


Profile of Dr M. MADHU

	<p>Name: Dr M.MADHU Designation: DIRECTOR Date of Birth: 13.05.1965 Area of Specialization: Conservation Agronomy, Watershed Management, Soil and Water Conservation Technologies, Ecosystem Service Services, Monitoring & Impact Assessment etc. Email ID: madhupmd@gmail.com; Madhu.M@icar.gov.in ERP ID: 008129 Mobile: +91-8895036750; 8847820701 Phone: 0135-2750846 ; Fax:0135-2754213</p>
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Detail Profile

1.0 Education

Degree	Year of Passing	University/Institution
Ph.D. (Agronomy)	1995	University of Agricultural Sciences, Bangalore, Karnataka
M.Sc. (Agronomy)	1990	University of Agricultural Sciences, Bangalore, Karnataka
B.Sc. (Ag.) Hon.	1988	University of Agricultural Sciences, Bangalore, Karnataka

2.0 Professional History

Position	Period (From-To)	Institution & Place of posting
Director	April,2021 – Till date	ICAR-IISWC,Dehradun
Head & Pr.Scientist	June,2011 – April,2021	ICAR-IISWC Research Centre, Sunabeda, Koraput
Senior Scientist	May,2009 – June,2011	ICAR-IISWC,Dehradun
Senior Scientist	April,2007-May,2009	ICAR-IISWC Research Centre, Udhagamandalam.
Senior Scientist & I/c. Head	July,2002- April,2007 (promoted as Senior Scientist w.e.f. 14.09.2002	ICAR-IISWC Research Centre, Udhagamandalam.
Scientist S.S.	27.07.1998 to 13.9.2002	ICAR-IISWC Research Centre, Udhagamandalam.
Scientist	21.09.1994 to 26.07.1998	ICAR-IISWC Research Centre, Udhagamandalam.

3.0 Publications (summary)

S. No	Publication	Number
1	Research Publications	87
2	Books	
	Authored	5
	Edited	6
3	Book Chapters	39
4	Lead Papers	3
5	Radio Talks	4
6	Technical/Research Reports/ Compilation / Bulletins	104

7	Extension Folders/Leaf lets	4
8	Symposia/Workshop/Seminar Papers	56
9	Popular article	25
10	Professional Trainings	11
11	Consultancy project handled (Leader in 8 & Associated in 12)	20
12	No. of training organized	
	Short duration sponsored training (Trained :5194)	188
	Soil Conservation Regular Training Course: (5 ½ months duration) (Trained: 185)	12
	B.Tech students Field Practical training- one to two months (No Students: 230)	23
13	Seminars/Symposia/Workshops/Summer or Winter School/ Organized	13
14	External projects handled	25

4.0 Most Important 5 Publications

1. **Madhu, M.** and Jerry L. Hatfield. 2013. Dynamics of plant root growth under increased atmospheric carbon dioxide. **Agron. J.**, 105:657-669.
2. **Madhu, M.** and Jerry L. Hatfield. 2016. Dry matter partitioning and growth analysis of soybean grown under elevated CO₂ and soil moisture levels. **Current Science**, 111(6):981-984.
3. **Madhu, M.** Raghupathy, R., Adhikary, P.P., Muralidharan, P., Khola, O.P.S. and Sikka, A.K. 2016. Biophysical-chemical studies of swamps in the Nilgiris Tamil Nadu. **Tropical Ecology**, 57(4):631-635.
4. **Madhu, M.**, Naik, B.S., Praveen Jakhar, Hombe Gowda, H.C., Partha Pratim Adhikary, Gore, K.P., Barman, D. and Naik, G.B. 2016. Comprehensive impact assessment of resource conservation measures in watershed of eastern region of India. **Journal of Environmental Biology**, 37(3): 391-398.
5. **Madhu, M.**, Sahoo D.C., Sharda, V.N. and Sikka A.K. 2010. Rainwater-use efficiency of tea (*Camellia sinensis* (L.)) under different conservation measures in the high hills of south India. **Applied Geography**, 31:450-455.

Google Scholar Link : <https://scholar.google.co.in/citations?user=AwosfMsAAAAJ&hl=en>

Research Gate link: <https://www.researchgate.net/profile/Madhu-Madegowda>

5.0 Awards/Fellowships/Recognitions

S. No.	Name of the Award/Fellowship /Recognition	Awarding organization	Year of award
1	USDA Borlaug Fellowship	International: USDA Borlaug Fellowship Program –Global Research Alliance (GRA) fellowship for three months from 22 nd October to 15 th December, 2011 at USA	2011
2	Vasantrao Naik Award for Outstanding Research and Application in Dryland Farming Systems	By ICAR, New Delhi.	2013

