

CHAPTER 56

TECHNOLOGY APPLIED SCIENCES

Doctoral Theses

619. SAHAI (Shivraj)
Trace Gases Emissions from Field Burning of Crop Residues.
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Abstract

Develops scientific understanding about FBCR related emissions for Indian region. Rice, wheat, sugercane, cotton, maize, millets, groundnut, jute and rapeseed and mustard are the major residue generating crop in India. Field experiments to study emission from in-situ burning of crop residues were undertaken in the Indo-gangetic plains that gave India specific emission factors and its characteristics to check and improve the Indian estimates and understand the emissions from FBCR in India.

Contents

1. Introduction. 2. Literature review. 3. Materials and methods. 4. Residue generation and emission estimates. 5. Study of emissions from field burning of wheat residue. 6. Study of emission from field burning of rice residue. 7. Impact of field burning of crop residues on local ambient air quality. 8. Summary and conclusions. Bibliography.