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much below the achievement of the parent colony. Now, very possibly, one of the hundred daughters will be found more efficient in the matter of producing goo! honey gatherers than her mother. If we raise another hundred queens from this daughter and place them at the heads of our cclonies, we shall find precisely the same wide range of variacion in the yields of honey, but at the same time we may obtain a slightly better average for the whole yard. Repeating this operation of selecting the very best daughter each time, and raising from her all the queens needed, we shall slowly, but surely, raise the average yield per hive. We have nothing to fear from inbreeding so long as we are selecting for efficiency and vigor. On the other hand, it will be absolutely dangerous for the man who is practising line-breeding to introduce fresh blood.

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In his interesting notes on bee-keeping in British Columbia, Mr. Wm. L Couper asks us why we believe the elimination of the swarming instinct in bees would mean probable destruction to the honeystoring instinct. We don't think we said quite that. We, however, believe that bound up with the swarming instinct are others which may include the honey-storing instinct. We believe that the instinct which compels a very large portion oi the colony to abandon its hive in the height of its prosperity to find a rew home is an all-important characteristic in the "make-up" of the bee. The instinct, whilst it may be modified within certain limits cannot, we assert, be elim. inated. If, however, Mr. Couper can produce a single colony in which the tendency to swarm is suppressed, it will be a comparative easy matter to perpetuate such a race.

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We should be glad to hear from our readers on the point raised or Mr. Couper regarding honey-dew. Our own personal experience is that the conditions October, 1911

mentioned greatly favor the gathering of honey-dew by bees. The liquid excreted by the aphids quickly dries in the hot sun into a varnish, upon which the bees do not work. During the cool of the night, however, moisture is precipitated upon the leaves, forming a honeydew solution which in the morning attracts immense numbers of bees. On warm, misty mornings, such as Mr. Couper refers to, we have climbed trees and watched the bees upon the moistened leaves.

TREATING EUROPEAN FOUL BROOD

By Morley Pettit

In reply to one of our correspondents, who has European foul brood in his beeyard, the Provincial Apiarist, Mr. Morley Pettit, writes as follows:

Owing to the nature of European foul brood, which is prevalent in your correspondent's reighborhood, there is nothing that can be done for him this fall, except to advise him to requeen his colonies with some good stock of Italian queens. In fact this is about all that can be, and that is necessary to be done for this trouble.

When we detect the disease in an apiary about the beginning of the swarming time, so that the "shaking" treatment can be applied without serious los to the apiary, we advise that treatment; but if the disease is detected in the fall, we certainly do not advise anything but Italianizing, as that alone will generally cure the trouble. It will at least hold it in check until the next swarming season. There is absolutely no use trying to cure black bees of this disease. The only sure method is the introducing of Italians.

Guelph, Ont.

er, 1911

BEF-KEEPING IN BR BIA. Indexed

October, 1911

By Wm. L. (

I have read with paugh's remarks on British Columbia. It w Chilliwak that he met M and the conditions here v Last spring was, I fancy unfortunate one for bees willow and fruit bloom t ly a day on which they to cold and wet. In s apiary, which was in 1 after a ten days' trip fron built up more quickly that believed possible. White yield any honey to speak middle of June, though t dant bloom in May. Dw to the cool, wet weather, long time, but I think ve honey went into the s scarcely appeared to yield district I should put rasp nectar producer, closely fe weed, which came out ab and lasted in full bloom month. At this date (the there is still a little left. (put third, and snowberry latter comes into bloom v clover; when it ceases, 1 There is lots of flower on ate always a number of b it may yield more than] took our weather in chur cold and wet till nearly the very hot and dry afterwas first three weeks of the hot was a fair flow and a good of ing. Since that time th practically nothing done, are picking up a living o and the hives are still fu Among wild flowers, thin worthy of mention, as it f between fruit bloom and cl

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