These notes on bees were made by an invalid. Miss Emma Mahew, whose cheerfulness and
interest in life is of the spirit which nothing so interest in life is of the spirit which nothing so material as pain or monotony can dit.
OBSERVATIONS BY AN INVALID. Emma Mahew.

I have an observation hive of bees in my room window. The sides are glase, thus giving an opportunity of observing all that goes on in the interior of the hive. A narrow board was securely screwed on the window sill for the window to sbut upon. There was a bole in this board just large encugh for the extension of the bottom board of the hive to pass through, and through this was the exit for the bees. So you see thera was not the least chance for the could enjoy watching them without fear of being disturbed by them.
They never showed any indication of fear either. In fact, did not appear conscious of being observed.
Every recollection of them is so charming that I scarce know where to begin, or what to select for description. There was but one frame of comb in my hive, eo it only housed a few thousand bees. There was one queen, perhaps a score of dronea, and the rest were workers. When my nephew brought them to me and had set up the hive, I asked him to point out the queen to me, but being in haste he merely told me that I would know her as soon as I saw her, without any showing. This seemed to me very doubtful, but it proved to be true. She was a little larger than the workers and more slender than the drones, and had an entirely diferent liness in the absurd to epeak of statething, and yet it perfectly deecribes her carriage when she was walking about inspecting her field of operations. Her soul duty and occupation is laying egge. And you will say that this is quite enough to expect of her when you realize that an active queen deposits probably a hundred thousand in a seacon, and each ove of these is in a cell by itself. She carefully inspects a cell, and when it is empty and in satisfactory order, she turns and deposits an egg in the far end of it, and at oncu passes on to the next. Several bees attend upon her constantly, and every few minutes feed her. At frequent intervals she becomes apparently quite exhausted by her efforts, and it is very amusing to see the lackadaisical manner in which she indicates ber fatigue, lifting first one foot and then another and letting them fall as though limp and helplees. Then ten or a dozen of the workers gather about her, as thick as they can stand, all heading towards her, and diligently stroke her lege and back as though they were giving her a regular maseage. This they continue until she is sufficiently refreehed, which she shows by suddenly walking off, the attendanta backing out of her way with all poseible speed.
Of course, in the hive there is no chance for flying, and they all walk about to do their work, and it is curious
to see how they walk over or under instead of around one another, seem ingly too intent upon their destination to notice obstructions in the route.
How They Make Honey.

When they come in loaded with pollen they have the most important and businese-like air imaginable, hastening to some suitable cell and vigorously shaking off their loads. I had never realized before bow many different colored pollens there are; every shade of yellow from the palest straw to deep orange, different shades of red, lavender, etc. This they use, I think, in making bee bread. The honey is deposited in separate cells, but is mixed with the pollen before feeding to the larvae.
The nectar gathered from the flowers is carried in an interior sac where it is transformed into honey, and by doub ling the tongue so it forms a sort of trough they run the honey into the celle. This generally is too thin to be umediately eealed up, so they evaporte it by fanning with their winge. To this four bees would stand together movements, like little merry-go-rounds, their wings moving so rapidly that they were almost invisible.
When the hive gets too hot and needs ventilating, the bees get in line and fan violently till the temperature becomes satisfactory.
Our beee were Italians, a sort of brown color, with yellow bande. When in the hive they looked comparatively dull and dark, but when flying in the sun eeemed as clear as amber. They look very pretty when flying for the firat time; which is four or five days after they are hatched. It wocld seem to be announced through the bive, as there would be a general stir and appearance of excitement, meesengers runoing to and fro, and then a rush for the exit. When outaide they circle around a few minutes, all headed towards the hive, apparently getting their bearings and enjoying using their winge, but not venturing much of a flight. After two or three such experiments they go out in search of flowers, and then, it is said, they often go several miles.

We, you know, are on the third floor a down-town apartment house, and 1 fancy some of our neighbors thought us very inconsiderate of the comfort or safety of others, when they heard we were to have bees in such a locality. But no one was disturbed by them, for, Etarting from such a height they remained up in the air until approaching flowers.

This I cannot speak of from observation, but it is truly wonderful how muci of their indoor life can be seen, and how fascinating it all is.

The Yogng Beps
My enthusiasm is almcst beyond the power of expression whea I think of the
pleasure such a hive of bees affords an invalid. There is no noise or commotimn, and yet such a variety of interest. You can see the tiny egg depositea, a little white thing, resembling in size
and shape a very small grain of rice,

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C. M. SEPY'TZ, zieqzonotreist:

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stuck in the bottom of a cell. In three find time to play most of the games or four days the larva is hatched, and which active boys enjoy. You fancy I being bountifully fed by the young beee, am drawing on my imagination now who are the nurses, it growe very rapid- but a few hours watching would con$y$ and soon nearly fills the cell. The vince you to the contrary.
bees add a supply of food and cap the
cell with wax. In due time. about three weeks after the egg was laid, the full grown bee emerges. When the outside bees observe that the nymph is
gnawing her way out, they each as they pase by give a nip or two at the opening which thus soon becomes large enough for her to pass through. She steps out and looks about in a half dazed way for moment, then carefully removes the veil from her head, and deftly makes her toilet.
She then reminds me of a little Quaker maiden, being light colored and fragile in appect (like a plant grown is he dark) with her dainty winge, which have never yet baen spread, fulded so demurely by her sides. You know the bees require large winge for their long lights, but as they often have to work a cell, they have a pair of wings on each side which they hook together and apread out as one when flying, but when nhooked slip one under the other so they take up little room as they go into the cell. Ot course we could not see heee hooks except with the aid of a microscope. But we could, with the aked eye, see their dear little tongues! Doesn't that seem almost incredible? There were openings for ventilation in the top and ends of the hive, which were covered with wire netting, and if a lump of moist sugar or a string wet with hongy were held close to one of them, the bees would be at once atracted and dart forth their tiny red ongues, which I should think may be $n$ eighth of an inch in leagth and as arge as a flice sewing needle.
It is because you have so wide a cirle of acquaintances that I am sure you net many persona to whom ach a family of visitors would be a delight, that I have attempted such a engthy description of what makes an deal pastime for an invalid; is invaluable in a nursery to amuse and instruct the little ones; and would be a perpetual deligbt is a home for incurables or convaiescents.
o in bringing up their which the bees toring up their their large families,
d bringing in an abundance of honey it coneumption, pollenating the

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