

Theme 1: Impact of Climate Change in Drylands

Sl. No.	Theme	Theme file	Poster number	Title	Authours
1	1	T-1	P-1	Evaluation of smallholder farmers' adaptation strategies to climate variability and change in Dano, Burkina Faso	Fatoumata Diomandé*
2	1	T-1	P-2	Technological interventions for increased agricultural production in cold arid region of Ladakh	Fayaz Ahmed Bahar*, Ajaz. A. Lone, Z.A. Dar, T.H. Masoodi, M.I. Makhdoomi and Shabir Ah. Ganaie
3	1	T-1	P-3	Climate change and dryland agriculture in Rajasthan	Garima Vaishnav*
4	1	T-1	P-4	Evaluation of resilient Indian mustard cultivars on the basis of physiobiochemical traits, yield attributes and yield functioning under high temperature stress	N.S. Nathawat*, V.S. Rathore, Birbal, M.L. Soni and N.D. Yadava
5	1	T-1	P-5	Managing climate change impact by MRWF in arid regions	N.K. Pareek*, R.S. Rathore, Deepak Chaturvedi and Sitaram Kumawat
6	1	T-1	P-6	Dryland vulnerability and ephemeral streams response to global change: Example from the Raya Graben, northern Ethiopia	Paolo Billi*
7	1	T-1	P-7	Economic impacts of climate change on dry chilli farming in Karnataka	Srinivasa Sasdhar Ponnaluru*
8	1	T-1	P-8	Climate change impact on fruit crops and their mitigation options in arid western Rajasthan	P.R. Meghwal*, R.K. Bhatt and Akath Singh
9	1	T-1	P-9	Weather based crop insurance as an adaptation strategy to climate change in dryland areas of Karnataka	Ravi Dupdal*, S.L. Patil and H. Biswas
10	1	T-1	P-10	Dry farming collaborative: Participatory climate adaptation research	Amy Garrett*

11	1	T-1	P-11	Effect of high temperature on phenology, growth and yield of wheat (<i>Triticum Aestivum</i> L.) under controlled condition	Archana Sanyal*1 and Monika A. Joshi2
12	1	T-1	P-12	Performance of climate resilient technologies on farmers' field to cope with climate variability in Marathwada region of Maharashtra	B.V. Asewar* and M.S. Pendke
13	1	T-1	P-13	Yield performance of climate resilient varieties in NICRA villages of Bundelkhand region	Atar Singh*, S.K. Dubey, Rajeev Singh and Maneesh Kumar Singh
14	1	T-1	P-14	Millets - sustainable food crops of arid and semi-arid tropics under climate change scenario	Vilas A. Tonapi, B. Venkatesh Bhat* and H.S. Talwar
15	1	T-1	P-15	Rainfall trend in India from 1901 to 2017	D.V. Singh
16	1	T-1	P-16	Combating desertification: Preserving traditional farming methods and using new technologies for sustainable olive tree culture in climate change context	Dalenda Mahjoub Boujnah*, Sghaier Asma1, Aissaoui Feten, Laamari Salwa, Chihaoui Badreddine, Mahjoub Zoubeir and Chehab Hechmi
17	1	T-1	P-17	Impact of climate change on drylands	T.K. Sinha*
18	1	T-1	P-18	Adverse effects of exposure to high temperature on crops and their alleviation through foliar spray of zinc	Uday Burman* and Praveen-Kumar
19	1	T-1	P-19	Monitoring aeolian desertification in semi-arid desert region in China	Jian Guo*, Xiang Song and Tao Wang
20	1	T-1	P-20	Effect of weather parameters on initiation and development of aphids and jassids on groundnut crop under rainfed condition	Alpeshkumar V. Khanpara*, V.N. Patel, B.B. Kabaria and V.D. Vora
21	1	T-1	P-21	Management practices to mitigate the impact of high temperature on wheat (<i>Triticum aestivum</i>) in semi-arid region	Hansa Lakhran* and Rohitash Bajiya
22	1	T-1	P-22	Ameliorative capacity of elevated carbon dioxide at high temperature in groundnut (<i>Arachis hypogaea</i> L.): A free air temperature enrichment study	M. Vanaja*, P. Sathish, N. Jyothi Lakshmi, C.H. Mohan, S.K. Yadav, B. Sarkar, M. Maheswari, M. Srinivas Rao, M. Prabhakar, K. Sammi Reddy and G. Ravindra Chary

23	1	T-1	P-23	Health risk assessment of dryland's lethal winter 'dzud' in Mongolia	Shinji Otani*, Abir Majbauddin, Qing Qing, Alam Mohammad Intekhab, Youichi Kurozawa and Masato Shinoda
24	1	T-1	P-24	Growth and yield of cotton as influenced by sowing dates, plant density and fertilizer levels under rainfed conditions in Vidarbha region of Maharashtra	M.M. Ganvir*, A.P. Karunakar, V.M. Bhale, M.B. Nagdeve, V.V. Gabhane, S.S. Wanjari, R.S. Patode and A.R. Tupe
25	1	T-1	P-25	Resource conservation techniques for climate change mitigation and adaptation	Laulina Kumari*
26	1	T-1	P-26	Influence of climate variables on sensitivity of reference evapotranspiration during different seasons	Laulina Kumari* and D.K. Singh
27	1	T-1	P-27	Interaction between climate change drivers and nutrient fertility: Temperature, CO2 and phosphorus	Vangimalla R. Reddy1* and Shardendu K. Singh2
28	1	T-1	P-28	An economic analysis of the impacts of anthropogenic climate change on agriculture: A case study on Hyderabad Karnataka and coastal areas	Jagadeesh* and P.S. Sasdhar

Theme 2: Managing Land Degradation & Desertification

Sl. No.	Theme	Theme file	Poster number	Title	Authours
29	2	T-2	P-1	Natural plant growth resources in Indian Thar Desert: A case study from Sikar and Jhunjhunu districts	C.B. Pandey* P.C. Moharana, R.K. Goyal and Mahesh Kumar
30	2	T-2	P-2	Effect of integrated nutrient management on soil fertility, nutrient uptake, yield and quality of kinnow mandarin on sandy soils (Typic Torripsamments) of Western Rajasthan of India	B.D. Sharma*, R.S. Singh and P.L. Saroj
31	2	T-2	P-3	Strategies for ecological restoration of stone mine spoil areas of south-eastern Rajasthan	B. L. Mina*, S. Kala, H. R. Meena, Shakir Ali, Ashok Kumar, I. Rashmi, G. L. Meena and R. K. Singh
32	2	T-2	P-4	Ailanthus excelsa: A fast growing agroforestry species for greening arid regions and livelihood security	V. Subbulakshmi*, K.R. Sheetal, P.S. Renjith, N.S. Nathawat, M.L. Soni, Birbal and N.D. Yadava
33	2	T-2	P-5	Status of shelterbelts prevailing in farmers' fields in Bikaner region of Rajasthan	K.R. Sheetal*, Birbal, V. Subbulakshmi, P.S. Renjith, M.L. Soni and N.D. Yadava
34	2	T-2	P-6	Karanj (Pongamia pinnta) based silvipastoral system: Ideal technology for effective rehabilitation and utilization of Chambal ravines	S. Kala*, A.K. Parandiyal, H.R. Meena, Ashok Kumar, G.L. Meena, I. Rashmi, B.L. Mina and R.K. Singh
35	2	T-2	P-7	Soil-site suitability evaluation of major crops in soils of North-Western Rajasthan for sustainable agriculture	R.L. Meena*, R.S. Singh, T.P. Verma, P.C. Moharana and S.K. Sing3
36	2	T-2	P-8	Desertification monitoring and vulnerability assessment in context of land use changes in India's arid regions: A case study of Bikaner district of Rajasthan	P.C. Moharana*, Mahesh Kumar and Nidesh R. Dhawale
37	2	T-2	P-9	Preparation of land resources development plan by implementing AHPbased weighted overlay analysis on geospatial inputs	Suparn Pathak*
38	2	T-2	P-10	Spatial assessment of land degradation on grazing lands using the NDVI: A case study of Shekhawati region of hot arid Rajasthan, India	Mahesh Kumar Gaur*, Mahesh Kumar, R.K. Goyal, S.S. Rao, M. Pandian and Suraj Ismail Shaikh
39	2	T-2	P-11	Response of wheat to gypsum application in high RSC water irrigated loamy sand soils of arid Rajasthan	Mahesh Kumar*, Raj Singh and R.S. Yadav

