

# Plant Archives

<b>Volume 17</b>	<b>Number 1</b>	<b>April - 2017</b>
------------------	-----------------	---------------------

## **Contents**

Screening of Resistencia for Spot Blotch in Barley ( <i>Hordeum vulgare L.</i> ) Genotypes <b>Kavita, S. K. Pande, Dalbeer, Divya Singh and Rajesh Saini</b>	1-7
Web GIS based Identification and Mapping of Medicinal Plants : A Case Study of Agra (U.P.), India. <b>Brototi Biswas, Sakshi Walker and Mayank Varun</b>	8-20
Heterosis Studies for Yield and Yield Contributing Traits in Cucumber ( <i>Cucumis sativus L.</i> ) <b>Shailaja Punetha, D. K. Singh, Basavaraj Makanur, N. K. Singh and Deepali T. Panday</b>	21-27
Estimation of Genetic Variability for Quantitative and Qualitative Traits in Cucumber ( <i>Cucumis sativus L.</i> ) under Subtropical Conditions of Garhwal Himalaya <b>K. N. Shah, D. K. Rana and V. Singh</b>	28-32
Effect of Plant Growth Regulators on Growth, Biochemical Changes and Yield of Mustard [ <i>Brassica juncea</i> (L.) Czern. & Coss.] <b>Nitish Sharma, Nikita Nehal, Monika Singh, Prashansha Singh, Priyanka Rajpoot, Anand Kumar Pandey, A. H. Khan, A. K. Singh and R. K. Yadav</b>	33-38
Analysis of Heavy Metal Concentration in Ground Water Around Industrial Area MIDC Lote, Maharashtra, India <b>Manoj Kumar Dev, S. D. Zodge, U. Y. Puranik and Chandraprabha Miri</b>	39-42
Character Association and Path Analysis in Wheat ( <i>Triticum aestivum L.</i> em Thell) under Temperate Conditions of Kashmir, India <b>Nusrat Jan, Eugenia P. Lal, Subhash C. Kashyap and G. A. Parray</b>	43-50
Cultural Characteristics of <i>Ceratocystis fimbriata</i> Ell. and Halst. on different Solid Media Causing Wilt in Pomegranate <b>Raja, Gururaj Sunkad, Y. S. Amaresh, S. T. Yenjerappa, A. Amaregouda and A. G. Shreenivas</b>	51-54
Prevalence of Fungal Spores Belonging to Deuteromycotina over Guava ( <i>Psidium guajava</i> Linn.) Orchard in Nashik, Maharashtra, India <b>H. P. Shinde and P. P. Ahire</b>	55-58
Standardization of Protocol for best Blending Ratio of Papaya cv. Red Lady and Guava cv. Lalit Fruit Pulp for Preparation of Fruit Bar <b>A. Laxman Kumar, C. Madhumathi, Syed Sadarunnisa and K. Srikanth</b>	59-68
Investing in the Health of Soil : Paramount to Future of Farming <b>Beila Sehdev Krishnan, Shivam, Naleeni Ramawat and Renu Yadav</b>	69-74
Yield, Nutrient Uptake and Soil Fertility of Maize ( <i>Zea mays L.</i> ) as Influenced by Varying Nutrient Management Practices under Temperate Conditions of Kashmir Valley, India <b>Rayees A. Shah and B. A. Wani</b>	75-78
Combining Ability Studies in Brinjal ( <i>Solanum melongena L.</i> ) <b>K. Kannan, P. Thangavel and S. Padmavathi</b>	79-82
Influence of Paclobutrazol and Cycocel on Growth, Fruitfulness and Physiological Characteristics of Olive ( <i>Olea europaea L.</i> ) <b>Arun Kumar, R. P. Singh and N. Sharma</b>	83-88
Stability Analysis for Yield and its Components in Pigeonpea [ <i>Cajanus cajan</i> (L.) Millsp.] under Irrigated Conditions <b>Ramesh, S. Muniswamy and B. Praveenkumar</b>	89-93
Evaluation of Seed Quality Parameters of Chilli Cultivars Collected from Different Locations of Gujarat, India <b>Kalyani Kumari, G. C. Jadeja and S. T. Patel</b>	94-98
Attitude of the Trained Farmers Towards the Trainings Conducted by Krishi Vigyan Kendras of Shahdol Division (M.P.), India <b>Khusyal Sahare, A. K. Gupta, Sanjay Singh, B. K. Tiwari and Dharmendra</b>	99-102
Genetic Variability Studies on F <sub>5</sub> Generation of Brinjal ( <i>Solanum melongena L.</i> ) <b>S. B. Nilakh, B. L. Thaware, J. S. Dhekale and M. G. Palshetkar</b>	103-105
Profitability of Post Emergence Herbicides under Transplanted Rice in <i>Vertisols</i> <b>Madhulika Singh, G. K. Shrivastava and P. R. Paikra</b>	106-110
<i>In vitro</i> Evaluation of Fungicides against <i>Ceratocystis fimbriata</i> Ell. and Halst. Causing Wilt in Pomegranate <b>Raja, Gururaj Sunkad, Y. S. Amaresh, S. T. Yenjerappa, A. Amaregouda and A. G. Shreenivas</b>	111-114
Analysis of Genetic Divergence in Niger [ <i>Guizotia abyssinica</i> (L.F.) Cass.] Germplasm <b>Aruna Devi Ahirwar, V. N. Tiwari, G. K. Rai and S. K. Ahirwar</b>	115-117
Growth and Yield Response of Soybean to different Crop Arrangements and Nutrient Managements under of Maize ( <i>Zea mays L.</i> ) - Soybean ( <i>Glycine max L.</i> ) Intercropping System <b>Pragya Pandey, M. C. Bhambri and S. S. Kolhe</b>	118-124

