

Contents

Significance of Silicon in Fruit Crops - A Review	Harish Patil, R. V. Tank and Patel Manoli	769-774
Biology and Management of Sugarcane Red Rot : A Review	Geeta Sharma, Jai Singh, Anshul Arya and S.R. Sharma	775-784
Ageing Physiology in Terms of Rooting Response : Research Review	Abdullah Ibrahim Shaheed	785-797
Analysis of Beetroot (<i>Beta vulgaris</i> L.) Juice Processing Effect for Maximum Betalain Extractability and Optimum Antioxidant Activity	Gaurav Pandey, Jeewesh Singh and George Thomas	798-802
Effect of Plant Growth Regulators, Gibberellic Acid (GA3) and Naphthalene Acetic Acid (NAA) on Growth and Yield of Carnation (<i>Dianthus caryophyllus</i> L.) under Naturally Ventilated Polyhouse	Justo C. Benny, Devi Singh, U. Fatmi and Dona Ann Jose	803-812
Heterosis and Combining Ability of Indigenous and Exotic Crosses of Barley	Sweta Singh, L.C. Prasad, Kuduka Madhukar, Kailash Chandra and R. Prasad	813-820
Genetic Divergence Studies of Elite Germplasm Accessions of Rice (<i>Oryza sativa</i> L.)	B. Jalandhar Ram, G. Suresh Babu, G. Roopa Lavanya, B. Spandana and K. Madhu Kumar	821-824
Thermal Studies of Pure and Doped CdS Nanoparticles	S. Rinu Sam	825-832
Effect of 2,4-D and Cytokinins on Callus Induction in different Explants of <i>Viola canescens</i> Wall. ex, Roxb.	Arun Kumar Khajuria, N.S. Bisht and Ram Krishan	833-838
Storage Studies on Pomegranate cv. Bhagwa Arils as Influenced by Various Treatments	D. Ramesh Naik, D. Manohar Prasad, Veena Joshi, A.S. Padmavathamma and C. Syamraj Naik	839-845
Effect of Fertilizer Levels and Sulphur on Soil Properties in Clay Loam Soil	D. K. D. Deekshitha, P. Ravindra Babu and P. Madhuvani	846-850
Heterosis, Inbreeding Depression and Combining Ability Analysis for Yield and its Component Traits in Barley (<i>Hordeum vulgare</i> L.)	Moti Ram and A. S. Shekawat	851-860
Effect of Foliar Application of NPK and Zinc Sulphate on Productivity and Economic of Wheat (<i>Triticum aestivum</i> L.) under Sandy Loam Soil in Irrigated Condition at Chhindwara District of Madhya Pradesh, India	S. K. Ahirwar, Aruna Devi Ahirwar, K. Bardhan and S. L. Alawa	861-865
Biodiversity of Tree Species with Special Reference to Rare, Endangered and Threatened Plants Species of Padmalaya Forest Region of Jalgaon District (M.S.), India	R. M. Bagul	866-868
Influence of Bio-fertilizers on Growth Attributes of Guar (<i>Cyamopsis tetragonoloba</i> L.)	Naleeni Ramawat and Renu Yadav	869-870
Spectroscopic Investigation on Normal and Diseased Blood	S. Rinu Sam	871-876
Effect of Growth Regulator and Biocontrol agent on Growth, Bulb Yield, Yield Contributing Traits and Economics of Onion (<i>Allium cepa</i> L.) cv. Agrifound Light Red	Jagati Yadagiri and Prashant Kumar Gupta	877-883
Nursery Management Practices for Improving the Yield of Dry Chilli (<i>Capsicum annum</i> L.)	Krishna D. Kurubetta, M. Shivaprasad, M. H. Tatagar, R. K. Mesta and M. Abdul Kareem	884-886
Estimation of Genetic Variability for Dual Purpose in Cowpea (<i>Vigna unguiculata</i> (L.) Walp)	Satish Kumar, K. Sridhar, Vinod Kumar and N. S. Kulkarni	887-891
Influence of Spacing on the Performance of Soursop (<i>Annona muricata</i> L.) Seedlings for Leaf Production	T. Uma Maheswari and S. Joybi Singh	892-894
Dimensions and Determinants of Knowledge on Recommended Wheat Production Technology among Farmers in Eastern Plain Zone of Uttar Pradesh, India	Arun Kumar Rajbhar, Kaushal Kumar Jha and Sri Ram Yadav	895-900
Study of Heterosis for Growth and Quality Traits in Tomato (<i>Solanum lycopersicum</i> L.)	D. Triveni, P. Saidaiah, K. Ravinder Reddy and S.R. Pandravada	901-906
Genetic Variability and Heritability Studies in Okra (<i>Abelmoschus esculentus</i> (L.) Moench)	L. B. Thulasiram*, S. R. Bhople, Mekala Srikanth and B. Ravi Nayak	907-910
Influence of Temperature and Embedding Media on Production of Quality Dry Flowers of African Marigold cv. Pusa Narangi Gainda	K. Swathi, Soumen Maira and I. Sarkar	911-915

Response of Chilli (<i>Capsicum annum</i> L.) for Graded Levels of Fertilizers and Jeevamruta Application	Krishna D. Kurubetta, R. K. Mesta, M. H. Tatagar and M. Abdul Kareem	916-918
Combining Ability Analysis in Dual Purpose in Cowpea (<i>Vigna unguiculata</i> (L.) Walp)	Satish Kumar, K. Sridhar, Vinod Kumar and N. S. Kulkarni	919-923
An Economics of Resources Use Efficiency in Production of Onion Crop in Haryana	Ajay Kumar, R.S. Pannu and Sumit	924-928
Isolation and Enzymatic Characterization of <i>Streptomyces</i> Isolates from Western Rajasthan	G. K. Meghwanshi, S. Kumar, D. S. Solanki, K. Parihar, K. Sharma, P. Gehlot, S.K. Singh and R. Pathak	929-934
Management of Leaf Blight through Induction of Defense Enzymes in Tomato	M. Magesh and P. Ahila Devi	935-940
