



# Climate Change, Air Pollution and Global Challenges: Chapter 18. Impacts of Air Pollution and Climate Change on Plants: Implications for India (Developments in Environmental Science)

Vivek Pandey, Elina Oksanen, Nandita Singh, Chhemendra Sharma

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The air pollution and greenhouse gas emission problem has been exacerbated in India due to large population increase and rapid economic growth. The Indo-Gangetic Plains of Northern India, one of the most fertile regions of the world, has become one of the most polluted regions. The region has emerged as a 'hot spot' for air pollution, especially ozone (O<sub>3</sub>), threatening food-grain production. The air quality data show large parts of India suffering from high pollution load. Unfortunately, O<sub>3</sub> monitoring is still in its infancy. There are reports of O<sub>3</sub>-caused yield and biomass losses in crops ranging between 10% and 51%, offsetting a significant portion of the Gross Domestic Productivity growth rate. There are no O<sub>3</sub> experiments conducted with Indian tree species, but the crop losses suggest that O<sub>3</sub> may have a deleterious impact also in long-lived trees in the Indian area. There is a critical need to study how O<sub>3</sub> will impact trees and forest ecosystems.



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