40	2	T-2	P-12	Nutrient cycling, microbial community structure and functional gene abundance associated with <i>Salicornia brachiata</i> Roxb. in coastal soils	Doongar R. Chaudhary* and Aditya P. Rathore
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Theme 3: Soil Health Management, Carbon Sequestration and Conservation Agriculture

Sl. No.	Theme	Theme file	Poster number	Title	Authours
41	3	T-3	P-1	Characterization and classification of soils of Neem Ka Thana tehsil in Sikar district of Rajasthan-India	R.S. Meena*, S.S. Rao and S.K. Singh
42	3	T-3	P-2	Effect of management approaches on microbial population in Ganoderma infested soil	Ritu Mawar*, Deepesh and Surender Kumar
43	3	T-3	P-3	Isolation and screening of bacterial isolates from cluster bean rhizosphere for plant growth promoting attributes	Ramesh Chand Kasana*, M Saritha, Nav Raten Panwar, Uday Burman and Praveen Kumar
44	3	T-3	P-4	Improving crop productivity and resource-use efficiency of pulse-based cropping systems with conservation-agriculture practices under rainfed condition of India	Raj Singh*, V.K. Singh, V. Nangia and A. Sarker
45	3	T-3	P-5	Enriched composting using various low-grade mined product organic residues and native nutrient solubilising microbes of arid zone	N.R. Panwar*, R.C. Kasana, Praveen-Kumar and Uday Burman
46	3	T-3	P-6	Integrated nitrogen management in castor-clusterbean crop rotation under rainfed condition of North Gujarat	C.K. Patel*, N.I. Patel, B.S. Parmar and B.S. Deora
47	3	T-3	P-7	Sesame and mung bean intercropping system: A remunerative option under dryland conditions	Moola Ram*, M.M. Sundria, S. R. Kumhar, Rakesh Choudhary and Neelam Geat
48	3	T-3	P-8	Soil modification for dryland condition	M.D. Ezaz Takmil* and Suraj Mohanty
49	3	T-3	P-9	Effect of mulch and nutrient management on plant water and soil moisture status and organic baby corn (<i>Zea Mays</i> L.) production	Jami Naveen*, M. Saikia, N. Borah, K. Pathak and R. Das

50	3	T-3	P-10	Effect of organic and inorganic amendments on soil erosion and crop productivity of soybean in table lands of South-eastern Rajasthan	I. Rashmi*, B.L. Mina, Kuldeep Kumar, Shakir Ali and Ashok Kumar
51	3	T-3	P-11	Impact of RCTs on microbial indices related to carbon sequestration and nitrogen use efficiency in pearl millet-mustard cropping system in rainfed semi-arid subtropical agro-ecosystem	Geeta Singh*
52	3	T-3	P-12	Characteristics of phosphorus in soils of prevalent regions having contrasting texture and high average peanut (<i>Arachis hypogaea</i> L.) productivity in western India	R.S. Yadav* ¹ , H.N. Meena ² and N.K. Jain ³
53	3	T-3	P-13	Possibilities for biological exploitation of soil legacy phosphorus for plant nutrition in arid soils	R.S. Yadav*, Mahesh Kumar and J.C. Tarafdar
54	3	T-3	P-14	Mapping soil variability of Fatehgarh Tehsil in Jaisalmer district of Rajasthan (India) at 1:10000 scale using geospatial technique	Sajjan Singh Rao*, Ram Swaroop Meena and Surendra Kumar Singh
55	3	T-3	P-15	Green nanotechnology: Sustainable synthesis of nanoparticles	M. Saritha*, Praveen Kumar, N.R. Panwar, R.C. Kasana and Uday Burman
56	3	T-3	P-16	Present status of total and available manganese in soils of Agra district of Uttar Pradesh	Seema Choudhary*, Vinay Singh and N.S. Bhogal
57	3	T-3	P-17	Effect of Rhizobium inoculation on nursery parameters of guar and moth bean under arid conditions	Anjly Pancholy, S.K. Singh and R.C. Kasana
58	3	T-3	P-18	Sixty years of fertilization and liming impacts on surface versus deep soil organic carbon sequestration in a sub-tropical Alfisol	Ankita Trivedi*
59	3	T-3	P-19	Litterfall, litter decomposition and nutrient release in three multipurpose tree species of western arid Rajasthan	Archana Verma*, Praveen Kumar, N.R. Panwar and Sharawan Kumar
60	3	T-3	P-20	Effects of aged biochar on paddy soil properties and rice productivity	Chien-Teh Chen and Aye Aye Aung
61	3	T-3	P-21	Carbon stock in tree biomass of different land use systems in Sirohi district of Rajasthan	Dipak Kumar Gupta*, R.K. Bhatt, A. Keerthika, M.B. Noor mohamed, A.K. Shukla and R.S. Mehta