Correlation between Yield and its Attributes in Coriander	M. K. Nagappa, K. Giridhar and A. V. D. Dorajeerao	941-947
Comparative LM and SEM Studies of Glandular Trichomes on the Calyx of Flowers of two Species of <i>Plumbago</i> Linn.	Smita S. Chaudhari and G. S. Chaudhari	948-954
<i>Salvadora persica</i> : A Potential Source for Treatment of Hypercholesterolemia	Bloch Reema, Divya Detroja, Rohan V. Pandya and Jigna G. Tank	955-960
Studies on Mean and Combining Ability Effects for Parents and their Hybrids in Brinjal (<i>Solanum melongena</i> L.)	G. Kalaiyarasi, S. Ranjith Raja Ram and K. R. Saravanan	961-966
Growth Response of Maize to different Crop Arrangements and Nutrient Managements under Maize (<i>Zea mays</i> L.) and Soybean (<i>Glycine max</i> L.) Intercropping System	Pragya Pandey and M. C. Bhambri	967-972
Management of Micronutrient Deficiencies in Adolescent Girls : An Interventional Approach	Kiran Yadav and Ritu P. Dubey	973-976
Influence of Washing, Packaging and Storage Temperatures on Sugars, Ascorbic Acid and Antioxidants Content of 'Bhagwa' Pomegranate (<i>Punica granatum</i> L.) Arils	D. Ramesh Naik, D. Manohar Prasad, Veena Joshi, A.S. Padmavathamma and C. Syamraj Naik	977-984
Assessment of Multivariate Analysis for Kernel Yield and Yield Component Traits in Drought Tolerant Groundnut Genotypes	A. Lokeshwar Reddy, Ch. Madhan Mohan Reddy and T. Srinivas	985-987
Phenotypic Evaluation for Spikelets per Panicle in Rice (<i>Oryza sativa</i> L.) under Irrigated and Drought Condition	Temin Sahu, Ritu R. Saxena, Govind Sahu, Namrata Dhirhi and Fakeer Chand Sao	988-992
Floristic Diversity of Ambala District, Haryana, India	Mandeep Kaur, Nidhan Singh and B. D. Vashistha	993-1003
Fresh and Dry Weight of Seed Guar Cultivars Influenced by Plant Growth Regulators under Mahanandi Conditions of Andhra Pradesh, India	M. Tagore Naik, D. Srihari, A. V. D. Dorajee Rao, K. Sasikala, Umakrishna and Salomi Suneetha	1004-1012
Effect of Presowing Seed Priming Treatment using Botanical Leaf Extract on Growth and Yield Characters in Blackgram (<i>Vigna mungo</i> [L.] Hepper) cv. CO 6	J. Gunasekar, A. Kamaraj and S. Padmavathi	1013-1016
Studies on Flower Production in Annual Chrysanthemum in Response to Iron and Zinc	P.N. Bhute, D.M. Panchbhai, V.U. Raut, Neha Chopde and Hemlata Khobragade	1017-1019
Management of Brown Spot Disease of Rice by Safer Fungicides and some Bioagents	Lakhveer Singh, Abhilasha A. Lal, Puspendra Kumar, Sobita Simon and Mayank Kumar	1020-1022
Biochemical Changes in Onion during Ambient Storage as Affected by Preharvest Treatments	V. U. Raut, Neha Chopde, P. N. Bhute and P. D. Raut	1023-1027
Field Evaluation of some Newer Insecticides against <i>Spodoptera litura</i> in Soybean	S. K. Mishra and Vikas Gupta	1028-1032
Genetic Divergence in Medium Duration Genotypes of Rice (<i>Oryza sativa</i> L.)	M. Anbarasu, S. Thirugnanakumar and R. Eswaran	1033-1036
Comparative Adoption Studies of Different IPM Component against Pigeon Pea Pests	Shlokeshwar Raj Sharma, V.K. Singh and Dhurmendra Prasad Singh	1037-1040
Biological Carbon Sequestration through Fruit Crops (Perennial Crops - Natural "Sponges" for Absorbing Carbon dioxide from Atmosphere)	Prabhugouda Patil and Dr. A. Kiran Kumar	1041-1046
Bio-efficacy of Novel Insecticides Against Planthoppers in Direct Seeded Rice	E. Ranjith Kumar, G.S. Guruprasad, Arun Kumar Hosamani, A.G. Srinivas and D. Pramesh	1047-1051
Biophysical and Biochemical Parameters Associated with Productivity in Black Seeded Soybean	K.N. Anusha and D.I. Jirali	1052-1054
Performance of Leaves and their Respective Oil Seed Cakes on Plant Growth Parameters and Soil Population of Root Knot Nematode on Okra	Archana Singh and B.K Goswami	1055-1057

- Genetic Divergence in Onion Genotypes (*Allium cepa* L.) **Deepanshu, Abdul Shamad and V. M. Prasad** 1058-1060
- Study the Productivity and Benefit Cost Ratio of Arhar (Redgram) in Various Farm Size Groups
Ajit Verma, S.P. Singh, Sarita Srivastava, Vinod Singh and Avinash Kumar 1061-1062
- Effect of Sowing Date on Growth and Yield of Broccoli (*Brassica oleracea* var. *italica*)
Vipul Pratap Singh, V. M. Prasad and Deepanshu 1063-1070
- Morphological Characterization of Apple Accessions in Kashmir Region
Shazia Hassan, K. M. Bhat, Z. A. Dar, M. A. Mir, A. H. Pandith, W. M. Wani and A. Jan 1071-1077
- Impact of the Seed Treatment, Packing Materials and Storage Temperature on Viability of Soybean
Rajashree Biradar and D. I. Jirali 1078-1084
- Thermokinetic Studies of Anti-leukemic L-Asparaginase of *Pseudomonas fluorescens* **Rati Sinha and Hare Ram Singh** 1085-1089
- Effect of Bio-fertilizers and Nutrients on Growth and Flower Yield of Summer Season African Marigold (*Tagetes erecta* L.)
