



ISSN 0974-0775

GREEN FARMING

International Journal of Applied Agricultural & Horticultural Sciences
(Abbr. *Green Farming Int. J.*)

Volume 5

Number 5

September-October 2014

Bimonthly

CONTENTS

Previous issue :

Vol. 5, No. 4, pp. 504-724

Research Papers

Harnessing cosmic energy to enhance the productivity of organic basmati rice-based cropping system	.....	725
— D.K. SINGH, SHILPI GUPTA, A.K. DUBEY and P.C. PANDEY		
Genotype-environment interaction and stability of yield and yield components in rice (<i>Oryza sativa L.</i>)	.....	730
— S.K. CHAVAN, B.K. SENAPATI, H.V. PATIL and V.S. PATIL		
Identification of transgressive segregants for combining ability in early generation of cotton (<i>Gossypium hirsutum</i>)	.....	734
— K.J. PRANESH and S.S. PATIL		
Correlation and path analysis in certain inbred genotypes of maize (<i>Zea mays</i>) under Varanasi conditions	.....	738
— V. NATARAJ, J.P. SHAHI, K. RAGHUNANADAN and V.K. AGRAWAL		
Study on phenotypic & genotypic variation; correlation and path analysis in finger millet [<i>E. coracana (L.)</i>]	.....	742
— D.R. CHAUDHARI, P.P. CHAUDHARI, M.M. PANDYA, A.V. NARWADE and J.V. PATEL		
Combining ability analysis of male fertile & male sterile lines in okra [<i>Abelmoschus esculentus (L.) M.</i>]	.....	746
— MAHESH BADIGER, M. PITCHAIMUTHU, B. PARVATI and U. SACHIN		
Genetic variability and characters association in segregating population of okra	.....	749
— ABHISHEK KATAGI, SHANTAPPA TIRAKANNANAVAR and R.C. JAGADEESHA		
Callus induction using different explants and shoot regeneration in sesame (<i>Sesamum indicum L.</i>)	.....	754
— S.W. BANGAREMMA, G.S. GAYATREE, H. RUPA and R. LOKESHA		
Combining ability analysis & heterosis for growth, yield and quality traits in cherry tomato (<i>S. lycopersicum</i>)	.....	758
— PARVATI PUJER, R.C. JAGADEESHA and B. MAHESH		
Assessment of genetic variability in diverse groundnut genotypes through morphological, biochemical and RAPD analysis	.....	762
— DIVYA VYAS, DEEPAK SHARMA, S.R. MALOO and ARUNABH JOSHI		
Varietal performance of okra (<i>Abelmoschus esculentus L. Moench</i>) during different seasons	.....	765
— YOGESH PAWAR, L.R. VERMA and P. VERMA		
Effect of pollen viability and method of storage on seed set, seed yield and seed quality under <i>in-vivo</i> and <i>in-vitro</i> in sunflower variety RHA-857	.....	768
— KANTHARAJU, PRIYA KIVADASANNAVAR and V.K. DESHPANDE		
Performance of parents and hybrids for yield & yield attributing characters in ridge gourd (<i>L. acutangula</i>)	.....	772
— ANAND NARASANNAVAR, V.D. GASTI, AMBRESH and S.I. MADAWAL		
Influence of resource conservation technologies in maize-chickpea sequence cropping under Northern Transitional Zone of Karnataka	.....	777
— B.R. MANJITH KUMAR and S.S. ANGADI		
Growth & yield of sesame-based intercropping system as influenced by soil moisture conservation practices	.....	782
— B. CHHETRI, D. MAHATA, S.K. MAHATO and A.C. SINHA		
Influence of levels and foliar spray of fertilizer on growth, yield attributes, yield & NPK uptake by barley (<i>H. vulgare L.</i>)	.....	786
— R.K. JAT, G.R. JAKHAR, CHATRA RAM and L.R. YADAV		
Yield, quality & monetary returns of summer pearl millet (<i>P. glaucum</i>) as influenced by INM & sowing methods	.....	789
— A.S. PATIL, H.K. PATEL and N.P. CHAUHAN		
	Contd.	

