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a casting on the engine, just about the time I was busiest, and not being able to make out the number of the engine or the piece I was unable to use the engine for about a week. I had to employ a man to turn the extractor or else turn it myself, and I never appreciated the engine so much as I did those warm days when it would not go. After I got the piece and got it started I appreciated it very much more than I ever did before. The engine will do the same amount of work as a man for about fifteen or twenty cents a day, and from a financial point of view it is certainly a paying investment. I have extracted something over 30,000 pounds with mine since I got it, and I think with the extracting and other work I have done with it the engine really does not owe me anything.

I did not have an opportunity of testing the different makes of engines of that size. Around through the country you will find amongst the farmers all sizes and makes of engines. I will say I never lost more than two hours' time trying to get it to go, and that was not really the engine's fault, it was the fault of the batteries. If your batteries are good and your gasoline is good there is no reason why you should have any delay in making your engine go satisfactorily.

In regard to the use of the engine for other purposes besides extracting, while it is only a one-horsepower engine you may think it is not of very much use, but nearly every bee-keeper has a horse or cow, and you know what a task it is if you are going to feed a little cut feed. I take the engine out to the barn and cut the feed. Another use: We had a Barnes foot and hand-power saw; out in the country we have a certain amount of work like that to do, and I make my own boxes. I buy the lumber there and get it re-sawed, and get my boxes at a very small price. This can be done in the winter time, and in that way you can use up your spare time to advantage. You

put one of those one-horsepower engines on one of those saws, and you have a perfect machine. Lots of people say, who made those boxes for you. I am not a mechanic, but I have made hives and sold them, and have ripped out supers and done the work myself. While I have had that done at the planing factories at home, I feel safe in saying the way I did it was done to my satisfaction. You generally have to get them from the supply dealer. Another use I put it to is to cut cordwood by putting the engine on to a circular saw.

PICKLED BROOD TREATMENT.

Keep all colonies strong with plenty of unsealed honey near the brood, and if hives are properly sheltered so as to be warm on cold days and nights there will be little or no Pickled Brood. If the queen is old, shows a weakness by putting several eggs in one brood cell, and nursing several others, so that the brood is patchy, I would kill such a queen, feed the bees a little, and when queen cells were started remove them all and give them a queen and bees.

There is a time in spring between dandelion and white clover bloom when there is no honey coming in from flowers and often cold days and nights so that the live bees consume the unsealed honey first, and cluster in a compact body to keep warm, the result often is the larvæ bee just changed from the egg to a tender little grub is either starved, half fed or chilled so that it grows slowly and often dies, and we first notice this about the time white clover honey begins to come in.

Whenever I fed daily some honey or even sugar syrup, and kept the hive warm, all dead brood disappeared, while in some apiaries other colonies affected and not so treated, continued bad for some time, but got rid of it as soon as treated.—N. E. France.