Front Matter and Table of Contents

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Jackson Hole Biological Research Station, University of Wyoming

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REPORT ON THE ACTIVITIES

OF THE

JACKSON HOLE BIOLOGICAL RESEARCH STATION

SUMMER 1958

L. Floyd Clarke, Director
PHYSICAL FACILITIES

No buildings were added to the Station the past year, however, numerous minor repairs and improvements were made. The refurnishing and remodeling of the old powerhouse into the bathhouse was completed early in the summer before research workers arrived and was in successful use during the summer. These new accommodations provided adequate wash basins, showers and toilet facilities for the men and women at the Station. Improvements of the grounds were continued, the most important being the graveling of roads within the Station grounds.

A new gasoline tank and pump were installed by about the middle of July. This makes possible the supplying of gas at greatly reduced rates both to vehicles used by the Station and to personal cars of the research workers for their research activities. This resulted in great convenience to the personnel as well as in a saving of eight to ten cents per gallon on gas for Station use. A total of approximately 1,400 gallons of gas was dispensed to Station personnel from July 19 to September first.

All the new housing which was moved from Moran during the summer of 1957 was used continuously to take care of the demands placed on the Station. In addition, some housing was provided in tents to accommodate interested investigators for short periods of time.

At present we have no plans for increasing the size of the Station, however, we do expect to make the following improvements as soon as possible.

1. Construction of a room to serve as a seminar room, library and reading room. The library is now located in three different places. The weekly seminars have been held in the living room of the home of the Director, and the space available is not adequate. This room will be constructed either as a separate building or as an addition to the laboratory.

2. Construction of a log building to serve as bachelor quarters for research workers to replace the existing bunkhouse.

We will be constantly attempting to improve the existing facilities to make them more pleasing and more effective in carrying out the various research programs.
SEMINARS

Seminars were held each Thursday evening at 7:30 P.M. in the home of the Director. They were well attended by Research Station personnel, Park Service employees, Forest Service employees, and other biologists who happened to be in the area at the time. The number of biologists attending varied from 25-40. Each seminar was followed by an informal period of discussion and refreshments. Reactions of those attending would indicate that the seminars were highly successful. Following is a list of the seminars presented this summer.

Margaret Altmann - Methodology of Behavior Research in Non-confined Animals.
Norman Negus - Mammalian Ecology in Jackson Hole.
Paul G. Roofe - The Environment of the Neuron.
Glenn A. Noble - Host-Parasite Relationships between Wild Mammals and Their Intestinal Protozoa.
Donald C. Lowrie - Ecology and Distribution of Spiders of Grand Teton Region.
Charles C. Laing - Preliminary Studies on Cirque Basin Ecosystems: The Plant Communities.
Dixie Smith - Interspecific Relationships within Plant Communities.

LIBRARY

The library books and journals are readily available for Station personnel. Some new books have been acquired and all subscriptions to periodicals continued. Current periodicals are placed in the laboratory for examination before being placed in the stacks.

Reprints continue to come in from research workers of previous years. These are made available as needed. A list of the reprints of publications which we have available on research conducted at the Station is included as an appendix to this report. Other papers on research conducted at the Station are now in the process of being published.

Duplicate copies of all reports of research workers are being prepared for use of the personnel at the Station. One copy is kept on file in the Department of Zoology and Physiology at the University.
COOPERATION WITH OTHER AGENCIES AND INDIVIDUALS

The cooperation of the research workers with various state and federal agencies continued on a very satisfactory basis. The cooperation of the Station and Grand Teton National Park personnel was probably more extensive during the past summer than at any previous time. In fact, the Biological Research Station began a project on alpine ecology which was financially supported by the Park Service. The members of the Park Service with whom we had the most intimate relations were Mr. Frank Oberhansley, Superintendent; Mr. Ward Yeager, Assistant Superintendent; Mr. Merlin Potts, Ranger Naturalist; and Mr. Bryan Harry, Assistant Ranger Naturalist. The research personnel at the Station were very appreciative of the fine cooperation of these Park officials as well as that of many other Park personnel, many of whom participated in our weekly seminars.

The Forest Service and the Wyoming Game and Fish Department employees also cooperated with the Station personnel in a very effective manner. I should like to mention specifically Mr. Robert Casebeer, Game Management Specialist with the Forest Service, who demonstrated a keen interest in the activities of the Station and made significant contributions to the research work underway.

The Biological Research Station was asked to participate in the Jackson Hole Cooperative Elk Studies. Representatives of the Research Station and University of Wyoming are Dr. Alan Beetle and Dr. Margaret Altmann. Other personnel from the Station also attended meetings and made contributions to these studies. The Biological Research Station will continue to cooperate in these important studies.

Progress is being made on the development of a new lease with the National Park Service for the continuation of the operation of the Research Station. We expect the details of this lease will be worked out in the very near future. This came about as a result of several very important conferences held during the previous year among representatives of the National Park Service, Grand Teton National Park, University of Wyoming, Biological Research Station, and the New York Zoological Society. The summaries of these meetings are contained in the 1957 Annual Report.

STUDENT CONSERVATION PROGRAM

The Research Station continued and extended its cooperation with the Student Conservation Program during the summer of 1958. In fact, three students from the SCP were assigned to the Station for the entire period of eight weeks to work on research projects under the supervision of investigators at the Station. The students and their individual assignments were as follows.

