

More money needed to research alternate controls

construction of several large pulp mills, by the turn of the century, large areas of forest is clear cut.

Although there are occasional large forest fires nothing in nature approximates this wholesale rape of the land. At any rate, the forests begin to regenerate. Although the process is very complex, the essence here is that in a young forest the fastest growing trees dominate at first. When the term 'fastest' is used here, it means 20 - 50 years. The fastest growing trees are the ones the budworm likes best.

So here we are, New Brunswick 1977 with large stretches of young forests resulting from poor management processes. The upshot of this is that we must spray.

Since the forests provide the basis for the New Brunswick

economy, the situation we find ourselves in is akin to being in a corner that you have painted yourself into.

The real question that the population should force the government to address is a twofold one.

Firstly, forest management should take into account more than just profit. Secondly what should we spray with? As usual greed wins out, and instead of spending money to research the problem, the government took a very short-sighted view of things and decided to spray with chemicals.

Chemicals are cheap. They work after a fashion, but are a stop gap not a solution, but they kill birds, mammals and maybe even the sprayer, man.

There are lots of other ways to

control insect infestations, and it is now for the Canadian research machine to be given enough money to bring these methods to commercial use.

There is no reason why we cannot spray with a bacteria, or virus specific to the budworm other than it costs more. These methods work better because they are just helping nature out with one of her own methods of regulation.

These methods are not just pipe dreams. Ontario has been spraying with a bacteria to control budworm on a forest level for several years.

Certain insects which attack cotton in the USA have been successfully controlled with a virus.

The province of New Brunswick continues to poison its forests,

because it is cheaper to do so than good forest management and biological controls.

As an ultimate form of control, research on sex pheromones of the spruce budworm has indicated that interfering with mating may be the best way to a final end to the problem.

In a release from Environmental Canada, Dr. C.J. Sanders, who

works for the Forestry Centre in Sault Ste. Marie says " . . . budworm sex attractant . . . may prove to be one of a number of useful tools which used together may result in the long-term regulation of budworm populations." He stresses that research is required so that premature field trials which fail do not stop the investigations.

Library offers assistance to students with problems

Students beginning new half-term courses in January or having difficulty with assignments are invited to come to the Reference Dept., Harriet Irving Library, for some guidance in using the library effectively. The best times to come are Monday-Friday 8:30-5:00 and evenings Monday-Thursday 6:30-9:30.

Slide/tape programs on a variety of topics are available for use by individuals or small groups. Different programs explain the use of the card catalogue, Psychological Abstracts, Socio-

logical Abstracts, book-review sources, and the library as a whole.

Psychology students should see the slide/tape on Psychological Abstracts which will be shown at hourly intervals 9:30-4:30, Tuesday, January 11 and Wednesday, January 12. Ask for directions at the Information Desk of the Library.

Faculty members may request library instruction for classes by calling the Reference Dept. (local 4742).

Scholarships awarded to 560

A December report by the University of New Brunswick announced expenditures of \$249,310 in under-graduate scholarships for the 1976-77 academic year.

The undergraduate scholarship committee's annual report to the university Senate showed that approximately 560 students, 200 entering freshmen and 360 other students, received scholarships and bursaries this year.

The report also indicated that while overall scholarship support dipped slightly this year from

1975-76 levels, the per capita support for students on the Saint John campus increased over last year. UNBSJ averaged 17 percent more per student this year than last in entrance scholarships, and 26 percent more in other undergraduate scholarships.

Thirty percent, or \$75,000, of the scholarship funds were allocated by the UNB Board of Governors. The remainder is supplied by alumni, faculty and donors, both private and commercial.

Nineteen scholarships given

Nineteen New Brunswick students received Scoudouc River Continuing Education Awards, Canada's first scholarships for part time students.

The awards, in amounts from \$150 to \$300, total \$3,800. They are funded by a bequest from the late William L. Webster of Shediac and are administered by the University of New Brunswick.

Award winners attending UNB (Fredericton) include five Freder-

icton residents - Brian Kinney, Elaine L. Campbell, Bonita Delaney, Katherine Higginson, and Murray W. Lambert, Suzane L. Burnham of Florenceville, Theresa E. Chessie of Harvey Station, and Mavis Donovan of Centreville.

One UNB (St. John) student, Clarise Cyr of St. John, won an award. Two Fredericton residents received awards to attend Saint Thomas University - Gaetane Vautour and Carole J. Watson.

Crossword answers

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Industrial ed students meet

The Industrial Education Club will meet Tuesday, January 11, at 8:00 p.m. in the education lounge, Marshall d'Avray Hall. A slate of officers will be elected at the meeting, and further action upon the steering committee's report will be discussed. A film is

scheduled and refreshments will be served.

The club, in association with the Home Economics Club, looks forward to many activities this term. All industrial arts and vocational education students are invited to attend.

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