



GREEN FARMING

(International Journal of Applied Agricultural & Horticultural Sciences)

(Abbreviation : *Green Farming Int. J.*, UGC Jr.No. : 45500 ; Global Impact Factor : 0.468)

ISSN 0974-0775
NAAS Rating : 4.38

Volume 9

Number 2

March-April 2018

Bimonthly

CONTENTS

Previous issue :

Vol. 9, No. 1, pp. 1-190

Review Paper

Organic farming in Eastern India : Relevance, opportunities and challenges

— **AJOY KUMAR SINGH, SRINIVASARAGHAVAN A. and SHRIDHAR PATIL** 191

Research Papers

Heterosis studies for yield and its components under aerobic condition in hybrid rice (*Oryza sativa* L.)

— **SUMITRA UPENDI and N.K. MOTIRAMANI** 198

Combining ability and pooled score studies on baby corn traits in maize (*Zea mays* L.)

— **LASYA BHAT and S.K. DESHPANDE** 206

Characterization of maize genotypes for baby corn traits

— **LASYA BHAT and S.K. DESHPANDE** 212

Genetic variability, character association, path coefficient in forage sorghum [*Sorghum bicolor* (L.) M.]

— **H.I. DAMOR, H.P. PARMAR, D.P. GOHIL and A.A. PATEL** 218

Genetic variability studies for yield and quality traits in rice (*Oryza sativa* L.)

— **KAVURI KALPANA, S. THIRUMENI, V. VENGADESSAN and MOHAMED YASSIN G.** 224

Character association studies for early vigour traits and yield components in direct sown rice (*Oryza sativa* L.)

— **M. SRILAKSHMI CHAITANYA, B. KRISHNA VENI, M. LAL AHAMED, M. GIRIJA RANI and K. JAYA LALITHA** 228

Genetic divergence studies in mungbean (*Vigna radiata* L. Wilczek) genotypes

— **NAVEEN KUMAR MARKAM, S.K. NAIR, ISHU KUMAR KHUTE and PREETI PAINKRA** 231

Genetic variability, heritability and genetic advance in mungbean (*Vigna radiata* L. Wilczek) genotypes

— **SRAVAN KUMAR MALLI, G.R. LAVANYA and B.S.K. NIKHIL** 235

Assessment of genetic diversity and variability in ridge gourd for growth and yield parameters

— **MANOJ Y.B., LAKSHMANA D., SHASHIKALA S. KOLAKAR and CHANDANA B.C.** 239

Studies on character association and genetic variability for important traits in ridge gourd (*Luffa acutangula*)

— **MANOJ Y.B., LAKSHMANA D., GANAPATHI M. and CHANDANA B.C.** 244

Heritability and correlation studies in wild apple genotypes from different locations in Kashmir Valley

— **K.M. BHAT, SHAZIYA HASSAN, H.U. REHMAN, A.H. PANDITH and M.A. MIR** 248

Studies on heterosis for yield attributing traits in cucumber (*Cucumis sativus* L.)

— **PRASHANT R. NAIK, NAGARAJAPPA ADIVAPPAR, V. SRINIVASA, S. GANGAPRASAD and SHRIDHAR P. HERLE** 253

Estimation of genetic variability, heritability, genetic advance, correlations and path analysis in advanced mutant breeding lines of sesame (*Sesamum indicum* L.)

— **MAHALAXMI K. PATIL and R. LOKESHA** 257

Contd.