*continued on next page*

Study of Iron Deficiency Anaemia in Farm Women of Lucknow District in Uttar Pradesh, India Veenika Singh, Deepak Rai, Shalini Thakur and Viveka Nand Singh	125-128
Assessment of Genetic Variability among Genotypes of <i>Amaranthus tricolor</i> Ishwar Singh Diwan, Neeraj Shukla and Dhananjay Sharma	129-131
Trends in Growth of Collection and Sales of 'Tendu Leaves' in Chhattisgarh State, India Leelesh Kumar Sahu, Mohamed Arshad Ayub and Om Kumar Netam	132-134
Effect of Certain Eco-friendly Insecticides on <i>Earias vittella</i> (Major Insect) of Okra Crop in Central Region of Uttar Pradesh, India G. P. Singh Yadav, Ramkewal, R. S. Singh and Vikrant	135-140
Effect of Varying Levels of Plant Population and Nutrient Management in Pigeonpea under Zai Methods of Cultivation M. T. Maktumsab, M. B. Guled and V. S. Surakod	141-144
Performance and Phenotypic Stability Estimates of Grain Yield and its Attributes under different Environmental Conditions of some Yellow Maize ( <i>Zea mays</i> L.) Hybrids Y. S. Katta, M. S. El-Keredy, M. S. M. Abd El-Aty, M. M. Kamara and S. M. Mahmoud	145-152
Path Co-efficient Analysis for Yield and its Components in Pigeonpea [ <i>Cajanus cajan</i> (L.) Millsp.] Ramesh, S. Muniswamy and Praveen Kumar	153-157
Decade Trend Analysis of Area, Production and Productivity of Paddy in Bastar Region of Chhattisgarh State Om Kumar Netam and Leelesh Kumar Sahu	158-160
A Consumption Pattern of Agrochemicals, Cost and Returns of Kharif Paddy for Variety MTU-1010 in Bastar Plateau of Chhattisgarh, India Om Kumar Netam, Leelesh Kumar Sahu and Vijendra Kumar Sharma	161-166
Evaluation of the Barley Genotypes against Spot Blotch Disease caused by <i>Bipolaris sorokiniana</i> Divya Singh, S. K. Pande, S. P. Singh, Dharmendra Kumar Singh and Kavita	167-170
Epidemiological Studies on Powdery Mildew of Vegetable Pea Upendra Kumar Nag and C. P. Khare	171-176
Effect of Plant Growth Regulators on Growth and Yield of Okra ( <i>Abelmoschus esculentus</i> L.) S. B. Gadade, V. S. Shinde, D. B. Deosarkar and S. S. Shinde	177-180
Yield Performance of Collected Wild Milky Mushroom ( <i>Calocybe</i> sp.) Vivek Singh, Pradip Kumar, Sanjeev Kumar and Ketan Kumar	181-186
Study of Physico-chemical Properties of Industrial Zone of Soil from Lote M.I.D.C., Maharashtra, India Manoj Kumar Dev, Anusuya Panda, Birrendra Tigaa and Kumar Jay Prakash	187-190
Insect Population Dynamics Influenced by IPM Module in Summer Groundnut Renuka Biradar and Mahabaleshwar Hegde	191-195
Studies of Effect of Zinc Sprays on Growth and Yield of Rose cv. Centenary A. C. Bhaskarwar, Neha Chopde, M. J. Patokar and Snehal Bayaskar	196-198
Management of Isariopsis Leaf Spot of Ber ( <i>Zizyphus mauritiana</i> Lamk.) through Fungicides Sanjeev Kumar, Pradip Kumar, Divya Singh, Prashant Mishra and Sukhvinder Singh	199-200
Influence of Fertilizer Levels on Growth, Yield and Economics of Nutmeg ( <i>Myristica fragrans</i> Houtt) G. Vaidehi, S. Subramanian and J. E. Adeline Vinila	201-206
Energy Balance Components Influenced by different Plant Population and Nutrient Levels under Zai Cultivation M. T. Maktumsab, M. B. Guled and V. S. Surakod	207-210
Studies on Presowing Seed Treatment for Seed Production under Abiotic Stress Condition in Sesame ( <i>Sesamum indicum</i> L.) A. Kamaraj, S. Padmavathi and S. Balasubramanian	211-215
Seasonal Incidence of <i>Heliothis armigera</i> (Hubner) in Gram Crop Vipen Kumar and A. K. Srivastava	216-218
Floral Biodiversity along the Altitudinal Gradient in Northwest Himalayas Amir Bhat, B. Gupta, P. A. Paray, P. A. Khan, N. Singh and R. Negi	219-231
Effect of different Sowing Dates on Growth and Yield Attributes of Wheat in Udhampur Nagar district of Uttarakhand, India Smita Gupta, R. K. Singh, N. K. Sinha, Ajit Singh and U. P. Shahi	232-236
Evaluation of different Coriander Genotypes for Quality Traits Mohammed Farooq, R. V. Hegde and S. J. Imamsaheb	237-240
Estimation of Grain Nutrient and their Association with Grain Yield in Finger Millet [ <i>Eleusine coracana</i> (L.) Gaertn] R. Das, S. R. Pandravada and P. J. Harikrishnan	241-246
Adoption of Spiral Grader as a Value Addition Tool in Pigeonpea Production Mouneshwari R. Kammar, Y. S. Amresh and S. Vanishree	247-250

