

How Insects Make Music With Wings

Wing Covers of Cricket Scrape Against Each Other And Produce Sound

If you can discover a cricket rattling you will notice that it raises his wing covers above his body and rubs them rapidly together. These you will hear that cricket's familiar chirping. The wing covers of the male cricket are larger than his body, and if you examine them you'll find a heavy ridge on the side near the base of the wing cover. The scraping of the file of one wing cover against the other is producing the sound. The wing covers are special sounding boards and they quiver with the vibration of every note.

As summer draws to a close, the katydid starts making his wing music to Nature's broadcast. It is a memorable offering. The katydid can no more change his tune than you can change the tune on a piano.

THEY IT YOURSELF! Some insects can make him play his "recorder" by moving the larger pair of wings yourself. Rub the delicate veins of the wings of one of the wings over that of the other wing. If you do this properly he will sing out a clear, surprising "katydid".

The short horned grasshoppers have a song. One is a harsh and cracking chant made in flight when the upper surface of the front edge of the hind wing is rubbed against the under surface of the fore wing. Some of the short horns also play their flutes by using their mouth and legs as blow pipes to enter wings.

"Bookworm" Is Insect Pest

Scientists Find It Dates Back to 35 B.C.—Worms Wrought Destruction Upon Ancient Manuscripts

The Smithsonian Institute, Washington, has long had an academic subject of bookworms and unearthed some surprising facts.

First of all, a bookworm is not a person who keeps his nose in a book, but an insect who keeps his nose at a person.

The confusion over the definition goes all the way back to the philosopher Thalesonica early in the first century when he called "bookworms" fans of the day.

But to get back to the insect variety, better known to gentle readers as anobion paniscus or pinus brunneus . . .

Aristotle was one of the first recorders of this pest. He wrote bookworms and he penned a martyr piece about them in Athens around 325 B.C.

"NIBBLED BY WORMS' TETH!" Horace became melancholy on the same subject, lamenting that his writings might become "food for vandals' mouths," and thus be lost to posterity.

He likened the "constant gnawing of sorrow" to the gnawing of the bookworm—"as the book when laid away is nibbled by the worm's teeth."

Greeks Employed Secret Ballots

They're Not A Modern Invention—Ancient Greeks Voted On Scraps of Pottery

When the war broke out Canada drew its supply of medicinal cotton from the United States and Newfoundland. There was a very small domestic supply. Now war means no more cotton to be got altogether. If a Canadian industry had not been developed the price this winter would likely have reached prohibitive proportions.

Not only are oils being extracted and refined on both coasts, but the War-time Prices Board has arranged in co-operation with the Department of Agriculture and Fishing and the Economic Council of Nova Scotia for extension of laboratory facilities. By using oils from the Newfoundland and Labrador, which are as much as 100 times as rich in vitamins as cod liver, as fortified oil, it is quite possible to have medicinal value, can be used. This work requires careful laboratory checking.

Canada's Decline Role

In the Dominion, Prime Minister Mackenzie King told the members of the Canada's of the staggering cost they

Make Two Pounds Butter From One

To each quarter pound of butter added a quarter pint of water, then creamed for 15 minutes. Warm a large mixing bowl, cut up the butter and allow it to get soft, then add the water. Now mix the milk slightly (don't make it hot) and with a whisk beat the butter until it is quite smooth. Add the cream and beat for 10 minutes. Gradually beat in the milk, creaming each lot in before adding more. Lastly add a little extra salt. Pour the mixture into a dish and leave in as cold a place as possible. This butter is just a little softer than ordinary butter, so keep it as cold as you can. You were placed in different boxes to indicate the voter's wish.

Saving Ontario's Natural Resources

G. C. TONER, Ontario Federation of Anglers and Hunters

ONE TREE PER ACRE

The Royal Society of Canada has set up a committee to survey the resources of the country, and as I wrote last week, the first report of the committee has been made by Dr. J. O'Neill of McGill University. Dr. O'Neill took for his subject the exhaustion of our minerals and the necessity of providing jobs for the people who will be thrown out of work by this eventuality, suggesting that a comprehensive plan be adopted to deal with this, after study of the resources has shown the best methods.