Relationship of organic and inorganic fertilization with soil fertility and crop yield under maize-wheat cropping system	
— ASMATULLAH DURANI, B.S. BRAR, KHUWAJA SAFIULLAH, AMINULLAH YOUSAFZAI and HASHMATULLAH DURRANI	 261
Influence of time of sowing and weed management on weed flora, nutrient content, uptake and productivity of summer blackgram (<i>Vigna mungo</i> L.)	
— S.K. PHAJAGE, V.C. RAJ and A.S. CHAVAN	 270
Ameliorative effect of different tree species on soil profile development of salt affected soil	
— RAVENDRA SINGH, S.G. RAJPUT, H.P. CHAUDHARY, R.R. VERMA, NIRMAL KUMAR KATIYAR and YOGESH KUMAR	 277
Performance of cultivars in direct seeded rice with various seeding rates and levels of micronutrients under Tunga Bhadra irrigation during summer	
— SHUBHA G.V., CHITTAPUR B.M., MANJUNATH B., REKHA R.G. and MUNIYAPPA N.	 284
Effect of sodium silicate on the growth and physiological attributes of tomato	
— CHANCHAL MALHOTRA, RITITHAPAR KAPOOR, DEEPAK GANJEWALA and N.B. SINGH	 290
Demand driven nutrient management for enhanced nutrient use efficiency and productivity in rice and wheat under rice-wheat cropping system	
— A. QURESHI, D.K. SINGH, P.C. PANDEY, P.K. CHANDRAKAR and P.S. MARKAM	 296
Effect of plastic mulch and supplemental irrigation on growth and yield of black gram (<i>Vigna mungo</i> L.)	
— CHANDRAKANT Y. MAHALE, S.R. BHAKAR, S.S. LAKHAWAT, M. KOTHARI and B.G. CHHIPA	 301
Effect of foliar nutrition on the growth and yield of <i>Bt</i> cotton (<i>Gossypium hirsutum</i> L.) under irrigated condition	
— V.L. KIKANI, A.R. PATEL, A.M. POLARA and D.K. DAVARA	 306
Fibre yield, quality parameter, light use efficiency and economics of linseed as influenced by intercropping system of safflower and linseed under rainfed condition	
— KARALE GANGADHAR, S.A. BIRADAR, B.K. DESAI, AJITHKUMAR K. and RAJANNA	 310
Morphological and Micro-anatomical variation in different ploidies of mulberry genotypes (<i>Morus</i> sp.)	
— R. RAVI KUMARA, H.L. RAMESH, M.R. SWAMY GOWDA and P. SUDHAKAR	 314
Effect of different land use systems on soil properties in red soils of Jambadahalla subwatershed, Chikkamagaluru district	
— NETHRAVATHI B., T.S. VAGEESH and Y. VISHWANATH SHETTY	 318
Response of <i>Bt</i> cotton (<i>Gossypium hirsutum</i> L.) to foliar application of gibberellic acid under rainfed conditions	
— M.D. GIRI, C.P. JAYBHAYE, D.G. KANWADE and J.R. WADKAR	 323
Response of okra (<i>Abelmoschus esculentus</i> L.) growth, yield attributes and economics on irrigation levels and mulching	
— M.M. SIPPO, P.K. SINGH, S.R. BHAKAR and S.S. LAKHAWAT	 327
Influence of tillage practices and nutrient sources on yield, quality of sweet corn and post-harvest soil fertility	
— V.N. SHETYE, R.C. TIWARI, V.V. SAGVEKAR, S.S. KADAM and A.P. CHAVAN	 331
Soil fertility status under <i>Bt</i> cotton growing vertisols of Dharwad district	
— RAMYA S.H., N.S. HEBSUR, RAVINDRA V.M. and S.S. ANGADI	 335

Image analysis for size distribution of <i>kodo</i> and <i>kutki</i> millet	
— P.K. NISHAD, S.D. DESHPANDE and N. KOTWALIWALE	 339
Impact of hexanal vapour treatment on the shelf-life and post-harvest quality of banana var. Poovan	
— ASHWINI T., S. GANAPATHY and K.S. SUBRAMANIAN	 344
Reflexes of biofungicide (<i>Trichoderma harzianum</i> R.) on seed mycoflora & seed germination of some medicinal plant species	
— SATISH DUBEY, R.K.S. TIWARI and SANTRAM SAHU	 348
Efficacy of <i>Cissus quadrangularis</i> L. extract against wilt of tomato (<i>Lycopersicon esculentum</i> L.) caused by <i>Fusarium oxysporum</i> f. sp. <i>lycopersici</i>	
— M.R. SWAMY GOWDA, H.M. MAHESH, M.S. SHARADA and P. SUDHAKAR	 353
Molecular characterization of <i>Fusarium pallidoroseum</i> isolates by using RAPD technique	
— T.T. BARIA and R.K. PATIL	 357
Effect of bactericides and fungicides in management of citrus canker in Kagzi lime under nursery condition	
— CHETHANKUMAR K., KIRANKUMAR K.C. and PRASANNA KUMAR M.K.	 361
Diversity of insect pests and natural enemies in <i>Bt</i> and non- <i>Bt</i> cotton	
— S. ANUSHA and R. SWAMINATHAN	 365
Influence of cultivation methods on incidence of rice pests	
— D. SUDHA RANI, CH. NAGA SATYASRI, M.N. VENKATESH and K. ANAND KUMAR	 370
Some physical properties of quinoa (<i>Chenopodium quinoa</i> Willd.)	
— SAGAR CHAVAN, SURBHI SHARMA, VINAY PATIL and NARENDRA KUMAR JAIN	 375
Effect of harvesting of fruits at different stage of maturity on nutritional quality of Kinnow under Hot Arid Zone of North Western India	
— JULIUS UCHOI, R.S. SINGH, R. BHARGAVA, HARE KRISHNA, VENKATESAN K., ABHISHEK KUMAR and ANIL PATIDAR	 379
Development and performance evaluation of tractor operated tuber rhizomes digger	
— POOJA N. WAJIRE, M.V. JADHAV, C.M. PAREEK, S.H. THAKARE and V.P. KHAMBALKAR	 383
Development of crop water stress index for onion (<i>Allium cepa</i> L.) crop using infrared thermometry	
— AMITKUMAR L. DAVARIYA, S.R. BHAKAR, M. KOTHARI and R.S. SINGH	 387
Study on energy use pattern in groundnut (<i>Arachis hypogaea</i> L.) production and processing in Rajasthan	
— DIKSHA SRIVASTAVA, A.N. MATHUR and MRUNAL K. SHIRSHAT	 390

Short Communication

Evaluation of the physico-chemical parameters of underutilized <i>Allium</i> species (<i>Allium hookeri</i> Thw.) in Northeast region of India	
— M. BILASHINI DEVI, S.R. ASSUMI, H.D. TALANG, A.K. JHA and NISHA THAKUR	 393

Strategic Vision Message : 44

Agripreneurship : An exciting challenge towards economic development

— MYER G. MULA	
-----------------------	--