Isaacson—New Hampton
Junior Councilor, E. D. Alton—Iowa City
Senior Director of Essays, Mrs. Sarah Brown—Newton
Junior Director of Essays, Mr. W. H. Seubert—Sioux City
Permanent Secretary, D. C. Stroud—Des Moines.

This report is respectfully submitted by the membership of the committee.

DEAN C. STROUD, *Chairman*
LELAND P. JOHNSON
JAMES W. KERCHEVAL

Committee on Science Talent Search

During the spring of 1950, each of eight of the nine winners of Clinton Foods Science Scholarships chose a college or university at which he wished to continue his education. Recommendations were written for them. It is believed that most of them received at least remission of tuition. Some received considerable more than remission of tuition. One winner was unable to attend college because of conditions in his home. Clinton Foods, Inc., is holding his scholarship open for one more year, and again this year he will be offered assistance in securing remission of tuition from the school of his choice.

About the first of September a letter was sent to the principal of each senior high school in Iowa urging that the best seniors be encouraged to complete their scientific projects and take the examination in the Tenth Science Talent Search conducted by Science Clubs of America which was also the Fifth Iowa Science Talent Search. Fifty-four schools requested 340 examination blanks.

On February 8, 1951, the papers originating in Iowa were sent from Washington, D. C., to the Committee on Science Talent Search. By March 28, the highest thirteen papers had been selected and each member of the committee had studied these thirteen papers. On that date the committee met with Dr. Grant Gale in Grinnell. Final awards as follows:

- One first place—William Hill Norton, Marshalltown High School
- Three second places—Alvin Neil Hammer, East High School, Des Moines
James Dent McMechan, East High School, Waterloo
Robert Sharpe, Glenwood High School
- Five third places—Thomas Joseph Bassler, St. Mary's High School, Clinton
Edwin David Blinks, Marion High School
Robert Raymond Leichtman, New Hampton High School
Burton James Loupee, Newton High School
Margaret Lou Moeller, Iowa City High School.

The certificates of award were presented by George T. Peckham, Jr., representing Clinton Foods, Inc. at a joint meeting of the Iowa Academy of Science and the Junior Academy of Science of Iowa held in Knights Gymnasium at Wartburg College about 11:30, April 20, 1951.

Clinton Foods, Inc. has authorized the announcement that again in 1952 they will appropriate \$2000.00 for scholarships and expenses incurred in announcing and awarding them. On April 5, 1951, this announcement was sent to about 1000 science teachers in the senior high schools of Iowa.

The members of the committee are E. R. Becker, F. E. Brown, G. O. Gale, J. V. McKelvey, and J. S. Routh. P. A. Parent recently at Drake University is now at John Hopkins University and has withdrawn from the committee.

F. E. BROWN, *Chairman*

Report of the Membership Committee

The membership committee, consisting of the undersigned, has been active this year not only in the solicitation of new members but also in an effort to have those associate members "actively engaged in scientific work" elected to the status of fellow. In addition to the fine work of the committee members within their respective areas, 15 mimeographed letters went out to members of the academy at institutions having resident members, and 35 mimeographed letters, explaining the work of the academy, went out to the presidents of colleges and junior colleges having no academy members listed among their faculties.

The membership of the committee wishes to present the following names for election to the Iowa Academy of Science:

Transfer from life fellow to emeritus fellow: 2; Henry S. Conard, Grinnell; H. E. Jaques, Mount Pleasant.

Life fellow: 1; Albert Hartzell, Yonkers, New York.

Fellows: 7; Ralph W. Anderson, Grinnell; A. Richard Kassander, Jr., Ames; Edward A. Kozicky, Ames; Burlyn E. Michel, Iowa City; Omer J. Rupiper, Mason City; David W. Weiser, Des Moines; Philip S. Riggs, Des Moines.

Transfer to fellows: 26; John E. Bardach, Cedar Falls; Byrl E. Benton, Des Moines; W. H. Bragonier, Ames; Earle Canfield, Des Moines; H. B. Cheney, Ames; William H. Coppock, Des Moines; Walter L. Edwards, Riceville; John C. Eldredge, Ames; Basil E. Gillam, Des Moines; Floyd S. Harper, Des Moines; Ray Haun, Des Moines; F. E. Jacob, Des Moines; A. L. McComb, Ames; Paul A. Meglitsch, Des Moines; G. W. Mouser, Cedar Falls; R. A. Rogers, Cedar Falls; Fae M. Shawhan, Des Moines; Margherita Tarr, Ames; Leonard Towner, Des Moines; Richard Feigel Trump, Ames; Floyd W. Von Ohlen, Fairfield; Laura S. Von Ohlen, Fairfield; Anthony C. Westerhof, Des Moines; Emery L. Will, Cedar Falls; Eli Zubay, Des Moines; Bruce B. Clark, Grinnell.

