dvity during the day may be different one day from that of another. The r two, one average shows a maximum activity near the middle of the forenoon, and a.m., a 18 at the day. But on May 20 their acof the day. But on May 20 their acand a 19 tivity reaches a second maximum in f the sam the evening. May 20th and 21st were 18-minut exceptionally hot days, and account for both the early decline in the morning and the secday. Bot and increase in activity in the evenng. More observations will have to they wer decide the relation between the amount during the their activity and the temperature.

The average gives some idea of the he numb mount of work the individual bee as follow bees in the line of pollen gathering, 13, come ssuming that they all do an equal es through amount. Upon the basis of this avera.m. M ge the probable total number of trips nade by the hive in a day for pollen is eginning 2,274. With 1,800 workers in the hive made f his gives a little over 1.3 (one and our from hree-tenths) trips per day for each orker. If the few observations on econd hiv minutes

n July. se days

8 a.m. its:

5-6

22

56

individual bees were any indication at all of the truth, this suggests that not nearly all of the workers assist in gathering pollen. For according to their records the total activity of the hive should be higher. It must be remembered, of course, that the degree of activity varies over a wide range, and that the hives observed possibly represent considerably less than the average degree. Yet, a little figuring indicates that if their work were equally distributed the individual bee would have to do very little in order to make a very busy-looking hive. Cook estimates that a hive has from 1,500 to 40,000 workers. Assuming a hive of 20,000, and having each worker making five trips a day for pollen, gives a steady stream of bees with pollen entering the hive at the rate of 2.3 bees per second, for twelve hours of the day, This would make a quite active-looking hive .- "American Beekeeper."

Bee-keeping as a Business

(By E. W. Alexander.)

When our attention is called to some 6-7 w line of business, usually our first loughts are, "How much money can make out of it?" or "How many ollars can be made annually clear of expenses from a given amount of pital invested?" While I will adthat these are questions of much portance-questions worthy of due being msideration—there is still one quesning in m which is of particular importance rences in say, we seldom think of. That is ig from a m I naturally qualified for that it to m and of business? If so, then I have anges in the principal requirements of success. They love all others, which, I am sorry

If not, then no amount of hard study or labor can fully take the place of my inability to fulfil its requirements." Oh how many of us spend our whole lives like water seeking its level, and never find the business that God fitted us best to follow? My young friend, if you have any thought of taking up bee-keeping as a business, then think this business over carefully before you invest much money. My advice would be to work one summer, at least for some scuccessful honey producer -one who would take pains to teach you all he could in regard to rearing rincipal requirements of success. queens, forming nuclei, increasing