62	3	T-3	P-22	Conservation agriculture impact on productivity, aggregate-associated nitrogen and nitrogen use efficiency in cereal-based rotations of India	Seema Sepat* and T.K. DAS
63	3	T-3	P-23	Nitrogen sources with and without residue management influences crop yields, water-use and economics in maize systems under conservation agriculture	Shankar Lal Jat*, C.M. Parihar and A.K. Singh
64	3	T-3	P-24	Restoration of degraded land through nutrient management under rainfed condition of lower Shivalik	Sharmistha Pal*, R.P. Yadav, D. Mandal, A.K. Tiwari and V.K. Bhatt
65	3	T-3	P-25	Being nutrient smart: To support climate smart Agriculture	Siosuia Halavatau*
66	3	T-3	P-26	Response of fenugreek to nitrogen levels and foliar zinc application in transitional plains of Luni basin	S.R. Meena*, R.S. Mehta, A.K. Shukla, D.K. Gupta, Kamla K. Choudhary, P.L. Regar, M.B. Noor Mohamed and S.K. Dashora
67	3	T-3	P-27	Effect of nutrient management on yield of Bt cotton under dry farming conditions in North Saurashtra Agroclimatic Zone	V.D. Vora*, P.D.Vekaria, G.S. Sutaria, F.G. Vala and V.L. Modhavadiya
68	3	T-3	P-28	Long term effect of integrated nutrient management on residual soil fertility and sustainable productivity of cotton + greengram intercropping system in Vertisols	Ashwini Chandel, V.V. Gabhane*, M.B. Nagdev, R.S. Patode, M.M. Ganvir and A.B. Turkhede
69	3	T-3	P-29	Standardization of leaf colour chart using split application of nitrogen in wheat (<i>Triticum aestivum</i> L.) under temperate conditions	Zahida Rashid*, R.H. Aijaz Nazir, B. Kanth, A. Shahid Raies, A.A. Saad and A. Rakshanda
70	3	T-3	P-30	Carbon sequestration in saline ecologies for climate change mitigation	P.C. Sharma, Ashim Datta*, Arun Kumar Roy Mahato, Madhu Choudhary, H.S. Jat
71	3	T-3	P-31	Effect of potassium and zinc on growth, yield and quality of garlic (<i>Allium sativum</i> L.)	I.S. Naruka*
72	3	T-3	P-32	Lentil-Rhizobium interaction for amelioration of salt stress	Arpita Das*, Krishnendu Pramanick and Joydeep Banerjee

73	3	T-3	P-33	Next generation fertilizers: The source of nutrients for higher use efficiency and productivity	Ummed Singh*, C.S. Praharaj and N.K. Jat
74	3	T-3	P-34	Effects of Acacia nilotica trees on arable crops production and soil fertility in different agro climatic zones of Rajasthan	Bilas Singh*, G. Singh and Mahipal Bishnoi
75	3	T-3	P-35	Suitable cultural management technologies to enhance productivity of rice	Mangal Deep Tuti*, R. Mahender Kumar, B. Sreedevi, S. Saha, A. Singh, M.N. Arun and V. Sunitha
76	3	T-3	P-36	Crop establishment method and tillage play major role in enhancing productivity of rice-maize system	Mangal Deep Tuti*
77	3	T-3	P-37	Effect of rhizobial inoculation on germination and nursery parameters of Acacia senegal and Prosopis cineraria seedlings	Anjly Pancholy*, Rakesh Pathak and S.K. Singh
78	3	T-3	P-38	Effect of soil and foliar application of nutrients on growth and yield of Bt cotton (<i>Gossypium hirsutum</i> L.)	N.I. Patel*, J.A. Patel, R.N. Singh, C.K. Patel, Hardik N. Patel and B.S. Deora

Theme 4: Water Harvesting & Improving Water Productivity

Sl. No.	Theme	Theme file	Poster number	Title	Authours
79	4	T-4	P-1	Performance of intercrops and water productivity during establishment phase of pomegranate based agri-horti systems in arid Rajasthan	M.L. Soni*, Birbal, V. Nangia, A. Saxena, V.S. Rathore and N.S. Nathawat
80	4	T-4	P-2	Optimizing deficit irrigation for improving water productivity of wheat in hot arid environment	V.S. Rathore*
81	4	T-4	P-3	Modelling climate change impacts on regional water resources	Srishti Gaur* and Rajendra Singh
82	4	T-4	P-4	Rainfall-runoff behaviour of catchments of ponds in arid region	Chetan Kumar Thakur*, Priyabrata Santra, Mahesh Kumar and P.H. Nikumbhe
83	4	T-4	P-5	Potential of crop water productivity mapping for improving food and water security in Sudano-Sahelian region	Boris Ouattara*1, Gerald Forkuor1 and Bachir Saley2
84	4	T-4	P-6	Productivity and profitability augmentation through water harvesting based integrated agricultural production system in arid region	Birbal*, V.S. Rathore, N.S. Nathawat, M.L. Soni and K.R. Sheetal
85	4	T-4	P-7	Water and agronomic management approaches for improved water productivity in rainfed systems	Anurag Saxena*, Soma Srivastava, Raj Singh and Vinay Nangia
86	4	T-4	P-8	Rainwater harvesting potential from solar photo voltaic (PV) module top in arid condition	R.K. Singh* and Priyabrata Santra
87	4	T-4	P-9	Status of fluoride in underground irrigation water of Ladnu tehsil (Nagaur district) and its effect on wheat and mustard	Rajednra Kumar Jakhar* and I.J. Gulati
88	4	T-4	P-10	Groundwater status in the arid zone of Rajasthan: Issues and prospects	R.K. Goyal*, Mahesh Kumar Gaur and C.B. Pandey

89	4	T-4	P-11	Effect of different irrigation methods and mulching on growth, yield and quality parameters of chilli (<i>Capsicum annum</i> L.) in arid condition	R.L. Bhardwaj* and M.L. Maheriya
90	4	T-4	P-12	Water balance estimation of in-situ treated and untreated microcatchments	R.S. Patode*, M.B. Nagdeve, K. Ramamohan Reddy, G. Ravindra Chary and M.M. Ganvir
91	4	T-4	P-13	Improved watershed management in semi-arid area using continuous contour trench approach	Pranesh Kumar Paul*, M.B. Nagdeve and Rajendra Singh
92	4	T-4	P-14	Studies on effectiveness of different lining materials on rainwater storage in farm pond in an Entisols of North bank plains zone of Eastern Himalayan Region	P.K. Sarma*, P. Borah, R. Paul, A. Sonowal, P. Neog and D. Sarma
93	4	T-4	P-15	Enhancing productivity of Bt. cotton through in-situ moisture conservation in rainfed stressed region of Saurashtra	P.D. Vekariya*, J.T. Patel, V.D. Vora and G.R. Sharma
94	4	T-4	P-16	Irrigation scheduling: A climatological approach with soil amendment of charred rice husk along AM in summer groundnut (<i>Arachis hypogaea</i> L.)	P. Balasubramanian*, R. Babu, C.R. Chinnamuthu, K. Kumutha and P.P. Mahendran
95	4	T-4	P-17	Soil moisture content and yield of rapeseed as influenced by moisture conservation and integrated nutrient management (INM) practices	Nitumoni Mahanta*, K. Kurmi, J.C. Das and A. Basumatary
96	4	T-4	P-18	Enhancing productivity and profitability of arid region crops through hydrogel application in soil	N.K. Jat*, R.K. Goyal and R.C. Kasana
97	4	T-4	P-19	Solar powered micro-irrigation system for enhancing water productivity under farm pond in small farm holdings of semi arid tropics	K. Sreenivas Reddy*, V. Maruthi, P.K. Pankaj, M. Kumar, K. Sammi Reddy and T. Saikrishna
98	4	T-4	P-20	Optimization of water productivity of summer clusterbean through deficit irrigation using load cell based mini-lysimeter	H.M. Meena*, R.K. Singh, U. Burman and C.B. Pandey
99	4	T-4	P-21	Post-adoption behaviour of farmers towards soil and water conservation technologies of watershed management in semi-arid regions of Gujarat	G.L. Bagdi*
100	4	T-4	P-22	Fluoride content in underground water of Nagaur district of Rajasthan	Yogesh Sharma*, Rajender Jakhar, Ranjeet Singh, S.R. Yadav and N.K. Pareek