The Clay Belt

Agriculture cannot replace mining in our northern areas for much of the soil is useless and the severe climate is a handicap. The Clay Belt, of the central north is about 60 miles wide. This is good agricultural land but is now used for stock raising and the heavy forest and large tracts must be found and introduced. Even so, conservation of the north must be realized that the Clay Belt is just a small section of a great fertile domain far as agriculture is concerned.

It has been estimated that nearly one quarter of Canada is covered by forest growth and that one quarter of this (150,000,000 acres) bears saw timber; the remainder is a forest of scrub or tree only suitable for pulp or firewood. Two thirds of the forest in the British Columbia and the rest of Canada has, on the average, one tree per acre suitable for timber. Over 100,000,000 acres of forest are being cut in the United States.

Canada has 150,000 square miles of fresh water lakes, over 100,000 of the Great Lakes, in its interior. Means should be found to utilize the fisheries of these lakes. Fish grow more slowly in the north and it is an easy matter to deplete a lake. Better exploitation goes on too far south would know how many fish can be taken from a lake in a given period without harming the stock.

There are only a few ideas on a vital subject. Dr. O'Neill was speaking to the geologists but his address should be known to every conservationist.

Canada Produces Own Cod Liver Oil

Industry Largely Non-existent A Year Ago Will Supply Dominion's Needs

Dr. George Hillon has been named as Administrator as the War-time Prices and Trade Board moves to the east coast. It is now producing all fish and vegetable oils. This winter Canada will be largely self-sufficient in the production of fish oils—an industry largely non-existent a year ago.

Can Depend On U.S.

Embattled Britain fought on bravely. The Ministry of Home Security announced that 634 civilians had been killed and 859 injured in October air raids on Britain. Even as this news became public it was admitted in London that the submarine was definitely replacing the bombing plane as a primary means of attack. Shipping, loss of lives in the merchant marine might soon constitute the war's greatest problem.

But Britons knew by last week that they could rely absolutely on the United States of America. Half the material was already prepared in behalf of Britain—Mr. Roosevelt had not lost a minute after the election in making his clear. Britain could expect ships next, then cotton, and then the rest. The red-hot question in the U. S. was not to get into the war, or stay out; but in many quarters the view was held that America was really in a bind.

China: Receptive of Yanchow

UNITED STATES: A sensation at shift of American diplomats to which could be attributed the utmost importance was predicted in Washington last week. It was reported that President Roosevelt might send no less a personage than his Under-Secretary of State, Sumner Welles, to Great Britain as his new ambassador. . . . Conversations continued during the week between the governments of Great Britain, the U. S. and Australia with regard to co-operation in the Pacific. . . . Secretary of the U. S. Navy Frank Knox told an Atlantic City audience that the duty of the United States was to

Travelled by Horse from Vancouver to New York

Mary Bosanquet and her horse Jonty are shown in New York at the end of a 4,000 mile horseback ride that started in Vancouver, Canada, in May, 1933. She achieved the feat by the most part, and stuck to the dusty backroads and byways.



Mary Bosanquet and her horse Jonty are shown in New York at the end of a 4,000 mile horseback ride that started in Vancouver, Canada, in May, 1933. She achieved the feat by the most part, and stuck to the dusty backroads and byways.

THE WAR WEEK—Commentary on Current Events

Quake, Italian Defeats Queer Germany's Plans

Real news came to Adolf Hitler's ears last week, some of the most discouraging since he failed in his plans to subjugate Britain by mass air attack. The reported collapse of a full-fledged Italian offensive against Greece, the sinking by the British fleet air arm of half of Italy's capital ships, the earthquake in Romania, meant that the Axis drive to gain control of the eastern Mediterranean was stalling and that, in the meantime, the German-occupied peoples growing restive and U. S. aid to Britain in the form of lend-lease supplies could happen to spoil forever any chances of Axis dreams coming true.

Balance in the Balance

Although the military situation all over the world remained comparatively stable during the week, diplomatic activity on all fronts reached the frenzied stage. No one knew what might come out of the German-Soviet talks in Berlin; anxious was the kibitzing done by other powers, especially France and Turkey) who feared that Russia might join the Axis "new world order" and upset the balance against them.