Abhinav Kumar and Ashok Kumar 1090-1092
- Growth Analysis and Phenological Parameters of Ashwagandha (*Withania somnifera* L.) in Intercropped with Pulses and Oil Seeds
S. K. Ahirwar, K. K. Agrawal and H. S. Kushwaha 1093-1098
- Biology and Predatory Potential of *Coccinella septempunctata* Linn. on *Lipaphis erysimi* Kalt. under Controlled Conditions
S.K. Mishra and P.M. Kanwat 1099-1104
- Performance of Floribunda Roses for Yield and Yield Parameters under North Eastern Transitional Zone of Karnataka
G.P. Vijayalaxmi, G.K. Seetaramu and S. K. Balaji 1105-1107
- Effect of Individual and Combined Application of Biofertilizers, Micronutrients on Growth, Leaf Yield and Quality of Coriander (*Coriandrum sativum* L.) cv. Sadhana **Y. Mounika, G. Thanuja Sivaram, P. SyamSundar Reddy and M. Ramaiah** 1108-1112
- Effect of Plant Growth Regulators on Vegetative Growth of Carnation (*Dianthus caryophyllus* L.) cv. Domingo in Second Season Crop
Ashwani Kasturi and R. Chandra Sekhar 1113-1116
- Flowering, Physiological and Biochemical Response of Gladiolus cv. Arka Amar to Plant Growth Regulators and Arbuscular Mycorrhizal Fungi (AMF)
B. Sirisha and M. Raja Naik 1117-1120
- Consumer Acceptability Test for different Floribunda Roses Genotypes
G.P. Vijayalaxmi, Ganeshgouda, I. Patil and S. J. Imamsaheb 1121-1122
- Evaluation of Strobilurin on Biophysical, Biochemical Parameters in Soybean [*Glycine max* (L.) Merrill]
S. P. Banakar, Renuka Herkal and D. I. Jirali 1123-1129
- Survey for the Incidence of Rhizome Rot/Tip Over Disease of Banana **B. A. Vasundhara and N. Thammaiah** 1130-1132
- Studies on Pharmacognosy, Micromorphology and Histochemical Localization of few Phytochemicals in Medicinal Plants in the Lateritic Belt of West Bengal
Alokesh Das, Uday Das and Sudipa Nag 1133-1138
- Analysis of Water, Sediment Quality and Total Metals Accumulation in Aquatic Vegetation at Bhindawas Wetland, Jhajjar, Haryana, India
Sunil Kumar, Rajesh Dhankhar and Sunder Singh 1139-1145
- Climate Change : Combating Drought with Antitranspirants and Super Absorbent
P. P. Pandey, R. Sharma and S. S. Neelkanthe 1146-1156
- Nutrient Uptake Pattern of Pigeonpea as Influenced by Pigeonpea + Blackgram and Integrated Nutrient Management
Madhulika Singh, Rajendra Lakpale and Deepak Kumar Chandrakar 1157-1160
- Morphology and Effect of different Solid Media on the Growth of the *Fusarium oxysporum* f. sp. *ciceri* Causes Fusarium wilt of Chick Pea
Anmol Singh Yadav, Supriya Yadav, Ramesh Singh 1161-1163
- Studies on Genetic Variability and Interrelationship among the Different Traits in Exotic Lines of Lentil (*Lens Culinaris* Medik)
S. Pandey, S. P. Kureshi and A. Bhatore 1164-1170
- Evaluation of some Physiological Parameters in Wheat as Affected by High Temperature and their Correlation with Yield
Heenakousar R. Mulla and D. I. Jirali 1171-1176
- Communication Sources of Groundnut Growers for Agriculture in Raigarh District of Chhattisgarh, India
B. K. Chaturvedi, K.K. Shrivastava 1177-1180
- Effect of Different Chemicals for the Control of Citrus Canker caused by *Xanthomonas axonopodis* pv. *Citri*
Bhupendra Thakre, Uttam Soni, C. L. Gour and S. R. Dharpure 1181-1183
- Constraints and Suggestions Regarding Role Expectation and Role Performance of Tribal and Non-tribal Women Sarpanch Towards Rural Development in Bilaspur district (C.G.), India
Jyoti Kumari, M. L. Sharma and Akanksha Pandey 1184-1188

- Population Dynamics of Jassid, *Amrasca biguttula biguttula* (Ishida) in Okra, *Abelmoschus esculentus* (L.) and its Correlation with Meteorological Parameters **Anil Kumar Saroj, A. K. Singh, D.C. Singh and Pankaj Kumar** 1189-1190
- Oil Content and other Quality Attributes of Coriander Accessions **M. K. Nagappa and A. V. D. Dorajeerao** 1191-1196
- Effect of Integrated Nutrient Management on Growth, Yield and Quality of Tomato (*Lycopersicon esculentum* L.) cv. Pusa Ruby **Rajeev Kumar, Sanjay Kumar, Rakesh Kumar Meena, Pradeep Kumar and Ranjeet Rawat** 1197-1200