*continued on next page*

The Genus : A Natural or Arbitrary Entity	<b>Vijai Malik</b>	251-257
Efficacy of Weed Control Practices on Weed Dynamics, Yield and Economics of Chickpea ( <i>Cicer arietinum</i> L.)	<b>K. C. Gupta, Vipen Kumar and R. Saxena</b>	258-260
Response of Pigeonpea to Nutrient Uptake under Zai Method of Cultivation	<b>M. T. Maktumsab and M. B. Guled</b>	261-266
<i>In-vitro</i> Antioxidant Potential of <i>Polygonum convolvulus</i> Extracts	<b>Atefah Eslami, Katayoun Roghani and Ameneh Mohammadi</b>	267-270
Studies on Seasonal Variations in Some Physiochemical Parameters of the Village Ponds of Jhajjar District (Haryana), India	<b>S. K. Gulia, S. A. Ganie and S. S. Yadav</b>	271-281
Effectiveness of Various Treatments in Overcoming Seed Dormancy in White <i>Abrus precatorius</i> L.	<b>Rekha K. and Neenu A. Santhosh</b>	282-284
Ecofriendly Management of Leaf Curl Disease of Chilli through Botanical Bio-pesticides	<b>A. N. Chaubey, R. S. Mishra and Virendra Singh</b>	285-291
Management of Rust Disease ( <i>Ravenalia emblicaiae</i> Syd.) of Aonla ( <i>Emblica officinalis</i> Gaertn.)	<b>Sanjeev Kumar, Pradip Kumar, Prashant Mishra, Santosh Kumar and Sukhvinder Singh</b>	292-294
Evaluation of different Insecticides against American Serpentine Leaf Miner, <i>Liriomyza trifolii</i> (Burgess) (Diptera : Agromyzidae) in Tomato Crop	<b>Deepak Rai, Veenika Singh, Viveka Nand Singh and Ramkewal</b>	295-298
Effect of Different Edible Coatings and Storage Temperatures on Quality Parameters of Ready-to-Eat Arils of Pomegranate cv. Bhagwa Packed in Clamshells	<b>M. Viswanath, B. Srinivasulu, K. Swarajya Lakshmi, K. Gopal, M. Balakrishna and M. L. N. Reddy</b>	299-306
Assessment of Genetic Diversity and Diversity Relationship in different Varieties of Guava using Morphological Characterization	<b>Shalu Ran, Jeet Ram Sharma and M.S. Jakhar</b>	307-311
Effect of Micronutrients (Zn and Fe) as a Foliar Spray on Growth and Flower Production of Marigold	<b>M. J. Patokar, Neha Chopde and Ommala Kuchanwar</b>	312-314
Economical Impact of Tourism and Role of Tourism Financing in India	<b>Mahnaz Khan, Charu Khan, B. K. Dixit and Shiv Mangal Yadav</b>	315-320
Some Biometric Properties of Tomato ( <i>Solanum lycopersicum</i> ) which Influences Mechanical Harvesting Inside Polyhouses	<b>M. Ayisha, K. P. Shivaji and P. Niyas</b>	321-324
Antifungal Activities of Plant Extract as Seed Treatment to Control Wilt in Mung bean ( <i>Vigna radiata</i> L. Wilezek)	<b>Bhupendra Thakre and Jyant Bhatt</b>	325-328
Evaluation of Seed Quality and Detection of Seed Borne Fungi in Paddy Cultivars of Gujarat, India	<b>Kalyani Kumari, N. Sasidharan and Kalyanrao Patil</b>	329-333