101	4	T-4	P-23	Field research Growboxx	Wim Van Der Zwan*
102	4	T-4	P-24	Plant microbial fuel cell embedded clay-pot irrigation system – bioelectricity production coupled water conservation technology for sustainable crop cultivation in semi-arid region	V. Kiran Kumar*, Man mohan and S. Gajalakshmi
103	4	T-4	P-25	Spatial mapping of crop water productivity using SWAT model in a command area	Vinay Kumar Gautam*
104	4	T-4	P-26	Analysis of groundwater potential zone in a hard rock area through remote sensing, geoelectric survey and GIS - A case study of Shahzad Basin, Lalitpur, Uttar Pradesh	A.L. Haldar, Rajiv Kumar and Gunjan Agnihotri*
105	4	T-4	P-27	Impact of broad beds and furrows on yield and soil moisture under rainfed condition	M.B. Nagdeve*, R.S. Patode, V.V. Gabhane, C.B. Pande and R.S. Mali
106	4	T-4	P-28	Converting drylands from gray to green fields through aquifer recharge in the Thar desert of western Rajasthan, India	L.N. Mathur*
107	4	T-4	P-29	Reducing water and optimising nutrient requirement in dry direct seeded rice under non-puddled condition	B. Sreedevi*, P. Senguttuvelu, P.C. Latha, R. Mahenderkumar, Arti Singh, M.D. Tuti and Soumaya Saha

Theme 5: Conservation & Use of Agrobiodiversity; Developing Adapted Cultivars

Sl. No.	Theme	Theme file	Poster number	Title	Authours
108	5	T-5A	P-1	Promoting the use of cactus pear to enhance sustainable livelihoods in semi-arid areas of India	Vivek Singh Tomar*, Sawsan Hassan, Reena Mehra, Ashutosh Sarker and Mounir Louhaichi
109	5	T-5A	P-2	Performance of wheat varieties under different irrigation condition	Sheela Barla*
110	5	T-5A	P-3	Mainstreaming of plant genetic resources for livelihood support in hot arid region of western Rajasthan	Rajwant K. Kalia* and R.K. Bhatt
111	5	T-5A	P-4	Variation in growth of Prosopis cineraria (L.) MacBride in Indian arid zone	P.K. Roy*, K.B. Choudh and P.C. Moharana
112	5	T-5A	P-5	Dual purpose sorghum varieties development for Nigerien small scale farmers	Ousmane*
113	5	T-5A	P-6	Collection, conservation and scope of crop wild relatives from western Rajasthan, India	Neelam Shekhawat*, Nivedhitha S., Kartar Singh, Om Vir Singh and S.P. Ahlawat
114	5	T-5A	P-7	Nutritional quality of sorghum landraces from ecologically fragile ecosystem of Telangana – India	R. Bhardwaj, Nand Lal Meena*, I.S. Bisht and S.R. Pandravada
115	5	T-5A	P-8	A landrace of stone less ber	Om Vir Singh, Kartar Singh* and Neelam Shekhawat
116	5	T-5A	P-9	Genetic variability of safed musli germplasm from Dang forest region of Gujarat and Maharashtra	Kartar Singh*, Manish Kumar Mittal, Akula Chinapolaiah and Neelam Shekhawat
117	5	T-5A	P-10	Seed purpose watermelon: Prospects and potential in Indian arid zone	Hans Raj Mahla*
118	5	T-5A	P-11	Varietal differences in development of clones in nucleus seed production (Stage-I) of potato	Dhruv Kumar*, Vinay Singh, Manoj Kumar and Murari Lal

119	5	T-5A	P-12	Diversity of insect pollinators of <i>Acacia senegal</i> (L.) Willd.	Shiwani Bhatnagar*, Ameen Ullah Khan, Lokendra Singh Rathore, Imran, Prem Singh Tak, Neha Sharma, Sangeeta Singh and Bindu Nirwan
120	5	T-5A	P-13	Genetic resources of yard long bean and catjang bean: All time vegetable crop of Kerala	Latha M.*, Joseph John K., S. Mani, M. Abdul Nizar and A. Indiradevi
121	5	T-5A	P-14	Plant diversity-hydrological characters across selected land uses under varied landforms of Bikaner district of Indian Thar desert	Dipankar Saha*, R.K. Goyal, Mahesh Kumar Gaur, P.C. Moharana, Mahesh Kumar and C.B. Pandey
122	5	T-5A	P-15	Seed coat dynamics during maturation and storage in berseem clover (<i>Trifolium alexandrinum</i> L.)	Sunil R. Swami*, A. Maity, Sanjay Kumar, Tejveer Singh, Sonu K. Mahawer, Prahalad Singh Yadav and Vijay K. Yadav
123	5	T-5A	P-16	Phenotypic characterization and assessment of plant growth promoting activities associated with root nodulating bacterial strains of <i>Prosopis cineraria</i>	Sangeeta Singh, Vipula Vyas, Bindu Nirwan and Sunil Choudhary*
124	5	T-5B	P-1	Seasonal variability and genetic response of elite bread wheat lines in drought prone environments of Ethiopia	Dawit A. Tigabu, Zerihun Tadesse*, Habtemariam Zegeye and Alemayehu Assefa
125	5	T-5B	P-2	Stability analysis for yield and its contributing traits in sorghum [<i>Sorghum bicolor</i> (L.) Moench] under shallow saline soil condition in arid region	V. Khandelwal*
126	5	T-5B	P-3	Evaluation and identification of parental lines for high Fe and Zn in pearl millet	Vikas Khandelwal*, C. Tara Satyavathi, B.R. Beniwal, R.C. Meena, Dev Vrat Yadav, K.D. Mungra, S.P. Singh, H.T. Patil, L.D. Sharma, Supriya Ambawat, Mahesh C. Kumawat, Sushila Bhanwariya and S.L. Yadav
127	5	T-5B	P-4	Significance of genomics tools and novel approaches for pearl millet improvement in the changing climatic scenario	Supriya Ambawat*, C. Tara Satyavathi, R.C. Meena, Vikas Khandelwal and Manoj Kumar
128	5	T-5B	P-5	Hydroponic based rapid method of screening for drought stress tolerance in maize	Bhupender Kumar*, Shraddha Srivastava, Tanu Tiwari, Sonu Kumar, Meenakshi, Hans Raj Pradhan, Garima Chaturvedi, Krishan Kumar and Sujay Rakshit
129	5	T-5B	P-6	Genetic variability and correlation in fenugreek for yield and yield attributing traits	Santosh Choudhary* and B.R. Choudhary

