

Abstract Details

Title: Spatial Analysis of Horse Distribution in Haryana

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Abstract: Haryana has a small equine population of 0.39 lakhs (18th livestock census, 2007) which is comprised of 19,658 horses, 10,772 mules, 3,920 donkeys and 4,247 ponies. In this study the Horse species is analysed, Moran's I coefficient of autocorrelation was used to investigate the spatial distribution of Horses to analyze clustering of the population in Haryana using Tehsil as a real unit. Equine census data was used to link the heterogeneity in the Horse distribution with regard to agro-ecosystems and other environmental factors related to agro-ecological zones in the state of Haryana. Comparatively lower population density (0 - 0.5/ sq km) of horses was observed in south western Haryana. Moran's I statistic revealed that the distribution of all types of equines was clustered. The distribution of the horses was characterized in terms of agro-ecosystem prevalent in the area. This ecosystem approach to characterize livestock distribution is useful in livestock production systems research planning.

Keywords: Study the Horse species, Spatial Analysis, Agro-Ecological Zones.