

Scientists Redouble Efforts In Fighting Spruce Budworm

By ALAN DONNELLY
Canadian Press Staff Writer
OTTAWA (CP) — The greatest menace to Canada's forests, next to fire, is a brown caterpillar with a voracious appetite.

It is the spruce budworm, currently ravaging rich forests in half a dozen areas across the country. Its plunders each summer cover such huge areas—12,000,000 acres in northern New Brunswick and Quebec's Gaspé alone—that there is little chance of quelling its present epidemics.

But federal scientists hope that future outbreaks may be nipped in the bud. And for the more distant future, the hope is that forests can be so managed that the budworm will be unable to spread, as it now does, like wildfire through merchantable timber.

BALSAM CHIEF VICTIM
The spruce budworm is misnamed. Its chief victim is balsam fir. Last stands of mature balsam can be killed under five or six years of attack. Spruce trees, also favored by budworms, are crippled and retarded but usually survive.

Spruce and balsam, making up about half of Canada's merchantable forest trees, are the basis of eastern Canada's pulp and paper industry. And Canada produces 60 per cent of the world's pulp and 90 per cent of its newsprint.

One scientist has estimated that between 1909 and 1947 budworms destroyed some 250,000,000 cords, enough for a pile around the earth's equator 60 feet wide and four feet high. One tenth of that total was estimated destroyed in a single New Brunswick outbreak in 1914-1919.

Federal officials say budworms now are a key problem in New Brunswick and Gaspé, Cape Breton Island, Quebec's Lake St. John area and a vast stretch of northwest Ontario and two districts in British Columbia near Prince George and Harrison Lake. Another outbreak developed recently in the Northwest Territories.

FUTURE CONTROL
Hopes of combating future outbreaks are based mainly on three factors.
Entomologists can now predict severe outbreaks some five years in advance. Annual aerial surveys are made to spot the birth of new infestations. Finally, four years of experience in New Brunswick have perfected techniques of aerial DDT spraying—a knockout blow to

parasitic insects and insect diseases, often imported for the purpose, as well as improvements in forest management practices which leave the forests less open to infestation.

Intentional use of parasites and diseases—termed biological control—had its biggest success in controlling the European spruce sawfly. In the 1930s that insect killed much of the merchantable spruce stands throughout eastern North America.

Several types of parasites were imported but before these could become effective a virus disease appeared and wiped out the sawfly outbreak in two or three years. Scientists are almost positive the virus entered Canada with the parasites. Both have since combined to keep the sawfly in close check.

An imported virus also was used to control European pine sawfly, which a few years ago caused heavy damage to Scotch pine plantations in southern Ontario.

Now entomologists are seeking a similar control for larch sawfly. Before 1910 it had killed nearly all the mature larch east of the Rocky mountains. A parasite brought it under control, but by a biological quirk the parasite no longer works as effectively.

A regular check is made on pests by the annual forest insect survey. It provides an accounting of what insects are where and in what control. Specimens sent to laboratories across Canada are examined for diseases or parasites—signs of natural control which might be given impetus by scientists.

Federal officials say pulp and paper companies are showing more interest in budworm control measures. A growing number are going on a sustained yield basis—planned cropping of their forest limits with future yield in mind.

This fact raises another hope for future control of the spruce budworm.
Dr. Prebble describes it this way:
As more logging roads are built, forest operations can be freed from reliance on logging rivers, spreading the harvest over a wider area. Then forests could be cut in a patchwork pattern, eventually producing a variety of age groups among trees.

Thus the risk of an outbreak due to extensive stands of balsam maturing at the same time would no longer exist.

EASILY SPOTTED
Dr. Prebble said the centres, perhaps 10,000 acres or more, are small enough to be sprayed, though to be safe the treatment likely would have to extend over five times the area. The focal points could be spotted fairly easily from the air.

DDT spraying isn't the only enemy of insect pests. There are

ATTACK FORESEEN
By 1946, entomologists were predicting a severe budworm attack would hit northern New Brunswick in 1951.

It came on schedule. DDT spraying was begun in 1952 over 200,000 acres in the Upsalquitch watershed. Since then spraying has been extended by Forest Protection Limited, a company set up by pulp and paper firms with aid from the New Brunswick and federal governments.

Last year 1,000,000 acres in New Brunswick and a similar area in Gaspé were sprayed. This year a substantial increase in area is planned for New Brunswick.

