

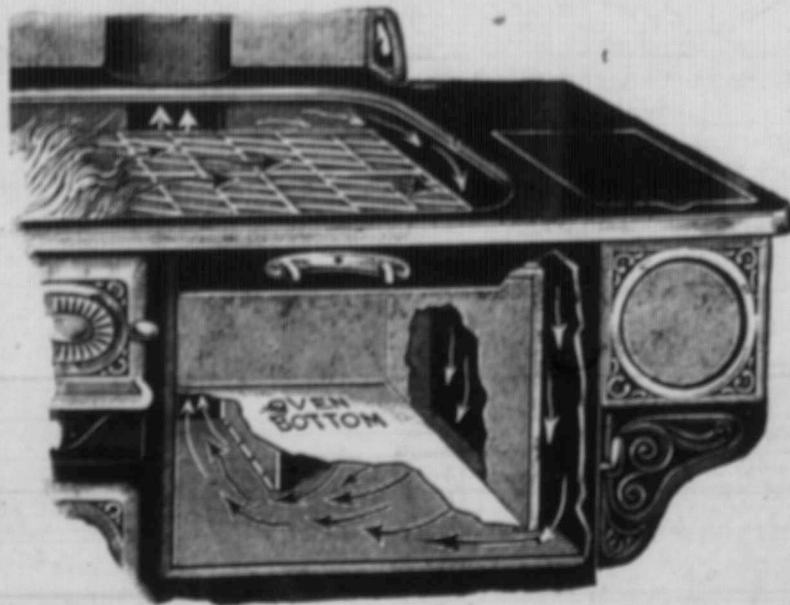
An Envelope of Heat

THE Kootenay oven is practically surrounded with heat—even, unvarying and steady.

Over the top of the oven and down the right hand side, the heat passes in a steady current, then underneath the oven till it strikes a guiding bar that sends it to the front, then straight across to the back.

The oven itself is constructed of heavily nickelled steel which absorbs and distributes the heat evenly and quickly to the interior.

Thus the oven is practically surrounded with an envelope of heat on five sides—left, top, right, bottom and back, and the outside is pro-



ected by a heavy steel door with air-tight joints so that not a particle of heat can escape.

The outside envelope of the heat flues, or the body of the range, is insulated with asbestos and protected with air-tight joints.

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This is only one of the many features of the Kootenay Range described in a beautiful little booklet, "Service in the Kitchen," which will be mailed free on request. It tells all a woman wants to know about a range before she buys it.

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are frequently laid in masses of 15 to 20 eggs, although single eggs are commonly found. The average length of time spent in the egg stage is about five days, although more time is spent in this stage later in the season.

As soon as the larvae (maggots) emerge, they migrate to the stem or roots of the plant, where they at once begin to feed. They have no biting mouth parts but at the anterior end of the body have two small, blackish hooks with which they rasp the plant tissue and free the juices of the stem, so that they may be absorbed by the growing larvae. It is in the larval condition that the injury is done to the plant. A few larvae on the plant may not cause it to die, but the presence of a score or so will soon destroy the outside tissue of the stem, with resultant wilt and ultimate death of the plant. Usually three or four weeks are spent in the larval condition. The fully-grown larva is white, somewhat blunt at the posterior end and pointed at the head end, and is about one-third of an inch in length.

The pupal stage occurs immediately the larva is fully grown. The outer skin of the maggot contracts, hardens and turns brown. Within this skin the larva undergoes remarkable changes. After a period of from two to three weeks the end of the pupal case breaks open, and the adult fly, already mentioned, emerges. Pupation takes place in the soil and in the vicinity of the roots of the host plant. If one will dig in the soil around a diseased plant one may find numerous brown pupal cases at various distances below the surface of the earth. Many of these pupal cases will produce flies next spring.

Remedial measures are not possible at this late season of the year; yet this is an excellent time to call attention to the enormous damage that is being done, and to the fact that next year's loss from the ravages of this insect may be largely prevented.

As soon as the plants are transplanted to the garden in the spring, they should be protected with tarred felt paper discs. The discs made be made as follows:—

- 1.—Cut out a six-sided piece of one-ply tarred felt paper. This piece should be about three inches in diameter.
- 2.—From one corner on the edge of the disc slit the paper to the centre.
- 3.—Using the centre of the disc as a starting point, make five more slits, each about one-third inch long. These slits should radiate from the centre like the spokes of a wheel.

Where only a hundred or so discs are needed, they can be made easily with a good sharp knife, but where several thousand are needed a special tool, which will stamp them out, should be used. This tool can be made by any handy blacksmith. The discs should be made during the winter, so that they will be ready for use when wanted in the spring. At present prices 200 square feet of a good grade of tarred felt paper will cost about \$4.50. This amount will make at least 4,500 discs, and at that rate the discs cost one-tenth cent each. The material is cheap and the discs are easily applied.

Level the earth around the plant, then slip the disc around it, and press firmly on the ground. When properly applied, the disc lies evenly upon the surface of the soil. Remember that tarred felt paper must be used. Ordinary tarred building paper is valueless, since it will curl up in the sun. Care must be taken to see that no earth lodges on the surface of the disc either when it is being applied or during subsequent cultivation. If any earth gets on the disc brush it off.

As soon as possible this autumn, all diseased roots should be pulled and destroyed. This may be done by burning, or by burying them deeply. Cabbage growers who wish any additional or more exhaustive information on the Cabbage Root Maggot should communicate with this department at the College.

Aged Educator Dead

The death occurred in Truro, N.S., two weeks ago, of Dr. J. B. Calkin, for more than 40 years principal of the Normal School at Truro. He retired from the position in 1900, and has been enjoying a ripe old age until his death at 89. A large number of his students are scattered throughout the prairie provinces.

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