Alice B. Crawford - assigned to a study of the invertebrates of the area to work with Dr. Donald C. Lowrie.
George M. Happ - assigned to the alpine ecology study to work with Dr. Charles Laing.

Ellen Moyer - assigned to work on the invertebrates of the area with Dr. Donald C. Lowrie.

In addition each of these students was provided the opportunity to become acquainted with all the research projects underway at the Station. Summary reports were prepared by each of these students and are available to anyone interested. These are too extensive to include here. The personnel at the Station felt that these students profited immensely from this opportunity, and the following quotes from the reports of the students indicate that they, likewise, felt that they had gained much from the experience.

"The opportunity to participate in research and to observe the methods used by experienced scientists and to learn by example: and participation was invaluable to me."—Moyer.

"The most values in the summer's experience were for me not the jobs accomplished, things learned, or sights seen, but rather the less tangible gains: A firsthand contact with active research and an increased familiarity with methods and means of attacking a research problem; the privilege of observing minds with divergent orientations approaching some biological problem, as happened in the discussions after the weekly seminars; contact with professors as scientists and as people."—Crawford.

"In conclusion, the program proved highly profitable for me. The opportunities for contacts with the various professors were things which I, as a graduate of a small college, found particularly valuable. Indeed, I feel privileged to have been included in the program as a member of Group I."—Happ.

In fact, all three of these students would like very much to return to the Station during the coming summer.

As during the summer of 1957 the Station personnel presented lectures to the entire group of SCP students. Also, many of the students in addition to the three at the Station attended the weekly seminars. All of the students visited the Station as a group and were given an opportunity to discuss various aspects of the research projects with the principal investigators. On several occasions many of the people at the Station joined with these students in social functions.

The cooperation of Mr. and Mrs. Albert Nelson, who were in charge of the remaining students under the SCP, as well as the cooperation of Elizabeth Cushman and Martha Hayne, who organized and directed the entire program, are appreciated. Plans are underway for the continuation of this program in 1959 on essentially the same basis.
VISITING SCIENTISTS

More than 180 people visited the Station during the summer. The interests of these people varied from those simply curious about the activities of the Station to eminent biologists with special interests in research projects underway. Many of these visitors contributed valuable advice to Station personnel. Because of the location of the Station less than a mile from the Jackson Lake Lodge and some five miles from the Colter Bay tourist area, many scientists who were either vacationing in the area or who were attending conventions at the Lodge took the opportunity to visit the Station. Representatives of various federal and state agencies visited the Station. The following is a list of some of the visitors during the summer.

Dr. Fairfield Osborn, President of the New York Zoological Society.
Wilson J. Walthall, Jr., Psychology Department, University of Wyoming.
Arthur F. Halloran, Wichita Refuge, Cache, Oklahoma.
James Ruos, student Humboldt College, Arcata, California.
Bryan Harry, Assistant Ranger Naturalist, Grand Teton National Park.
Harry Truman, Head Department of Biology, Denison College, Granville, Ohio.
Robert Lang, Agronomy Department, University of Wyoming.
Wes Seamands, County Agent, Laramie.
Margaret Kuster, Biology Department, Valparaiso University, Indiana.
Fern and Albert Nelson, Directors of Student Conservation Program in Grand Teton National Park.
Robert L. Casebeer, Range Conservationist, Forest Service, Teton National Forest.
Adolph Murie, Biologist, Grand Teton National Park.
Farouk Bahan, Baghdad, Iraq, representing government in Park Service study.
John S. Spurbeck, Johns Hopkins University and Mary Rawles Spurbeck, Carnegie Laboratory, Department of Embryology.
Representatives of the National Science Foundation: George Sprugel, Program Director Environmental Biology, NSF; Rogers McVaugh, Botany Department, University of Michigan; Frank Blair, Zoology Department, University of Texas; Lincoln Constance, Botany Department, University of California.
Martin F. Miller, student Los Angeles State College.
William Laycock, Forest Service, Dubois, Idaho.
Dr. Porter, Medical School, University of Utah.
Vern K. Hugie, Soil Conservation Service, Salt Lake City, Utah.
Howard B. Fassey, Soil Conservation Service, Salt Lake City, Utah.
George A. Petrides, Department of Game Management, Michigan State University, accompanied by students.
Charles Seevers, Roosevelt University, Chicago.
Elizabeth S. Cushman, Director of Student Conservation Program.
Harlan Lewis, Botany Department, University of California.
Harland W. Mossman, Anatomy Department, Medical School, University of Wisconsin.
George Happ, Head Biology Department, Principia College.
Harold W. Keely, Psychology Department, University of Denver.
FINANCIAL REPORT
1957-1958

November 1, 1957-June 30, 1958

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*Includes money carried over from previous year.

Rent received in the amount of $605.00 was placed in the General Fund of the University.
The New York Zoological Society contributed $500 toward the Director's salary in the form of an honorarium.
Grants-in-aid in the amount of $1600 were given by the New York Zoological Society.
Grants from the National Science Foundation totaled $2,066.66.
Interregional Research Program supplied $7,500 to the Wyoming Agricultural Experiment Station for sagebrush study.
The Natural Resources Board supplied $2,000 to the Wyoming Agricultural Experiment Station for range studies.