But last year's 2,000,000 acres sprayed in that area are only a fraction of the outbreak which covers some 12,000,000 acres.
"That is beyond any possibility of spraying in one year," Dr. Prebble said.

Referring to control of future outbreaks, he said they have a common pattern, starting in a focal area and spreading outward in concentric annual bands. Some entomologists believed, though it had not yet been proved, that continuation of an epidemic depended on existence of the focal area.

Couple Honored On Anniversary

The home of Mr. and Mrs. Elmer Bernard, Kensington, was the scene of a happy occasion on January 19, when a large number of relatives and friends joined them in celebrating their Silver Wedding Anniversary. Rev. E.H. Bean capably filled the role of Master of Ceremonies for the presentation of a number of gifts. A combination smoking stand and lamp from the family was presented by their son, Jackie while Beverley, Stephen and Cindy Bernard presented their grandparents with a wedding cake.

The absence, due in part to weather conditions, of their daughter, Eleanor, student nurse in the P.E. Island Hospital, was regretted by Mr. and Mrs. Bernard and their guests.

The neighbors and friends of the celebrants chose silver dollars as their gift, and these, almost filling a silver tureen, were presented by Miss Mae Walker. The accompanying address was read by Mr. Fred Semple. Mrs. Roy MacArthur presented a silver cheese and cracker dish on behalf of the Ladies Aid of the Presbyterian Church.

Mr. Norman MacDonald, Summerside added his congratulations and good wishes, and Mrs. Horace Paynter read an appropriate poem instrumental numbers by Mr. James Bearlto and Mrs. Kenneth Pidgeon were also enjoyed. Cards, refreshments and social intercourse rounded out a happy evening.

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AERIAL HAZARD
THETFORD, England (CP) — Too many swans are causing power breakdowns by flying into overhead cables around this Norfolk town, said electricity officials.

Messrs. Gerome Gallant, Joseph E. Gallant, Gerald Aucoin and Cyrus Gallant attended the Lacognais and Ste. Jeanne D'Arc.

Miss Louise Bernard has returned to her employment in Summerside after spending a few weeks visiting her sisters and other relatives in Toronto, Ont.

Miss Marguerite Bernard, student in Summerside High School, spent the weekend with her parents, Mr. and Mrs. Emile Bernard.

Congratulations are being extended to Mr. and Mrs. Ebba Praught of Richmond who recently celebrated their Golden Wedding Anniversary. BM

ATTRACTIVE SIGNS
CANTERBURY, England (CP) — Souvenir hunters stole 18 "To Monte Carlo" signs in Kent. The signs were put up for the recent international automobile road race to Monte Carlo.

Members of Lacordaire Anti-Alcoholic Society held their annual meeting in the school recently. A good crowd attended with Rev. Richard. An interesting and instructive reading was given by Mr. Francis Blanchard. Mr. Sylvère Arsenault was elected president for the coming year and Mr. Felix Gallant as vice-president and Miss Gemma Arsenault, secretary. Following the meeting lunch was served.

Men's Study Club of St. Philip met on Jan. 23 at the home of Mr. Emile Bernard with an attendance of 14 members. President Edmond Bernard tendered a welcome to visitors from St. Chrysostom and Egmont Bay. Discussion of forming a youth club took place. Following committee was appointed for this year: Cyrus J. Gallant, Tanion Landry, Napoleon Bernard and Stanley A. Arsenault.

Rev. Charles Gallant of Little Pond was a recent visitor in Egmont Bay.

Mrs. Peter Gallant is home after visiting her sister, Mrs. Dams Arsenault in Moncton, N. B., who is ill and also Mr. Arsenault.

Mr. and Mrs. Felix DesRoches and family, Summerside, recently visited Mr. DesRoches' parents, Mr. and Mrs. Fidele DesRoches, Egmont Bay.

Misses Leona and Clara Cormier visited their parents, Mr. and Mrs. Joseph Cormier.

Gdms. Martin Maddix, Forrest, Ontario, is spending a month's leave with his parents, Mr. and Mrs. William Maddix, St. Gilberta.

Mr. and Mrs. Alyre J. L. Arsenault recently motored to Charlottetown to visit relatives, Mrs. Arsenault's brother, Joseph Wedge, accompanied them on return.

Mr. and Mrs. Ephrem Caisie are now residing in St. Philip.

Mr. Ben Arsenault, St. Philip, is undergoing treatment in P. C. Hospital.

