EDITORIAL

GREAT GURUS OF AGROMETEOROLOGY IN INDIA - Dr. S.M. Virmani

S.S. SINGH, JOYDEEP MUKHERJEE, SANTOSH KUMAR and MOHD. IDRIS - Effect of elevated CO₂ on growth and yield of rice crop in open top chamber in Sub humid climate of eastern India 1

A.V.R. KESA VA RAO, SUHAS P. WANI, K.K.SINGH, M. IRSHAD AHMED, K. SRINIVAS, SNEHAL D. BAIRAGI and O.RAMADEVI - Increased arid and semi-arid areas in India with associated shifts during 1971-2004 11

MIRAN AKRAM OMAR - Precipitation periodicities in Kurdistan – Iraqi region 19

SUDARSHAN PRASAD and VISHAL KUMAR - Evaluation of FAO-56 Penman–Monteith and alternative methods for estimating reference evapotranspiration using limited climatic data at Pusa 22

HIMANI BISHT, A.S. NAIN, SHWETA GAUTAM and HARSH VARDHAN PURANIK - Agro-climatic zonation of Uttarakhand using remote sensing and GIS 30

D K DAS, S. PRADHAN, V K SEHGAL, R N SAHOO, V K GUPTA and R SINGH - Spectral reflectance characteristics of healthy and yellow mosaic virus infected soybean (Glycine max L.) leaves in a semi-arid environment 36

SK DHANKHAR and SURENDER SINGH - Thermal requirements for flowering and fruit yield attainment in advance lines of okra 39


P K KINGRA and R K MAHEY - Moisture extraction pattern and ET-yield models in wheat under different management practices in central Punjab 51

P. PADMAVATHI and S. M. VIRMANI - Impact of climate change on safflower (Carthamus tinctorius L) in India and Mexico 58

P. K. PARMAR, H.R. PATEL, S. B. YADAV and V. PANDEY - Calibration and validation of DSSAT model for kharif groundnut in north-Saurashtra agro-climatic zone of Gujarat 62
D.R. MURUMKAR, D.V. INDI, M.A. GUD, S.K. SHINDE, J.D. JADHAV, V.R. BAVDEKAR and J.R. KADAM - Weather based forewarning model for Alternaria leaf spot of safflower (Carthamus tinctorius L.) in scarcity zone of Maharashtra

M. V. DABHI, D. J. KOSHIYA and D. M. KORAT - Effect of abiotic factors on population of aphid and damage by shoot & fruit borer in okra during summer and kharif season at Anand in Gujarat

INDU S. SAWANT, DINESH S. SHETTY, SHUBHANGI P. NARKAR, SHASHIKANT GHULE and S.D. SAWANT - Climate change and shifts in etiology of anthracnose disease of grapevines in India

Short Communication

N. S. HARWADIKAR, P. R. JAYBHAYE and T. B. TAMBE - Influence of cane density on microclimate of canopy, growth, yield and quality of wine grapes

POLY SAHA and SRIKANTA DAS - Assessment of losses due to early blight (Alternaria solani ell. and mart.) and influence of weather factors on disease development in tomato

K.K. KANZARIA, I. U. DHRUJ and D.D. SAHU - Influence of weather parameters on powdery mildew disease of mustard under North Saurashtra agroclimatic zone

S. SHERAZ MAHDI, SONUM LOTUS, GURDEEP SINGH, LATIEF AHMAD, K.N. SINGH, LATIEF AHAMD DAR and AJAY BHAT - Forecast of rice (Oryza sativa L.) yield based on climatic parameters in Srinagar district of Kashmir Valley