130	5	T-5B	P-7	Evaluating the performance of bread wheat genotypes for yield and disease resistance	Rut Duga*, Yewubdar Shewaye and Habtemariyam Zegeye
131	5	T-5B	P-8	Flowering phenology behaviour of major berseem (<i>Trifolium alexandrinum</i> L.) varieties	Sanjay Kumar*, Tejveer Singh, A Maity, Sunil R. Swami and Vijay K Yadav
132	5	T-5B	P-9	Selection of drought tolerant wheat genotypes by osmotic stress imposed at germination and early seedling stage	Rina Rani Saha*
133	5	T-5B	P-10	Estimation of genetic variability parameters and rust resistance in bread wheat (<i>Triticum aestivum</i> L.)	Reena Rani*, M.S. Punia and Vikram Singh
134	5	T-5B	P-11	Screening of heat stress tolerant genotypes in pearl millet at seedling stage	R.C. Meena*, Supriya Ambawat, Vikas Khandelwal, Shankar Lal Yadav and C. Tara Satyavathi
135	5	T-5B	P-12	Traits contributing to improved performance of cluster bean [<i>Cyamopsis tetragonoloba</i> (L.) Taub.] in arid regions	Rama Dadheech*, Ramavtar Sharma, Hansraj Mahla and R.K. Bhatt
136	5	T-5B	P-13	Evaluation of single cross pearl millet hybrids and identification of suitable inbred restorers for arid zone	R.K. Solanki*, R.K. Kakani, S.K. Singh and R.K. Bhatt
137	5	T-5B	P-14	Identification of suitable male sterile parents for developing high yielding early single cross hybrids of pearl millet for western arid zone	R.K. Kakani*, R.K. Solanki, S.K. Singh and R.K. Bhatt
138	5	T-5B	P-15	Genetic variability analysis for yield, quality traits and foliar disease resistance in groundnut	Narendra Kumar*, B.C. Ajay, A.L. Rathanakumar, Radhakrishnan T, K.S. Jadon, M.K. Mahatma, Praveen Kona and B.M. Chikani
139	5	T-5B	P-16	Generation mean analysis to estimate genetic parameters for <i>Striga hermonthica</i> resistance in pearl millet	Maryam A. Dawud*, Angarawai I. Ignatius, Pangarayi Tongoona and Kwadwo Ofori
140	5	T-5B	P-17	Genetic variation studies among physiological characters in <i>Cyamopsis tetragonoloba</i> (L.) under rainfed condition of Jaisalmer district	Maharaj Singh* and Venkatesan K.
141	5	T-5B	P-18	Stability analysis for yield and related attributes in <i>Brassica juncea</i> under varying environmental conditions	H.V.S. Shekhawat*
142	5	T-5B	P-19	Identification of male sterility maintainers for hybrid parent development within Genetically diverse landrace sorghum in Nigeria	Angarawai, I. Ignatius ¹ *, Willmar, Leiser ² , Baloua, Nebie ³ , Yeye, Y. Mary ⁴ , Aba, A. Daniel ⁴ and Jonah Jerome ¹

143	5	T-5B	P-20	Growth and yield of buffel grass genotypes after five years of establishment under arid climate	M.P. Rajora*, R.K. Bhatt and M. Patidar
144	5	T-5B	P-21	Development of genome-wide SNP array for accelerating genetic studies and breeding efficiency of pearl millet for marginal environments	Ram B. Singh*, Abhishek Rathore, Sivasurmani S, C. Tara Satyavathi, Rattan S. Yadav, Rajeev Gupta and Rakesh K. Srivastava
145	5	T-5C	P-1	Characterisation of heat-responsive novel mirnas in wheat identified based on mirnome analysis	Mahesh Kumar*, Ranjeet Ranjan Kumar, Suneha Goswami, Jyoti Prakash Singh, Ansheef Ali and Shelly Praveen
146	5	T-5C	P-2	Understanding drought-stress tolerance mechanisms through metabolomics platform	Parviz Moradi*, Mohsen Ashrafi and Mohamad Reza Azimi Moqadam
147	5	T-5C	P-3	Single-plant selection at ultra-low density to improve agronomic performance of barley varieties and landraces	Hajer Ben GHanem*, Mouldi El Felah, Asma Najjar, Zakaria Kehel, Ahmed Amri, Salah Rezgoui and Athanasios L. Tsivelikas
148	5	T-5C	P-4	Genetic diversity in bread wheat (<i>Triticum aestivum</i> L.) using makers linked to the biotic and abiotic traits for crop improvement	Kachalla Kyari Mala*, Dattijo Aminu and Fatima Henkrar
149	5	T-5C	P-5	A novel gene <i>SbRPC5L</i> from <i>Salicornia brachiata</i> Roxb. improved salt and osmotic stress tolerance in transgenic tobacco	Mangal S. Rathore*, Anupam Kumari and Bhavanath Jha
150	5	T-5C	P-6	Identification and validation of simple sequence repeat (SSR) markers linked to <i>Striga gesneroides</i> (Willd.) vatke gene race 2 in cowpea <i>Vigna unguiculata</i> (L.) Walp] in Mali	Sory Diallo*
151	5	T-5C	P-7	Towards developing high lysine, highly digestible sorghum protein after wet cooking	Elisabeth Diatta*, Clifford Weil, Mitchell Tuinstra, Pangirayi Tongoona, Agyemang Danquah, Eric Danquah, Cyril Diatta and Ndiaga Cisse
152	5	T-5C	P-8	Nutritional significance of Malan–landrace of maize from Rajasthan	Rakesh Bhardwaj*, Sapna, I.S. Bisht, Archana Singh, P.B. Singh and Ashok Kumar
153	5	T-5C	P-9	Understanding heat tolerance in pearl millet: Finding a clue from the heat shock transcription factors (Hsfs)	K.C. Sai Bindu, A. Roja Rani, P.B. Kavi Kishore, B. Ram Singh, Pooja Katiyar, M.D. Mahendrakar, P. Bajaj, Rajeev Gupta and Rakesh K. Srivastava*

154	5	T-5C	P-10	Gene expression profiling for nitrogen metabolism in cultivars adapted to low soil nitrogen	Madhu Pusuluri, Vijaya lakshmi Pujarula, Rambabu Ratnala, Srikanth Bollam, Rakesh Kumar Srivastava and Rajeev Gupta*
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Theme 6: Sustainable Intensification & Diversification (Arid Horticulture, Aquaculture, Protected Agriculture)

Sl. No.	Theme	Theme file	Poster number	Title	Authours
155	6	T-6	P-1	Flowering and fruiting behaviour of Sapota (Manilkara zapota) in ravine lands under rainfed conditions of western India	Vijaysinha Kakade*, Raj Kumar, D. Dinesh, V.C. Pande and P.R. Bhatnagar
156	6	T-6	P-2	Sehjan (Moringa oleifera) – Germplasm utilization and technological advancements for cultivation under dry-lands of Rajasthan	D.K. Samadia*, A.K. Verma, S.M. Haldhar, D. Singh and P.L. Saroj
157	6	T-6	P-3	Performance of potato cultivars in saline irrigated water in nontraditional areas of western Rajasthan	M.K. Jatav*, P.L. Saroj and Roop Chand Balai
158	6	T-6	P-4	Changing cropping patterns and irrigation practices: Implications for promoting sustainable growth of agriculture in West Bengal, India	Amartya Pani*
159	6	T-6	P-5	Prospects of sustainable production of pomegranate in Rajasthan, India	Akath Singh*, Praveen Kumar and P.R. Meghwal
160	6	T-6	P-6	Prophylactic integrated pest management module for groundnut (Arachis hypogaea L.) for semi-arid region	S.K. Singh*, Nisha Patel, K.S. Jadon and A.K. Sharma
161	6	T-6	P-7	Assessment of genetic diversity among Ziziphus mauritiana cultivars using molecular markers	Rajwant K. Kalia, S.K. Singh, Rakesh Pathak*, Sidhika Chhajer and R.K. Bhatt
162	6	T-6	P-8	Prospects, constraints and possibility of date palm in Thar Desert of Rajasthan	Rajendra Singh Rathore*, A.R. Naqvi and B.D.S. Nathawat
163	6	T-6	P-9	Performance of coriander varieties to nitrogen levels in transitional plains of Luni basin, Rajasthan	R.S. Mehta*, S.R. Meena, Kamla K. Choudhary, A.K. Shukla, P.L. Regar, D.K. Gupta, M.B. Noor Mohamed and S.K. Dashora

