

Publish Illustrated Of St. Andrews Biological Station

A history of the Biological Station in St. Andrews, N.B., has come out. Its appearance marks the Station's fiftieth anniversary in 1958. The account tells about the more important researches carried out during the fifty years. It also traces the growth of the Station from its early days with only a small summer staff to its present size. There are now 34 full-time scientists and some 80 full-time technical, clerical and administrative staff, and over a hundred seasonal, vessel, and part-time employees.

NEW INFORMATION
The Station works under the Fisheries Research Board of Canada—formerly the Biological Board. It is directed to investigate practical and economic problems connected with fisheries and with the life in the waters. Investigation implies research. Most attention has, therefore, been given to finding new information about fish and about guiding and developing Canadian fisheries. Some of the results give background information but much can be applied directly. The Biological Station is part of a national institution. As such it sometimes does work to meet the needs of Canada as a whole. For example, the Station has contributed greatly to naval defence needs for knowledge of water conditions and to National requirements for research in the Eastern Arctic.

Especially the Station serves the Maritime Provinces. At present, there is a permanent station at Ellerslie, P.E.I. This sub-station engages two full-time scientists and their supporting staff of technicians and maintenance assistants and works in close co-operation with the Fish Culture Branch's Service in applying research results to oyster culture.

There is a statistical office in Halifax, N.S. Year round branch offices and field headquarters are in five other places: Elgin and Chatham, N.B., and North Sydney, Lunenburg and Yarmouth, N.S. Temporary field stations are set up as needed.

AFLOAT
The station's boats work in all maritime waters from Passamaquoddy Bay to the Bay of Chaleur and beyond. However, the Administrative Headquarters for the work is at the Biological Station in St. Andrews, Charlottetown.

County, where research has been centred for fifty years. During the early days of the Station famous scientists and their students found and described the plants and animals living in the region. They also studied the effects of the different forms of life on each other and how they adapt themselves to different water conditions. The general pattern of ocean currents was also defined.

EARLY WORK
There were some very practical results from the early work. For example: Basic work on handling fish products for market was carried out and demonstrated to the industry. Lobster hatcheries were shown to be ineffective and were closed. The costly crossbreeding of piling in Saint John Harbour for protection against marine borers was shown to be unnecessary. The way was opened for practical oyster culture on private leases.

NEW RESOURCES
Later surveys also led to practical results. When the clam fishery collapsed after its post-war peak, the causes were looked into. As a result a new hydraulic dredge has been developed which promises to help assure clams in steady supply. A survey for herring in the Gulf of St. Lawrence and Nova Scotia opened the way for new fisheries in the southeastern Gulf and expanded fishing in the Yarmouth area.

Scientific facts have been used in arranging for the wise use of fish resources. Workable plans for avoiding sale of poisonous or polluted shellfish have been found. The wastefulness of fishing small lobsters has been shown so clearly by scientific results that well disposed fishermen support regulations against taking them.

A sound scheme to speed up the recovery of disease-ravaged oyster grounds was worked out. Quite good forecasts of yield from the Bay of Fundy scallop grounds are now possible. The usefulness of keeping down saw-bill ducks on salmon rivers to increase the output of smolts seems sure and is now being tested on a large scale.

TROUT WAYS
Ways of bringing rich brook trout stocks of Prince Edward Island within reach of anglers have been found and are being tested. The Station does many

Canada's research duties in the International Commission for the Northwest Atlantic Fisheries. St. Andrews studies helped show that the whole yield from west Atlantic fishing grounds can be increased by using the larger mesh sizes in trawls which are now called for by international agreement.

As lobsters are marketed alive, special holding and shipping methods must be used. Research done at the Station shows the temperatures and other factors which lobsters from different waters can stand. These results are widely used by the industry to keep down handling losses.

MECHANIZATION
In some cases, the Station's knowledge of fish and of fisheries in other countries has led to the introduction of new and more different types of fishing gear to the Maritimes. Not all trials have been successful. However, the Station can claim credit for hastening the mechanization of Maritime fisheries. For example, it helped with the introduction of the longliner, the small dragger, Danish seining and more recently, the Norwegian. Together, these have greatly changed the industry for the better.

The full account of the Station's history can be obtained while the

Christmas Spirit, Tears Conflict In Springhill

By DON HOYT
Canadian Press Staff Writer
SPRINGHILL, N.S. (CP) — Tears form easily now in the eyes of the women of Springhill. Christmas is less than a week away. What Christmas there is will be for the children. The mothers and wives of 75 men brought up dead from the Cumberland No. 2 mine two short months ago can find no joy in the holiday that is traditionally for the family to share.

Mrs. Harold Raper sat in the kitchen of the smart-looking home her husband built with hands hard from 41 years in the coal mines of England and Springhill. "We always went to church on Christmas Eve," she said. "I'll be going to church this year but Christmas? Well, I don't know."

supply lasts by writing to the Board of Canada, Biological Station, St. Andrews, N.B.

She has one, 13, still young enough to enjoy Christmas. Two other children are married. "We always had such an exceptionally fine Christmas. All our kids always joined our group and we had such a good time. "I'm not going to stay here towards the floor. She looked off her glasses. Dark rings circled the eyes which last saw Harold Raper when he left for work the night of Oct. 23.

A few hours after the funeral, Britain's Prince Philip visited Mrs. Raper while on a tour of Springhill. But the consoling visit was only momentary. Now all the sentiment and love associated with Christmas are nearing an emotional crescendo for her and scores of other women in a town visited twice by mine disaster in two years.

"This is going to be a terrible Christmas," Mrs. Raper said. "I just hope that after the holi-

days I'll be able to pull myself together."
LIGHTED CROSS
Mrs. Fidele Allen is Negro. Her husband was white. He rebuilt an old company home overlooking the now-closed Cumberland Railway and Coal Company. In a window facing the pits where men have worked and died for three-quarters of a century a lighted cross bears testimony to tragedy.

"He was a good man," Mrs. Allen said. "He was one in a million. People said our marriage wouldn't last six months but we made out in our own way." Fidele Allen, whose body was the last to be recovered from the collapsed No. 2 colliery, was buried seven days before their 19th wedding anniversary. They had four children.

Christmas to Mrs. Allen will be a horror. "There's nothing left of Christmas now," she said. "We always had such a good Christ-

mas. The children played with us all day and the evenings we had to ourselves. Some women can't talk about a Christmas without their husbands. Mrs. Charlie Burton is one. Her husband was the first man to emerge alive from No. 4 pit after a 1956 explosion killed 39 and trapped 88. She knits and stares at the floor. Her husband died in No. 2 this year.

There will be gifts for the children. Special contributions have been sent by other towns and cities. Welfare organizations are seeing to it that every child from grade one to six gets at least one gift.

Douglas Jewkes is one of 19

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miracle miners saved from No. 2. His brother Bill didn't make it. He had three sons and a daughter. One of Bill's boys is Jackie, three. He still looks to Santa Claus for a gift no one can give him. "You come back, Uncle Doug. When's my Daddy coming from the bump?"
This is a town in mourning. The few decorations in town stores testify to that. A huge Christmas tree covered with colored lights stands like a lonely sentinel on the main street within sight of the mine. You hear no whistling of Christmas carols. Only a few women wear Christmas pins on their usually - black coats.

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