Japan Awaits Outcome

In the Far East Japan awaited the outcome of the Hitler-Molotov conversations before launching a new push into Indo-China. (Shanghai dispatches said that the indications that the Japs were preparing for a new adventure, possibly an attempt to take the Netherlands East Indies, commencing editorially on Molotov's visit to Berlin, the Tokyo newspaper Yomiuri said that further Russian-German cooperation inevitably would weaken the British-dominated "old order," and that Japan was driving for the same goal for the Orient.

Can Depend On U.S.

Embattled Britain fought on bravely. The Ministry of Home Security announced that 634 civilians had been killed and 859 injured in October air raids on Britain. Even as this news became public it was admitted in London that the submarine was definitely replacing the bombing plane as a primary means of attack. Shipping, loss of lives in the merchant marine might soon constitute the war's greatest problem.

China: Receptive of Yanchow

UNITED STATES: A sensation at shift of American diplomats to which could be attributed the utmost importance was predicted in Washington last week. It was reported that President Roosevelt might send no less a personage than his Under-Secretary of State, Sumner Welles, to Great Britain as his new ambassador. . . . Conversations continued during the week between the governments of Great Britain, the U. S. and Australia with regard to co-operation in the Pacific. . . . Secretary of the U. S. Navy Frank Knox told an Atlantic City audience that the duty of the United States was to

REG'LAR FELLERS—Shy

PEOPLE WHO DOZE OFF AT NIGHT TAKE THESE "MILITONAIRES."

WHEN YOU WANT TO COLLECT HIM, EVEN HERE'S THE ADVERTISING FOR HIM. GET IT!

CERTAINLY YOU'VE GOT TO GET YOURS. DON'T LET ANYONE ELSE TAKE THEM AWAY FROM YOU.

ICE LOADERS PRACTICAL WORKING. Talk to Fred Hedges, Ontario.

SAFES. Protect your money and cash from fire and theft. Buy a safe. Buy a safe. Buy a safe.

ITCH STOPPED QUICKLY. D.D.D. The Battle of droppings gives you money back.

defend the whole western hemisphere.

CANADA: A revamped public finance system for Canada loomed as one of the major prospects of the new session of Parliament just opened. From the country, within the government's own ranks pressure had been growing that action be taken, along the lines of the monumental St. Louis report, to straighten out and streamline financial relations between the Dominion and the provinces. . . . Last week Prime Minister King declared the government's intention to act on the recommendations of the report now that the cooperation of the provinces had been obtained. . . . The Dominion-provincial conference had been called for mid-January. . . . Thoroughgoing social, economic and financial adjustments would be made in order to prepare for the post-war period. . . . Premier Hepburn of Ontario intimated his intention of attending the conference, and announced that he would adopt the recommendations of this report.

SCOUTING

During his recent official visit to Quebec City His Excellency, the Governor-General, the Chief Scout for Canada, reviewed the local Boy Scouts, French and English speaking, and attended a campfire. He was accompanied by 2000 Scouts.

Small flags of two countries were exchanged by Canadian and American Boy Scouts at the fourth annual Peace Arch celebration at Blaine, on the British Columbia-Washington border. Some 10,000 children and adults took part in the ceremonies, and joined in the singing of the two national anthems.

"Big Chief Blanket Pin" is the name given by one young London Boy Scout from the simple but thoughtful service rendered him by a certain big sleeping shelter during German air raids. Carrying a Scout haversack full of blanket pins, he makes a nightly round of the big London tube shelters, tucking in and pinning sleeping children's blanket Scout cap fashion.

1940 Construction Up 60 Per Cent

Over 1939—Quebec Leads All Provinces of Dominion in New Work During October

Construction in Canada in 1940 is 60 per cent higher than in 1939. Contracts awarded for all types of construction in Canada during October, as compiled by Maclean's Building Reports Ltd., amounted to \$26,300,000. This total though lower than in September, is 85.4 per cent higher than the October 1939 total of \$14,228,100. Total construction for the year to date is \$274,109,600, as compared with \$165,010,000 for the like period in 1939, an increase of 66.1 per cent.

Quebec heads the provinces this month with \$8,536,800; Ontario has \$6,171,200; Alberta, \$3,101,700; British Columbia, \$2,009,200; Nova Scotia, \$1,211,500; Manitoba, \$1,018,500; Saskatchewan, \$1,007,300; New Brunswick, \$689,100; Prince Edward Island, \$425,200.

