

# Aerobiological Spectrum of Airborne Ascospores over Bajra Fields

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**Abstract:** *The present investigation deals with the incidence and atmospheric concentration of air borne ascospores, recorded while conduction of aerobiological experiment over Bajra as a Kharif crop. Occurrence and variations of air borne ascospores at two different seasons, I (05/07/2022 to 09/10/2022) and II season (20/06/2023 to 22/09/2023) have been observed over Bajra fields. The investigation was carried out with the help of 'Tilak air sampler.' From the present investigation, it was evident that, the maximum concentration of ascospores were recorded (90440/m<sup>3</sup> of air) during the rainy season. It also becomes very clear that, there is a close relation between rainfall and release of ascospores, which is evident from the lowest concentration of ascospores during dry weather conditions. The maximum numbers of ascospores were found more during the night hours than day hours. The meteorological data was maintained throughout the seasons of the crop to find out the correlation with airborne ascospores in the atmosphere..*

**Keywords:** Ascospores, Airspora, Kharif, Bajra fields, Tilak air sampler