Effect of irrigation scheduling based on IW/CPE ratios and INM on growth, yield attributes and yield of garlic (<i>Allium sativum</i> L.)	.....
— J.N. ZALA, N.D. DESAI, V.R. NAIK, D.P. PATEL, A.P. GONGE and K.K. PATEL	.....	793
Effect of organic sources of nutrients on soil quality, productivity & economics of late sown chickpea & fieldpea	.....
— R.K. SINGH, R.P. SINGH, S.K. CHOUDHARY and P.K. UPADHYAY	.....	796
Assessment of soil carbon stock and sequestration potential in forest, paddy & forest to paddy converted land use systems	.....
— SARIKA D. PATIL, T.K. SEN, S. CHATTERJI, D. SARKAR and R.M. HANDORE	.....	801
Effect of carbon sources amended soil on nutrient availability, growth, yield, nutrient concentration and quality of spinach (<i>Beta vulgaris</i> L.)	.....
— V.D. PATIL, A.L. DHAMAK and M.S. DESHMUKH	.....	805
Integrated management of nitrogen and phosphorous through bio-inoculants & organic manures in sprouting broccoli cv. Palam Samridhi under mid-hill conditions	.....
— NISHA KUMARI, N.K. PATHANIA and VIMLESH K. PATEL	.....	808
Sustainable micronutrient management through organic chelation in okra (<i>Abelmoschus esculentus</i> L.)	.....
— KAMAL KISHOR, PIYUSH VERMA, L.R. VARMA, J.R. VADODARIA, YOGESH PAWAR and M.K. MAN	.....	812
Response of integrated nutrient management on growth & productivity of kharif onion (<i>Allium cepa</i> L.) cv. N-53	.....
— A.S. JODHA, R.A. KAUSHIK, K.D. AMETA, D.K. SAROLIA, S. PAREEK, K.L. KUMAWAT and D. JAMATIA	.....	815
Effect of biochar on the growth, nutrient content and quality attributes in maize crop in middle Gujarat	.....
— NARESH K. YADAV, RAJKISHORE KUMAR and SUBODH K. BISHNOI	.....	818
Effect of different plant spacing and nitrogen levels on growth and yield of candytuft (<i>Iberis umbellata</i> L.) cv. "Swiss White" under south Gujarat conditions	.....
— D.C. PAVAGADHI, R.B. PATEL, S.L. CHAWLA, A.J. BHANDARI and SUDHA PATIL	.....	823
Physiological & biochemical changes associated with seed storage of organically primed maize cv. GH-0727 seeds	.....
— SHANKRAYYA, N.M. SHAKUNTALA, S.N. VASUDEVAN and M.B. TEJAGOUDA	.....	826
Effect of organic farming on productivity of rice & soil fertility under <i>Alfisols</i> of southern transition zone of Karnataka	.....
— GANAPATHI, K.S. NIRANJANA, Y. VISHWANATHSHETTY and H.M. CHIDANANDAPPA	.....	833
Study of leaf nutrient concentration under the different water soluble fertilizers & micronutrient treatments in banana	.....
— S.R. MANE, B.N. PATEL, A.P. GONGE and D.P. NAWALKAR	.....	836
Effect of different sources & levels of potassium on quality & post-harvest storage in chilli cv. Kashmir Long-1	.....
— FAHEEMA MUSHTAQ, N. JABEEN, K.P. WANIS, SUMATI NARAYAN and P.K. SINGH	.....	840
Influence of post-harvest treatments of gibberellic acid, potassium nitrate & silicic acid in tomato	.....
— POONAM CHOUDHARY and JITENDRA DHRUVE	.....	844
Post-harvest application of salicylic acid and wooden crates on quality characteristics of mango varieties	.....
— SHIVENDRA KUMAR VISHWAKARMA and R.P. SINGH	.....	847
Performance of garlic (<i>Allium sativum</i> L.) varieties for growth & yield traits under central dry zone of Karnataka	.....
— P. UMAMAHESWARAPPA	.....	851
Post harvest physiology, peroxidase activity & vase life of cut rose cv. First Red as influenced by 8-HQC & sucrose	.....
— S. MUTHU KUMAR and V. PONNUSWAMI	.....	854
Effect of plant growth regulators on vegetative growth and flowering in gladiolus (<i>G. grandiflorus</i> L.)	.....
— G.V. SUBBA REDDY, M.B. NAGESWARA RAO and R. CHANDRA SEKHAR	.....	858
Genetic variability and correlation studies in gladiolus	.....
— S.V. GEETA, A.M. SHIROL, D.M. REUKA and M. SHIRAGUR	.....	861
Characterization of walnut (<i>Juglans regia</i> L.) germplasm for nut and kernel quality attributes	.....
— SHIVALI SHARMA, K. KUMAR and AMIT KUMAR	.....	866

Contd.

