

## Indian Journal of Hill Farming

Reg. No. SR/IAHF 439/87 of 1987

ISSN 0970-6429

**December 2022, Volume 35, Issue 2**

### Contents

Sl.No	Title	Page
1	Profit Maximization through Efficient Land Use as influenced by Broccoli Based Intercropping ( <i>Brassica oleracea</i> var. <i>italica</i> ) <i>Ursheen Dhar, R.K Samnotra, Kohima Noopur, Satesh Kumar, Zahida Parveen</i>	15
2	Studies on Weed Diversity and Phytosociology in Maize crop <i>Ngangbam Pusparani, Vishram Ram, Sushree Panda, Chris John</i>	612
3	Performance evaluation and modification of mini power weeder for intercultural operation under upland condition in northeast India <i>Hijam Jiten Singh, H. Dayananda Singh, K. Ajaykumar, D. Chakraborty, H.D. Talang, M. Thoithoi Devi, L. Kanta Singh</i>	1319
4	Fruit fly species new to India and Meghalaya <i>Sunita Chetry, Kennedy Ningthoujam</i>	2022
5	An insight into the nomadic life of pastoralists for their sustainability in high altitude Changthang plains of Ladakh region; a case study <i>P.C.Moharana, Enoch Spalbar, R.K.Goyal, H.M. Meena, M.S.Raghuvanshi</i>	2330
6	Influence of drying techniques on some compositional parameters of wood apple ( <i>Limonia acidissima</i> ) pulp powder <i>Puja Das, Ajita Tiwari, Prakash Kumar Nayak, Robin Subba, Thameridus B. Marak</i>	3135
7	Weather variations and its effect on farm productivity and returns in Imphal West district of Manipur <i>Lachhaman Tudu, S.M. Feroze, Y. Chakrabarty Singh, Angad Prasad, N. Okendro Singh, P.T. Sharma</i>	3646
8	Antifungal activity of integumentary extract of selected freshwater fish species against selected microbes <i>N. P. Devi, S.K. Das, R.K. Sanjukta, S. G. Singh, N. U. Singh</i>	4752
9	Studies on foliar application of plant growth promoters and micronutrients in onion ( <i>Allium Cepa</i> L.) under hilly areas of Karnataka determining yield and quality <i>P J Nivethaa, Devaraju, V. Srinivasa, M. Ganapathi, C.S. Ravi, S.K. Nataraj</i>	5358
10	Demonstration of Indian featherback ( <i>Chitalachitala</i> ) farming under backyard pond condition of Tripura, North East India following different feeding strategies <i>Ramanuj Chakraborty, Chandan Debnath, Lopamudra Sahoo</i>	5965

