

Contents

International Journal of Agriculture, Environment and Biotechnology

VOL. 12, NO. 4, DECEMBER 2019

AGRICULTURAL ENGINEERING

Drying Behavior and Mathematical Modelling of Bottle Gourd 299

Kukadiya Vishal, D. and Akbari Sanjay, H.

Design and Development of Aonla Pricking Machine 307

Singh Raj Vijay, Moses, S.C., Singh Vijeta and R.N. Alam

Groundwater Potential Zoning in Tikamgarh District of Bundelkhand Using Remote Sensing and GIS 311

Deepak Patle and M.K. Awasthi

ENVIRONMENTAL SCIENCE

Arsenic Contamination in Ground Water at Deoghar (Jharkhand) 319

Ashok Kumar

GENETICS AND PLANT BREEDING

Variability and Path Coefficient Studies for Yield and Yield Related Traits in Rice (*Oryza sativa* L.) 323

N.D. Rathan, S.K. Singh, R.K. Singh, Prudhvi R. Vennela, D.K. Singh, Monika Singh, Dinesh Kumar and M.A. Ashrutha

HORTICULTURE

Molecular Characterization of Different Strawberry (*Fragaria x ananassa* Duch.) Cultivars Growing under Mid Hill Conditions of Himachal Pradesh 331

Sonia Kumari, Shashi Kumar Sharma and Ankush Kumar

AGRONOMY

Studies on the Effect of Phosphorus Levels on Yield Attributes and Yield of Groundnut in South Odisha Condition 339

Dokkara Prem Kumar, Tanuj Kumar Mandal, A. Zaman and Arunabha Pal

Influence of Plant Population and NPSB Blended Fertilizer Rates on Yield Parameters and Yield of Maize (*Zea mays* L.) in Bako, Ethiopia 345

Fufa Anbessa Feyisa, Thomas Abraham and Habtamu Ashagre

Chemical and Non-chemical Method of Weed Management in Blackgram (*Vigna mungo* L.) in North Eastern Zone of Tamil Nadu 351

C. Sivakumar, Krishnaveni, A. Rajendran, R. Eniya, S. Hemalatha, Vennila, G. and Pandiyan, M.

Effect of Bulky Manures and Fermented Liquid Organics on Growth, Yield, Nutrient Uptake and Economics of French Bean (*Phaseolus vulgaris* L.) Under Rainfed Condition 361

Gowthamchand, N.J., Ganapathi and Soumya, T.M.

FORESTRY

Performance Assessment of Newly Improved High Yielding Wheat Varieties in the Irrigated Farming Situations of Birbhum District, West Bengal 369

Prabuddha Ray, Subrata Mandal, Sri Sourav Mondal and Sri Palash Ankure

Neolamarkia cadamba – A Potential Tree Species for Domestication through Agroforestry System 375

S. Saravanan

Dry Matter Production in Eucalyptus Clones 381

S. Saravanan

SOIL SCIENCE

Influence of different types of Strains of *Bradyrhizobium japonicum* Inoculation and Phosphorus Fertilizer Rates on Nitrogen Uptake Efficiency and N₂ Fixation of Soybean (*Glycine max* L. (Merrill)) in Ethiopia 389

Zerihun Tefera Yebasa, Habtamu Ashagre and Thomas Abraham