actions, from allowing too much cool air to en-

To secure the best results, we should acquaint Ourselves with all the minutia know whether what we propose will bring us the best results, or prove a disadvantage to us in securing the most honey and money for our labor.

Borodino, N. Y.

The Plant-Louse on The Wax-Plant

HOW TO DESTROY IT.

The following clipping from Gleanings will be found of interest.

Prof. Cook:—I send you a small box in the same mail with this. It contains a leaf of the hoya, or wax-plant, on which there is some sweet deposit; also a twig of the same plant with the little insects that produce this deposit. the plant has not been out of the office, where it runs up one window for several years. insects were all alive when placed in the bottle but I fear they will be dead ere it reaches you. The was handed to me at Boonville by Capt. Tolioferro during our State convention of beekeepers, and we were all curious and anxious to now whether the deposit is honey dew, the name of the insect, or species, etc. Please examine. an i report if already discussed in the ions. journals. MRS. I. M. NULL.

Miami, Mo., Apr. 12. (Prof. Cook replies:)

In response to the inquiry sent by Mrs. Null, let me say that the sweet substance on the leaves of the hoya, or wax plant, is genuine honey-dew, and the insects sent in the accompanying bottle are genuine plant-lice the necraries—the black tubes which project from the back—are very long, as is also the apyglars like ovipositor. The back or suckingtabe, is always long in plant-lice, and it is through this that the lice suck the sap and life from the plants. The sweet substance, or honey dew, comes from the tubes or nectaries, and, in many cases, that from these plant-lice is wholesome, delicious, and no injury to honey,

which it helps to produce. The remedy for this plant-louse evil is the kerosene emulsion, which should be made as tollows; Dissolve, in two quarts of water, one Quart of soft soap or 1 lb. of hard soap, by beating to the boiling-point, then add one pint or kerosene oil, and stir violently for from three to five minutes. This is best done by pumping the i: the liquid into itself through a small nozzle, so that it shall be thoroughly agitated, mixes the oil permanently, so that it will never parate, and can be diluted easily at pleasure adding the water to dilute it. I have often taked, that it is not necessary to use so much soft coap, but that it is better, as it insures a perfect and the perfect emulsion even upon dilution, and the tom itself is an insecticide, and valuable, aside from itself is an insecticide, and valuable, assistant its emulsifying powers. I have also would do, I prefer, however, the two quarts, as the section of th as the emulsion is more sure; and the thinner malerial permits more ready and more speedy dilution, especially in cold weather. I have always not sepecially in cold weather. hays placed soft soap first, as most farmers have it, and it, and convenience is very - mportant in such

matters. A farmer will make and use an article when all the ingredients are at hand, whereas he would not do so had he to go and purchase them for this express purpose. The agitation should be violent, but need not be long. We have formed a perfect emulsion in one minute, even with cold water. This emulsion should be diluted by adding an equal quantity of water. Shake well, and apply to the plant by the use of a syringe or force-pump, like the Lewis or Whiteman. It kills all the lice, but does not injure the plants.

Many readers of GLEANINGS will be glad to know that this kerosene emulsion is a sure cure of cattle, horse, and hog lice, and also sheepticks. For the lice, scrub the animals with the emulsion diluted with one-half its bulk of wa-We use a brush, and do it thoroughly. The cost for a full grown cow is not incre than five cents and five minutes of time. It kills nits as well as lice, and seems to brighten the hair. I think the scrubbing with this soap solution is excellent for the skin, and thus we do more than kill the lice. For sheep we dip the animals in the emulsion, diluted with one half its bulk of A. J. Cook.

Agricultural College, Mich.

PROMOTE BROOD REARING.

The experienced apiarist manages to have but little honey in his hives at the beginning of the surplus honey flow. By uncapping the cells, and placing the combs in the center of the brood nest it is used for brood raising. If some hives contain more than can be used in this way, probably others will be lacking in stores and an exchange of combs may be made. Worker combs from box hives may be fitted to frames and use in place of oid combs, which may be cut out, rendered into wax and the frames refilled. Whenever I have tried the plan of getting foundation drawers between frames containing full combs, I alway get irregular combs. Colonies that contain a large amount of stores at the beginning of the hon-ey harvest will store only about half the sur-plus they would if the brood nest had been judiciously enlarged. The entire stores may be used for brood rearing and when the surplus cases are put on frames containing eggs should be placed at the outside of the brood chamber. (J. H, Andre, In Farm Home.

The Young Canadian.

The number of this bright and clever paper for this week is a vast improvement upon any former one. See the story "Beech and I" keenly interesting to our young readers, also the sketch of "Cook's Friend," with pictures unsurpassed in any Magazine on this continent full of delightful reading is every page.

Send five cents for sample copy. Box 1896 Montreal.

Report from St. Thomas.

Mr. Ed. Heal writes us as follows:-Gents, my first swarm for 1891 came out to-day at 2 p.m., about two weeks later than last year. Yours truly,

ED. HEAL.