11	Genetic diversity analysis in ash gourd [ <i>Benincasa hispida</i> (Thunb.) Cogn.] in Northeast India <i>Ashwini Ananda, S P Kanaujia, Aastik Jha, N Walling</i>	66 72
12	Recent advances in valorization of agro-waste: a step towards sustainable development <i>Pinku Chandra Nath, Deepanka Saikia, Shubhankar Debnath, Ajita Tiwari, Prakash Kumar Nayak</i>	73 91
13	Genetic variability, correlation and path coefficient studies in upland rice ( <i>Oryza sativa</i> L.) genotypes of Nagaland <i>Lalen Phom, H.P.Chaturvedi</i>	92 96
14	Insect pests of Potato ecosystem in mid-hills of Meghalaya <i>Adhikari Mounika, N.S. Azad Thakur, Karedla Ashok kumar, D.M. Firake, G.T. Behere</i>	97 105
15	Vegetative growth of tomato hybrids as influenced by fertigation levels grown under different soilless substrates in poly house conditions <i>Shilpa Kaushal, Shubham,Shivani Chand, Vinod Kumar</i>	106 112
16	Evaluation of Foxtail genotypes in Nagaland ecosystem for yield and yield related traits <i>D. Purushotama Rao, H.P Chaturvedi</i>	113 118
17	Ploidy manipulation in fruit crops: A Review <i>Safina kosser, Parshant Bakshi, Deep Ji Bhat, Amit Jasrotia, Tashi Angmo, Qadrul Nisa</i>	119 126
18	Hydroponics fodder production for sustainable livestock husbandry in Arunachal Pradesh: A review <i>Doni Jini, Joken Bam, Sourabh Deori, Rajesh A Alone, Theja Angami</i>	127 131
19	Impact of crop integration on production and economics under temperate hill ecology of Jammu & Kashmir <i>T.Mubarak, Abdul Shakoor, Shahid A Shergojar, Hasseb-u-Rehman</i>	132 137
20	Efficacy of <i>Trichogramma pretiosum</i> and <i>Trichogramma japonicum</i> reared on two different factitious hosts and its response to different colours of Trichocard <i>Ziljia Moirangthem, Kennedy Ningthoujam, Mahesh Pathak, R. K. Tombisana Devi, R. K. Patidar</i>	138 146
21	Biology of potato tuber moth, <i>Phthorimaea operculella</i> (Zeller) on three solanaceous host plants <i>Primiya R Lyngkhoi, Kennedy Ningthoujam, Mahesh Pathak, T. Rajesh, Veronica Kadam</i>	147 151
22	Efficacy of different plant extracts against potato tuber moth, <i>Phthorimaea operculella</i> <i>Primiya R Lyngkhoi, Kennedy Ningthoujam, Mahesh Pathak, T. Rajesh ,Veronica Kadam</i>	152 157
23	Effect of Parapheromones and Food baits on the Capture of Fruit Flies (Diptera: Tephritidae) in Ri-Bhoi district of Meghalaya <i>Sunita Chetry, Kennedy Ningthoujam, Mahesh Pathak</i>	158 162
24	Effect of different semi-synthetic diets on biology of Fall armyworm, <i>Spodoptera frugiperda</i> (Smith) 	163 167

	<i>Karthik Ramappa, Kennedy Ningthoujam, Mahesh Pathak, Subhash S, Abhishek TS, Suresh Kumar Mahala, B Jabez Raju</i>	
25	Biology of Cabbage Butterfly, <i>Pieris brassicae</i> (Linnaeus) on three Cruciferous crops under Laboratory Conditions  <i>Manchikatla Saisri, Kennedy Ningthoujam, Mahesh Pathak, Akojam RatanKumar Singh and Veronica Kadam</i>	168 177
26	Comparative performance of King chilli ( <i>Capsicum chinense</i> Jacq.) under naturally ventilated polyhouse and open field conditions for yield and earliness under agroclimatic conditions of Meghalaya  <i>M. Bilashini Devi, VK Verma, HD Talang, SR Assumi, H. Rymbai, Vanlalruati, L. Joymati Chanu and S. Hazarika</i>	178 183
27	Maize cultivars performance and estimation of effective rainfall during rainy season under mid hills of Meghalaya  <i>K.S. Jyothi, Lala I.P. Ray, K. Swetha, Th. Ibeyaima Devi, A.K. Singh, Sanjay Swami and P.K. Pandey</i>	184 191
28	Stability analysis for yield and yield component traits of winged bean  <i>Jeetendra Kumar Soni, B. Lalramhlimi, Amit Kumar, Sunil Kumar Sunani, Lungmuana, Lalhrualitluangi Sailo, I. Shakuntala, S. Doley</i>	192 202
29	Phenotypic characterization and performance evaluation of Balang cattle: Unique cattle germplasm in Arunachal Pradesh of Eastern Himalaya  <i>G. Kadirvel, Doni Jini, Rakesh Kumar, Rahul Katiyar, N. Suraj Singh, Nikita Chanu</i>	203 208
30	Development of water production function for garden pea ( <i>Pisum Sativum</i> L.) under mid hills of Meghalaya  <i>K. Swetha, Lala I.P. Ray, K.S. Jyothi, Th. Ibeyaima Devi, A.K. Singh, N.J Singh</i>	209-217
31	Bioefficacy of different botanical oils against maize weevil, <i>Sitophilus zeamais</i> (M.) at medium altitude hills of Meghalaya  <i>Rumki H. Ch. Sangma, Sandip Patra, N.S.A. Thakur, P. Baiswar</i>	218-225
32	Evaluation of some fungal based biopesticides against blister beetle in okra under mid altitude hills of Meghalaya  <i>Sandip Patra, R. H. Ch. Sangma, J. Layek, P. Baiswar, B. Bhattacharjee</i>	226-233