

## LIST OF PUBLICATIONS

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### Research Papers

#### International

- Adhikary, P.P.; Dash, J. Ch.; Bej, R. and Chandrasekharan, H. (2011). Indicator and probability kriging methods for delineating Cu, Fe and Mn contamination in groundwater of Najafgarh block, Delhi, India. *Environmental Monitoring and Assessment*, 176: 633-676.
- Adhikary, P.P.; Dash, J.; Chandrasekharan, H.; Rajput, T.B.S. and Dubey, S.K. (2011). Evaluation of ground water quality for irrigation and drinking using GIS and geostatistics in peri-urban area of Delhi, India. *Arab Journal of Geoscience* (International) DOI 10.1007/s12517-011-0330-7.
- Halder, Dipanwita; Sehgal, V.K.; Kumar, Gopal and Sundersarma, K.S.S. (2011). Evaluation of ground water and land resources in relation to landforms in Alwar District (Rajasthan): A remote sensing based approach. *Arch. Environ. Sci.*, 5 : 37-45.
- Jain, Manoj K.; Durbude, Dilip G. and Mishra, Surendra K. (2012). An Improved SCS-CN Based Long Term Hydrologic Simulation Model. *Hydrological Engineering* (ASCE), Published online, doi: 10.1061/(ASCE)HE.1943-5584.0000592.
- Mandal, D.; Singh, R.; Dhyani, S.K. and Dhyani, B.L. (2010). Landscape and land use effects on soil resources in a Himalayan watershed. *Catena*, 81 : 203-208.
- Pande, V.C.; Sharda, V.N.; Kurothe, R.S.; Sena, D.R. and Tiwari, S.P. (2011). An empirical assessment of on-farm water productivity using groundwater in a semi-arid Indian watershed. *Water Resources Management*, 26(2): 475-498 (DOI 10.1007/s11269-011-9927-6).
- Panwar, Pankaj; Pal, Sharmistha; Reza, S.K. and Sharma, Biplab (2011). Soil Fertility Index, Soil Evaluation Factor, and Microbial Indices under Different Land Uses in Acidic Soil of Humid Subtropical India. *Communications in Soil Science and Plant Analysis*, 42:27242737.
- Sharma, V.K.; Nagar, D.P.; Dubey, S.K. and Singh, Y.P. (2011). Performance of different wheat cultivars supplemented with differential irrigation under cold arid region of Ladakh (India) *Geobios* 38, 153-156.
- Singh, Raman Jeet; Ahlawat, I.P.S. and Singh, Surender (2012). Effects of transgenic Bt cotton on soil fertility and biology under field conditions in subtropical inceptisol. *Environment Monitoring and Assessment*, DOI 10.1007/s10661-012-2569-1.
- Kishore, Kundan; Kalita, Homeshwar; Singh, Matber; Avasthe, Ravikant; Pandey, Brijesh and Denzongpa, Rinchen (2011). Pollination studies in large cardamom (*Amomum subulatum* Roxb.) of Sikkim Himalayan region of India. *Scientia Horticulturae*, 129 : 735-741.

#### National

- Adak, Tarun; Kumar, Gopal; Sharma, P.K.; Srivastava, A.K. and Chakravarty, N.V.K. (2011). Seasonal changes in soil temperature within mustard crop stand. *Journal of Agrometeorology*, 13(1) : 72-74.
- Adhikary, P.P. and Biswas, H. (2011). Geospatial assessment of groundwater quality in Datia district of Bundelkhand. *Indian Journal of Soil Conservation*, 39(2) : 108-116.
- Ali, Shakir (2011). A mathematical model for estimating surface runoff from small watersheds. *Indian Journal of Soil Conservation*, 39(3): 188-194.
- Arya, Swarn Lata; Panwar, Pankaj and Yadav, R.P. (2011). Role of watershed management in bridging demand sSupply gap of fodder for enhancing livestock production in Shivaliks, Haryana. *Agricultural Economics Research Review*, 24(2) : 225-233.
- Avasthe, Ravikant (2011). Response of rainfed maize (*Zea mays*) to nitrogen management in mid hill acidic soils of Sikkim Himalayas. *Indian Journal of Agronomy*. 56(3) : 232-236.

