SCI 100 Question Development Worksheet

[Name of the Writer]

[Name of the Institution]

1. This news story has been selected due to the sharp decline in Wild bee's population. The cause of the sharp decline of bees; urbanization has personally attracted me to select this story (Paul Glaum, 2019). The story is interesting scientifically as these bees are indispensable pollinator and if their population is declining sharply then this is indeed an alarming situation.
2. I already have an idea about wild bees and their role in pollination. These have always attracted me in the natural world. I was assuming that they would have a larger population all over the world due to their assumed benefits for mankind. Moreover, I was also thinking about the effect of climate change over the population due to the drastic weather conditions prevailing in today’s world.
3. The concept of the sex ratio of wild bees and its effect over their population. Female and male bees of the same species have the potential to pollinate different plant species. This causes a decline in female bee's number and this, in turn, results in limiting pollination services by these bees in that area. Female bees require more food and in case of scarcity of pollen and nectar, there will be more male bees.
4. I would like to focus on the question” What are the long term effects of reproductive ability of bees on their population?”
5. This question is important to a natural scientist as he would be interested in increasing bee's population and working to remove the effect of different factors in declining their population such as climate change, urbanization, habitat loss, parasites and disease as well as the use of different pesticides (Potts et al., 2010). He would suggest different ways to increase female bee’s number in the community and getting the desired sex ratio within their population.

References

Paul Glaum. (2019, March 6). Impact of urbanization on wild bees underestimated.

Potts, S. G., Biesmeijer, J. C., Kremen, C., Neumann, P., Schweiger, O., & Kunin, W. E. (2010). Global pollinator declines trends, impacts and drivers. Trends in ecology & evolution, 25(6), 345-353.