Influence of Black gram Varieties Intercropped with Sorghum	<b>D. P. Chaturvedi and R. P. Singh</b>	334-336
Heterosis for Earliness and Component Traits in Soybean ( <i>Glycine max</i> L. Merrill)	<b>Preeti Painkra, Sunil K. Nag, Nandan Mehta and Rajshree Shukla</b>	337-340
Shelf Life Extension of Papaya ( <i>Carica papaya</i> L.) Packaged in Customized Corrugated Fibre Board (CFB) Box after Subjecting to Vibration and Drop Tests	<b>S. Bhuvaneswari, D. V. Sudhakar Rao and G. Senthil Kumaran</b>	341-347
Profitable and Economic Technologies for Quality Seed Production and Enhanced Yields in Chilli	<b>S. Surya Kumari, K. Uma Jyothi, T. Vijaya Lakshmi and P. V. Reddy</b>	348-352
Estimation of Genetic Variation, Path Analysis and Thrips Reaction Studies for Yield and Yield Attributing Traits in Chilli ( <i>Capsicum annuum</i> L.)	<b>K. C. Megharaj, P. S. Ajjappalavara, D. Satish, Revanappa and M. H. Tatagar</b>	353-361
Inter-relationships and Path Analysis for Yield Attributes in Wheat ( <i>Triticum aestivum</i> L.)	<b>Deepak Kumar, R. K. Srivastava, P. K. Yadav, Ashwani Kumar and R. S. Yadav</b>	362-366
Influence of different Plant Growth Regulators on Vegetative Growth and Physico-chemical Properties of Strawberry ( <i>Fragaria X ananassa</i> Duch.) cv. Chandler	<b>Arun Kumar Tiwari, S. Saravanan and Deepak Lall</b>	367-370
Field Identification, Eradication and Current Management of Citrus Canker Caused by <i>Xanthomonas campestris</i> pv. <i>Citri</i> in Satpura Platun of Madhya Pradesh, India	<b>Bhupendra Thakre, Uttam Soni, C. L. Gour, Raksha Vishwakarma and Nancy Jashwani</b>	371-374

Influence of different Concentrations of IBA on the Shooting and Rooting of Hardwood Cuttings of Pomegranate (*Punica granatum* L.) cv. Ganesh under Valley Condition of Garhwal Himalaya

**Keshav Kumar, Tanuja, D. K. Rana and Dinesh Chandra Naithani** 375-379

Utilization of Multiflour Mix for the Development of Idlis to Suit Obesity and other Lifestyle Diseases

**Shikha Kumari and Ritu P. Dubey** 380-384

Plant's Diseases of District Meerut and Adjacent Areas

**Rashtra Vardhana** 385-390

Effect of different Growing Media on Vegetative Growth and Rooting in Pomegranate (*Punica granatum* L.) cv. "Kandhari"

**Manila, Tanuja, D. K. Rana and Dinesh Chandra Naithani** 391-394

Ethnomedicinal Practices for Curing Ear, Nose and Throat (E.N.T.) Diseases : A Critical Review

**Anindita Ghosal and Phatik Tamuli** 395-400

Principal Component Analysis of White willow (*Salix alba*) Germplasm

**P. A. Paray, S. A. Gangoo, A. A. Parrey, A. Bhat and S. J. A. Bhat** 401-406

Characterization and Genetic Variation Study among Linseed (*Linum usitatissimum* L.) Genotypes for Seed Yield and Related Traits in Mid-Hills of North-West Himalayas

