

SEASONAL VARIATION IN MICROBIAL BIOMASS ON PHYLLOSHERE OF DIFFERENT FRUIT TREE SPECIES

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Abstract: The aim of the present study was to analyze seasonal variations in phyllospheric microbial biomass of different fruit tree species. Leaf samples were collected from seven fruit tree orchards viz. mango, guava, *aonla*, *ber*, bael, jamun, sweet orange during summer, rainy and winter season for estimation of microbial population. In phyllosphere of different fruit tree orchards maximum TBC was observed in mango during summer, jamun during rainy, *aonla* and sweet orange during winter season. Highest diazotrophs were observed in *aonla* during summer and in jamun phyllosphere during rainy and winter season. Microbial populations and fungal count decreased by 13.06 % to 42.02 % from summer to rainy season, whereas increased by 10.80 % to 32.39 % from rainy to winter season in respect to phyllosphere of all the fruit tree species.

Keywords: Fruit tree species, Phyllosphere, Microbial Population

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