164	6	T-6	P-10	Rediscovering date palm by-products: An opportunity for sustainable development	Hamed El Mously*
165	6	T-6	P-11	Double stem training system enhances fruit yield of greenhouse tomato hybrids under western Indian arid plains	Pradeep Kumar*, P.S. Khapte, Anurag Saxena, Uday Burman and Praveen Kumar
166	6	T-6	P-12	Evaluation of indeterminate tomato (<i>Solanum lycopersicum</i> L.) hybrids in controlled greenhouse in arid region of India	P.S. Khapte*, Pradeep Kumar, Anurag Saxena and Praveen Kuamr
167	6	T-6	P-13	Effect of seed pelleting on field emergence, growth and yield of cumin (<i>Cuminum cyminum</i> L.)	P.H. Nikumbhe* and C.S. Shantharaja
168	6	T-6	P-14	Allelopathy effect of eucalyptus on germination and growth of economically important flower crop marigold (<i>Tagetes erecta</i> L.) in Rajasthan	M.B. Noor mohamed*, A.K. Shukla, A. Keerthika, Dipak Kumar Gupta, B.L. Jangid and Kamla K. Chaudhary
169	6	T-6	P-15	IPM module for Insect pests of castor in arid ecosystem	Nisha Patel*, S.K. Singh, K.S. Jadon and A.K. Sharma
170	6	T-6	P-16	Influence of growing media and different climatic conditions on Guava seeds	Neha Sharma* and Sumay Malik
171	6	T-6	P-17	Productivity of sewan grass (<i>Lasiurus scindicus</i>) and Aloe vera intercrops in an agri-horti system in arid region of western Rajasthan	N.D. Yadava*, N.S. Nathawat, Seema Bhardwaj, P.S. Renjith and K.R. Sheetal
172	6	T-6	P-18	Evaluation of system productivity under custard apple (<i>Annona squamosa</i> L.) based rainfed Agri-Horti system	Mudalagiriappa*, M.N. Thimmegowda, B.G. Vasanthi, K.M. Puneetha, M.S. Savitha, and K. Devaraja
173	6	T-6	P-19	Oleification in fig (<i>Ficus carica</i>): A fruit rescue technique to mitigate abiotic stress	Morade Amrut*, M. Prabhavathi, H. Biswas, S.L. Patil and B.N. Seshadri
174	6	T-6	P-20	Persistence of chemical insecticides and certain botanicals against red rust flour beetle, <i>Tribolium castaneum</i> Herbst (Tenebrionidae: Coleoptera) in stored sesame	M.M. Sundria*, M.D. Singh and Shalini Pandey

175	6	T-6	P-21	Effect of decomposer foliar spray and seed treatment on growth and yield of wheat (<i>Triticum aestvum</i> L.)	Kamla K. Choudhary*, R.S. Mehta, A.K. Shukla, S.R. Meena, Dipak K. Gupta, M.B. Noor Mohamed, A. Keerthika and P.L. Rager
176	6	T-6	P-22	Bio-intensive integrated pest management for cumin (<i>Cuminum cyminum</i> L.)	K.S. Jadon*, S.K. Singh, Nisha Patel and A.K. Sharma
177	6	T-6	P-23	Evaluation of foliar spray of ferrous sulphate and citric acid on cumin in western Rajasthan	Hari Dayal*, P.S. Bhati, R.R. Meghwal and S.K. Sharma
178	6	T-6	P-24	Crop growth model – Efficient tool to support decisions on cropping system interventions to enhance its production	Amir Hajjarpoor*, Sivasakthi Kaliamoorthy and Jana Kholova
179	6	T-6	P-25	Efficacy of integrated nutrient management in sapota (<i>Manilkara achras</i>) in semi-arid region of Rajasthan	H.R. Meena*, R.A. Kaushik, D.K. Sarolia, S. Kala, G.L. Meena and R.K. Singh
180	6	T-6	P-26	Response of <i>L. ruthenicum</i> germination, growth and fruit quality to salt stress	Fei Peng*
181	6	T-6	P-27	Effects of intercropping on performance of different legume varieties in the dry low lands of Kenya	R.K. Kisilu* and P. Sheunda
182	6	T-6	P-28	Deciphering the effect of foliar spray of nutrients and growth regulator on plant growth and yield of Mung bean grown in arid region of Rajasthan	M.L. Mehriya*, Neelam Geat and Charan Singh
183	6	T-6	P-29	Bioefficacy of two second generation anticoagulant rodenticides against rodent pests	R.S. Tripathi*, Vipin Chaudhary and Kundan Mal Gawaria
184	6	T-6	P-30	Yield, soil health and economics of custard apple (<i>Annona squamosa</i> l.) based agri-horti system in semi-arid alfisols	B.G. Vasanthi, Mudalagiriappa*, M.N. Thimmegowda, M.S. Savitha, K.M. Puneetha, and Shree Harsha
185	6	T-6	P-31	Groundnut base cropping system under rainfed conditions of north Saurashtra agro climatic zone	D.S. Hirpara*, V.D. Vora, J.S. Sorathiya and K.K. Kanzaria

186	6	T-6	P-32	Precision weed management: A key to reduce herbicide use	Aijaz Nazir*, Zahida Rashid, R.H. Kanth, A.A. Saad, A. Rakshanda and A. Raies Bhat
187	6	T-6	P-33	Performance of henna-clusterbean intercropping systems in arid regions of Rajasthan, India	P.L. Regar*, S.S. Rao, S.P.S. Tanwar, Monika Shukla, A.K. Shukla and S.R. Meena
188	6	T-6	P-34	Effect of habitat alteration on diversity, distribution and abundance of rodents in Narmada canal command areas of Western Rajasthan	Vipin Chaudhary*, R.S. Tripathi, Surjeet Singh and Ramesh Chand Meena
189	6	T-6	P-35	Agro-techniques for sustaining horticultural production in dryland saline areas	Anshuman Singh* and P.C. Sharma
190	6	T-6	P-36	Pearl millet as a potential crop for dryland nutritional security: A review on grain micronutrient breeding considerations	M. Govindaraj*
191	6	T-6	P-37	Evaluation of pink fleshed guava (Psidium guajava L.) selections under semi-arid conditions of Gujarat	D.S. Mishra*, Sanjay Singh, A.K. Singh, Vikas Yadav and P.L. Saroj