- Bagdi, G.L. (2011). Demographic and psychological characteristics of tribal farmers towards soil and water conservation technologies A case study in Nandurbar district of Maharashtra. *Indian Journal of Extension Education*, 47(1&2) : 98-101.
- Barman, D.; Sahoo, R.N.; Charaborty, D.; Kalra, N. and Kamble, K. (2011). Deriving homogenous land unit of Karnal district through geographic information systems. *Indian J. Soil Cons.*, 39(2) : 117-123.
- Bhatt, V.K.; Pal, S. and Tiwari, A.K. (2011). Prediction of runoff and sediment yield for Damodar and Mayurkashi basin using artificial neural network. *Indian J. Soil Cons.*, 39(2) : 100-107.
- Bhattacharyya, P.; Mandal, D.; Bhatt, V.K. and Yadav, R.P. (2011). A Quantitative Methodology for Estimating Soil loss tolerance limits for three states of Northern India. *Journal of Sustainable Agriculture*. 35(3) : 276-292.
- Chapke, R.R.; Mondal, B. and Mishra, J.S. (2011). Resource-use efficiency of Sorghum (*Sorghum bicolor*) production in rice (*Oryza sativa*)-fallow in Andhra Pradesh, India. *J. of Human Ecology*, 34(2): 87-90.
- Dadhwal, K.S. and Mehta, H. (2012). Root growth pattern and soil conservation value of high yielding provenances of Bhimal (*Grewia optiva* J.R. Drumn. Ex. Burret) A multipurpose tree of north-western Himalayas. *Indian J. Forestry*, 35(1) : 15-20.
- Dadhwal, K.S.; Mandal, D. and Shrimali, S.S. (2011). Soil quality index for different land use systems in northwestern hilly region of India. *J. Indian Soc. Soil Sci.*, 59(2) : 169-176.
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- Dadhwal, K.S.; Sharma, N.K. and Ghosh, B.N. (2011). Organic farming for resource conservation and soil health improvement in the Himalayan region, India. *Indian J. of Soil Cons.*, 39(3) : 243-250.
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- Das, D.K.; Chaturvedi, O.P.; Jha, R.K. and Kumar, Rajeev (2011). Yield, soil health and economics of aonla (*Embllica officinalis* Gaertn) - based agri-horticultural systems in eastern India. *Current Science*, 101(6) : 786-790.
- Ghosh, B.N., Khola, O.P.S. and Dadhwal, K.S. (2011). Potassium and crop rotation impact on productivity and resource conservation in maize and cowpea based cropping systems. *Indian J. of Soil Cons.*, 39(2) : 136-141.
- Ghosh, B.N.; Sharma, N.K. and Dadhwal, K.S. (2011). Integrated nutrient management and cropping systems impact on yield, water productivity and net return in valley soils of north-west Himalayas. *Indian J. of Soil Cons.*, 39(3) : 236-242.
- Ghosh, B.N.; Sharma, N.K.; Dogra, Pradeep and Dadhwal, K.S. (2012). Effect of integrated organic input management in maize - wheat cropping systems in sloping lands of north-west Himalayas. *Indian Journal of Soil Conservation*, 40(1) : 84-89.
- Jakhar, Praveen; Hombe Gowda, H.C.; Naik, B.S. and Barman, D. (2011). Probability analysis of rainfall characteristics of Semiliguda in Koraput, Orissa. *Indian J. Soil Cons.*, 39(1) : 9-13.
- Kaushal, R.; Gulabrao, Y.A.; Tewari, S.K.; Chaturvedi, S. and Chaturvedi, O.P. (2011). Roofing behaviour and survival of bamboo species propagated through branch cuttings. *Indian Journal of Soil Conservation*, 39(2) : 171-175.
- Koul, D.N., Panwar, Pankaj; Mohammad Moonis and Singh, Charan (2012). Significance of reducing emissions from degradation and deforestation (REDD): Evidence from study in Terai region of India. *The Indian Journal of Forestry*, 35(1): 35-38.
- Koul, D.N.; Shukla, G.; Panwar, P. and Chakravarty, S. (2011). Status of soil carbon sequestration under different land use systems in Terai zone of West Bengal. *Environ. We Int. J. Sci. Tech*, 6 : 95-100.
