



**WINTER ICE** having cleared most of the Gulf of St. Lawrence the four trawlers, ABOVE, operating for Gulf Garden Foods Limited returned earlier this month to their home base of Georgetown. On their arrival the quartet landed

## Plant operations continue expand

GEORGETOWN — With the return of their fishing fleet of four trawlers from Shelburne, N.S., where they operated for approximately two months during the past winter. With the installing completed on new fish processing lines, Gulf Garden Foods Ltd., at Georgetown is providing employment for approximately 180 workers in the fishing industry as well as 32 seamen on its trawler fleet.

During the summer the Company's fleet will be increased to seven trawlers and over the next three years to a total of 16. When the fleet reaches its maximum size the number of seamen employed in addition to their fleet personnel, between 400 and 500 workers in its processing operations.

Processing of fish and vegetables and the installing of canning facilities will assure a 12 month operation at maximum capacity. During the last winter, the method adopted of having its trawlers fish out of a Nova Scotia port and of transporting the fish by truck to Georgetown assured a considerable amount of winter employment and maintained production.

This arrangement was only possible because Gulf Garden



**GLEN CAMPBELL, NORTH RIVER, TAKES LOBSTER FROM TRAP**

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a haul of over one-quarter of a million pounds of assorted fish for processing in the plant. During the winter months they had operated out of Shelburne, N.S., with their hauls being trucked to the parent plant.

canned and frozen in blocks and are also packaged for individual and commercial consumers. **OTHER PRODUCTS** Vegetable and other agricultural products will be processed, such as french fried potatoes, spinach, brussels sprouts, broccoli and other varieties. It is also the intention of the plant management to package complete frozen dinners. Stock piling of a variety of agricultural products and fish will allow for year round production. Plans call for the installation of a fish meal manufacturing plant, which will be located in the near-by Service Building and which is expected to commence operations this year. The plant's production capacity of processed fish will be 600,000 pounds annually. This figure will be reached when the maximum number of 16 steel trawlers will have been constructed and are in operation. An all important aspect of the whole project was that Findus of Switzerland supervised the construction to the extent that the plant was completed according to Findus specifications. This means that the plant was constructed by the most knowledgeable people in the food industry in the world. Findus representatives have visited Georgetown and have set up cost accounting system for the industry and the whole complex has been under the supervision of the best brains in the food processing and marketing fields in the world.

## Bulletproof cage shields accused

By JOHN CHADWICK CHESTER, England (Reuters)—A bulletproof glass cage shielded two lovers who went on trial today charged with the decade's most horrifying murders in Britain—the grisly Pennington Moor child killings. Police ordered the glass protection as an extraordinary courtroom safeguard for the accused, 27-year-old clerk Ian Brady and his 29-year-old blonde mistress, Myra Hindley, a secretary.

Their trial was expected to be Britain's most sensational murder hearing in years, attracting 150 newspaper men from all over the world, five crime authors planning to turn the legal battle into books, and the country's top lawyers for prosecution and defence. Large squads of police guarded the grim, Victorian-built Chester Castle courtroom in this ancient walled city for the couple's trial. Brady, a slim, dapper man is accused of murdering two school children and a teenager. Police, in a macabre search over lonely moorland last year, unearthed the decomposed bodies of the two children, Lesley Ann Downey, 10, and John Kilbride, 12. They were buried in shallow peat graves a few miles from Brady's home in Hyde, North England. Police allege they found the third victim, 17-year-old Edward Evans, trussed up and stuffed under a bed in Brady's home. Brady's mistress is accused jointly of the murders of Evans and the schoolgirl and of harboring her lover, knowing that he killed the Kilbride boy. The couple, who have denied the charges, will stand behind the thick, splinter-proof glass screen, erected after emotional scenes among courtroom crowds at a preliminary hearing. An axe will be a major prosecution exhibit. At the lower-court hearing, Brady's 18-year-old brother-in-law, David Smith, said in evidence for the prosecution he watched in horror as Brady attacked Evans with an axe in the lounge of the lovers' suburban home. Smith said Brady then strangled the youth. Tape recordings of the victims' voices, alleged to have been made by Brady and Miss Hindley, were expected to be heard in the trial. Britain's chief official lawyer, Attorney-General Sir Elwyn Jones leads the prosecution team.