Public Health Can Shape A Nation

Public health has become a dominating factor in determining the destiny of the individual and the nation, and it is logical that in the midst of war, attention should be directed on the abhorrent conditions of the civil population. Dr. Grant Tinker of Montreal declared in a recent address.

Reviewing the progress in the control of smallpox, scarlet fever, and other diseases which by persistent work had been rendered almost unknown in Canada, Dr. Tinker argued that similar persistence be applied to such present day scourges as tuberculosis.

"Infant mortality," he said, "quoting Sir Arthur Newsholme, is the most positive index we possess of social welfare." Out of 235,000 babies born alive in Canada in 1939,

HEALTH TOPICS

Public Health Can Shape A Nation

Public health has become a dominating factor in determining the destiny of the individual and the nation, and it is logical that in the midst of war, attention should be directed on the abhorrent conditions of the civil population. Dr. Grant Tinker of Montreal declared in a recent address.

Reviewing the progress in the control of smallpox, scarlet fever, and other diseases which by persistent work had been rendered almost unknown in Canada, Dr. Tinker argued that similar persistence be applied to such present day scourges as tuberculosis.

"Infant mortality," he said, "quoting Sir Arthur Newsholme, is the most positive index we possess of social welfare." Out of 235,000 babies born alive in Canada in 1939,

Here's How The Big Ones Bite on Pacific Coast

Exemption was initially claimed by the Ontario Paper Company, which is owned outright by the Chicago Tribune. The excuse for the exemption claim is that the entire output of the Ontario Paper Company goes to the Chicago Tribune and its affiliated New York News. Just what this has to do with operating employment among the mill towns of the two provinces will be obscure to

But the Tribune's exemption became a test, and with this exception in force, certain other mills have had fairly good excuses not to comply with the government's order.

Thus the granting of exemption has in some degree nullified a government policy which was designed to help employees of paper mills in towns remote from communities where other work would be normally obtainable.

By GENE BYRNES

POST OFFICE. STATION. WANTED. \$1000.00. \$500.00. \$250.00. \$100.00. \$50.00. \$25.00. \$10.00. \$5.00. \$2.50. \$1.00. \$0.50. \$0.25. \$0.10. \$0.05. \$0.02. \$0.01.

BEE HIVE SYRUP

A Great Energy Food
golden corn
Exclusive Pouring Spout

America Lacks Few Minerals

Continents' Resources Necessary to Industrial and Military Activity Are More Than Sufficient

The North American Continent, considered as an economic unit, is unusually fortunate in regard to the materials, according to the monthly report of the Royal Bank of Canada, which says that the combined resources of many of the important minerals necessary to industrial and military activity are more than sufficient for its requirements.

"See Canada Now" New Slogan Idea

"See Canada Now" is the slogan proposed for Canada's 1941 tourist promotion campaign in the United States by Howard A. Fox, of Niagara Falls, president of the Ontario Hotel Association.

SEVEN MATERIALS MISSING

The United States requires to obtain only fourteen strategic materials, including rubber and nine minerals, from sources outside its own boundaries.

Stir freshly-blended china into the white of an egg until it becomes the consistency of paste. Apply to the edges of broken china and let dry for at least three days. This cement can also be used on cracked glass, although it may smoulder.

How Can I make a china cement?

How Can I make a household glue?

How Can I remove pencil marks from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

Second Session of Canada's 19th Parliament Opens Without Pomp

The second session of Canada's 19th parliament was opened by the Governor-General, the Earl of Athlone and Princess Alice. The governor-general is shown reading the speech from the throne. At his excellency's right is Prime Minister King and on the opposite side Senator Raoul Dandurand.

13,900 did not live to see their first birthday and of this number, 7,000 did not survive for one month. In addition, he said, there had been 6,000 stillbirths and 967 mothers' lives were lost in childbirth.

How Can I make a china cement?

How Can I make a household glue?

How Can I remove pencil marks from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

What Science Is Doing

DRUG FORESTALLS BLINDNESS

Sulfanilamide is giving back to Indiana eyesight threatened by trachoma. In tiny clinics spotted throughout the United States West, public health and Indian service doctors are treating the eye disease which once meant blindness for the patient treatment that might show results in six months—or three years.

