

PUBLICATIONS - 2020

Research Articles

1. Bappa Das, Bhakti Nair, V. Arunachalam, Viswanatha Reddy, K., Paramesh Venkatesh, Debashish Chakraborty and Sujeet Desai. 2020. Comparative evaluation of linear and nonlinear weather-based models for coconut yield prediction in the west coast of India, *Int. J. Biometeorology* 64:1111–1123.
2. Hema, B., D. Damodar Reddy and S. Kasturi Krishna. 2020. Covid-19 Triggered Tobacco New Normal : Need for Crop Diversification. *J. Community Mobilization and Sustainable Development* 15(1): 268-277.
3. Hema, B., D. Damodar Reddy, K. Viswanatha Reddy, A. Srinivas and S. Kasturi Krishna. 2019. Impact assessment of flue cured virginia tobacco in SLS and SBS regions of Andhra Pradesh. *Tob. Res.* 45(2): 89-98.
4. Jaffar Basha, S., P. Pullibai, S. Kasturi Krishna and C. Chandrasekhara Rao. 2020. Effect of nitrogen and topping on performance of bidi tobacco (*Nicotiana tabacum* L.) varieties under rainfed conditions. *Annals of Plant and Soil Res.* 22(4): 415-419.
5. Jaffar Basha, S., P. Pullibai, K. Prabhakar, J. Manjunath, S. Kasturi Krishna and C. Chandrasekhara Rao. 2020. Management of phosphorus and potassium in bidi tobacco (*Nicotiana tabacum* L.) under rainfed conditions. *Annals of Plant and Soil Res.* 22(4): 420-424
6. Kumaresan, M., C. Chandrasekhara Rao and D. Damodar Reddy. 2019. Influence of drip fertigation on growth, yield and leaf-quality characters of sun cured chewing tobacco (*Nicotiana tabacum*). *Indian J. Agronomy* 64 (3): 24-28.
7. Kumaresan, M. and D. Damodar Reddy. 2020. Effect of inter crop population and levels of fertilizer on the yield, system productivity, Economics, microbial population in chewing tobacco (*Nicotiana tabacum* L.) + Annual moringa (*Moringa olifera* L.) inter cropping system. *Tob. Res.* 46(1): 30-36.
8. Mahadevaswamy, M. and D. Damodar Reddy. 2019. Biomass residue/wood ash as potential supplements for potassium nutrition, yield and quality of FCV tobacco in KLS. *Tob. Res.* 45(2): 81-84.
9. Mahadevaswamy, M., C. Chandrasekhara Rao, D. Damodar Reddy, S. Ramakrishnan and P. Sreenivas. 2020. High density planting for maximizing and optimizing leaf productivity in dry and semi dry zones of flue-cured tobacco growing regions in KLS. *Tob. Res.* 46(1): 19-23.
10. Meena, M.K., A.K. Singh, L.K. Prasad, M.D. Adul Islam, M.L. Meena, Dotaniya, Harvir Singh and B.L. Yadav. 2020. Impact of Arsenic Polluted Groundwater on Soil and Produce Quality: A Food Chain Study. *Environmental Monitoring and Assessment* 192, 785: 1-8.
11. Nanda, C., P. Nagesh and S.S. Sreenivas. 2019. Studies on combining ability and heterosis for yield and its component traits in flue cured virginia (FCV) tobacco (*Nicotiana tabacum* L.). *Tob. Res.* 45(2): 99-104.
12. Nanda, C., S.S. Sreenivas and P. Nagesh. 2020. Studies on combining ability and heterosis for yield and its component traits in Flue Cured Virginia (FCV) Tobacco (*Nicotiana tabacum* L.)". *Tob. Res.* (in review).
13. Poorna Bindu, J., D. Damodar Reddy, C. Chandrasekhara Rao, K. Manorama, L.K. Prasad, R.K. Mathur and D.V.L. Satyavathi. 2019. Production and characterization of oil palm biomass waste biochar. *Tob. Res.* 45(2): 70-74.
14. Pullai Bai, P., S. Jaffar Basha, K. Sarala and C. Chandrasekhara Rao. 2020. Genetic studies on yield and quality parameters in bidi tobacco (*Nicotiana tabacum* L.). *Tob. Res.* 46(1): 11-18.
15. Rajendra Prasad, Yashbir Singh Shivay and Sunil Mandi. 2020. Plants, Fertilizer Nitrogen and Environment: An Overview. *Int. J. Pl. and Environ.* 6(2): 98–102. Doi:10.18811/ijpen.v6i02.01.
16. Ramakrishnan, S., S.S. Sreenivas and M.M. Sheno. 2020. Management of soreshin disease in FCV tobacco nurseries of Karnataka. *Tob. Res.* 46(1): 37-40
17. Ravisankar, H., M. Anuradha and D. Damodar Reddy. 2020. Web-Based Expert System for Identification and Management of Plant Nutrient Disorders in Flue-Cured Tobacco (*Nicotiana*

