



Noise Pollution Mapping of Rawalpindi City, Pakistan

Sheikh Saeed Ahmad^{1,*}, Hina Aslam¹, Nazish Adnan², Tauqeer Izhar³

¹Department of Environmental Sciences, Fatima Jinnah Women University, Rawalpindi, Pakistan; ²Department of Geography, Federal Post Graduate Degree College H-8 Islamabad- Pakistan, ³Survey of Pakistan

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Abstract: The major objective of this research is to support the decision making process involved in human health assessment by enabling urban administrators to identify areas seriously effected by traffic-induced noise pollution. The delimitation of such areas can be the first step in the implementation of plans for reducing noise pollution levels in densely populated cities. Measurements of environmental pollution made through instruments tend to be point-based and fail to represent the aerial spread of the concerned pollution around the sampled points. In this paper, a database of peak and of-peak noise level readings obtained in the field was generated and was integrated into ArcGIS. Maps depicting the spatial distribution of various noise intensity levels were generated using inverse distance weight (IDW) interpolation technique, leading to the identification of zones of maximum noise pollution.

Keywords: *Traffic, Noise, Pollution, Rawalpindi, Pakistan*

*Corresponding: E-Mail: drsaeed@fjwu.edu.pk; Tel, 00 92 321-5167726; Fax: 00 92 51 9271170