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little things that ordin-  
You feel nervous. You  
ite. You lose flesh...all run

eruption which is stubborn,  
condition which does not  
Are you going down hill

AILMENTS  
business, despondency, poor  
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ts on face, palpitation of  
ack, lumbago, dyspepsia,  
mia. Dr. Ward gives you  
e in the treatment of all  
The above symptoms, and  
that something is wrong  
need expert attention.

ON.  
e numberless people who  
el nervous, weak, languid  
ambition or endurance to  
rt. Life to them appears  
e poor and variable; they  
they have pains and aches  
often indigestion, belching  
less, wakeful and restless  
meals and the brain tires

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## PREPARING FOR TRANS-ATLANTIC FLYING



(1) Lieut. Harris (on right) explaining Crown kite to St. John officers.  
(2) Starting large Crown kite—box kite resting on the left.

In future days when one takes a casual flight across the Atlantic, in a Detroit flying Gliner, the success of the trip can be credited to the British Air Ministry in general, the meteorological in particular and Lieut. Guy Harris, F.R.M.S., R.A.F., specifically.

Lieut. Harris arrived in St. John recently, the only passenger on board the Canadian Pacific Steamship Montcalm. He is the commander of the Atlantic upper air investigation expedition which under the control of the Royal Air Ministry will chart every air current and make the air route across the Atlantic as sure and safe as the water pathway. Weather news bureaus will also be inaugurated to furnish up-to-the-second information regarding all aerial conditions.

A representative of the press visited the vessel and examined the special apparatus with which she was fitted for the experiments. At first sight it seems to be simple enough. It consists of a box kite, a meteorograph, but the meteorograph is itself a complicated and intricate instrument, and kites for scientific purposes are not quite the schoolboy fun that many people imagine it to be. The kites used are of three types, and the largest of these, which measures roughly 8 ft. by 6 ft., exerts a pull in a strong wind sufficient to strain the holding power of four men.

Besides the box kite there is a crown kite, 16 feet long and 12 feet high, with a main plane and two wings; the keel kite is smaller and is used mostly as a pilot kite to assist the others up.

There are two winches, one placed on the fore'stack for use when the wind is aft, and the other for use when the wind is ahead or abeam, is to be sent off on the gun platform in the stern of the ship. By these means the mooring cables which are of fine steel wire very similar to marine sounding cable will be kept clear of rigging and derricks whatever may be the angle from the ship at which the kite is flying.

When the soundings are taken two kites are attached to the cable-end a pilot of light make and 400 feet behind it, one of the bigger box kites carrying a meteorograph. The air cur-

"Ah, your idioms. I cannot grasp them."  
"What's the trouble, Count?"  
"The politician is happy because he was whitewashed."  
"Yes."  
"Yet the baseball pitcher who was whitewashed, to-day, he is sad."  
—Kansas City Journal.

"Well, what do you think about prohibition now?"  
"To tell you the truth," said the man who has reformed, "I think if they would quit talking, about it maybe I could forget it."  
—Washington Star.

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## BARBERY CAUSES RUST

Provincial Campaign Advocated to Destroy This Shrub.

Current and Gooseberry, Worms Cause Great Losses. How to Identify It—Simple Methods of Control—Spraying With Arsenate of Lead Solution Most Effective.

(Contributed by Ontario Department of Agriculture, Toronto.)

**T**HE Barberry should not be tolerated by the farmers of Ontario. It is a thier in their midst, which every year takes money from their pockets, by increasing the amount of rust upon their grain, and thus reducing their crops.

The Barberry increases the amount and severity of Rust.

It is not necessary to go into the complicated life-history of the fungus which causes stem rust of grain. Scientists have known for many years that one phase of its life-cycle is passed on the Barberry, and all who have made a study of this matter agree that the amount and severity of stem rust very much increased by the presence of the Barberry in the neighborhood of grain fields. While scientists do not expect to see rust entirely disappear if the Barberry is destroyed, the general consensus of opinion is that if it were completely exterminated the chances of severe epidemics of stem rust occurring would be greatly reduced.

**Enforce the Law Regarding the Barberry.**

In Ontario legislation has been passed regarding the destruction of this shrub. Let all concerned realize that the Barberry does increase the amount and severity of stem rust and a sentiment will be created for the enforcement of the present act. This act should be enforced. The Barberry in Ontario should be destroyed. There is strong evidence to show that Barberry bushes are centres of infection which in wet seasons may give rise to severe epidemics of rust.

**The Common Barberry and its Purple-leaved Variety the Culprit.**

The Common Barberry and its purple-leaved variety harbor grain rust. The average man does not know this shrub when he sees it. It is a spiny shrub from six to nine feet high, with yellow wood, arching branches and gray twigs. The leaves are bright green, smooth, somewhat oval, from one to three inches long, the margins with bristly teeth. The flowers are small, yellow and borne in long, drooping clusters. The berries are oblong, red and sour. The purple-leaved variety is similar except for the color of the leaves, which are purple. Unfortunately, the Barberry has been much planted in some sections of Ontario for ornamental purposes and has become wild in many localities.

**The Japanese Barberry Harmless.**

If Barberries are required for ornamental shrubs the low growing, small leaved Japanese Barberry (Berberis thunbergii, D.C.) may be planted, as this species does not harbor the rust.—Prof. J. E. Howitt, O. A. College, Guelph.

**Current and Gooseberry Worm.**

The most common insect enemy of Currant and Gooseberry is the Current and Gooseberry Worm. The larva is a greenish caterpillar, about three eighths of an inch long when full grown, with a black head and numerous black spots over the body. The larvae attack the foliage of gooseberries and currants and devour the leaves but seldom injure that of black currants. At first they work chiefly in the central part of the bush, stripping the leaves nearly all off there, and doing much damage before they are observed. Later they may devour the foliage anywhere. It is common to see nearly all the leaves eaten off numerous bushes.

The life history of the insect is as follows:—The adults, which are known as Sawflies—are small, four-winged flies, about a quarter of an inch in length. The female has the abdomen yellowish and the rest of the body blackish in color. The male is for the most part blackish or black. The flies appear in spring very soon after the leaves have expanded. Eggs are laid on the under surface of the leaves in chains along the main veins. The young larvae on hatching feed upon the foliage and become full grown in two or three weeks. Then they drop to the ground and form little cases in which they pupate. A new brood of flies emerges, lay their eggs and from these there comes a second brood of larvae, which may be seen on the plants at the time when the currants are ripe. When these larvae are full grown they enter the soil, form little cases or cocoons, and remain there till the next year, when they pupate and emerge as adults.

**Method of Control.**—These are easy insects to kill. All currant bushes and gooseberries should be sprayed with from two to three pounds arsenate of lead paste or half that amount of the powder form in forty gallons of water, as soon as the leaves have become well expanded. Particular care should be taken to spray thoroughly the inner parts of the bush. This will kill all the first brood. If a second brood appears hellebore should be used instead of arsenate of lead, in the proportion of one ounce to one gallon of water. Arsenate of lead would be dangerous on the ripe fruit. The insect occurs everywhere in the province, and everyone should prevent his plants being weakened and seriously injured by it, especially as it is so easy to control.

**Note.**—Hellebore loses its insecticidal properties unless kept in airtight packages.—Prof. L. Caesar, O. A. College, Guelph.

If the money which is spent in treatment were devoted to the preservation of health, the number of hospitalizations could be reduced by half.

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5:22 p.m.	8:05 p.m.	5:22 p.m.	8:05 p.m.

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