- tabacum L.). *Int. J. Appl. Res. on Inf. Tech. and Computing* 11(1): 38- 45.
18. Ravisankar, H., S. Kasturi Krishna, D. Damodar Reddy, V.S.G.R. Naidu and B. Hema. 2020. Knowledge-Based System for Tobacco Weed Management. *Int. J. Curr. Microbiol. and Appl. Sci.* 9(6): 1312-1319.
 19. Sailaja Jayasekharan, B., U. Sreedhar and G. Raghupathi Rao. 2018. Studies on compatibility of biorational insecticides with fungicides against tobacco caterpillar, *Spodoptera litura* Fab. on tobacco. *Indian J. Pl. Prot.* 46(2-4): 107-112.
 20. Saroja, T., K. Prabhakara Rao, K. Sarala, T. David Samuel Raj and D. Damodar Reddy. 2019. Expression analysis of cyp82e genes associated with TSNA in *N. Attenuata* data hub. 45(2): 75-80.
 21. Sreedhar, U. 2019. Evaluation of an insect growth regulator, chlorfluazuron against *Spodoptera litura* in Virginia tobacco. *Tob. Res.* 45(2): 57-62.
 22. Sreedhar, U. 2020. Field efficacy of new insecticides for management of tobacco aphid, *Myzus persicae nicotianae* Blackman and its natural enemies in flue cured Virginia tobacco. *J. Ent. and Zoology studies* 8(5): 1662-1666.
 23. Sreedhar, U. 2020. Field efficacy of novel insecticides against *Spodoptera litura* in Virginia tobacco. *Annals of Pl. Prot. Sci.* 28(3): 228-231.
 24. Sreedhar, U. 2020. Management of tobacco whitefly, *Bemisia tabaci* on Virginia tobacco. *Indian J. Pl. Prot.* 48 (1&2): 11-17.
 25. Sreedhar, U. 2020. Novel methods for management of ground beetle, *Mesomorphus villiger* (Blanchard) in Virginia tobacco. *J. Applied Zoological Res.* 31(2): 200-205.
 26. Sreedhar, U. and S. Gunneswararao. 2020. Management of capsule borer, *Helicoverpa armigera* Hub. in tobacco. *Tob. Res.* 46(1): 7-10.
 27. Sreedhar, U. 2020. Comparative effectiveness of new insecticides against *Spodoptera litura* in tobacco nurseries. *Innovative Farming* 5(2): 98-102.
 28. Sridhar, J., K. Neelam, V. Venkateswarlu, A. Bhatnagar, K. Malik, S. Sharma and S.K. Chakrabarti. 2020. *Macrosiphum euphorbiae*: A new aphid vector (Aphididae: Hemiptera) of PVY and PLRV on potato from north western hills of India. *J. Ent. and Zoology Studies* 8(2): 1341-1344.
 29. Suni Mandi, Bikas Mandal, S. Kasturi Krishna and D. Damodar Reddy. 2019. Effect of integrated weed management on weed growth and yield of winter maize (*Zea mays*). *Indian J. Agronomy* 64(4): 373-377.
 30. Sunil Mandi and Y.S. Shivay. 2020. Performance of Basmati rice as influenced by summer green manuring crops and sulphur fertilization. (Accepted) in *The Indian J. Agrl. Sci.* on 10th Sep 2020.
 31. Swarnalatha, G., K. Sarala, K. Prabhakara Rao, K. Baghyalakshmi, K.R.S. Sambasiva Rao and J. Poorna Bindu. 2020. Parasitic interactions of *Orobanche* with selected *Nicotiana* species and identification of effective resistant genotypes. *Genetic Resources and Crop Evolution* 67(5): 1125- 1136.
 32. Viswanatha Reddy, K., Venkatesh Paramesh, V. Arunachalam, Bappa Das, Hosam O. Elansary, Arjun Parab, D. Damodar Reddy, K. S. Shashidhar, Diaa O. El-Ansary, Eman, A Mahmoud and Mohamed A. El-Sheikh. 2020. Assessment of Sustainability and Priorities for Development of Indian West Coast Region: An Application of Sustainable Livelihood Security Indicators. *Sustainability* 12: 8716.
 33. Yashbir Singh Shivay and Sunil Mandi. 2020. Advances in understanding iron cycling in soils, uptake/use by plants and ways of optimizing iron-use efficiency in crop production. In: Rengel, Z. (ed.), *Achieving sustainable crop nutrition*, Burleigh Dodds Science Publishing, Cambridge, UK. Pp. 1- 31. doi: <http://dx.doi.org/10.19103/AS.2019.0062.15>.

