

STATE Texas

DATE January 1, 1952

### QUARTERLY REPORT

From: October 1, 1951

To: December 31, 1951

Biologist: Howard T. Lee

### PROJECTS AND DUTIES ASSIGNED

1. Water sample analysis and routine laboratory work.
2. Aquarium maintenance.
3. Crab moulting experiment.
4. Live bait shrimp experiment.
5. Museum maintenance and preparation of display material.
6. Photography of specimens.
7. Locating and collecting mollusks of Aransas Bay and Gulf adjacent to St. Joseph Island.
8. Fish cleaning table.

### PROGRESS REPORTS ON THE ABOVE ASSIGNMENTS

1. Periodic water samples have been brought in by the biologists working in the field. Routine analysis (pH, turbidity, and salinity) were run on 337 samples. Reagents were ordered or prepared as needed.
2. Aquarium maintenance has taken an adverage of two hours per week. No innovations.
3. The crab moulting experiment which was originated by F. M. Daugherty, has had little attention for the past two months. To date some sixty-three crabs have been used but results so far have been insignificant.
4. The live bait-shrimp experiment was assigned in August. No work has as yet been attempted due to lack of time.
5. Museum maintenance. One hundred and eighty-five specimens have been cataloged and added to the museum collection. Most of these were shells obtained through trades.

6. To date little has been accomplished in the photography of specimens. Some pictures of crabs have been satisfactory but few of the photographs of shells have come up to the expected standard. At the present time some additional lighting equipment is on order which should aid materially in the furtherance of this work.
7. Ten one-day trips were made to collect mollusks in different areas of Aransas Bay. Included were two trips along the Gulf shore of St. Joseph Island. Localities of the mollusks collected have been plotted on small maps of the area. Of the total number collected, twenty-four have been positively identified to date.
8. The report on the data from the fish cleaning table is incomplete and will be submitted at a later date.

## UTILIZATION OF TIME

Biologist 668 hours	Boat K.T.
Boat Crew 160 hours	Crew: Angelo Flores
Total <u>828</u>	Joe Valdez