- Effect of Critical Micronutrients Foliar Application on Yield of Cashew (*Anacardium occidentale* L.) under Agency Tracts of Rampachodavaram (Andhra Pradesh), India **V. Govardhan Rao and P. Venkata Ramana** 1201-1203
- Effect Dates of Sowing and Cutting Intervals on Seed Yield and Quality of Alfalfa (*Medicago sativa* L.) cv. RL-88 **P. R. Arvind Kumar, B. C. Channakeshava and R. Siddaraju** 1204-1208
- Studies on Genetic Divergence of Some Improved Rice Genotypes under Salinity (*Oryza sativa* L.) **G. Jeeva and K. Saravanan** 1209-1214
- Influence of Pre-sowing Seed Treatments on the Performance of Soursop (*Annona muricata* L.) Seedlings **S. Joybi Singh and T. Uma Maheswari** 1215-1218
- Study of Sani Feeding Techniques with Supplementation of Mineral Mixture in Dairy Animals **S.P.S. Somvanshi, H.P. Singh, R.P.S Shaktawat, R. Gupta, S.P. Tripathi, Durga Singh and G.S. Chundawat** 1219-1220
- Influence of Seed Treatments and Packaging Materials on Seed Longevity of Alfalfa (*Medicago sativa* L.) Cv. RL-88 **P. R. Arvind Kumar, B. C. Channakeshava and R. Siddaraju** 1221-1227
- Influence of Fungicide Treatment on Seed Quality Parameters of the Soybean **Rajashree Biradar and D. I. Jirali** 1228-1232
- Effect of Azotobactor, Phosphate Solubilizing Bacteria and different Levels of Phosphorus on the Growth and Yield of Wheat (*Triticum aestivum* L.) **Shishir Kumar** 1233-1236
- Yield Response of Sesame Genotypes for Geneaction under Normal Condition **S. Karthickeyan, Y. Anitha Vasline and K. Saravanan** 1237-1241
- Studies on the Influence of different Herbicides on Yield and Yield Components in Maize **Ravi S. Mukkund and D. I. Jirali** 1242-1246
- Tree Species Richness and Regeneration Pattern Along the Anthropogenic Disturbance Gradients in Montane Forests of Garhwal Himalaya, India **Mujahida Parveen, P. Tiwari, Dinesh Singh Rawat and J. K. Tiwari** 1247-1254
- Farmers' Training Needs on Wheat Production Technology in Vidisha District of Madhya Pradesh **P. K. Mishra, Vinita Parte and Ghanshyam Jamliya** 1255-1256
- Effect of Temperature Regimes on Performance of Wheat (*Triticum* sp.) Genotypes **Heenakousar R. Mulla and D. I. Jirali** 1257-1261
- Evaluation of Carnation (*Dianthus caryophyllus* L.) Varieties under Naturally Ventilated Polyhouse **Dona Ann Jose, Ms. U. Fatmi, Dr. Devi Singh and Justo C. Benny** 1262-1266
- Phenetic Study of some Indian Solanaceae based on Foliar Micromorphogy, Palynology and Reproductive Potentiality **Mridushree Basak, Aparna Saha Sonar and Monoranjan Chowdhury** 1267-1273
- Performance of Different Floribunda Rose genotypes for Growth Parameters **G.P. Vijayalaxmi, G.K. Seetaramu and S. K. Balaji** 1274-1276
- Influence of Post-harvest Treatments on Storage Behaviour and Fruit Value of Ber (*Zizyphus Mauritiana*) cv. Gola **Dishant Jain, Dilip Singh Kachwaya, Venkata Satish Kuchi and Ghumare Vikas** 1277-1282
- Performance of Wedge Grafting in Guava (*Psidium guajava* L.) under different Growing Conditions **Mutteppa Gotur, D.K. Sharma, S.L. Chawla, C.J. Joshi and K. Navya** 1283-1287
- Some Ethnomedicinal Plant Species of Padmalaya Forest Region of East Khandesh Jalgaon District, Maharashtra, India **R. M. Bagul** 1288-1292
- Performance of Gingelly variety YLM-66 (Sarada) under rain fed conditions in the HAT zone (Andhra Pradesh), India **V. Govardhan Rao and P. Venkata Ramana** 1293-1296
- Feasibility of Sugarcane based Intercropping Systems for Subtropical India **Shri Prakash Yadav and Sonia Yadav** 1297-1300
- Maximization of Productivity for Rice (*Oryza sativa*) through Improved Technologies in Farmer's Fields **B. K. Tiwari, K. P. Tiwari, K. S. Baghel, K. V. Sahare, A. K. Patel and A. K. Pandey** 1301-1304
- Genotypic Analysis for Heat Susceptibility Index in two Environments in Barley for Grain Yield and its Associate Traits **Moti Ram and A. S. Shekhawat** 1305-1310
- Studies on Microbiological Analysis of Street Vended Fresh Fruit Juice and their Comparison with the Processed Juices **Sadaf Aleem and P. W. Ramteke** 1311-1318

- Effect of Irrigation and Integrated Nutrient Management on Growth and Yield of Chickpea (*Cicer arietinum* L.)