Technical Bulletins

1. Prasad, L.K., D. Damodar Reddy, C. Chandrasekhararao, H. Ravisankar and J. Poorna Bindu. 2019. Fertility Status of FCV tobacco growing soils in NLS region. ICARCTRI, Rajahmundry.
2. Prasad, L.K., D. Damodar Reddy, C. Chandrasekhararao, H. Ravisankar and J. Poorna Bindu. 2019. Soil Test Crop Response based fertiliser recommendation for yield targets of FCV tobacco in Northern Light Soils of AP. ICAR-CTRI, Rajahmundry.
3. Sarala. K., K. Prabhakara Rao and D. Damodar Reddy. 2020. FCJ 11: A high yielding FCV tobacco cultivar for Northern Light Soils of Andhra Pradesh. ICAR-CTRI, Rajahmundry.
4. Prabhakara Rao, K., K. Sarala, T. Saroja and D. Damodar Reddy. 2020. Nicotiana trigonophylla - ycf1- partial sequence; chloroplast. 811 bp, DNA linear, NCBI accession MT123534. PLN 28-Feb-2020.
5. Prabhakara Rao, K., K. Sarala, T. Saroja and D. Damodar Reddy. 2020. Nicotiana debneyii - ycf1 - partial sequence; chloroplast. 830 bp, DNA linear, NCBI accession MT101750. PLN 28-Feb-2020.

Information Brochures

1. Damodar Reddy, D., H. Ravisankar, B. Hema, K. Sarala, U. Sreedhar, C. Chanrasekhara Rao, S. Kasturi Krishna and Md. Elias. 2020. Best Cultivation Practices of FCV Tobacco in NLS. ICAR-CTRI/2020/IB1.
2. Damodar Reddy, D., H. Ravisankar, B. Hema, K. Sarala, U. Sreedhar, C. Chanrasekhara Rao, S. Kasturi Krishna, M. Anuradha and Md. Elias. 2020. Best Cultivation Practices of FCV Tobacco in SLS. ICAR-CTRI/2020/ IB2.
3. Damodar Reddy, D., H. Ravisankar, B. Hema, K. Sarala, U. Sreedhar, C. Chanrasekhara Rao, S. Kasturi Krishna, P. Venkateswarlu and Md. Elias. 2020. Best Cultivation Practices of FCV Tobacco in Black Soil. ICAR-CTRI/2020/ IB3.
4. Ravisankar, H., D. Damodar Reddy, S. Kasturi Krishna, C. Chandrasekhara Rao, K. Sarala, U. Sreedhar, M. Anuradha and B. Hema. 2019. Mobile App on Good Agricultural Practices of FCV Tobacco. ICAR-CTRI, Rajahmundry.

Training Manual

1. Chandrasekhara Rao, C., K. Viswanatha Reddy, B. Hema and J. Vasanthi. 2019. Training Manual on 'Basics of FCV Tobacco Production' ICAR-CTRI, Rajahmundry. pp 1- 136.