

Effect of Seasonal Temperature on Fine Particle Pollution in Ambient Air of Lahore City

M. Nadeem*, B. Zaheer, A. Farooq, J.H. Shah

EPA, Punjab-Pakistan

Received April 10, 2011; Accepted August 15, 2011

Abstract: The air, we breathe is acknowledged as ambient air. The fuel burning anthropogenic activities especially in metropolitan areas have deteriorated the quality of ambient air by accumulating fine particulate matter (PM_{2.5}) in it. This supplement of fine particulate matter is going to threaten hale and hearty life. The level of particle pollution is declined by intensifying metrological parameters like temperature, wind Speed/ direction; level of rains. Our present study only indicates the effect of seasonal temperature on fine particle pollution. Our selected data on seasonal fluctuation of fine particle pollution is free from the effect of wind speed/direction, level of rainfall except temperature. The purpose of assembling data in this pattern is to confirm the pure effect and intensity of seasonal temperature on fine particle pollution. Our study divulges, the fine particle pollution in ambient air has been declined almost to its lowest amount by elevating seasonal temperature (summer season).

Keywords: *anthropogenic, metropolitan, metrological parameters, seasonal fluctuation, particle pollution.*

*Corresponding: E-Mail: mnadeemteo@gmail.com Tel: +92-312-4422054; Fax: +92-42-35912059