Ripudaman Singh, Sanjiv Kumar, Hemant Kumar, Mukesh Kumar, Ashok Kumar and Dharmendra Kumar 1319-1323
 Agricultural Statistics of Area, Production and Productivity of Rice of different Sectors of U.P., India
Ajit Singh, Ashish Singh, Snehdeep, R.S. Yadav and Amit Yadav 1324-1328
 Impact of Value Added Tomato based Product for Income Generation of Farm Women
S. P. Tripathi, R. P. Patel, S. P. S. Somvanshi, H. P. Singh and B. Dubey 1329-1331
 Identification of QTLs for Spikelets per Panicle in Rice (*Oryza sativa* L.)
Temin, Namrata Dhirhi, Ritu R. Saxena and Govind Sahu 1332-1338
 Reproductive and Yield Parameters among Seed Cluster Bean Cultivars under West Godavari Conditions
Sayed Sefatullah, A.V.D. Dorajeeroo and M. Sattiraju 1339-1342
 Study the Yield and Economics of High Yielding Wheat in Comparison with Local Ones at different Farms Levels
Ajit Verma, S.P. Singh, Sarita Srivastava, Vinod Singh and Avinash Kumar 1343-1344
 Association Between Yield and its Attributes in Seed Cluster Bean
Sayed Sefatullah, A. V. D. Dorajeeroo, D. R. Salomi Suneeta and K. Umakrishn 1345-1349
 Path coefficient Analysis for Yield and Quality Components in Cherry Tomato (*Solanum lycopersicum* var. *cerasiforme*)
D. M. Renuka, A. T. Sadashiva, S. Ambreesh and M. Sheela 1350-1352
 Variability, Heritability and Association Studies in F_4 and F_5 Generation for Traits Related to Water Use Efficiency and Yield Traits in Groundnut (*Arachis hypogaea* L.)
M. R. Bhavya, J. Shanthala, D. L. Savithamma and Syed Sab 1353-1360
 Generation Mean Analysis for Yield and its Components in Green Gram [*Vigna radiata* (L.) Wilczek]
S. M. Yadav, Ved Prakash and O. P. Khedar 1361-1367
 A Study on Agricultural Schemes for Saharia Tribes in Sheopur District of Madhya Pradesh, India
Praveen Kumar Singh Gurjar, Amit Kumar, S.C. Shrivastava, Lakhan Singh, Chandrabhan Singh and Neeraj Hada 1368-1370
 Effect of Graded Levels of Nitrogen and Potassium on Growth and Flower Yield of Annual Chrysanthemum (*Chrysanthemum coronarium* L.)
P. Ravi Teja, V. Vijaya Bhaskar, A. V. D. Dorajeeroo and P. Subbaramamma 1371-1376
 Influence of Pre-sowing Biofertilizer Seed Treatment on Growth and Yield Parameters in Rice (*Oryza sativa* L.)
S. Anand and A. Kamaraj 1377-1380
 Study the Effect of Organic and Inorganic Fertilizers on Yield and Economics in Brinjal at different Farms
Ajit Verma, S.P. Singh, Sarita Srivastava, Vinod Singh and Avinash Kumar 1381-1382
 Effect of Botanical Seed Priming on Seed Quality Characters in Blackgram [*Vigna mungo* (L.) Hepper] cv. CO 6
J. Gunasekar, A. Kamaraj and S. Padmavathi 1383-1387
 Genetic Divergence among Selected Sugarcane (*Saccharum* spp.) Clones for Cane Yield and Quality Attributes
S.N. Swamy Gowda, K. Saravanan and C.R. Ravishankar 1388-1390
 Effect of Planting Geometry and Nutrition on Growth and Flowering of Seed Guar cultivars
M. Tagore Naik, D. Srihari, A. V. D. Dorajeeroo, K. Sasikala, K. Umakrishna and D. R. S. Salomi Suneetha 1391-1403
 Variation in Soil Physico-chemical Properties in Dry Tropics : Effect of Land-Use Change
Chandra Mohan Kumar and Nandita Ghoshal 1404-1410
 Impact of Pre and Post Harvest Treatments on the Shelf Life of Guava cv. Pant Prabhat under Valley Condition of Garhwal Himalaya
Vipin Pancholi, Tanuja and D. K. Rana 1411-1414
 Productivity Enhancement in Tomato through Integrated Crop Management in Sagar District of Madhya Pradesh, India
K. S. Yadav and A. K. Tripathi 1415-1418
 Knowledge and Adoption Index of Chickpea Production Technology among the Small Farmers of Hoshangabad District
Sanjeev Verma, Deepali Bajpai, and A. K. Shrivastava 1419-1420
 Effect of Fertilizers with and without FYM on Growth, Yield Attributes and Yield of Soybean [*Glycine max* (L) Merrill] Varieties in Medium Black (Vertisol) of Vindhyan Plateau of Madhya Pradesh, India
G. S. Jamliya and M. D. Vyas 1421-1424
 Influence of Nutrient Deficiencies on Nutrient Content, Uptake and their Interactions in Gerbera through Solution Culture
Ch. Sai Ratna Sharavani, B. Neeraja Prabhakar, M. Chandini Patnaik, A. Girwani and Ramesh Thatikunta 1425-1430
 Combining Ability Studies in Bhendi [*Abelmoschus esculentus* (L.) Moench]
Chintala Venkata Raju and Y. Anbu Selvam 1431-1434