Miss Yvonne Cormier, student at Marian Academy visited her parents, Mr. and Mrs. Glorice Cormier, recently.

A card party was held recently at the home of Mr. and Mrs. Gerome Gallant in aid of the school.

BURLINGTON

The first of a series of card parties was held in Long River Hall on January 28. Six tables were in play and the following were prize winners: Ladies, Mrs. Donald Campbell; consolation, Douglas Paynter; Men, Bruce Bell; consolation, Eustace Paynter. On January 25, eight tables were in play, when the winners were: Hillard Thompson and Douglas Paynter. George Douglast scored the highest total for men with the consolation prize going to Alvin Bernard.

Mrs. Borden Campbell, accompanied by her daughter, Julie and son Gary, returned on January 23 to her home in Burlington, after spending the past week with her sister, Mrs. Arthur Bell and Mr. Bell at Moncton.

Mr. Roy Stewart, recently of Uranium City, Sask., is visiting his mother, Mrs. J. W. Stewart and family, Norboro.

Mr. and Mrs. Thomas Wigmore, Kensington, celebrated their 49th wedding anniversary, and Mr. and Mrs. Ernest Pickering, 36 years of married life with a family supper at Kensington on January 28.

The many friends of Mr. and Mrs. Leighton Coulson, Sea View, will be glad to know that their infant daughter Joy is now making a good recovery from her recent illness caused by a severe throat infection. Mrs. Coulson and Joy have been in Kensington, where the baby was under the doctor's care, guests of Mrs. Coulson's parents, Mr. and Mrs. Redley Paynter.

Miss Shirley Collicutt, Summerside, spent the past weekend at the home of her parents, Mr. and Mrs. Edmond Collicutt, Cape Wolfe.

Two very successful card parties were held recently in aid of Cape Wolfe 4-H sewing club at the home of Mr. and Mrs. Carl O'Holleran and Mr. and Mrs. Alvin Costain. Dancing was also enjoyed. Music was furnished by Lot 7 Orchestra. Lunch was served, a substantial sum was realized.

Mr. Frank Stevens recently arrived from Montreal to spend some time with his wife and family at their home in Campbellton.

Beverly and Leigh Howard, who are attending school in Charlotte-town spent the past weekend at the home of their parents, Mr. and Mrs. Bennett Howard, Glengarry.

Friends and class mates of Joan Dalton, Burton are sorry to learn she is confined to her home with measles and hope to see her

back to school in the near future.

The first Protestant missionaries landed in India from Denmark 250 years ago.

Sydney, Australia (AP) — The strike of 37,000 waterside workers which has frozen most of Australia's overseas and coastal shipping entered its third week Monday amid hopes that right wing union pressure will soon bring it to an end. About 200 ships are held up in Australian ports. The strike is to press dockers' wage claims.

BURTON

Members of Cape Wolfe 4-H calf club met at the home of Allan Cooke, Burton, on Jan. 13 to reorganize and elect officers for the coming year. The following officers were appointed: President, Vance Griffin; Vice Pres., Adèle Shaw; Secretary, Elaine Miller; Treasurer, Wayne Locke; Mr. Clem O'Connor was re-appointed as club leader, Raeford Locke, Peter Burger, and James MacMillians were re-appointed as directors.

Mr. and Mrs. Lloyd Cooke, Cape Wolfe, had as their guests recently, their son-in-law and daughter, Mr. and Mrs. Roland Pick-

ering and family of Borden.

Mr. W. J. Profit, Long River, left on January 28 for Boston, Mass., where she will receive medical treatment.

Mr. Lloyd Profit, Long River, A. Y. P. A. Provincial president, was a visitor to Halifax over the January 28 weekend, attending A. Y. P. A. meetings.

Mrs. Keith Adams, Burlington, returned to her home on January 27, after spending the past few days in Summerside, guest of her son-in-law and daughter, Mr. and Mrs. Layton Profit, Russell Street.

A very successful pantry sale was held by the Presbyterian Ladies Aid in the Church Hall at Kensington on January 28.

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NEW, DIFFERENT, DELICIOUS DESSERT!

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THE HOT PUDDING MIX THAT MAKES ITS OWN SAUCE WHILE BAKING!

