## April, 1912

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absence of light. hour's time may process going on me apparent that d of time, millions formed. ' When the exhausted, these hange into spores. of cither heat or npression on these ev are in a double mericans at times of drugs in this " for foul brood. t use this prevenwledge that they 1 a strong hive by o resist the germ the spore stage,. litions enable the rms, the effect is, most noticeable e trouble develops. s is, in my eyes, ire, and this can advanced stage by of all internal fitughly disinfecting re is certain. All hort of perfection. t, the hive is dis-

a Annual Report, e January issue of hat foul brood is g over wide areas. nd its ravages are iere drastic measorted to. Section s what I have al-)estruction by fire ents where the ex-; in its virulent or scovered." Where uppurtenances that d." they, too, are ery pleased to find hus resolved to go atter.

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more malignant and insidious disease, compared with which either form of foul brood is a mere bagatelle. This Isle of Wight disease in all its stages is like the pestilence which walketh in darkness, as the evil has such a hold before its presence is fully recognized that trying to cure it is mere child's play.

#### STRONG COLONIES FOR SPRING

# indexed By F. L. Pollock.

In our northern climate the period for breeding up before the honey-flow is short. Seeing that it takes nearly a month to produce a field worker from the egg, and that clover does not usually begin to yield until about the middle of June, eggs laid later than the last of May will be of little use for the main honey-flow. Breeding also seldom begins to any extent until the latter part of April, and it will be seen, therefore, that there is little more than a month in which to bring the colony from its winter condition to its full strength. This is really not long enough and the bees need all the help that can be given them.

To get strong colonies in the spring, it is necessary to begin the autumn before and have strong colonies in the fall. The more bees in the hive in November, the more there will be in March, and in the early weeks of spring a prolific queen is not so much needed as plenty of bees. Almost any sort of queen will lay more eggs than her bees can take care of in April.

At that time of year, it is a question of a comparatively small force of bees having to keep a large quantity of brood warm, and nothing in the world will help the colony so much as a warmly-protected hive. Where bees are wintered in the cellar, paper wrappings will help, but nothing is quite so good as a well-packed chaff hive, in which

the colony remains all winter and up to the honey-flow-and then they may as well stay there through the summer and up to winter again. The chaff hive keeps them cool in summer as well as warm in winter, thus having a tendency to retard swarming. It is very rare for a chaff hive to be robbed, even though it contains only a weak nucleus, for robbers dislike to venture into a long, dark tunnel like the bridged entrance to a packed hive. Another very great advantage is that before the honey-flow a good queen will fill practically every frame with brood. In my packed hives I commonly find by the first of June even the outside frames next the hive wall filled with brood. This leaves no place to put the white honey in but in the super. Later in the season the queen lays much less vigorously, and leaves plenty of room in the brood chamber for winter stores gathered during the fall flow, if there is one, or fed to the colony by the beekeeper, who will provide sugar syrup, which is cheaper and better than clover honey.

### Ten-Frame Hive Preferred

Other things being equal, I consider a protected ten-frame hive more than equal to a twelve-frame hive without protection. It will produce as large a force of bees, and when the honeyflow comes, the brood chamber will contain a solid mass of bees and brood, leaving no storage room but in the super.

However, twelve frames can be used for brood, even in the ten-frame hive. I put on the extracting supers at fruitbloom time, with excluders under them, and at the same time I raise two frames of brood into the super, replacing them by frames of foundation in the brood chamber. This foundation will be drawn out and filled with eggs in a few days, making actually twelve frames used for brood-rearing. This also produces two more extracting combs per colony,

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