**Satish Paul, Nimit Kumar and Ashok Kumar** 407-411

Yield and Quality of Rainfed Cotton in Response to Organic Manures under *Vertisol*

**Manchala Santhosh Kumar, S. M. Bhoyar, P. W. Deshmukh, E. Sathyaranayana and Leena Dajurao Karangami** 412-416

Assessment of Selected Eco-friendly Pesticides on *Amrasca biguttula* *biguttula* of Okra Crop in Central Region of Uttar Pradesh, India

**G. P. Singh Yadav, R. S. Singh, Ramkewal and Vikrant** 417-422

Impact of Frontline Demonstration on Summer Moong through Improved Technology in Bhadohi District of Uttar Pradesh, India

**Shishir Kumar and Wilson Kispotta** 423-426

Entrepreneurial Behavior of Potato Growers and Constraints Faced by Farmers in Production and Marketing of Potato and their Suggestion

**Ravi Singh Gurjar, C. L. Gour, Deepak Dwivedi and S. K. Badodiya** 427-432

Epidemiology and Management of Myrothecium Leaf Spot of Bael (*Aegle marmelos* Correa) in Nursery

**Sarne Ganpati Shivaji, Sanjeev Kumar, Santosh Kumar, Prashant Mishra and Devesh Anand Singh** 433-435

Response of Pinching on Flowering and Quality Parameters of Chrysanthemum

**D. M. Salve, D. M. Panchbhai, Shalini Badge and Vivek Satar** 436-438

Effect of Planting Methods, Organic Nutrient Sources and Bio-fertilizers on Bulb Yield and Quality of Kharif Onion (*Allium cepa* L.)

**Jitendra Singh Gurjar, S. S. Singh, K. N. Nagaich, P. K. S. Gurjar and Lal Singh** 439-444

Indigenous Method of 'Sugar Cake' (*Patali*) Production from *Borassus flabellifer* L. in West Bengal, India

**Sujit Mondal, Anurag Chowdhury, S. K. Basu and Monoranjan Chowdhury** 445-448

Effect of Climate Change on Wheat Productivity and Possible Mitigation Strategies using APSIM-Wheat in Western District of Uttar-Pradesh, India

**Ashok Kumar, Smita Gupta, U. P. Sahi and Ajit Singh** 449-453

Screening of Safflower Germplasm against *Alternaria* Leaf Spot

**Guljar I. Dambal and Rajesh S. Patil** 454-456

Evaluation of some Integrated Pest Management Modules against Shoot and Fruit Borer (*Leucinodes orbonalis* Guenée) in Brinjal (*Solanum melongena* L.)

**Adbhut Yadav, S. K. Sachan and Arvind Kumar** 457-462

Impact of Front Line Demonstration on Yield and Profitability of Chickpea (*Cicer arietinum*) in Sagar District of Bundelkhand Region of Madhya Pradesh, India

**P. K. Mishra and Y. R. Khare** 463-466

Character Association and Path Analysis for Seed Yield & its Components in Black gram [*Vigna mungo* (L.) Hepper]

**Duddukur Rajasekhar, Sapna S. Lal and Gabrial M. Lal** 467-471

Study of different Organic Manure Combination on Growth and Yield of Chilli (*Capsicum annuum* L.)

**G. Chandramohan Reddy, V. Venkatachalapathi, G. Purna Dattha Reddy and S. S. Hebbar** 472-474

Influence of Root Exudates of Main and Intercrops on the Growth of *Rhizoctonia solani* and *Trichoderma* Spp. *In vitro*

**Raksha Vishwakarma, S. P. Mishra and Bhupendra Thakre** 475-478

Screening of Recombinant Inbreed Lines of French Bean (*Phaseolus vulgaris* L.) for Bean Common Mosaic Virus (BCMV) Resistance

**Rohini K. Patil, D. Satish and R. C. Jagadeesha** 479-482

Effect of Rooting Hormones on Adventitious Root Formation of Branch Cuttings of *Dendrocalamus giganteus* ex Munro. (Giant bamboo) through *Ex-vitro* Methods