 Performance of Potato cv. Kufri Asoka as Influenced by Graded Levels of N, P and K
D. Marthha, G. S. Sahu, P. Sahu and N. Mishra 1435-1438

- Agro Meteorological Indices Influenced by Varying Sowing Environment and Varieties of Wheat under Sub-temperatre Climate of Himachal Pradesh, India **Karan Verma, Ranbir Singh Rana and Pankaj Chopra** 1439-1443
- Effect of Pre-sowing Biofertilizer Seed Treatment on Morphological and Physiological Seed Quality in Rice (*Oryza sativa* L.) **S. Anand and A. Kamaraj** 1444-1446
- Is Organic Farming an Alternative to Indian Intensive Farming? **V. Kavitha and K. Chandran** 1447-1452
- Effect of Irrigation and Integrated Nutrient Management on Water Use Efficiency and Nutrient Uptake of Chickpea (*Cicer arietinum* L.) **Ripudaman Singh, Sanjiv Kumar, Hemant Kumar, Mukesh Kumar, Ashok Kumar and Dharmendra Kumar** 1453-1456
- Effect of Foliar Application of Micronutrients on Physical Parameters of Winter Season Guava (*Psidium guajava* L.) cv. Lalit **Ajay Yadav, R. S. Verma, R. B. Ram, Viplaw Kumar and Ram Kewal Yadav** 1457-1459
- Entrepreneurship Development Promotion through Millet Processing in Raichur District of Karnataka State, India **Mouneshwari R. Kammar and S. Vanishree** 1460-1462
- Etiology and Ecology of Fungi causing Postharvest Diseases of Banana Fruits in Egypt **Hassan Abd El Rafea Zoier, Hassan Mohamed El Zahaby, El Sayed Hussein Ziedan and Hanafy Farouk Maswada** 1463-1468
- Correlation and Path Coefficients Analysis in Medium Duration Genotypes of Rice (*Oryza sativa* L.) **M. Anbarasu, S. Thirugnanakumar and R. Eswaran** 1469-1472
- Efficacy of Hand Weeding, Different Pre and Post-emergence Herbicides and their Combinations for Weed Management in Soybean Crop **Vikas Gupta, S. K. Mishra, R. K. Saraf and Akhilesh Tiwari** 1473-1477
- The Study Groups to *Erica arborea* Phytoecologique in the North–West Algerian : Case of the Forest of Bissa **Belhacini Fatima, Ateur Djame L. and Bouazza Mohammed** 1478-1482
- Effect of different Chemicals on Germination and Seedling Growth of Chironji (*Buchanania lanzan* Spreng.) **C. J. Joshi, D. K. Sharma¹, Mutteppa Gotur and Rajni Rajan** 1483-1486
- Knowledge Level of Farmers about the Recommended Package of Practices and Production Technology on Rapeseed and Mustard Crop : A Study from Jaipur District of Rajasthan, India **Mukesh Kumar Yadav, Amod Sharma, Arun Kumar Rajbhar and Kankabati Kalai** 1487-1491
- Costo f Cultivation on Mustard (*Brassica olerasia*) in Meerut District of Western Uttar Pradesh, India **Prince Kumar, K. K. Singh and Swatantra Pratap Singh** 1492-1494
- Correlation and Regression Analysis for Describing the Inherent Variation in Yield of Wheat Crop under Rice-wheat Cropping System on Long Run Basis **Vikas Gupta and H. L. Sharma** 1495-1500
- Assessment of Heterotic Effects in Rice (*Oryza sativa* L.) Coastal Saline Environment **R. Thirumalai, K. Palaniraja and S. Vennila** 1501-1504
- Seasonal Incidence of Mustard Aphid, *Lipaphis erysimi* in Jhansi During Rabi Crop Season **Vijay Sahu, Raja Ram Yadav, Rudra Pratap Singh and P.K. Bareliya** 1505-1507
- Level of Aspiration of Tribal Youths Regarding different On-Farm and Off-Farm Activities **Teerth Singh Shandilya, Bhupesh Kumar Chaturvedi and D. K. Suryawanshi** 1508-1510
- Impact of Agricultural Technology Management Agency on Rural Economy of Nagaland, India **Imtiwalling, Amod Sharma, Mukesh Kumar Yadav, Arun Kumar Rajbhar and Kankabati Kalai** 1511-1516
- Eco-Taxonomical Studies on Diatoms from the Chambal River (Central India) **Sarika Grover, Prateek Srivastava, Jyoti Verma and Ambrina Sardar Khan** 1517-1532
- Effect of Gamma Irradiation on F₁M₁ Seeds in Black gram [*Vigna mungo* (L.) Hepper] **S. Anandhi Lavanya, C. Vanniarajan, J. Souframanien and S. Ganeshram** 1533-1536
- Genetics of Resistance to Powdery Mildew Disease in Linseed *Linum usitatissimum* L. **M.P. Chauhan, Tejasvi Singh* and Vinod Singh** 1537-1538
- An Economics Analysis of the Marketing of Potato in Jaunpur Mandi of Uttar Pradesh, India. **Yogesh Yadav and D. Singh** 1539-1542
- Studies on Weed Management Practices in Wheat [*Triticum aestivum* (L.)] **Narayan Shakya and J. P. Dixit** 1543-1548
