

Surveys of budworm larvae are conducted for several weeks before, as well as during, the spray operation, which lasts about three weeks in June. Extensive surveys of budworm eggs in August provide the best possible estimate of budworm populations for the following year. Personnel of the Fred-erickton laboratory, including university students in seasonal employment, and Forest Protection Limited employees are engaged in this work.

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### GRANTS TO MUSIC

The Canada Council recently announced grants totalling \$165,000 for the encouragement of music. The awards went to the Ottawa Philhamonic Orches-tra (\$10,000), the Halifax Symphony (\$8,000), the Canadian Opera Company, Toronto (\$71,000), Les Jeunesses musicales du Canada, Montreal (\$43,000), the Hart House Orchestra, Toronto (\$10,500), and the Federation of Canadian Music Festivals, Win-nipeg (\$6,000).

A more economical use of this country's musical resources is being encouraged by the Canada Coun-cil. Grants to two symphony orchestras illustrate this policy.

### MONTREAL-OTTAWA PROJECT

A unique co-operative musical project being un-der-taken by Montreal and Ottawa will provide new audiences this year for one of this country's lead-ing orchestras. A full series of concerts will be presented in the capital by the Montreal Symphony under its permanent conductor Zubin Mehta and two guest conductors of international repute. The series is being sponsored by the Board of Directors of the Ottawa Philhamonic Orchestra with the help of a grant of \$10,000 from the Canada Council. The Ottawa orchestra was disbanded in 1959.

The Halifax Symphony Orchestra will travel to Newfoundland with the help of a grant of up to \$8,000 from the Council. It will give some 12 concerts in St. John's, Corner Brook, Grand Falls, Argentinia and Gander.

### AID TO OPERA

Operatic performances will be seen in many parts of Canada this year as a result of Canada Council assistance to the Canadian Opera Company. A grant of \$71,000 will enable the Toronto organization to give about 50 performances in Eastern Ontario, New Brunswick, Nova Scotia, Prince Edward Island and Newfoundland, to tour Western Canada, and to present a three-week season in the O'Keefe Centre in Toronto. Several intemationally-prominent Cana-dian soloists, including Jon Vickers and Teresa Stratas, will return to take part in the company's Toronto season, which will feature "Madame Butter-fly," "Rigoletto," "Hansel and Gretel," and "Die Walkure." Operas to be taken on tour are "La Bo-hème" in the West and Mozart's "Cosi fan Tutte" in the East.

The second annual National Music Competition sponsored by Les Jeunesses musicales du Canada will be assisted again this year by the Canada Coun-cil. A grant of \$43,000 has been approved to enable

the organization to underwrite the costs of bringing adjudicators to Mount Orford for the competition this summer and to assist it with its concert circuits for young people. About 20 artists or small groups will be sent on seven circuits to centres in many parts of Canada.

A grant of \$10,500 will enable the Hart House Orchestra of Toronto to give some 17 concerts in Newfoundland, Nova Scotia, Prince Edward Island, New Brunswick and Eastern Ontario this autumn. This well-known 14-piece string orchestra will be under the direction of its permanent conductor Dr. Boyd Neel.

Assistance to music at the local level will be provided by the Council through a grant of \$6,000 to the Federation of Canadian Music Festivals. The award will be used to help pay expenses of the an-nual conference of the Federation and to aid work-shops and development work.

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### PLANS FOR P.E.I. CAUSEWAY

The Minister of Fisheries, Mr. J. Angus MacLean, and the Minister of Public Works, Mr. David J. Walker, have jointly announced that consulting engineers have been appointed to assist the Department in the planning and construction of the most economical type of crossing for the Northumberland Strait be-tween New Brunswick and Prince Edward Island.

The appointment involves three firms of con-sulting engineers, which will form a joint venture to carry out the work. All of them have a broad engineer-ing knowledge and experience, and all have offices operating in the Maritimes.

### ENGINEERING STUDIES

The Government's decision to build the North-umberland Strait crossing was announced earlier on the basis of engineering investigations carried out previously by the Department of Public Works. It is expected that some additional engineering studies associated with the preparation of plans and speci-fications will be required on the part of the consul-tants. However, the plans are expected to be com-pleted in time for construction to start in two years.

The Northumberland Strait crossing will replace the existing ferry service. The cost has been es-timated at \$105 million, which compares favourably with the cost of the ferry service on both a capital-ized-cost basis and an annual-cost basis. It is es-timated that, from 1913 to the present, the Federal Government has invested more than \$20 million in ferry vessels and terminal facilities and, from 1933 to 1960 inclusive, it assumed responsibility for oper-ating deficits for the service totalling more than \$30 million. The deficit in 1960 amounted to \$2,621,000 for operations alone.

It is expected that, following the completion of plans and specifications in two years' time, a further six or seven years will be needed to carry out the work.