



# JOURNAL OF SOIL AND WATER CONSERVATION NEW SERIES

Vol. 17, No. 2

ISSN: 0022-457X

APRIL-JUNE 2018

## Contents

<b>Fly ash: An alternative cheap source material for seepage control in soil conservation structure</b>	111
J.C. PAUL and B. PANIGRAHI	
<b>Landuse effects on structural stability and soil organic carbon in the submontane areas of north-western Himalayas, India</b>	117
VIJAY KUMAR, K.R. SHARMA, VIVAK M. ARYA and VIKAS SHARMA	
<b>Soil properties in relation to available nutrient status under different land use systems in hilly region of Poonch, Jammu &amp; Kashmir</b>	123
A.P. RAI, TAJAMUL ISLAM SHAH, A.K. MONDAL, A. SAMANTA and M.C. DWIVEDI	
<b>Scheduling irrigation in a selected Panam canal command in Panchmahal district for optimum water use</b>	127
DEEPAK KUMAR and M.K. TIWARI	
<b>Hydraulic performance of drip system of irrigation as influenced by different operating pressures</b>	134
RADHIKA SAHU, JITENDRA SINHA, KHOMENDRA SAHU and R.K. SAHU	
<b>Prediction of rainfall in Dachigam catchment and generation of time series autoregressive model</b>	140
SHEIKH UMAR and JUNAID KHAN	
<b>Soil nutrient balance and performance of basmati rice under organic nutrient management</b>	149
ANURADHA SAHA, VIJAY BHARTI and P.K. RAI	
<b>Balance sheet of soil nutrients as influenced by soil fertility levels in different varieties of aerobic rice (<i>Oryza sativa</i> L.)</b>	154
SANDEEP KUMAR, SARABDEEP KOUR, MEENAKSHI GUPTA and KARTIKEYA CHOUDHARY	
<b>Time area histogram models for Himalayan watersheds</b>	160
M.P. VERMA, MANISH SINGH and R.A.S. PATEL	
<b>Determination of crop evapotranspiration and partitioning of bare soil evaporation of mustard using weighing type field lysimeters</b>	169
A. GUPTA, A. SARANGI and D.K. SINGH	

All disputes are subject to the exclusive jurisdiction of competent courts and forums in Delhi/New Delhi only. The Society does not assume any responsibility for opinions offered by the authors in the articles and no material in any form can be reproduced without permission of the Society. The Society is not responsible for any delay, whatsoever, in publication/delivery of the periodicals to the subscribers due to unforeseen circumstances or postal delay. Readers are recommended to make appropriate enquiries before sending money, incurring expenses or entering into commitments in relation to any advertisement appearing in this publication. The Society does not vouch for any claims made by the advertisers of products and services. The publisher and the editors of the publication shall not be held liable for any consequences in the event of such claims not being honoured by the advertisers.

<b>Strategy for increasing production and conservation of wood from farm land for raising farmers income</b>	176
V.K. BHARTI and SURAJ BHAN	
<b>Temperature effects on pathogen inactivation in stream water and sediment</b>	185
PRAMOD K. PANDEY, YI WANG, YAWEN ZHENG, AARUSHI AGRAWAL, VENKATA VADDELLA and SAGOR BISWAS	
<b>Comparison of soft-computing and statistical techniques in simulating daily river flow: a case study in India</b>	192
ANURAG MALIK and ANIL KUMAR	
<i>Short Communication</i>	
<b>Suitability evaluation of minor millets in Ponnaniyar basin soils of Tiruchirapalli, Tamil Nadu</b>	200
V. SABAREESHWARI and M. BASKAR	

---

#### **ACKNOWLEDGEMENT**

*Our sincere thanks are placed on record to the Indian Council of Agricultural Research (ICAR), New Delhi for the grant of Financial support for the publication of journal of the Society.*

---