- Effect of different Levels of Potassium on Growth, Yield Attributes and Yields of Chickpea Varieties **Hemant Kumar, Ripudaman Singh, D. D. Yadav, Ruchi Yadav, M. Saquib and R. K. Yadav** 1549-1553
- Genetic Fidelity of Micropropagated *Oroxylum indicum* (L.) Vent. by RAPD Marker **Esha Rami and Illa Patel** 1554-1558

- Studies on Preparation of Wood Apple Squash and its Organoleptic Evaluation
V.U. Raut, Madari Sirisha, Neha Chopde, P.D. Raut and P.N. Bhute 1559-1562
- Ethnomedicinal Appraisal of Medicinal Plants used by Ethnic Communities of District Anantnag and Budgam of Kashmir Himalaya, India
Haleema Bano, M. A. A. Siddique and M. Ashraf Bhat 1563-1576
- Studies on the Influence of Spacing and Nutrient Management Practices on Growth and Yield Attributes of Maize Hybrids
A. P. Sivamurugan and R. Ravikesavan 1577-1580
- Appraisal of Genetic Variability and Character Association Studies in Some Exotic Upland Rice Germplasm
Neha Srivastava, G. Suresh Babu, Onkar Nath Singh, Ramlakhan Verma and Sudhir K. Pathak 1581-1586
- Standardization of Drying Techniques for Different Fruit Peel for Making Potpourris
G. Sunil Kumar, R. Nagaraju, K. Swarajyalakshmi, P. Latha and M. Balakrishna 1587-1593
- Assessment of Correlation Coefficient for Growth, Yield and Quality Traits in Cherry Tomato (*Solanum lycopersicum* var. *cerasiforme*)
D. M. Renuka, T. H. Singh, Ambresh and M. Sheela 1594-1596
- Genetic Variability, Heritability and Correlation Coefficient in Okra (*Abelmoschus Esculentus* (L.) Moench) in Allahabad Agroclimatic Conditions
Deepanshu and Abdul Shamad 1597-1602
- Effect of Inorganic and Bio-fertilizers on Physico-chemical Characters and Benefit Cost Ratio of Strawberry [*Fragaria x ananassa* L. Duch.] cv. Chandler in Central Uttar Pradesh, India
Shashank Verma, Sanjay Kumar, Sutanu Maji and Rakesh Kumar Meena 1603-1606
- Superimposition of Organic Sources of Manures to Enhance Growth, Yield Attributes and Yield of Scented Rice (*Oryza sativa* L.) and its Impact on Soil Health
M. Saquib, Ripudaman Singh, Hemant Kumar, Ruchi Yadav, S. K. Chaudhary, M. P. Yadav and Naushad Khan 1607-1611
- Biochemical Studies of Differentiating Callus Cultures of *Oroxylum indicum* (L.) Vent.
Esha Rami and Illa Patel 1612-1616
- Genetic Divergence of Green gram [*Vigna radiata* (L.) Wilczek] Grown in Coastal Saline Low Land of Tamil Nadu, India
G. Jeeva and K. Saravanan 1617-1620
- Value Addition of Underutilised Fruits with a Conceptual Model for Women Empowerment
N. Hema Sarat Chandra, G. Divyasree and Vishwatej Rudroju 1621-1624
- Constraints Analysis in Relation to the Adoption of SRI Technology by the Farmers in Rewa District (M.P.), India
Dharmendra, Sanjay Singh, Toranlal Nishad, Nikhil Kshatri and B. K. Tiwari 1625-1626
- Utilization Pattern of Kisan Credit Card (KCC) among Tribal Farmers in Sidhi District (M.P.), India.
Awadhesh Verma, A.S Chouhan, Sanjay Singh & Toran Lal Nishad 1627-1629
- Stability Analysis in High Altitude Single Cross Maize Hybrids under Temperate Niches
Syed Towseef Ahmad, G. Ali, Z.A. Dar, M.A. Bhat, I. Abidi, A.A.Lone, M.A. Ahangar, Kamaldin, R.A. Lone and A.R. Vaid 1630-1634
- Effects of Variation in Seed Sources and Pre-sowing Treatments on Seed Germination of *Terminalia chebula*-A multi-purpose Tree Species
Manzoor A. Dar and S. K. Agnihotri 1635-1642
- Response to Foliar Spray of Micro-nutrients (Zn, Fe and Cu) in Respect to Growth and Flower Productivity of China Aster (*Callistephus chinensis* (L.) Nees) cv. Princess
Vipin Khilari Verma, J. P. Verma and Rakesh Kumar Meena 1643-1646
- Efficacy of Biofertilizers on Growth, Yield and Quality of Sprouting Broccoli (*Brassica oleracea* var. *italic* Plank), cv. Pusa Broccoli KTS-1
Pradeep Kumar, Sanjay Kumar, Rakesh Kumar Meena, Rajeev Kumar and Ranjeet Rawat 1647-1650
- Design a Seed Metering Wheel for Sowing Corn (*Zea mays*) Seeds
Kalay Khan, S. C. Moses, Ashok Kumar and Shweta Soni 1651-1657
- Integrated Crop Management in Chillli for Enhancing Productivity and Profitability under Farmers Condition
K. S. Yadav and A. K. Tripathi 1658-1660
- Electrical Augmentation of Seed Germination in Chick pea
Horom Unsugmi, Pragati Sahai, Vimlendu Bhushan Sinha and Rajiv Dutta 1661-1664
- A Study of Phytoconstituents and Antimicrobial Potential of different Leaf Extracts of *Paeonia emodi* Wall.
