

JOURNAL OF SOIL AND WATER CONSERVATION NEW SERIES

Vol. 20, No. 2

ISSN: 0022-457X

APRIL-JUNE 2021

Contents

Soil and Water Conservation in the Himalayan region: must to increase and stabilize crop yields C.L. ACHARYA	119
Assessment of predicted and measured hydraulic parameters of different textured soils of Haryana SEEMA, RITA DAHIYA, V.K. PHOGAT and H.S. SHEORAN	131
Remote sensing and GIS application for land resources appraisal of Ridhora watershed in Nagpur district, Maharashtra OMMALA D. KUCHANWAR, V.V. GABHANE and SAGAR N. INGLE	139
Evaluation of parameters of SCS-CN-based models for prediction of runoff from watersheds of Jharkhand, India AMARNATH AZAD and RAM KUMAR SAHU	154
Development of RRL AWBM model and investigation of its performance, efficiency and suitability in Shipra River Basin AYUSHI TRIVEDI, R.V. GALKATE, VINAY KUMAR GAUTAM and S.K. PYASI	160
Management of community water storage structures in Indian villages – a case study on measuring performance V.C. PANDE, P.R. BHATNAGAR and B.K. RAO	168
Prospect of traditional dug wells for harvesting rainwater in Bastar region of Chhattisgarh: A case study ADIKANT PRADHAN, S.K. NAG, T. CHANDRAKAR and A. KERKETTA	177
Development and field evaluation of a low-cost automated drip irrigation system NAVNEET SHARMA, ABDUL HAKKIM V.M. and ATUL KUMAR SINGH	188
Spatial and temporal variability of dry spells in Akola district SHIVAKUMAR ANNA, G.U. SATPUTE and S.M. APTURKAR	195
Ammonia volatilization from flooded rice soil using CAS and OSC methods VANITHAS., V. RAVIKUMAR and T. SHERENE JENITA RAJAMMAL	202
Effect of clay mixing, irrigation and sulphur levels on soil fertility and productivity of mustard (<i>Brassica juncea</i> L.) ARVIND KUMAWAT, B.L. PAREEK and N.K. PAREEK	208

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.

Split application of potassium improves yield and potassium uptake of rice under deficient soils	213
SEEMA SHARMA and JAGDISH SINGH	
Nitrogen use efficiency and soil fertility as influenced by integrated nitrogen management and foliar spray of iron in groundnut on Typic Ustochrept N.K. PAREEK and SHRI RAKESH	220
Enhancing yield and profitability from pulses cultivation by technological intervention using cluster approach in Sitapur district of Uttar Pradesh AMBREESH SINGH YADAV	225
Short Communication	
Hydrological modelling of river basin in agriculture area by using soil and water assessment tool B.R. JALGAONKAR	233

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.