



# JOURNAL OF SOIL AND WATER CONSERVATION, INDIA

Vol. 24, No. 1

ISSN: 0022-457X

JANUARY-MARCH 2025

## Contents

<b>Advances in the prognosis of soil salinization and sodification for sustainable soil and water management</b>	1
ILDEFONSO PLA SENTÍS and SANJAY ARORA	
<b>Mitigation of climate change impacts by intensive rainwater harvesting, unproductive waste lands development and intensive plantations in a vulnerable semi-arid ecosystem of Rajasthan</b>	17
S.S. GREWAL	
<b>Mapping of the fallow land using Landsat imageries for utilization of cropping area in Tamil Nadu, India</b>	27
R. SRINIVASAN and V. RAMAMURTHY	
<b>Assessment of summer paddy water requirements: An analysis at mid plains of Chhattisgarh</b>	37
NILESH KUMAR, NARENDRA AGRAWAL, DIWAKAR NAIDU and NILIMA JANGRE	
<b>Application of innovative data-driven techniques for modeling reference evapotranspiration</b>	47
J.C. PAUL, P.K. PARAMAGURU and SAIDIPA SWAIN	
<b>Assessment of drought using Standardized Precipitation Index (SPI) for Yusmarg area of Jammu and Kashmir</b>	54
SAMREEN KHAN, ROHITASHW KUMAR, BASHIR AHMAD PANDIT, LATIEF AHMAD and NIMRA ARAIN	
<b>Hydrological responses on sodic soil against linearly increasing rainfall pattern</b>	61
RAVI KANT PANDEY, D.M. DENIS, CHHEDI LAL VERMA and SANJAY ARORA	
<b>Enhancing water use efficiency and crop yield through effective nutrient management and mulching practices</b>	72
YOGESH KUMAR, MUNISH KUMAR, SARVESH KUMAR, KAUSHAL KUMAR, SANJIV KUMAR, BIMLESH KUMAR PRAJAPATI and SANJAY YADAV	
<b>Assessment of economic impact through transfer of weather forecast and Agro-advisory for Farmers in South Alluvial Indo-Gangetic plain of Bihar</b>	77
SUNIL KUMAR	
<b>Development of water production function for French bean (<i>Phaseolus vulgaris</i> L.) for efficient water management under North Eastern Hilly region of India</b>	84
G.P. MISHRA and LALA I.P. RAY	

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>Integrating soil test-based fertilizers and biofertilizers to boost groundnut (<i>Arachis hypogaea</i>) productivity on sandy clay soils in semi-arid tropics</b>	93
B. PAVAN, K. LAKSHMAN, M. SREE REKHA, R. NASEERUDDIN, B. SREEKANTH and R. P. SHARMA	
<b>Effect of spacing and foliar spray of banana Pseudostem based organic liquid nutrients on soil physico-chemical properties under mango-based agroforestry system</b>	99
MEHFUZA PATEL, M.B. TANDEL, S.M. PATEL, M.K. DESAI, D.P. PATEL, M.P. AHIR and Y.A. GARDE	
<i>Short Communication</i>	
<b>Effect of soilless media and irrigation scheduling on nutrient uptake and production of drip irrigated cherry tomato grown in polybags</b>	105
NOAH KAMBLE and ARPAN SHERRING	