



The impact of governmental legislation in the field of bee on queen characters and productivity in Egypt

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INTRODUCTION



Egypt occupies privileged location in the middle of the three continents of the world, which makings to be a center for the production and marketing of bee products, especially for the mild climate throughout the year.(abdelaal ,et al 2009).

The honey bee, *Apis mellifera* L., is critical not only for honey production but also for crop pollination. (Harbo and Harris, 2001).

INTRODUCTION

Societies with high reproductive skew, such as social insect colonies, differ from most animal societies in that the entire group's reproductive output is typically channeled through just one reproductive female. A consequence of this feature is that the entire group's fitness depends greatly on the "quality" of this female.

Ministerial Decree No. 1600 of 2005, as amended by Resolution No 2007 of 2001 Article 59 "is prohibited to import honeybees from abroad in any form of image (queens - combs - Comb less swarms).

INTRODUCTION



The governmental intervention in the field of beekeeping led to the deterioration of the industry that includes more than 50,000 beekeeper.

Therefore the current study aimed to:

1-Measuring the impact of some biometric characteristics of breed queens.

2-Measuring the efficiency of these queens in the brood production.

3-The size of the production of these strains after multiple generations and inbreeding.

4-compared to the current results of some previous studies on the issuance of the ministerial decree to know the extent of its impact.

MATERIALS AND METHODS

Experimental Honeybee Colonies: The field part of the present investigations was carried out in two special apiaries (located at Sharkia and Dakahlia governorates), during spring season of 2011, 2012 .

Twenty colonies of the two hybrid Carniolan and Italian honeybees, (*Apis mellifera*) L. Used colonies in this study were established in a 10-framed Langstroth hive, and used for the full period of the study, which extended from the beginning of February 2011 to October 2012.

MATERIALS AND METHODS

Experiment 1:

In this experiment, transfer of larvae followed practices established in commercial queen rearing (Laidlaw and Eckert, 1962). 12 and 24 hours after hatching, single larvae were grafted into the queen cups, one larva to a cup. Cups with sibling or unfamiliar larvae were placed alternately on horizontal bars. Each colony received 20 own larvae and 20 others belonging to the other race. This experiment was repeated 9 times in each season. The number of grafted larvae of each type initially accepted was recorded one day after grafting.

MATERIALS AND METHODS

Experiment 2:

Some characters of reared queens, this experiment used the rest of the queen cells were placed in an incubator and the queens were weighed just after emergence.(queen weight , Dry ovary weight, Thorax width, Thorax length, Wing length , Wing width , Spermatheca diameter, and Spermatheca volume)

MATERIALS AND METHODS

Experiment 3:

Characters of some bee products (broods, honey , pollen and royal jelly), this experiment used the colonies of the two races Carniolian and Italian and all bee products were weighed(broods, honey , and pollen) and three grafted times to produce royal jelly in three colonies of the two races.

CONCLUSION

The governmental intervention in the field of beekeeping led to the deterioration of the industry that includes more than 50,000 beekeeper, without searching for alternative ways to prevent the import and which directly affected the productivity of colonies and production quality and marketing of queens and various bee products. Perception that governmental intervention in the trade of bee products is the protection of the environment Egyptian perception of improper and does not help to increase our exports of bee products and should therefore cancel the prohibitive laws to import strains of bees to promote the industry



THANK YOU