Associates: 129; Donald Adams, Hedrick; Enid Beth Allbaugh, Des Moines; Charles F. Allegre, Cedar Falls; Abram M. Barch, Iowa City; Richard Beatty, Mount Pleasant; Mary Jane Bender, Grinnell; Donald D. Bevis, Des Moines; Glenn H. Bolke, Clinton; Robert F. Boldt, Newton; Ralph Boley, Birmingham; Robert H. Bonner, Grinnell; Lloyd J. Borstelman, Des Moines; John M. Brierly, Ames; Douglas Gay Brown, Algona; Frank W. Bruning, Spirit Lake; Jean Bruning, Spirit Lake; Robert E. Callahan, Iowa City; Anton Burchard Carlson, Ames; J. W. Cavett, Charles City; John G. Clark, Ames; JoAnn Clements, Des Moines; Barbara Compton, Des Moines; Francis DeKalb, Fairfield; Rich-

ard P. De Nise, Des Moines; John D. Dodd, Ames; Harold E. Dresser, Des Moines; Dwyer Duncan, Ames; Sister Mary Edwina, Dubuque; Arthur L. Eiser, Jr., Ames; M. A. Ellerhoff, Des Moines; Douglas S. Ellis, Ames; Frank O. Ellison, Ames; James Elmslie, Grinnell; Thomas Saunders English, Ames; Jack Epstein, Iowa City; Marion Delroy Ervin, Iowa City; Gladys Everson, Ames; Wendall M. Farrow, Sheridan; Joseph F. Foster, Ames; Pete Gamble, Fairfield; Lewis W. Gleekman, Newark, Delaware; Leo E. Goulden, Davenport; Charles Boyd Granberg, Des Moines; Barbara Jean Grant, Cedar Falls; Dorothy S. Grant, Cedar Falls; Stanley Griffin, Des Moines; Leonard Grumbach, Des Moines; Winston Flackbarth, Ames; Wade E. Hall, Fairfield; George S. Hammond, Ames; Theodore K. Hansen, Granger; James R. Harlan, Des Moines; Arthur Herrmann, Jr., Des Moines; Lloyd O. Herwig, Ames; Milton Herwig, Riceville; Charles L. Higgs, Mount Pleasant; Minoru Honma, Iowa City; R. B. Juni, Des Moines; Hugh H. Keasling, Iowa City; Paul W. Kehres, Ames; Richard Kessell, Fairfield; Henry James Ketman, Des Moines; Richard H. Kraemer, Ames; George Lane, Grinnell; F. Douglas Lawson, Council Bluffs; Paul Leaverton, Indianola; Howard Lyon, Orange City; Clifford McCollum, Cedar Falls; James E. McCoy, Ames; Robert L. McDill, Ames; Richard B. McHugh, Ames; George W. McNally, Ames; Kenneth M. Madden, Indianola; James Mannion, Cedar Rapids; George H. Matsui, Des Moines; Laverne Roy Mertz, Walnut; Gilbert E. Miller, Ames; Herber C. Miller, Mount Pleasant; E. R. Minnick, Des Moines; David O. Mobblerly, Indianola; Robert Moorman, Ames; Ralph Mouw, Orange City; J. Fred Moyer, Ames; C. Richard Murray, Iowa City; Jerome J. Nibaur, Elma; David G. Nichols, Ames; Jed Norris, Audubon; Richard Northrup, Iowa City; Raymond H. Olson, Ames; Victor J. Olson, Cedar Rapids; Peter Oppenheimer, Grinnell; Isa Ruth Plank, Oskaloosa; Furman Paul Ralston, Jr., Knoxville; George L. Roberts, Iowa City; Robert T. Sanderson, Iowa City; Edward Henry Schmor, Cedar Rapids; Mrs. C. G. Screven, Iowa City; Mary Lee Seibel, Des Moines; Herbert Skolnick, Iowa City; Robert L. Smalley, Mount Auburn; Wilbur Sprain, Ames; Harold I. Stalder, Ames; Lawrence F. Staples, Des Moines; Marilyn E. Staples, Des Moines; Edgar E. Stinson, Ames; William J. Stoner, Ames; John Stouffer, Mount Vernon; Paul Stright, Grinnell; Willard A. Taber, Iowa City; Gordon S. Taylor, Ames; Tadesse Terrefe, Mount Pleasant; Charles Thoma, Ottumwa; Willard D. Unsicker, Iowa City; James A. Van Allen, Iowa City; C. E. Van Horn, Waverly; Lewis R. Vavra, Ames; Roger Conant Voter, Ames; Frank E. Wellman, Ames; Wesley W. Wendlandt, La Crosse, Wisconsin; Henry G. Weston, Jr., Grinnell; Howard Wicks, Des Moines; Ronald E. Wilcox, Ames; Gene M. Wild, Ames; G. L. Winemiller, Charles City; George A. Wright, Carlisle; Ruth Powers Yaffe, Ames; Boyd I. Young, Ames; James Yuk, Iowa City; William J. Zimmerman, Ames.

Respectfully Submitted,

W. C. OELKE, *Chairman*

H. L. DEAN

H. V. DREXLER

R. W. GETCHELL

L. P. JOHNSON

O. C. KREIDER

T. H. LIGGETT

Report of the Committee on Resolutions

Be it Resolved: That the Iowa Academy of Science extend to the Administration, Faculty and Student body of Wartburg College this expression of appreciation for the facilities, the courtesies, and the hearty welcome afforded the Academy during the 1951 Annual Meeting of the Academy.

Be it further Resolved: That the membership of the Iowa Academy of Science extend a vote of appreciation to the officers of the Academy for their efficient conduct of the affairs of the Academy, and to the Section Chairmen for the excellent quality of the sectional papers.

Be it further Resolved: That the Iowa Academy of Science express its appreciation to Dr. F. E. Brown, for the excellent work he has done over the years with the Junior Academy.

BEN H. PETERSON, *Secretary*

Report of the Necrology Committee

The Committee on Necrology reports the passing of the following members and requests that the audience rise while their names are read: Robert Cooper, H. E. Ewing, Clifton Grove, Ada Hayden, J. W. Howell, Ellison Orr, L. B. Spinney, Charles Winsor.

Respectfully submitted,

E. B. SPEAKER, *Chairman*

PAUL BARTSCH

M. E. GRABER

J. N. MARTIN

H. J. PLAGGE

W. E. NYE