## Increased Seaway tolls are proposed

By BEN WARD OTTAWA (CP) — Increased tolls on the St. Lawrence Seaway and a new lockage charge at the Welland Canal were proposed Monday in joint announcements by the Canadian and United States seaway agencies. The plan, to be debated at public hearings starting here next month, calls for a 10-per-cent toll increase on bulk cargo which makes up almost 90 per cent of seaway traffic. It would jump the rate to 44 cents a ton from 40, applicable to such key items as iron ore, grain, coal and other commodities. Folks for general cargo, mainly packaged manufactured goods, would rise to \$1 a ton from 90 cents. For the ships themselves the charge would go to 4 1/2 cents per gross registered ton in place of the present four-cent rate, a boost of 12 1/2 per cent. Biggest surprise, however, was the proposal for a lockage charge at the Welland Canal starting at \$20 a lock and increasing by \$20 a year to reach \$100 a lock in 1971. The eight-lock canal, linking Lake Ontario and Lake Erie, now is a free waterway. If approved by the Canadian and U.S. governments following the public hearings, all charges would take effect in the 1967 shipping season and remain for five years. **PLANS HEARINGS** The St. Lawrence Seaway Authority, which operates the Canadian side of the system, will open its hearings in Ottawa May 25. Its American counterpart, the Saint Lawrence Seaway Development Corp., plans to start hearings at Chicago June 1. Shipping interests have already indicated that they will fight strenuously against any increase in tolls. Main Canadian criticism is expected to be against the proposal for charges on the Welland Canal, from which tolls were removed in 1962.

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## Change southern Gulf cod fishery

For more than a century cod have been fished in open water months, in the southern Gulf of St. Lawrence. Baited hooks and jiggers were used almost entirely until the introduction of otter trawling in 1947 produced a major change. New European fishing on the same stocks in winter brought about further changes. These developments in fishing practices were reflected in important effects on sizes and amounts of cod landed from the Gulf since 1947.

**MIGRATORY STOCK** Tagging experiments have shown that southern Gulf cod migrate during the year but the annual pattern of movement is fairly constant. During the summer they move out over the western half of the southern Gulf. Late fall finds the larger fish disappearing from this area and moving towards Cape Breton. During the winter these larger fish are concentrated in the Cape Breton area along the Laurentian Channel and in the spring they disperse to the west again. Fishing fleets take advantage of these winter and summer concentrations. In the summer the fishery in the south-western Gulf is wholly Canadian but, in the winter, the take from the stock concentrated off Cape Breton is mainly European (Fig. 1).

**CHANGES IN LANDINGS** Until 1952 landings fluctuated from about 60 to 120 million pounds per year. When the Europeans started otter trawling on this stock, landings quickly jumped to peaks of about 220 million pounds in 1956 and 1959. Since then, landings seem to be levelling off around 150 million pounds annually. European vessels are still taking about a third of this. As fishing practices changed and as annual landings increased, the sizes of cod landed decreased. Difference between 1949 and 1963 can be seen in the figure. The information is shown in terms of an average landing for a week's fishing by a northern New Brunswick Gloucester-class dragger (about 45 gross tons). In 1949 a greater weight of cod was landed per week (34,700 lb.). The graph shows them to be bigger fish and relatively few of them were needed to make up the landing weight. In 1963 the down-to-21,265-pounds. This was made up of more individual fish (8,787, by count, compared with 6,820) and they averaged much smaller in weight and length.

The decrease in size of cod landed reflects two things: (1) Fish over 28 inches in length are scarce in the Gulf. (2) Processing plants can use fish around 16 inches long and a little over a pound in weight. This has affected Gulf cod fishermen. They used to discard many small cod. Now they throw away very few of the cod that they catch with the 4 1/2-inch codend mesh. Also fishermen usually expend more effort to catch a paying trip of cod. Evidence of this is shown in statistics for Gloucester-class draggers kept over the past 15 years. In 1946 their average cod catch per week was almost 40,000 pounds. Since then this has dropped and in recent years it has fluctuated around 20,000 pounds. Since 1950, other species, such as flounders, have been making up a quarter to a third of the catch of these boats.

**THE FUTURE** In forecasting the future of the fishery several factors are taken into account. Water temperature and circulation affect the number of young cod hatched in an annual brood, and also affect the availability of adult fish to the fishermen. Growth of the adult fish is affected by food supply as well as by water temperature. Death rates from fishing and natural causes after the fish have entered the fishery determine the number of fish surviving to grow large. Field and laboratory studies by the Fisheries Research Board provide the basis for predicting the course of the fishery from year to year.

It looks as though the Gulf of St. Lawrence fishery will remain a small-cod fishery as long as the amount of fishing remains at the present high level. Fluctuations in catch will reflect changes in sizes of broods of surviving young cod entering the fishery and in the concentration of fish schools in the



**PUBLISH STUDY** An unprecedented book on sexual physiology written by Mrs. Virginia Johnson, a psychologist, and Dr. William H. Masters, a gynecologist, was published recently. The book, "Human Sexual Response", is based on 11 years of research by the two scholars at Washington University here. (AP Wirephoto)

summer. The late summer survey in 1964 showed a large brood on the grounds. These fish should influence landings from the summer fishery during the next two years. Increased landings by fishermen will depend on fishing the population on its winter as well as its summer grounds.

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