

REPORT ON THE ACTIVITIES
OF THE
JACKSON HOLE RESEARCH STATION
SUMMER 1964

L. Floyd Clarke, Director

PHYSICAL FACILITIES

During the past year the University of Wyoming appropriated \$7356.00 for the construction of a Library-Seminar Building. Plans are underway at the present time for this construction. Also, on September 17, 1964, the New York Zoological Society appropriated \$10,000 to be used for construction of three new cabins and a pole fence to enclose an additional area, which will approximately double the total enclosed area, for expansion of the research area. Other improvements are also included in this appropriation.

These appropriations were very greatly needed for both the improvement and expansion of the Research Station operation. Plans call for the elimination of the present bunkhouse, which is in a state of very poor repair, and the use of one of the buildings moved into the area from Moran for a bunkhouse. The three new cabins will replace this unit as living quarters for research workers. The Library-Seminar building will be used to relieve the congestion in the existing zoology laboratory both by providing library space, which is now in the zoology laboratory, and by providing office space for some of the investigators.

Another major development involved the completion of a 20-year Use Permit agreement with the National Park Service to replace the existing 5-year contract. This new agreement will make possible planning for the future on a permanent basis, which was not possible under the shorter term lease. We certainly appreciate the demonstrated interest of Dr. Fairfield Osborn, President of the New York Zoological Society, Mr. Fred Fagergren, Superintendent of Grand Teton National Park, and other personnel in connection with the development of this research facility.

The Station continues to improve the general laboratory, library, and other facilities. A considerable amount of graveling of roads and Station repair occurred during the past summer. In addition, through the generosity of Grand Teton National Park, a building was moved in from Moose and was repaired and furnished for use by investigators. This was placed in use during the latter part of the summer.

It is indeed a pleasure to be able to report that all of these developments which have been in the planning stage for some time are now in the process of complete realization. Without the complete cooperation of the University of Wyoming, Grand Teton National Park and the New York Zoological Society these improvements would not have been possible.

SEMINARS

Weekly seminars were held at 7:30 P.M. each Thursday at the home of the Director. These seminars proved to be stimulating to the research workers at the Station as well as many interested visitors. The following is a list of the seminars presented during the summer.

Margaret Altmann - Comparative study of ungulate interspecies communication.

Howard E. Evans - Wasps as predators.

Glenn A. Noble - Squirrels under stress.

William C. Edwards - Plant ecology of the Willow Flats.

Ralph W. Dimmick - Population study of Canada geese in Jackson Hole.

William Thurmond - Melanophore stimulating substances in Amphibia.

Gerald Scherba - Social organization among colonies in ants.

C. S. Thornton - Regeneration in Amphibians.

LIBRARY

Periodicals previously subscribed were continued. Current periodicals were made available to the research workers before being filed in the stacks. We continue to receive reprints from research workers of previous years. The total number of titles of published data resulting from work at the Station is now well in excess of 100. Current National Park Service and Forest Service publications and information are made available to investigators. Reports on research projects, Annual Reports and other information related to the Station operation are made available. The September-October, 1964 issue of The Wyoming Alumnews contains a well illustrated article entitled, "Research at the Foot of the Tetons", which covers the summer activities of the Research Station. Also, an article concerning the Research Station appeared in the August 1963 issue of American Zoologist.

Our library facilities will be greatly improved by construction of the Seminar-Library building which will be completed in the summer of 1965.

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.

IMPORTANT VISITS TO STATION

Among the highlights of the summer's activity was a visit from George B. Hartzog, Director of the National Park Service, and other eminent visitors connected with the National Park Service. Dr. Hartzog expressed a keen interest in the operation of the Station and promised full cooperation in plans for its development. Certainly, over the years the interest and cooperation of the National Park Service and Grand Teton National Park personnel have improved and have greatly strengthened the research operation. The research workers at the Station had an opportunity to visit with Mr. Hartzog individually and as a group with respect to their individual research projects and the ways in which these activities could contribute to the objectives of the National Park Service.