**Sajad Razvi, Showkat Aziem, S. Nautiyal and Meena Bakshi** 483-487

Assessment of Quantitative Losses due to Insect Pests of Blackgram	<b>S. K. Jat, Lekha and B. S. Rana</b>	488-490
Studies on Toxicity of Rhizospheric Fungi in Combating Infective Larvae and Egg Parasitization of Root Knot Nematode Infecting Brinjal and Okra	<b>Archana Singh, B. K. Goswami and Harender Sharma</b>	491-494
Genetically Diverse Root Nodule Bacteria Associated with <i>Alysicarpus vaginalis</i> from Alkaline Soil of Rajasthan, India	<b>Sonam Rathi, Sushma Gaur, Nisha Tak, Alkesh Tak and Hukam Singh Gehlot</b>	495-505
Chemical Analysis of Volatile Constituents of <i>Flacourzia montana</i> J. Graham (Salicaceae) : An Edible and Wild Fruit of Western Ghats of India	<b>A. C. Mundaragi, D. Thangadurai, J. Sangeetha, S. D. Byahatti and K. A. Anu Appaiah</b>	506-508
Studies on the Effect of different Media and their Combinations on Rooting of Carnation ( <i>Dianthus caryophyllus</i> L.) Cuttings of cv. Keiro under Polyhouse Conditions	<b>K. Renuka and R. Chandra Sekhar</b>	509-512
Technological Policy for Dry Land Agriculture : Some Issues and Approaches	<b>Shiv Mangal Yadav, B. K. Yadav, Soni Yadav, Sandeep Kumar Soni and Ajeet Kumar</b>	513-518
Variability, Heritability and Genetic Advance in Coriander Genotypes	<b>Mohammed Farooq, R. V. Hegde and S. J. Imamsaheb</b>	519-522
Utilization of Fresh Herbs for the Development of Missi Rotis to Suit Lifestyle Diseases with Emphasize on Obesity	<b>Shikha Kumari and Ritu P. Dubey</b>	523-526
An Economic Evaluation of Quality Seed Production of an Important Leguminous Fodder Crop - Cowpea [ <i>Vigna unguiculata</i> (L.) Walp] in Bundelkhand Region, U.P., India	<b>Vikas Kumar and Maharaj Singh</b>	527-531
Trap Crop of African Marigold ( <i>Tagetes erecta</i> ) for Enhancing Rural Household Income and Insect Control in Tomato through Farmers Participatory Approach	<b>Vinita Singh and A. K. Tripathi</b>	532-534
Ideal Growth Conditions for Mass Production of Biocontrol Agent <i>Bacillus subtilis</i> (Ehrenberg) Cohn.	<b>Basamma Hadimani and Shripad Kulkarni</b>	535-538
Application of Nanotechnology in Health Sciences	<b>Neelam Yadav</b>	539-545
Eco-friendly Management of Cercospora Leaf Spot ( <i>Cercospora rauvolfiae</i> ) of Sarpgandha	<b>S. K. Pande, A. N. Chaubey, Virendra Singh and Krishna Pal</b>	546-548
Varietal Changes in Morphological Traits in Potato Cultivars Subjected to Water Stress	<b>Subhash Kumar, Pushpendra Kumar, Devendra Kumar and Punjab Singh Malik</b>	549-556
Generation Mean Analysis for Yield and Grain Quality Characters in Rice ( <i>Oryza sativa</i> L.)	<b>P. Sathesh Kumar, K. Saravanan and T. Sabesan</b>	557-560
Study the Current Status of Mechanization and Major Crops Production Level of Selected Blocks in Etawah District, Uttar Pradesh, India	<b>Prem Chand Yadav, Pradeep Kumar Gupta and Rudra Pratap Singh</b>	561-563
Genetic Variability, Heritability and Genetic Advance in Some Strains of Bitter Gourd ( <i>Momordica charantia</i> L.) under Subtropical Conditions of Garhwal Himalaya	<b>V. Singh, D. K. Rana and K. N. Shah</b>	564-568
Quality of Bloom in Asiatic Lily Hybrids	<b>V. Lakshmi Prasanna and C. R. Mohanty</b>	569-572
Physico-chemical Evaluation of Ten Apple ( <i>Malus domestica</i> Borkh.) Cultivars Grown in Uttarakhand Hills of India	<b>Amit Kotiyal, D. C. Dimri and Ajay Puri Goswami</b>	573-579
Effect of Plant Growth Regulators on Growth, Biochemical and Yield of Indian Mustard [ <i>Brassica juncea</i> (L.) Czern. & Coss.] under Drought Stress Condition	<b>Nikita Nehal, Nitish Sharma, Monika Singh, Prashansha Singh, Priyanka Rajpoot, Anand Kumar Pandey, A. H. Khan, A. K. Singh and R. K. Yadav</b>	580-584
Assessment of Ground Water Quality from Industrial Area Lote M.I.D.C., Maharashtra, India.	<b>Manoj Kumar Dev, U. Y. Puranik, Chandra Prabha Miri and Kumar Jay Prakash</b>	585-588
Comparative Adaptable Agronomic Traits of Blackgram and Mungbean for Saline Lands	<b>Md. K. Hasan, A. El Sabagh, Md. S. I. Sikdar, Md. J. Alam, D. Ratnasekera, C. Barutcular, Kh. A. A. Abdelaal and M. S. Islam</b>	589-593
Studies on Heterosis and Combining Ability in Cotton ( <i>Gossypium hirsutum</i> L.)	<b>J. Gnanasekaran and S. Padmavathi</b>	594-596
Effect of Pre-harvest Nutrients Spraying on Physico-chemical Quality and Storage Behaviour of Rainy Season Guava ( <i>Psidium guajava</i> L.) Fruits cv. L-49	<b>Krishna Kumar Mishra, Sanjay Pathak, Nitish Sharma and Nikita Nehal</b>	597-600
Extracellular Cellulase Activity of Termite Gut Bacteria Isolated from different Geographical Locations of Chhattisgarh (C.G.), India	<b>V. S. Shinde, R. M. Shinde, T. Agrawal and A. S. Kotasthane</b>	601-607
Effect of GA <sub>3</sub> on Growth, Yield and Quality of Phalsa ( <i>Grewia subinqualis</i> D. C.)	<b>Tanveer Alam and Ashok Kumar</b>	608-610
Influence of Host Plant Nutrition on Insecticides Toxicity against Rice BPH, <i>Nilaparvata lugens</i> (Stal)	<b>G. Naga Bharani, K. L. Painkra and Sanjay Sharma</b>	611-614

