have such depraved tastes! Just like among men, those who with a calm conscience adulterate with glucose or some such stuff, and sell it as real honey.

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SPRING DWINDLING

One or Two of Its Main Causes

I will mention one colony I had some years ago. The bees started tumbling out of the hive quite early in the spring. They were all bloated up and would crawl around on the ground, flapping their wings like a duck or goose trying to bathe themselves on dry land. I opened the hive and found that some uncapped stores had fermented, both honey and pollen bulging out of the comb. I removed all this and gave them good sweet stores and the trouble ended. After that the colony built up as fast as any in the yard. Sour stores is one of the main causes of spring dwindling. Another serious drawback to bees is the lack of drinking water for them close at hand. For years I have always supplied my bees with water right in the bee yard, and that kept warm by means of a lamp burning under it all day long, but not at night, as I heat a fresh pailful every morning. To every pail of water I add a small handful of salt. I believe this salt will do more towards keeping your bees free from disease than anything else you can give them. When I first started giving salt I had two drinking troughs, one salted and one fresh water. I found they would not touch the fresh as long as they could get the salted, so I gave up the fresh supply. Now just imagine the difference between the bees being able to get what water they want right in the yard, and lukewarm at that, on a cool windy day, or having to fly a long distance through a cold wind and then only get ice-cold water, which is liable to chill them as soon as

they get loaded, and never get back to the hive. The same thing often happens to bees in search of pollen. They get loaded and never get back. Now this can also be supplied in early spring right in the yard, especially if the yard is protected by a high board fence all round, Heft 5, 213) sho as it ought to be, unless you have ever at his bee hive as it ought to be, unless you have ever at his bee hive green hedges or something else to break me of Holland's the wind. To make a drink tub I saw plays the organ six or eight inches off the end of an oal bee-keeping is a or spruce barrel such as are used for the death of lyinegar or molasses. This will hold from bet, at Avignon, two to three pails of water. I set it right the of the charte on the ground, with a hole under it for a Rhône et Dur a small lamp. Place small pieces of the president of wood in the water for floats, which will the water and Cheval lawer with the water. One hundred colorer. He has been lower with the water. One hundred on eur. He has been onies will carry away about three gaths advancement lons of water per day. Now if some o niversalle, Agrico our old veterans will try the above the 108. will be surprised to see how the bee There is an inte will be surprised to see now the best linere is an intervill work at this tub even on a cold day the current nun and get back with their loads of war madien on the resurrence without the loss of a single be seet movement. These little things have more to do with motion chez less success in bees than luck. Bees winter by the former p on the summer stands should have not available to packing box constructed so that the sum in many of the fo packing box constructed so that the sure rays will not shine in at the entrance the hive. This sometimes causes heat losses when the sun is bright and the wind is cold in early spring. Some meansay you cannot feed artificial pollen after the bees can get it naturally. This will admit, but you can get the bees take in a good supply before the nature comes, so that the bees do not need the hive on a cold day to hunt the sum of the feet dural, entomolog and history, there had in service. Mreshington, D.C., the last service is the property of the property leave the hive on a cold day to hunt that source of supply to keep the br from starving. I have had one hund colonies carry in twelve to fifteen pour per day. I found that pea meal or flour (called pea brose), which can t ally be procured in large grocery st in bulk, is the best substitute for nati pollen. Mix it with chopped oats or b so the bees will not fan it all away their wings.

J. ALPAUGE

Eden, Ont., March 8, 1909

Mar. 1909

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[Translated

A picture in

interested in, and my valuable contrib ge of hymenoptera the death of Fer moter of practical nced in the Februa Bienen-Zeitung. 1909, when bee-kee and prominent cra he Leipziger Biene ry, 1909 (pp. 30) re Algerian Bee Jou fractification of flox kept on the island

ally on account of t