

Personal Details



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Scientist

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Research Interest

Water Resource Management, Simulation and Modeling

Research Highlights

- Agricultural Water Management
- Application of Remote Sensing and GIS in natural resource management
- Subsurface Hydrology
- Simulation of aquifer systems

Memberships / Fellowships

- Indian Society of Agricultural Engineers
- Indian Association of Soil and Water Conservation
- Indian Journal of Agricultural Sciences

Technology Developed

- Deficit irrigation practices for Litchi cultivation in eastern plateau region of India
- Standardization of gravity drum kit drip systems for small farmers
- Subsurface drip irrigation and fertigation practices for Cucurbits
- Yield and water use relations in high density Guava
- Irrigation (Fogging) practices for Mushroom cultivation

Publication Details

Research Papers

- 1.Mehta S, Singh SK, Mali SS and Das B (2012) Effect of pruning on root distribution in guava cv. Allahabad Safeda under ultra-high density orcharding system. Progressive Agriculture- An International Journal. 12(2):303-309
- 2.Mehta S, Singh SK, Das B, Jana BR and Mali SS (2012) Effect of pruning on guava cv. Sardar under high density orcharding system. Vegetos. 25(2):192-195
- 3.Sharma, JP; Mali SS and Kumar S. (2011). Evaluation of substrates and assessment of water requirement for edible oyster mushroom (*Pleurotus florida*) and Blue Oyster (*Hypsizygos ulmarius*) in Jharkhand. International Journal of Applied Biology, 1: 41-42.

Book Chapter

- 1.Kumar S. and Mali S. S., (2010). "Water Management Practices for Horticultural Crops", in "Resource Conservation Technologies For Food Security and Rural Livelihood" Edited by Khan, A. R. Singh, S.S. Bharati, R.C. Srivastava T.K. and Khan, M.A., Agrotech publishing, 2010, ISBN- 8183212026
- 2.Mali, S.S. and Kumar S. (2012). Economic water productivity of drum kit drip irrigation systems for vegetable production. In Conservation of Natural Resources for Food and Environmental Security, Edited by S.K. Dubey, R.K. Dubey, A.K. Singh, P. K. Panda, S. Kala and V.N. Sharda, Satish Serial Publishing House, New Delhi, ISBN 10: 9381226156

Technical Bulletins/Manuals

- 1.Mali S.S, Singh, R.V., S. Kumar, Das Bikas, and Sikka A. K., 2009, Rainwater harvesting and it's multiple uses in plateau region, Ext. Bul. No E-93/Ranchi
- 2.j.kohj flag., dqekj] ,l.,ekyh ,l. ,l., nkl fcdkl ,oa flDdk ., ds., 2009, iBkjh {ks=ksa esa o"kkZ ty laxzg.k vkSj ty ds cgqvk;keh mi;ksx, izlkj iqfLrdk la bZ – 93 jkWph – 38.

3. NICRA team of Mango Pest Surveillance 2012. Manual for Mango Pest Surveillance. Jointly published by National Centre for Integrated Pest Management, New Delhi, ICAR Research Complex for Eastern Region, Research Centre, Ranchi, Central Research Institute for Dryland Agriculture, Hyderabad, and Central Institute for Subtropical Agriculture, Lucknow. 39 pp.

4. "Models for vegetable cultivation with drip irrigation in Jharkhand", published by National Bank for Agriculture and Rural Development, Jharkhand Regional Office, Ranchi & Department of Agriculture, Government of Jharkhand, Ranchi

Extension Bulletin

1. Naik, S.K.; Mali, S.S.; Bhatnagar, P.R.; Das, B. and Kumar, S. (2012). Plastic lined Doba-A promising technology of rain water harvesting for orchard establishment in uplands of eastern plateau region. ICAR Research Complex for Eastern Region, Research Centre, Ranchi.

Popular Article

1. Patle, G.T., Kumar, M. and Mali, S.S., 2013. Importance of crop residue management in context of climate change, Indian Farmers Digest, 46:6, 30-32.

Training teaching material

1. Audio Visual aids for training program on micro irrigation systems under NABARD project.