



## **2. PLANT SOURCE OF APIARY HONEY**

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### **ABSTRACT**

Apiculture, culturing of bees / bee keeping expanded in to a small business. Honey has a long distinguished history in the human diet. Employing both sound beekeeping and business practices can generate a substantial income from the sale of honey. Apiculture can use as co-business with farming which has the potential to improve the economic status of the farmer. If we can able to identify the source of honey then we can use these honey to cure particular diseases. In this paper we have tried to confirm the plant source of apiary honey by studying the micro morphology of pollen grains.

**KEY WORDS** – raw honey, plant source, pollen grain, nectar, bees, farm

### **INTRODUCTION**

Apiculture, the study and keeping of bees, can be expanded into a small business. A beekeeping enterprise can provide marketable honey and serve as a source of pollinators for nearby cultivated crops. Honey has a long and distinguished history in the human diet. For thousands of years honey hunters have plundered the hives of wild bees for their precious honey and bee wax – a practice still common today.

Locally produced honey can be an attractive addition to the mix of produce offered at farm stands and gift shops. Those who employ both sound beekeeping and business practices can generate a substantial part-time income from the sale of honey. Honey bees contribute directly to local food production and make an important contribution, through pollination, to crop production.

Honey consists mostly ( $\pm$  80%) of sugars that are readily absorbed by the body. It is therefore an extremely suitable food for children, sick people and those who perform heavy manual labour. It can be used as a sweetener for food and drinks, to treat superficial wounds and throat complaints. It is a pleasant-tasting food and an effective medicine. It has a high economic value and is therefore a good trade commodity.

### **OBJECTIVES:**

1. To assess the alternative source of honey obtained from the near plant source through the study of different pollen grains under microscope.
2. To know the medicinal use of apiary honey as a plant source.

### **HYPOTHESIS:**

“The honey source (plant) contributes in the properties of honey.”

### **ASSUMPTIONS:**

- Plant source which helps in the formation of honey has its (plants) medicinal values.
- Helpful for curing the diseases as a home remedies.

### **MATERIALS AND METHOD:**

The experimental material in the present study consisted of 9 samples of apiary honeys belonging to the various sites and locations( Nashik, Sinnar, Ajmer, Alibagh,). The tested honey samples were in the form of apiary honey.

Each apiary honey was placed under the simple microscope and compared with the standard sheet of belonging sources.

For this research Simple Random Sampling Method has considered.



#### DATA ANALYSIS

Sr.No.	Sample No.	mi	colour	Obtained Sample	Scientific Name	Place	Medicinal Use
1.	Sample 1	2	Black	Grape	<i>Vitis</i>	Nasik	To treat constipation, fatigue, indigestion.
2.	Sample 2	2	Brown	Tomato	<i>Solanum lycopersicum</i>	Nasik	To improve digestion, To prevent constipation.
3.	Sample 3	2	Golden	Chilies	<i>Capsicum frutescens</i>	Nasik	To increase the appetite, To prevent diarrhea, Prevent from pain and numbness.
4.	Sample 4	2	Orange	Pomegranate	<i>Punica granatum</i>	Sinner	Maintain of dilution of blood, Reduce dental plague.
5.	Sample 5	2	Pale yellow	Guava , Pear	<i>Psidium guajava</i> , <i>Pyrus communis</i>	Nasik	To treat stomach ache, Contains dietary fiber.
6.	Sample 6	2	Fresh yellow	Cotton	<i>Gossypium</i>	Ajmer	Reduce fever, headache and diarrhea.
7.	Sample 7	2	Off white	Coriander	<i>Corriandrum sativam</i>	Sinner	Helps for removing pimples and Dry skin treatment.
8.	Sample 8	2	Yellow	Potato	<i>Solamun tuderousum</i>	Nasik	To treat stomach ache.
9.	Sample 9	2	Off white	Coconut	<i>Cocos nucifera</i>	Alibagh	To burn the body fats.



The above data shows that every honey has its plant source(s) which consist of medicinal values in it.

### **CONCLUSIONS**

- ✓ It was found that plant sources contributes the medicinal values in the honey which helps in the curing the diseases.
- ✓ It has a very good venture as an alternative source of income and has the potential to improve the economic status of the farmer.

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