Theme 7: Livestock, Rangeland and Agroforestry Management

Sl. No.	Theme	Theme file	Poster number	Title	Authours
192	7	T-7	P-1	Effect of harvesting methods on seed yield and quality of Stylosanthes hamata – a range legume of arid soils	Vinod Kumar*
193	7	T-7	P-2	Evaluation of different intercrops in amla based agri-horti system with cereals and pulses	B.G. Vasanthi*, M.N. Thimmegowda, Mudalagiriappa, K. Devaraja, K.M. Puneetha and M.S. Savitha
194	7	T-7	P-3	Performance of livestock based farming system components in arid region	M. Patidar*, B.K. Mathur, P.R. Meghwal and M. Bairwa
195	7	T-7	P-4	Multifunctional roles of rangeland shrubs in hot arid environment	J.P. Singh*, V.S. Rathore and B.K. Mathur
196	7	T-7	P-5	Growth and yield of grasses and legumes as influenced by the stripintercropping system under arid conditions of Kachchh	Sushil Kumar*, Deepesh and Devi Dayal
197	7	T-7	P-6	Millet-cowpea-ziziphus agroforestry system that improve nutrient and water use efficiency and agricultural productivity	B.V. Bado *, A. Whitbread and S.M. Maman Laminou
198	7	T-7	P-7	A study on agro-forestry, agro-horticultural and silvi-pasture in dryland agriculture for converting dryland areas from grey into green	Sumay Malik*
199	7	T-7	P-8	Harnessing the potential of high yielding fodder beet as forage and bio ameliorative crop in arid region	S.P.S. Tanwar*
200	7	T-7	P-9	Effect of management practices and dose of gum inducer on gum production of Acacia senegal in rocky land form	Shiran K*, J.C. Tewari, A.K. Sharma and Kamlesh Pareek
201	7	T-7	P-10	Cactus pear (Opuntia ficus-indica): an alternate fodder crop for arid regions of Gujarat	Devi Dayal*, Rahul Dev, M. Sureshkumar, Sitaram Jat and Sachin Patel

202	7	T-7	P-11	Effect of feeding of multi-cut pearl millet fodder to lactating cattle during summer in arid region	B.K. Mathur*, M. Patidar, M. Bairwa and S. Kachhawa
203	7	T-7	P-12	Suitability modelling for agroforestry systems using geoinformatics in Chota Nagpur plateau, Jharkhand, India	S.L. Londhe*, M.S. Nathwat and Javed Rizvi
204	7	T-7	P-13	Effect of climate stress on arid livestock productivity and its amelioration through housing and feeding management	A.K. Patel*, N.V. Patil and P.P. Rohilla
205	7	T-7	P-14	Effect and perception of mineral mixture productivity in buffaloes at farmer level	S. Kachhawaha*, S.K. Sharma and B.K. Mathur
206	7	T-7	P-15	Effect of grass reseeding on the dry matter and species composition of community rangeland of Jodhpur, Rajasthan	R.N. Kumawat*, A.K. Misra and M. Louhaichi
207	7	T-7	P-16	Review of joint forest management mechanism for community participation in vidi management in Saurashtra Region of India	Jaydev Indravadan Nansey*

Theme 8: Post Harvest Management, Value Chain, Renewable Energy, Farm Mechanization and Automation

Sl. No.	Theme	Theme file	Poster number	Title	Authours
208	8	T-8	P-1	Evaluation of nutritionally significant phytochemicals in solar dried Capparis decidua (ker)	Soma Srivastava* and Dilip Jain
209	8	T-8	P-2	Effect of drying methods on rheological properties and particle size characteristics of soy protein isolate	Shekh Mukhtar Mansuri*, Hima John and Saroj Kumar Giri
210	8	T-8	P-3	Natural gums as microencapsulants for food flavours	Saurabh Swami* and Shiran Kalappurakkal
211	8	T-8	P-4	Synthesis of molybdenum nano-particles using a consortium of three fungi	R.K. Kaul*, R.C. Kasana and Praveen Kumar
212	8	T-8	P-5	Development of high value soft-textured aonla (Emblica officinallis L.) candies through freezing process	Prerna Nath* and S.J. Kale
213	8	T-8	P-6	Post-harvest management and value addition	Paramveer Singh* and Somya Khandal
214	8	T-8	P-7	Physical properties of pearl millet grains as function of moisture content and variety	Om Prakash*, S.K. Jha, A. Kar and J.P. Sinha
215	8	T-8	P-8	Food products based moroccan carob powder: Formulation and consumer test	Ghizlane Salih
216	8	T-8	P-9	Experimental investigation of phase change material (PCM) based hybrid photovoltaic/thermal (PV/T) solar dryer for drying arid food produces	Surendra Poonia*, A.K. Singh and Dilip Jain
217	8	T-8	P-10	Manually drawn farm yard manure (FYM) applicator for uniform distribution and spreading of manure	Dinesh Mishra*, A.K. Singh, A.K. Sharma, Dilip Jain and Amit Singh

218	8	T-8	P-11	Physical and engineering properties of chickpea (<i>Cicer arietinum</i> L.) varieties for planter design	Man Mohan Deo, Prasoon Verma and C.S. Praharaj*
219	8	T-8	P-12	Loose straw handling of wheat, soybean and pigeon pea using pneumatic conveyor	Bholuram Gurjar*, Dilip Jat and Narendra Singh Chandel
220	8	T-8	P-13	Thermal and cooking performance evaluation of non-tracking solar cooker	A.K. Singh*, Surendra Poonia and Dilip Jain
221	8	T-8	P-14	Processing, preservation and value addition of <i>Capparis decidua</i> fruits for their improved utilization in western Rajasthan	Mala Rathore* and Sonali Bhagat
222	8	T-8	P-15	Development and evaluation of multicrop planter for intercropping	Piyush Pradhan*
223	8	T-8	P-16	Effect of mechanization on productivity and economics of soybean	B.V. Asewar and M.S. Pendke*
224	8	T-8	P-17	Establishing a pro-poor value chain of long pepper (<i>pipali</i>) for increasing household income in Koraput, Odisha	Bibhu Santosh Behera* and S. Basumatary

Theme 9: Policies, Institutions & Markets to Improved Livelihood Security

Sl. No.	Theme	Theme file	Poster number	Title	Authours
225	9	T-9	P-1	Conservation and rejuvenation of natural resources in western arid Rajasthan through integrative sustainable CAZRI technologies	Vijay Avinashilingam*
226	9	T-9	P-2	Knowledge and adoption of soil testing practices by farmers in Jodhpur district of Rajasthan	S.K. Sharma*, R.P. Singh, A.S. Tomar, R.R. Meghwal and P.S. Bhati
227	9	T-9	P-3	Performance of chickpea (<i>Cicer arietinum</i>) under cluster frontline demonstration in Pali district of Rajasthan, India	M.K. Chaudhary*, Dheeraj Singh, M.L. Meena and Chandan Kumar