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- Kumar, Ambrish; Sharma, H.C. and Kumar, S. (2011). Planning for replenishing the depleted groundwater in upper Gangetic plains using RS and GIS. *Indian Journal of Soil Conservation*, 39(3): 195-201.
- Kumar, Ashok, Avasthe, R.K.; Rameash, K.; Pandey, Brijesh; Tasvina, R. Borah; Denzongpa, Rinchen and Rahman, H. (2011). Influence of growth conditions on yield, quality and diseases of strawberry (*Fragaria x ananassa* Duch.) var. Ofra and Chandler under mid hills of Sikkim Himalaya. *Scientia Horticulturae*, 130 : 43-48.
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- Kumar, Gopal; Muralidharan, P. and Madhu, M. (2011). Vegetation induced terrace for sustainable cultivation on higher slopes. *Indian Farmers' Digest*, 44(1) : 23-27.
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- Manikandan, K.; Kannan, P. and Sankar, M. (2012). Evaluation and Management of Groundwater in Coastal Regions -Popular article. Open access e-Journal *Earth Science India*. 5(1) : 1-11.
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- Mehta, H.; Tyagi, P.C. and Dadhwal, K.S. (2010 or 11). High yielding provenances of Bhimal (*Grewia optiva* J.R. Drumm. Ex Burret) for fodder and fuelwood production in North Western Himalaya. *Indian Journal of Agric. Sciences*, 81(8): 717-722.
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- Palsania, D.R.; Yadav, R.S.; Singh, Ramesh; R.K. Tewari, Chaturvedi, O.P. and Dhyani, S.K. (2011). Resource appraisal of Ghar Kunder Dabar Watershed in Bundelkhand region of Central India. *Indian Journal of Soil Conservation*, 39(3): 263-270.
- Pande, V.C.; Kurothe, R.S.; Singh, H.B. and Tiwari, S.P. (2011). Incentives for Soil and Water Conservation on Farm in Ravines of Gujarat : Policy Implications for Future Adoption. *Agricultural Economics Research Review*, 24(1): 109-118.
- Panwar, I.R.S.; Mandal, D. and Majumdar, S.P. (2011). Compaction and nutrient effects on plant water relation parameters, utilization efficiency and N and K mobility in loamy sand soil in wheat crop. *Journal of Soil and Water Conservation*. 10(1): 54-58.
- Panwar, Pankaj and Chakravarty, Sumit (2011). Performance of rice under agri-silvicultural system in terai zone of West Bengal. *Indian J. of Agroforestry*. 13(1): 100-102.
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- Rao, B.K.; Kurothe, R.S.; Pande, V.C. and Kumar, Gopal (2012). Throughfall and stemflow measurement in bamboo (*Dendrocalmus strictus*) plantation. *Indian J. of Soil Conservation*, 40(1): 60-64
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- Singh, Charan; Dadhwal, K.S.; Dhiman, R.C. and Kumar, Raj (2012). Management of degraded bouldery riverbed lands through *Paulownia* based silvipastoral systems in Doon Valley. *The Indian Forester*, 138(1) : 243-247.
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- Singh, R.K.; Prasad, S.N.; Kumar, Ashok and Sethy, B.K. (2011). Production efficiency of conservation measures in medium - deep black soils of south-eastern Rajasthan. *Indian Journal of Soil Conservation*, 39(1) : 27-32.
- Singh, Raman Jeet and Ahlawat, I.P.S. (2011). Productivity, competition indices and nutrients dynamics of Bt cotton (*Gossypium hirsutum* L.) Groundnut (*Arachis hypogaea* L.) intercropping system using different fertility levels. *Indian Journal of Agricultural Sciences*, 81(7) : 606-611.
- Vishwakarma, A.K.; Pathak, K.A.; Brajendra; Ramakrishna, Y. and Pattanyak, A. (2010). Performance of lowland rice varieties under agro climatic conditions of Mizoram. *Journal of Rice Research*, 3(2) : 57-59.