Now at your grocer's 3 FABULOUS FLAVOURS

- LEMON**
Mouthful, tangy mouthful, the tangy freshness of Monarch's natural lemon flavour will tickle your palate as never before. Zestful—with just the right amount of sweetness—that's Monarch's fabulous Lemon Sponge Pudding!
- CHOCOLATE**
Monarch's Chocolate Sponge Pudding is rich, dark and satisfying, with a fabulous flavour that's full of the subtle richness and delectable smoothness of Dutch Chocolate. Serve it once and your family will welcome it again and again.
- CARAMEL**
This is no ordinary flavour. Here's smooth, creamy-rich caramel flavour with a buttery goodness that's truly fabulous... sure to be a favourite with the children. Get them Monarch Caramel Sponge Pudding.

6 GENEROUS SERVINGS at less than 4¢ A SERVING



Mixed in one minute! Add only water! Use only one dish!

You empty the batter mix into a baking dish, add water, and mix for a few seconds. Then you sprinkle the contents of a second envelope over the batter, and pour in more water. That's all there is to it! Ready for the oven in a minute—and you bake it (for just 25 minutes) and serve it from the same bowl you mix it in!

Magical self-saucing action creates fabulous flavour!

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Try this new dessert magic, today!

Monarch self-saucing SPONGE PUDDINGS

The famous family of fine Monarch Mixes: CAKE MIX • TEA BISK • SPONGE PUDDINGS • PIE CRUST MIX

WELLINGTON

Mrs. Louise Gamble who has been visiting relatives in Moncton, N. B., for several weeks has returned to her home in Summerside. Mrs. Gamble is a former resident of Southwest.

Mrs. Ernest Gamble and daughter, Carol, are spending some time visiting relatives in Summerside.

Mr. and Mrs. Dan MacLeod of Victoria West are spending the winter in Halifax, N. S.

Miss Irma Gallant, daughter of Mr. and Mrs. Andrew Gallant, Abram's Village, is a patient in P. C. Hospital.

Mr. and Mrs. James Gallant, Egmont Bay, are being welcomed to the district. They occupy the house formerly occupied by Mr. and Mrs. Thomas Gallant who now live in Shediac, N. B.

Messrs. Leo and Albert Arsenault and Aldrus Gallant have returned from Havelock, N. B., due to weather conditions work had to be postponed in the lumber woods.

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PHILLIPS' MILK OF MAGNESIA LAXATIVE

SO GENTLE FOR CHILDREN SO THOROUGH FOR GROWN-UPS

YOU MAY HAVE AND NOT KNOW IT!

Fighting nose-picking and a tormenting itch are often tell-tale signs of Pin-Worms... tiny parasites that medical experts say infect one out of every three persons examined. Entire families may be victims and not know it. To get rid of Pin-Worms, these little pests must not only be killed, but killed in the large intestine where they live and multiply. That's why the only what Jayne's P-W tablets do... and here's how they do it: First—a scientific coating carries the tablets into the bowels before they dissolve. Then—Jayne's modern, medically-approved ingredients see right to work—killing Pin-Worms quickly and easily. Don't take chances with this dangerous, highly contagious condition. At the first sign of Pin-Worms, ask your druggist for Jayne's P-W Tablets... the small, easy-to-take tablets perfected by famous Dr. D. Jayne & Son, specialists in worm remedies for over 100 years.

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Bringing Up Baby.

WINE COLLECTED BY Mrs. Ben Under MOTHER OF 8

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Crib cue. Why not knot a bright-colored scarf or a broad slash of scarlet ribbon to the foot of baby's crib? You'll be surprised how much he will enjoy this festive touch.

Nutritious "Sweets" for Little Sweethearts—Gerber's Sweet Potatoes—specially selected for their Vitamin A value... Specially prepared for mild, appealing flavor. Smooth-as-smooth texture in the Strained, or diced, just right in the Junior for tots learning to chew. Brimming with goodness... typical of the quality you find in every single one of Gerber's Baby Foods.

Bright idea from our mother's suggestion box: cover bedroom, hall and kitchen light switches with luminous paint. Saves many a fumble at 2 o'clock feedings.

Stain-less story. Oil stains are more easily removed if you rub spots with baby powder before sudsing.

Once baby's menu has expanded to a full food schedule, imagination in varying baby's menus becomes more important. No trouble when you serve Gerber Strained Foods. Over 31 varieties including fruits, vegetables, meats, Vegetable Meat Dinners and desserts. All prepared from choice ingredients—carefully processed to retain natural flavors, true-to-nature colors and a high proportion of the wholesome food values. Gerber-Opigvie Baby Foods Ltd., Niagara Falls, Canada.