Entomopathogenic potentiality of <i>Bacillus subtilis</i> against <i>Spilosoma obliqua</i> on jute — SWARNALI BHATTACHARYA, TAPAMAY DHAR and SABITA KUMAR SENAPATI	..... 869
Integration of diclosulam with cono weeding to manage weeds in soybean — R.R. JAKHAR and R. SHARMA	..... 872
Effect of pre- and post-emergence herbicides on growth and yield of black gram (<i>Vigna mungo</i> L. Hepper) — R.P. SINGH, DASHRATH SINGH and K. RAMESH	..... 876
Bio-rational approaches against <i>defoliators</i> and its effect on natural enemy complex in sunflower — S. GEETHA and K.S. JAGADISH	..... 880
Impact of application of <i>Fusarium</i> sp. formulations on chilli yield under field conditions and compatibility of pesticides against entomopathogenic fungi — S. SHUBHA, B. ABDUL RAHIMAN, A. ANANTHA RAMA and K.R. SHANKARAGOUDA	..... 884
Effect of organic farming on growth, disease dynamics & some physiological parameters in chilli genotypes — S. NGOMLE, B.S. AMBESH A. PHALKE and P.M. BHATTACHARYA	..... 887
Influence of systemic insecticides as stem application on population of natural enemies in cotton — A.S. MAHALE, U.A. PAWAR and T.B. UGALE	..... 890
Screening and characterization of tobacco cultivars for root-knot nematode resistant gene using RAPD markers — DHARMENDRA PATIDAR, VISHAL R. PATIL, A.D. PATEL and R.S. FOUGAT	..... 894
Evaluation of insecticides against whitefly, <i>Bemisia tabaci</i> (Genn.) on tomato under field condition — B. JAMUNA, M. BHEEMANNA, A.C. HOSAMANI and SHWETHA D. SURPUR	..... 898
Baseline susceptibility studies of lufenuron 5.4 % EC against tobacco caterpillar, <i>Spodoptera litura</i> (F.) — R. NAVEENA, A.C. HOSAMANI, M. BHEEMANNA, SOMASEKHAR, J.M. NIDAGUNDI, V.N. GHANTE and B. KISAN	..... 902
Studies on beneficial fauna of drumstick (<i>Moringa oleifera</i>) ecosystem — MAHESH MATH, Y.K. KOTIKAL and V.M. GANIGER	..... 905
Stability analysis in niger (<i>Guizotia abyssinica</i> Cass) — HARSHAL E. PATIL, RIZWAN I. ALI and RAVIKIRAN S. MALI	..... 908
Instability analysis and growth performance of cashewnut in Karnataka — S.S. GULEDGUDDA and B.C. RAJUR	..... 911
Economics of production and processing of mango in Gadchiroli district of Maharashtra — S.B. DATARKAR, A.S. DAREKAR and N.T. BAGDE	..... 916
Physical properties of <i>Jatropha curcas</i> L. fruits of Mewar region — V.V. GONJARI, B.S. GHOLAP, S.M. MATHUR and Y.C. BHATT	..... 920
Assessment of wastewater quality of drains for irrigation — A.R. MHASKE, S.M. TALEY, R.B. BINIWALE and R.N. KATKAR	..... 924
Development and performance evaluation of tractor operated boom type field sprayer for cotton crop — BABASAHEB GHOLAP, V.V. GONJARI, RAVI MATHUR and PRAVIN JADHAV	..... 930
Process optimization for spray drying of instant soymilk powder — I.L. PARDESHI	..... 934
Effect of fat levels, strength and type of coagulants on quality of cow milk <i>Chhana</i> and <i>Kheer Mohan</i> — R. RATHWA, G.S. MEENA, V.K. GUPTA and H.V. RAGHU	..... 938
Corollary study on effectiveness of farm broadcast in agricultural technology among the farmers — S.K. GARG, D.P. RAI, S.K. BADODIYA and V.V. GONJARI	..... 942
● Strategic Vision : 23	
Nanotechnology : An opportunistic tool in plant protection — SHAON KUMAR DAS and ANIRUDDHA ROY	