*continued on next page*

Studies on Performance of French bean ( <i>Phaseolus vulgaris</i> L.) Genotypes for Yield and Quality Traits under Protected Conditions Jitendra Meena, T. S. Dhillon, Anita Meena and K. K. Singh	615-619
Population Dynamics of Major Insect-pests of Cowpea [ <i>Vigna unguiculata</i> (L.) Walp.] and their Correlation with Meteorological Parameters Sandeep Kumar, Ram Singh Umrao and A. K. Singh	620-622
Effect of Water Stress on Haulm Yield, Total Biomass and Harvest Index of Potato Cultivars Subhash Kumar, Pushpendra Kumar, Devendra Kumar and Punjab Singh Malik	623-626
Morphological Characterization of Indigenous Mango ( <i>Mangifera indica</i> L.) Cultivars of Coastal Districts in Andhra Pradesh, India A. HimaBindu, D. Srihari, M. Rajasekhar, V. Sudhavani, P. Subbarammamma and K. Umakrishna	627-633
Efficacy and Economic of Some Granular Insecticide against Whitefly <i>Bemisia tabaci</i> (Homoptera : Aleyrodidae) in Urd Bean [ <i>Vigna mungo</i> (L.) Hepper] Vikash Singh, D. C. Singh, Rahul Singh, Dharmendra Singh and R. S. Yadav	634-636
Communication Behaviour of Farmers Towards Groundnut Production Technology in Raigarh District of Chhattisgarh, India Govind Prasad, K. K. Shrivastava and Y. S. Dhruw	637-640
Chlorophyll Mutations Induced in Rice by Chemical Mutagens Y. Anbu Selvan and Chintala Venkata Raju	641-642
Extent of Damage Caused by Major Insect Pests on Long Duration Pigeonpea [ <i>Cajanus cajan</i> (L.) Millsp.] under Natural Conditions Ram Keval, Rahul Kumar, Snehal Chakravarty and Vijay Kumar Mishra	643-646
Effect of Various Concentrations of Bio-regulators and Humic Acid on Growth, Yield and Quality of French Bean ( <i>Phaseolus vulgaris</i> L.) cv. Contender under Subtropical Condition of Garhwal Hills D. Sharma, D. K. Rana, K. N. Shah, V. Singh and Tanuja	647-650
Management of Powdery Mildew in Grape G. Ram Reddy, D. Anitha Kumari and D. Vijaya	651-654
Diversity of Pest Complex and their Associated Natural Enemies in Cabbage G. C. Jat, R. Swaminathan, P. C. Yadav and Lekha	655-658
Performance of Chickpea ( <i>Cicer arietinum</i> ) under Front Line Demonstration in Sagar District of Madhya Pradesh, India P. K. Mishra and Y. R. Khare	659-660
Impact of Fortification of Chlorogenic Acid Rich Botanical on Silkworm Growth and Cocoon Parameters of Silkworm, <i>Bombyx mori</i> L. Divya Naik, G. M. Patil and Renuka Biradar	661-665
Screening of different Varieties /Accessions of Mustard ( <i>Brassica juncea</i> ) against <i>Lipaphis erysimi</i> (Kalt.) under Natural Conditions Usha Yadav, Kantipudi Rajesh Kumar and Vijay Kumar Mishra	666-671
Knowledge of Recommended Pea Production Technology and Training Needs among Small Farmers of Spiti-An Arid Cold Desert Region of H.P., India Rajeev Kumar and Arun Kumar	672-674
Can High Yielding Varieties Perform Similarly in Organic Farms? Kapil Mohan Sharma and Kirti Bardhan	675-680