3	Nanaji Deshmukh ICAR award for outstanding inter disciplinary team research in agriculture and allied subject 2015-16 for Natural Resource Management and Agricultural Engineering (Team Research Award)	By ICAR, New Delhi.	2018
4	Fellow of IASWC	Indian Association of Soil & Water Conservationists (IASWC), Dehradun	2014
5	IASWC Gold Medal-2010	Indian Association of Soil & Water Conservationists (IASWC), Dehradun.	2010
6	Sadhna Achiever Award-2013.	Advancement of Human and Natural (SADHNA),Dr YS Parmar University of Horticulture and Forestry,PO Nauri,Solan -173230, HP, India.	2013
7	Bharat Jyoti Award-2014.	Awarded by India International Friendship Society, New Delhi.	2014
8	Young Soil Conservationists Award-2004	Indian Association of Soil & Water Conservationists (IASWC), Dehradun.	2004
9	Dr KG Tejwani Award	Indian Association of Soil & Water Conservationists (IASWC), Dehradun.	2019
10	ARIC Award for Contribution to Crop Research	Gaurav Publications Foundation, Hissar, Haryana, India	1997

6.0 Research Projects as PI & Co-PI

- Development and demonstration of participatory integrated watershed management in tribal dominated district of Koraput, Odisha under NWDPR (Inter-disciplinary approach)
- Development and demonstration of participatory integrated watershed management in semi-arid region of Tamil Nadu under IWDP & TDET. (Inter-disciplinary approach)
- Development and evaluation of conservation measures and land use systems for sustainable crop production in Western Ghats of coastal region (NATP).
- Development and Evaluation of Conservation Measures for Rehabilitation of Wastelands and Sustainable basis in Western Ghats (TDET/IWDP)
- Development and evaluation of soil and water conservation measures and land use systems for sustainable crop production in Western Ghats of Coastal region-Multi-location Co-ordinated Research Project under NATP
- Development of model watershed Iduhatty in the Nilgiris (HADP Funded)
- Effect of climate change on hydrology of small watersheds vis-à-vis soil and water conservation measures
- Effect of fodder Acacia on the rainfed field crops on slopping land.
- Effectiveness of different bio-engineering measures in new tea plantation in the Nilgiris
- Erosion-productivity relationships for evaluating vulnerability and resiliency of soils under different agro-climate regions of India
- Evaluation of cover crops under cashew and mango plantation for improving soil health and productivity in Eastern Ghats High Land Region of Odisha
- Field evaluation of design of trenches under different agro-climatic regions
- Land and cover management in tea plantation
- Land use analysis by using remote sensing and GIS for resource conservation in shifting cultivated Eastern Ghats region of Odisha
- Land use planning for management of agricultural resources (NATP-LUP).

- Participatory dissemination and assessment of land and water management technologies for livelihood security in Rainfed areas of north-western Himalayas under TDET scheme, Dept. of Land Resources, Ministry of rural Development
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- Performance evaluation of different oil yielding grasses in shifting cultivated degraded lands of Orissa
- Preparation of soil erosion map of Kerala state (Inter institutional approach)
- Valuation of ecosystem services from natural resources conservation and management interventions in different agro-ecological regions of India

7.0 Consultancy Projects

- Advice on treatment measures on landslide prone/affected areas, monitoring of activities in KG-3 model watershed and evaluation of soil conservation activities in the selected watersheds.
- Consultancy for Developing Geranium Farm at Sirumalai near Dindigul with suitable Soil & Water Conservation measures.
- Evaluation of Area Development Programme, Ambegaoan, Maharashtra
- Evaluation of Area Development Programme, Hederabad, AP, India
- Evaluation of Area Development Programme, Rathlam, MP, India
- Evaluation of Area Development Programme, Rathlam, MP, India
- Evaluation of SMC measures at 15 sites of three Divisional Management Units (DMUs) under Odisha Forestry Sector Development Project. (2013-14)
- Evaluation study of DPAP Watersheds in Coimbatore district (T.N.)
- Evaluation study of Western Ghats Development Programme in Goa
- Evaluation study on rehabilitation of village ponds programme implemented by DRDA, Ramanathapuram
- Impact evaluation study of Ayyarkumanam watershed in Kottayam district of Kerala under NWDPR
- Impact evaluation study of Meverackal watershed in Thiruvananthapuram district of Kerala under NWDPR
- Mid Term Evaluation of Area Development Programme, Navprabhat, Udaipur, Rajasthan, India.
- Midterm and Final Evaluation of 10 DPAP watersheds in Coimbatore District
- Preparation of District Irrigation Plan for 6(Six) Districts of Odisha under PMKSY
- Preparation of Micro plan for design and estimate of Soil & Water conservation interventions for 30 Micro watersheds
- Preparation of model watershed development plan in Kg-3 Watershed, Nilgiris (T.N.)
- Preparation of treatment plan (on sample basis) to control/minimize soil erosion in Barsua - Taldih – Kalta mining area of SAIL in Bonai Forest Division of Sundargarh district of Odisha. (2012-13)
- To conduct Bench Mark Survey of KG-4 Watershed at Udhagamandalm
- Watershed management programme soil conservation and landslide works