

ISSN 0973-032X

JOURNAL OF AGRICULTURAL PHYSICS

Vol. 11

Nos. 1&2

2011



Indian Society of Agrophysics

Division of Agricultural Physics
Indian Agricultural Research Institute
New Delhi - 110 012
<http://www.agrophysics.in>

Journal of Agricultural Physics

Vol. 11

Nos. 1&2

2011

CONTENTS

Commentary

- Quantum Physics and New Biology: The Emerging Paradigm Change. A.V. MOHARIR ... 1

Review Article

- Emerging Crop Pest Scenario under the Impact of Climate Change – A Brief Review. D.K. ... 13
DAS, JITENDRA SINGH AND S. VENNILA

Research Articles

- Derivation and Validation of Pedotransfer Functions for Point Estimation of Soil Moisture in ... 21
Sandy to Clayey Soil Texture. MADHUMITA DAS AND O.P. VERMA

- Geoelectrical Investigations for Shallow Ground Water at Few Villages Located in a Canal ... 26
Command Area of Odisha. SHISHIR RAUT

- Evaluating the Effect of Irrigation on Crop Evapotranspiration in Wheat (*Triticum aestivum* L.) by Combining Conventional and Remote Sensing Methods. S. CHATTARAJ, D. ... 35
CHAKRABORTY, R.N. GARG, RAVENDER SINGH, G.P. SINGH, V.K. SEHGAL, R.N. SAHOO, S. SINGH, V.K. GUPTA AND DEEP CHAND

- Modification of Hydrothermal Regimes through Soil Management Practices. PRAGATI ... 53
PRAMANIK MAITY, PRAMILA AGGARWAL AND P. DEY

- Characterization of Groundwater Quality for Irrigation in ‘Gohana’ Block of Sonepat District, ... 63
Haryana. S. PRADHAN, H. CHADRASEKHARAN, N. JAIN AND B.R. YADAV

- Spatial Variability of Satellite Derived Rainfall Erosivity Factors (R-Factors) for a Watershed ... 71
near Allahabad. KISHAN SINGH RAWAT, ANIL KUMAR MISHRA, VINAY KUMAR SEHGAL AND VINOD KUMAR TRIPATHI

- Water Deficit Patterns for Cultivation of Rainfed Rice in the Lower Gangetic Plains of West ... 79
Bengal. SHIBAMOY DEY, SAON BANARJEE AND ABHIJIT SAHA

Short Communications

- Assessment of Aeolian Sand Affected Wasteland Area in Sirsa District using Remote Sensing ... 84
and GIS. AMIT KUMAR, SHASHIVIND MISHRA, KISHAN SINGH RAWAT AND VISHAL SINGH

- Influence of Weather Parameters on Yield and Yield Attributes of Areca Nut (*Areca catechu* L.). K.M. Sunil, V.S. Devadas and Susamma. P. George ... 88