Floristic Inventory of Village Ponds of Southern Haryana, India S. S. Gulia, S. A. Ganie, M. S. Bhandoria and S. S. Yadav	681-690
Bio-efficacy of Some Newer Insecticides against <i>Helicoverpa armigera</i> on Tomato Crop Rajmal, M. Raghuraman and Vijay Kumar Mishra	691-696
Role of Gram Panchayat, Explore Obstacles Impeding Proper Functioning of Village Panchayats Diwan Singh, Sunil Kumar, Hari Nandan Prasad, Sunil Kumar and Ram Kishor	697-700
Population Dynamics of Whitefly, <i>Bemisia tabaci</i> (Homoptera : Aleyrodidae) in Urd Bean [ <i>Vigna mungo</i> (L.) Hepper] and their Correlation with Abiotic Factors Vikash Singh, D. C. Singh, Rahul Singh and R. S. Yadav	701-702
Optimisation of Plant Protection Schedule for Management of Insect Pests of Onion G. Suresh, N. Sushila and A. G. Sreenivas	703-710
Character Association among the Yield and Yield Attributes in Bottle gourd [ <i>Lagenaria siceraria</i> (Molina) Standl.] Genotypes Akshay Jain, S. P. Singh and V. P. Pandey	711-714
To Study the Performance of Lentil ( <i>Lens culinaris</i> M.) Varieties under Rainfed Conditions A. C. Yadav, Ashwani Kumar, O. P. Rai, R. N. Maurya, H. C. Yadav and R. S. Yadav	715-719
To Estimate the Processing Cost of Cashew Nut in Bastar District of Chhattisgarh State, India S. K. Nag, A. K. Gouraha and K. N. S. Banafar	720-722
Study on the Socio-economic Status of the Respondents Gram Panchayat in Rural Development in District Kanpur Dehat (Uttar Pradesh), India Diwan Singh, Hari Nandan Prasad, Sunil Kumar, Sunil Kumar and Ram Kishor	723-726
Plant's Diseases of District Ghaziabad and Adjacent Areas Rashtra Vardhana	727-732

*continued on next page*

Estimation of Growth Rate of Area, Production and Productivity of Cashew Nut in Bastar District of Chhattisgarh State, India <b>S. K. Nag, A. K. Gouraha, K. N. S. Banafar and M. R. Chandrakar</b>	733-734
Management Strategies to Rescue Transplantable Vegetables in and Around Yamuna River Belt Against Heavy Metals Contamination and Soil Borne Hidden Enemies -A Matter of Great Concern to Human Health <b>B. K. Goswami, Susmita Chatterjee and Neetu Singh</b>	735-741
<i>In vitro</i> Evaluation of Antibiotics, Chemicals and Bioagents against <i>Xanthomonas axonopodis</i> . pv. <i>Glycines</i> <b>Lambani Kumar and Shamarao Jahagirdar</b>	742-744
Population Dynamics of Major Insect Pests of Linseed ( <i>Linum usitatissimum</i> Linn.) and Assessment of Seed Yield Losses Caused by Them <b>Adbhut Yadav, Tarun Yadav and Rahul Kumar</b>	745-752
Using Line × Tester Analysis to Develop New Source of Cytoplasmic Male Sterile Line in Hybrid Rice <b>M. I. Abo Youssef, M. S. Abd El Aty, S. A. Yousef, M. O. Shehata and U. N. Santhosh</b>	753-759
Screening of Promising Genotypes under Glasshouse and Field Conditions against Bacterial Pustule of Soybean Caused by <i>Xanthomonas axonopodis</i> pv. <i>Glycines</i> (Nakano) Dye <b>Lambani Kumar and Shamarao Jahagirdar</b>	760-762