Meena and N.S. Bisht 1665-1668
- Cadmium Induced Morphological and Phytotoxic Effects on different Plant Parts of Maize (*Zea mays* L.) Seedlings : Evidence for Alterations in Nutrient Dynamics and Enzyme Activities
R. Sudhagar and D. Sassikumar 1669-1676
- Livelihood Dependency of Tribals and Facing Constraints in Marketing and Utilizing non-timber Forest Products : An Economic Analysis in Korba District of C.G., India
Vijendra Kumar Sharma¹ and Akanksha Pandey 1677-1680
- Effect of Heat Stress on Biophysical and Biochemical Parameters in different Wheat Species
Renuka S. Herkal, D. I. Jirali and S. A. Desai 1681-1684

- Structural and functional features of the leaves of the dominant plants in the tidal zone of the White Sea
Evgenia F. Markovskaya, Elena N. Gulyaeva, Anatoly A. Kosobryukhov, Kira V. Morozova and Lyudmila A. Sergienko 1685-1692
- Assessment of Planting Geometry in Rice under system of Rice Intensification (SRI)
B.K. Tiwari, K.S. Baghel, A.K. Patel, P.N. Tripathi, A.K. Pandey and Dharmendra 1693-1696
- Evaluation of Various Physico-Chemical Treatments on Seed Germination of *Rheum australe* D. Don. and *Podophyllum hexandrum* (Royle.): Two Endangered Medicinal Plant Species of the Kashmir Himalaya, India
Haleema Bano, M. A. A. Siddique, M. Ashraf Bhat and S. A. Mir 1697-1706
- Assessment of Heterotic effects in Sesame (*Sesamum indicum* L.)
S. Karthickeyan, Y. Anitha Vasline and K. Saravanan 1707-1710
- Morphological study of pollen grains for some genera of subfamily Papilionoideae
Shaemaa Muhi AL-Amery and Nedaa Adnan Abu-Serag 1711-1723
- Assessment of Prevalence of Deficiency of Trace-Element and Micro-nutrients among Adolescence on Clinical Basis ("10-14" Years)
Anwesa Sahoo and Seema Sonkar 1723-1726
- Impact of Wheat and Mustard Crop Water Requirements on Water Resources Management of Development Corridor
Kuldeep Tiwari, Rohit Goyal and Archana Sarkar 1727-1733
- Performance of Amaranthus genotypes under Lucknow conditions
Sanjay Kumar, Sutanu Maji and Sunil Kumar Rawat 1734-1738
- Problem faced by Dairy Farmers of District Ashok Nagar Grid Zone Adopting animal Management Practices
B.S. Gupta*, S.P.S. Somvanshi¹, V.K. Jain and H.K. Trivedi 1739-1742
- Effect of urea and *Azotobacter* on growth, yield and biochemical parameters of wheat (*Triticum aestivum*) varieties AAI-W14 & K-65 under late sown condition
A. Mandal and P. R. Kongala 1743-1748
- Influence of crop load on Sugars and Pectin content of guava (*Psidium guajava* L.) cv. Allahabad Safeda at different stages of fruit growth under meadow planting system
Prabhugouda Patil, A. Kiran Kumar, A. Bhagwan and M. Sreedhar 1749-1755
- Effect of phosphorus and sulphur on yield attributes, yield and nutrient uptake of Mungbean (*Vigna Radiata* L.) in central plain zone of Punjab, India
Parmdeep Singh, Kamlesh Kumar Yadav*, Fatteh Singh Meena, Bharti Singh and Ramandeep Singh 1756-1760
- Phenolics compounds of olive and olive leaves identified in the resistance to *Prays oleae* (Bernard)
Faiza Ilias, Kenza Medjdoub² and Nassira Gaouar 1761-1764
- Superimposition of organic sources of manures to enhance yield and quality parameters of scented rice (*Oryza sativa* L.) in Indo-Gangetic Plain zone
M. Saquib, Ripudaman Singh, Hemant Kumar, M. P. Yadav and Naushad Khan 1765-1768
- Knowledge Extent of Dairy Husbandry Practices between Milk Producers of Eastern and Western Uttar Pradesh, India
Manoj Kumar, R. K Doharey, Rahul Kumar Singh and Manoj Kumar 1769-1772
- Assessment of the effect of cold storage on Sensory and Nutritional Quality of food items
Seema Sonkar and Preeti Suman 1773-1776
- Post Harvest life of Rosa Hybrid L. cv. Naranja as effected by Wrapping Materials and Storage durations
Parul Punetha and Ranjan Srivastava 1777-1782
- Rare and New Flowering Plants of Cuddalore District, Tamil Nadu, India
D. Subramanian 1783-1789
- Cyanobacteria as a Novel Source of Renewable Energy
Garvita Singh 1790-1794
- Mass Multiplication of Biocontrol agents in Brinjal shoot and Fruit Border, *L. Orbonalis* under *In-vitro* (LAB) and *In-vivo* Microplot condition
P. K. Bareliya, R. R. Yadav, R. P. Singh, R. K. Vishnoi, R. Pandey, N. Pratap and P. C. Yadav 1795-1797