Trachoma, which historians say Coronado and his conquistadores probably brought to New Mexico in 1598, has taken a growing toll of Indian eyesight ever since.

SOLDIERS' NERVES AND POLIO

A soldier who has nerves severed in battle undergoes the same suffering in general as a child who has infantile paralysis. Dr. D. Y. Soltan, associate professor of physiology at the University of Toronto said last week.

How Can I make a china cement?

How Can I make a household glue?

How Can I remove pencil marks from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

Now Is Season To Set Mousetrap

Mice Are Very Prolific and, If Not Checked Now, Will Settle Education Must Help Win Peace

At this season of the year, mice, in seeking suitable winter quarters, sometimes in quite appreciable numbers. This is particularly noticeable in rural districts but also occurs to some extent in suburban areas and in city dwellings.

The common house mouse is the chief offender, states the Division of Entomology, Science Service, Dominion Department of Agriculture, but field mice will readily establish themselves in a very short time. Both species in their quest for more comfortable quarters with the approach of winter are driven indoors.

Between Truths

The teacher could assist pupils in meeting these problems. Teachers could help young people to distinguish between truth and propaganda; they could discourage the development of mass hysteria and encourage the use of practical and useful work as outlets for the emotions. Education, Mr. O'Neill said, must help us win the peace after winning the war.

Modern Etiquette

When you have received a valuable gift from a friend, sent by mail, and it arrives in a badly damaged condition, what should you do?

What are a few acknowledgments of an introduction that you should make?

When should a guest who has finished eating place his napkin on the table?

Just what is a mistake for a person in company to be impulsive in what he says, always "speaking his mind" or "letting it all out" without considering its effect?

When a young woman is seated at the table of a public dining room and another woman stops to chat for a minute, should the young woman rise?

What is the proper reply to a friendly letter?

Take it up with the post office at once and try to get it repaired. If you cannot get it repaired, say nothing about the damage.

Please to meet you. "Delighted to know you." "I am sure you will enjoy your vacation." "How do you do?"

The proper reply to a paternal help, winding up with the confession that he was obliged to sleep in a disused wardrobe.

Back came a postcard from the father: "Dear Oswald, is there room for two?"

While the question is important as to how, and when, the Abitibi paper company is to be reorganized, another question of great public interest in Ontario and Quebec is whether or not the governments of those two provinces will continue exempting from the rule calling for spreading of production equally among public or private interest concerned.

The industry has benefited from protection, according to most authorities, but a grave weakness in the policy is that the Ontario government countenances certain exemptions. Most people would say that protection should apply to all factors in the industry.

Exemption was initially claimed by the Ontario Paper Company, which is owned outright by the Chicago Tribune. The excuse for the exemption claim is that the entire output of the Ontario Paper Company goes to the Chicago Tribune and its affiliated New York News. Just what this has to do with operating employment among the mill towns of the two provinces will be obscure to

But the Tribune's exemption became a test, and with this exception in force, certain other mills have had fairly good excuses not to comply with the government's order.

Thus the granting of exemption has in some degree nullified a government policy which was designed to help employees of paper mills in towns remote from communities where other work would be normally obtainable.

By GENE BYRNES

POST OFFICE. STATION. WANTED. \$1000.00. \$500.00. \$250.00. \$100.00. \$50.00. \$25.00. \$10.00. \$5.00. \$2.50. \$1.00. \$0.50. \$0.25. \$0.10. \$0.05. \$0.02. \$0.01.

How Can I remove stains from my clothing?

How Can I remove stains from my clothing?

REGISTER OGDEN'S!

Roll a cigarette and give a pack of OGDEN'S a light to it and you'll register "real" smoking enjoyment. OGDEN'S is a "star" cigarette because of the pleasure programme of roll-your-owners everywhere. Of course they choose the best papers—"Chanticleer" or "Hogus".

OGDEN'S FINE CUT

OGDEN'S FINE CUT

OGDEN'S FINE CUT

OGDEN'S FINE CUT

OGDEN'S FINE CUT

OGDEN'S FINE CUT