228	9	T-9	P-4	Green economics for dryland: Study of senna cultivation in Jodhpur, Rajasthan	Sanjay Kumar*, Deepak Kumar Verma, Teerath Raj, Pankaj Chaudhary, Mudit Mishra and Anupam Singh
229	9	T-9	P-5	Climate change adaptation strategies and agriculture sustainability: A review	Somya Khandal*
230	9	T-9	P-6	Seed village programme in arid zone: A practical approach for achieving self-sufficiency in multiplication and distribution of quality seed	Dheeraj Singh*, M.K. Chaudhary, M.L. Meena and Chandan Kumar
231	9	T-9	P-7	Seed replacement rate in crops: A case study from arid western Rajasthan	Dipika Hajong*, B.L. Manjunatha and Pratibha Tewari
232	9	T-9	P-8	Shift from summer rice to maize: Way forward in doubling farmers' income	C. Tiwari*, Pratibha Singh and S.K. Sharma
233	9	T-9	P-9	Adoption of organic farming in arid zone	Bhagwan Singh* and A.K. Sharma
234	9	T-9	P-10	Livelihood security and determinants of household income of pastoralists in Banni grasslands in Gujarat state of India	B.L. Manjunatha*, M. Shamsudheen, M. Sureshkumar and Pratibha Tewari
235	9	T-9	P-11	Adoption quotient of improved cultivars under integrated farming system in arid region	B.L. Manjunatha*, M. Patidar, B.K. Mathur and Soma Srivastava

236	9	T-9	P-12	Impact of vocational trainings on value addition of arid fruits and vegetables in knowledge, skill and adoption of rural women	Aishwarya Dudi*, Dheeraj Singh ¹ , M.L. Meena, M. Choudhary and Chandan Kumar
237	9	T-9	P-13	Health-related quality of life among farmers in semi-arid region of Ethiopia	Abir Majbauddin* and Shinji Otani
238	9	T-9	P-14	Front line demonstration performance of pearl millet variety MPMH-17 and technology dissemination	R.R. Meghwal*, A.S. Tomar, R.P. Singh, Hari Dayal and S.K. Sharma
239	9	T-9	P-15	Entrepreneurship development through baked functional foods prepared from locally available plant sources	Pratibha Tewari* and Dilip Jain

240	9	T-9	P-16	Performance of major crop insurance schemes of India	Pramendra* and Dipika Hajong
241	9	T-9	P-17	Impact of climate resilient technologies on rainfed agro-ecosystem of Jodhpur district of Rajasthan	Poonam Kalash*, Savita Singhal, R.R. Meghwal, S.K. Sharma and P.P. Rohilla
242	9	T-9	P-18	Enhancing water availability through low cost tube-well recharge technology	Amar Singh*, P.P. Rohilla, S.K. Singh and Kailash Jakhar
243	9	T-9	P-19	Climate change impact: An assessment of farmers' knowledge and adaptation strategies in Central Gujarat	V.C. Pande* and P.R. Bhatnagar
244	9	T-9	P-20	Doubling farmer's income through agronomic interventions in cold arid region	M.S. Raghuvansh, P.C. Moharana*, Enoch Spalbar, Ngawang Dorjay and J.C. Tewari
245	9	T-9	P-21	Farmer preferences for adoption of improved sorghum varieties in semiarid eastern Kenya	R.K. Kisilu* and D.R. Karanja
246	9	T-9	P-22	The Impact of climate change on unorganised labour migration	Jatappa J.*
247	9	T-9	P-23	Performance of improved crop varieties in changing climate of arid region	P.P. Rohilla*, S.K. Singh and Kailash Jakhar

248	9	T-9	P-24	Popularization of salt tolerant wheat varieties through frontline demonstrations under salt affected soils in Pali district of Rajasthan, India	M.L. Meena*, Dheeraj Singh, Aishwarya Dudi and M.K. Chaudhary
249	9	T-9	P-25	Impact of FLD interventions on yield, adoption and horizontal spread of oilseed crops in Pali district of Rajasthan, India	M.L. Meena*, Dheeraj Singh, Aishwarya Dudi and M.K. Chaudhary
250	9	T-9	P-26	Evaluation of pearl millet variety AVKB-19 for green fodder production in semi-arid regions of Alwar district	B.S. Rathore*, A.K. Verma and B.L. Ola
251	9	T-9	P-27	Production potential of green gram varieties under farmers' field condition in arid zone of Rajasthan	A.S. Tomar*, R.R. Meghwal, R.P. Singh and S.K. Sharma
252	9	T-9	P-28	Experiences of establishing a sustainable Community of practice on the land scape restoration approaches - A case of FMNR Network in Uganda	Ayebare Prudence*

253	9	T-9	P-29	Impact of FLD on productivity of papaya cv. Red Lady in Pali district of Rajasthan, India	Chandan Kumar*, M.L. Meena, M.K. Choudhary and Dheeraj Singh
254	9	T-9	P-30	Climate resilient low cost housing with mud bricks for cold arid region	M.S. Raghuvanshi*, Ngawang Dorjay, B.L. Manjunatha, H.M. Meena, Enoch Spalbar and R.K. Bhatt
255	9	T-9	P-31	Sustainable livelihoods in the drylands	Veena Soni*
256	9	T-9	P-32	Adaptation, motivation of youth and women empowerment for realizing food and nutrition challenges in riverbed/bank farming in Terai of Nepal	Lochana Shahi* and Mahesh Jaishi
257	9	T-9	P-33	Effects of weather and climate change on health indicators in Hyderabad Karnataka region	Kumara Naik* and P.S. Sasdhar
258	9	T-9	P-34	Constraints encountered by the NAIP in adoption of IPM Interventions for Wheat cultivation in Banswara District of Rajasthan, India	Santosh Devi Samota, Shankar Lal Yadav and Vinod Kumar*
259	5	T-5B	P-22	Breeding for heat tolerance in wheat (<i>Triticum aestivum</i> L.) under climate change	Jogendra Singh*, Vinod Kumar, Chhagan Lal, and Santosh Devi Samota
260	5	T-5B	P-23	Variability and genetic diversity study in germplasm of yellow sarson (<i>Brassica rapa</i> var. yellow sarson)	Hariom Kumar Sharma*, Arun Kumar, Priyamedha, V.V. Singh, Pankaj Sharma, Bhagirath Ram and P.K. Rai
261	5	T-5B	P-24	Identifying nitrogen use efficient lines for marginal production environments in pearl millet	Vijayalakshmi Pujarula, Madhu Pusuluri, Srikanth Bollam, Rambabu Ratnala, Vishnu Kiran Turuga, Rakesh Kumar Srivastava and Rajeev Gupta*
262	5	T-5C	P-11	Expanding the possibilities of maize for drylands through identification and characterization of drought stress tolerant germplasm	Ishwar Singh*, Pranjal Yadava and Anuradha Gautam
263	6	T-6	P-38	Role of the root-endophytic fungus <i>Serendipita indica</i> for nutrient uptake and abiotic stress tolerance in maize-tomato intercropping	Krishna Saharan*, Philipp Franken and Ummed Singh
264	6	T-6	P-39	Influences of Stress Mitigating Chemicals on Yield attributes and Yield of Mungbean (<i>Vigna radiata</i> L. Wilczek)	Sarita*, Ummed Singh, Anita Todawat