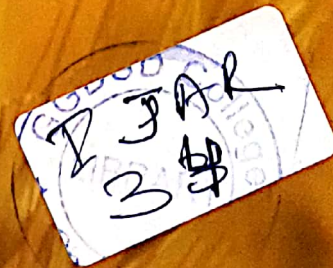


Indian Journal *of* Agricultural Research



Celebrating



Years of Success

www.arccjournals.com



**AGRICULTURAL
RESEARCH
COMMUNICATION
CENTRE**



CONTENT

Page No.

REVIEW

The Economic Impact and Integrated Management Strategies against Tomato *Yellow Leaf Curl Virus* (TYLCV): A Review

Zeina M. Mouhsan, Zainab S. Alhaboubi, Mariam Hussain Chaffat, Shatha A. Mahdi, Hamed Alawy Obeid, Lubna Abd Kamel

323

PLANT BREEDING AND GENETICS

Estimation of the Genetic Parameters Associated with High-yielding and Early Harvesting in Rice

A.W. Aisya, E. Ambarwati, Supriyanta, T. Alam, R.P. Kirana, I.G.K.D. Arsana, V.E. Aristya, A.E. Purba, Taryono

331

Genetic Studies on Combining Ability for Grain Yield and its Attributes in Bread Wheat (*Triticum aestivum* L. em Thell)

Rubina Khan, Birendra Prasad, Swati, Anil Kumar, Babita Bhatt

339

Uniqueness of Traditional Rice Cultivars of Kerala Revealed by Diversity Analysis

Arya Balachandran, B. Lovely, S. Visveswaran

346

Inheritance Pattern of Yield and its Components in Brinjal (*Solanum melongena* L.) Through Generation Mean Analysis

M. Yasaswini, C.P. Chetariya, I.R. Delvadiya, S. Anvesh

353

AGROFORESTRY

Effect of Biological Amendment on the Agro-morphology of Cocoa Companion Species (*Irvingia gabonensis*, *Garcinia kola*, *Tieghemella heckelii* and *Beilschmiedia mannii*) at the Nursery Stage

M'BO Kacou Antoine Alban, Kanigui Issouf Soro, Thomas d'Aquin Kouakou, Kouame Christophe

359

Effects of Seed Treatment and Bio-inoculants on *Baikiaea plurijuga* DC. and *Pterocarpus angolensis* Harms Seed Germination

Kamogelo Makgobota, Flora Pule-Meulenberg, Ayana Angassa, Melusi Rampart, Witness Mojeremane, Barbara Reinhold-Hurek

368

AGRONOMY

Effect of Varying Light Intensity on Physiological and Yield Characteristics of Wheat

Anshul Gupta, Renu Dhupper, Harshita Jain, Bhupinder Singh

375

Optimizing Peanut Intercropping Density in Young Coconut Plantations: A Case Study from Phu Quoc, An Giang, Vietnam

D.H.T. Nguyen, N.Q.T. Thai, T.H.D. Tran, D.H. Tran

383

Weed Dynamics and Growth and Yield of Maize (*Zea mays* L.) as Influenced by Tembotrione Herbicide

D. Nongmaithem, Karan Gadekar, Ashik Kumar Meena, Lanunola Tzudir, Rekha Yadav, Jurisandhya Bordoloi, Noyingthung Kikon

391

Potential Impacts of Organic Treatments on Pea Yield Related Traits at Different Plant Densities

Sameh Abd El-Hafeez Ali Abuo El-Kasem, Khaled Abd El-Naem Abd El-Maaboud, Mahmoud Ibrahim Mahmoud

398

Effectiveness of Water-soluble Fertilizers Sprays on Productivity and Profitability of Utera Linseed (*Linum usitatissimum*) in Assam

Bidisha Borah, Kalyan Pathak, Hemen Kalita, Anjumala Deka, Ranjhana Chakrabarty, Jyotirekha Hazarika, Binod Kalita, Goutami Kataki, Hiranya Kumar Deva Nath, Niranjana Deka, Nabajyoti Deka

405

Study on Zinc Fertilization on Growth Dynamics and Yield Attributes of Green Gram (*Vigna radiata* L.)

Megha Kumari, Shakti Om Pathak, Debabrata Dhar, O.P.S Khola, Manjri

411

CROP PROTECTION

Deciphering the Identity of the Root-knot Nematode *Meloidogyne enterolobii* Infecting Guava (*Psidium guajava* L.) Through Morphological and Molecular Tools

S. Sarrvesh Lakshman, N. Ashokkumar, S. Rageshwari, B. Gopu, S. Dharani

416

Management of Black Scurf of Potato Caused by *Rhizoctonia solani* in Eastern Uttar Pradesh

C.N. Ram, Manoj Kumar Maurya, Pradeep Kumar Dalal, Sanjeev Singh, Anil Kumar

423

ARTIFICIAL INTELLIGENCE

Generation and Utilization of an Augmented Cashew Leaf Dataset for Disease Analysis using Transfer Learning

Sumit Dey, Raj Kumar Goel, Arvind Kumar Chaurasiya, Rubul Kumar Bania

428

Vit-CNN Fusion for Robust Mango Quality Evaluation based on Classification Across Multiple Public Datasets

Anuja A. Gharpure, Neha Jain, Vaibhav E. Narawade

436

Analytical Evaluation of CNN and CapsuleNet Architectures for Grape Leaf Disease Prediction

Rasika Patil, Ajit More, Avinash T. Gatade

443

AGRICULTURE ECONOMICS

A Multisectoral Systems Analysis of Digital Engagement and Agricultural Productivity in Sub-Saharan Africa

Tiavina Andriamahanina Nasolomampionona, Qin Zhaohui, Andrianarimanana Mihasina Harinaivo, Manana Gaddis Elia, Mazheti Winnie Kudzai, Dhonor Tarir Duok Gai, Randrianasolo Laza-Aina Ambinintsoa

450

Growth, Instability and Hazell's Decomposition Analysis of Apple: A District-wise Study of Himachal Pradesh

Shilpa Rani, Subhash Sharma, Anurita Kharayat

460

ANIMAL HUSBANDRY

Factors Influencing Sheep Farmers' Decisions to Contract Farming in East Java Province, Indonesia

Muhammad Ardi Wiranata, Soetriono, Evita Soliha Hani, Joni Murti Mulyo Aji

467

FOOD AND SCIENCE NUTRITION

Estimation of Some Vitamins in Beetroot Juice and Their Relationship to Cancer

Raghad Khalil Alarkwazi, Huda Hussein Mohammed Al-Tabatabai

474

Esteemed Reviewers of This Issue

481

Authors Index of This Issue

481-482

Keywords Index of This Issue

483-484



Agricultural Research Communication Centre

294, Narsi Village Part 2, Sector 33, Karnal - 132 001, India

E-mail : contact@arccjournals.com ; editor@arccjournals.com

www.arccjournals.com