

3, and one species from Antigua. The large number from Arctic America is surprising, and would lead one to think that the number given for the more southern parts is not correct. The Arctic species, however, are peculiar to that part of the continent, only three of them being found in Hudson Bay Territory, and only one of them coming as far south as Canada. Many of the other species are also local, but some are found over a wide area. Thus *virginicus* is found all over Canada and the United States east of the Rocky Mountains, *vagans* from Canada to the west, *fervidus*, *pennsylvanicus* and *separatus* the same, and *ternarius*, the only Arctic species found in Canada (according to Cresson), seems to extend also over the North-Eastern, Middle and far Western States. Britain possesses about 40 species.

The common name, Humble Bee, is said to be derived from Hummel or Hummer Bee, alluding to the noise made by the wings during flight. In Scotland the largest species found there is called the Bumbee.

In North America the Humble Bee is the nearest approach we have, as far as indigenous Bees are concerned, to the Hive Bee. The latter (*A. mellifica*), however, has become naturalized on this continent in the forests to a considerable degree beyond civilization, making its nests in hollow trees, or among the branches, sometimes under ledges or in clefts of the rocks. It is said not to have been found to the west of the Mississippi before 1797, but in 14 years it had advanced 600 miles further in that direction. I have never heard of the Honey Bee becoming wild in Canada, but it probably would if neglected when swarming takes place.

To return, however, to the Humble Bees. They do not form communities so large as Honey Bees, seldom more than two or three hundred occupying one nest, in some species not more than fifty or sixty. The community is dissolved on the approach of winter; the males and workers die, and only females have the power of passing the winter in a torpid state, among moss, in rotten wood, or in some other situation where they may enjoy protection from frost and concealment from enemies—to perpetuate the race by founding new communities in the ensuing spring. Workers are chiefly produced in the earlier part of the season, males and perfect females in the latter part of it. The females are much less prolific than those of Honey Bees, and seemingly as a kind of provision for this deprivation, they, unlike the Honey Bees, live in the same community without seeking to destroy one another, provided they belong to the same colony or nest.