We were fortunate again this summer in having a visit from Dr. Fairfield Osborn, President of the New York Zoological Society. He demonstrated, as in the past, the keen interest of the New York Zoological Society in the program of the Research Station. This is evident by the fact that after discussion of our needs for improvement, he was able to obtain the \$10,000 appropriated by the Society for the development of the Station facilities.

Many other eminent visitors came to the Station during the past summer. These included foreign scientists who are interested in observing the operation of an inland research facility as well as many eminent educators from this country. The list of names is too long to include in this report.

COOPERATION WITH OTHER AGENCIES AND INDIVIDUALS

The relationship with Grand Teton National Park continued to improve chiefly through interests of Superintendent Fagergren, Chief Naturalist Willard Dilley, and Park Biologist Glen Cole. Cooperation with the Forest Service continued to be close with Robert Casebeer and his temporary replacement, Mr. Alred.

Mr. Willard Dilley served as a member of the Advisory Board in selection of the research projects. The University cooperated where possible in making recommendations for the employment of Park Service personnel.

The objectives of the Research Station involving cooperation with the National Park Service have been clearly outlined and agreed upon. Reference is made here to a summary of these objectives in the 1963 Annual Report.

Specific cooperative projects with Grand Teton National Park this summer were: (1) An ecological-physiological study of moose by Douglas Houston, and (2) Plant ecological studies in the Park by John Rumely and

Edward Oswald. These projects were supported directly by Grand Teton National Park. In addition a number of other projects of interest to the Park, including waterfowl, range, and elk management studies, were pursued at the Station.

The Station continues to work on cooperative projects with the Wyoming Game and Fish Department. This summer these included, (1) A population study of Canada geese in Jackson Hole by Ralph Dimmick, and (2) Ecology of cutthroat trout by Peter Hayden.

The Wyoming Game and Fish Department and the National Park Service provided the necessary permits to carry out all research projects.

Station personnel were available for consultation services by many State and Federal agencies in the area and elsewhere.

FINANCIAL REPORT
1963-64
November 1, 1963-June 30, 1964

<u>Item</u>	<u>Budgeted</u>	<u>Expended</u>	<u>Carried Over To Next Year's Budget</u>
Part-time Assistants	\$ 200.00	\$ 200.00	\$ ---
Equipment	621.56	543.05	78.51
Supplies	724.13	332.13	392.00
Contractual	2,060.24	1,505.82	554.42
Travel	229.96	74.26	155.70
Fixed Charges	132.00	---	132.00
Extraordinary Expense	52.54	---	52.54
	<u>\$4,020.43</u>	<u>\$2,655.26</u>	<u>\$1,365.17</u>

July 1, 1964-November 20, 1964

<u>Item</u>	<u>Budgeted*</u>	<u>Expended</u>	<u>Unexpended</u>
Research Projects	\$1,034.00	\$1,034.00	\$ ---
Part-time Assistants	1,600.00	1,400.00	200.00
Equipment	778.51	476.25	302.26
Supplies	1,142.00	619.70	522.30
Contractual	1,397.42	710.34	687.08
Travel	410.70	146.27	264.43
Fixed Charges	264.00	36.00	228.00
Extraordinary Expense	127.54	79.05	48.49
	<u>\$6,754.17</u>	<u>\$4,501.61</u>	<u>\$2,252.56</u>

*Includes money carried over from previous year, therefore, does not indicate amounts appropriated for one year.

Rent received in the amount of \$1,019.60 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 \$1800.00 were given by the New York Zoological Society.

Grand Teton National Park grant to Houston (\$1,500) and to Rumely.

National Science Foundation Research Grant (Noble) - \$4,171.20.

Source of financial support of other projects has been indicated at the conclusion of summaries appearing in this Report.

The New York Zoological Society gave \$10,000 for construction of 3 cabins, a pole fence and miscellaneous capital outlay.

The University of Wyoming appropriated \$7,356.00 to construct a Library-Seminar building.