## Conference / Symposia papers

### International

- Bihari, Bankey (2011). Intervention points at grassroots level in participatory process of watershed development and management programmes. Abst : Intl. Conference on 'Innovative Approaches for Agricultural Knowledge Management' organized by Intl. Society of Extension Education. Nagpur (India) and ICAR, New Delhi : 468.
- Dadhwal, K.S. (2011). Vegetational biodiversity as affected due to limestone quarrying and measures for eco-restoration of mine-spoil areas in Uttarakhand Himalayas. Lead paper In : *IUFRO Symposium on Short rotation forestry : synergies for wood production and environmental amelioration*. (edited : S.K. Chauhan, R. Sharma, and Balkaran Singh). Organized by PAU, Ludhiana and sponsored by Benwood, European Commission, IUFRO and ICFRE : 99.
- Mehta, H. and Dadhwal, K.S. (2011). Bhimal (*Grewia optiva* Drummond J.R. Ex. Burret) based agroforestry systems for resource conservation and production in North-western Himalayas. In : *IUFRO Symposium on Short rotation forestry : synergies for wood production and environmental amelioration*. (edited : S.K. Chauhan, R. Sharma, and Balkaran Singh). Organized by PAU, Ludhiana and sponsored by Benwood, European Commission, IUFRO and ICFRE : 54-55.
- Sharma, N.K.; Ghosh, B.N.; Dadhwal, K.S.; Tiwari, A.; Mandal, D. and Patra, S. (2011). Effect of rainfall variations on resource conservation and productivity in Doon valley. In : *Crop Improvement International Conference Preparing Agriculture for Climate Change*. Extended summaries (S.K. Sandhu, D. Pathak, N. Sindhu, R. Bhardwaj and Allah Rang Eds.). The Crop Improvement Society of India. PAU, Ludhiana : 11.
- Sharma, Pawan, P. Singh, R. Prasad, and S.L. Arya (2011) Organic Farming for resource conservation under Soybean-Wheat rotation for degraded soil in lower Himalayas, India; In: *Organic is Life-Knowledge for Tomorrow*, Vol. 1, (eds. D. Neuhoff, S.M. Sohn, C. Sekyewa, N. Halberg, A. Rasmussen and J. Harmansen), proceedings of Third Scientific conference of International Society of organic Agriculture Research and 17<sup>th</sup> International Federation of Organic Agriculture Movements (IFOAM), Organic World Congress, held at Gyeonggi Paldang, Republic of Korea. 28 Sept. - 1 Oct., 2011. ISOFAR, Univ. Bonn, Bonn, Germany : 243-246.

Tripathi, K.P.; Dadhwal, K.S.; Sena, D.R.; Sharma, N.K. and Patra, S. (2012). Soil and water conservation measures and mitigation of climate change for sustained food production. In : A Compendium of Abstract of Papers in International Conference on “Climate Change, Sustainable Agriculture and Public Leadership” (J. Dagar and A. Arunchalam eds.), NASC, New Delhi : 11.

## National

Dadhwal, K.S. (2011). Agroforestry Interventions for Soil and Water Conservation and Eco-restoration. In: *National Symposium on Agroforestry for Environmental services, livelihood security and climate resilient agriculture : Challenges and Opportunities* (Rajendra Prasad, D.R. Palsaniya, N. Gurunathan and S.K. Dhyani Eds.). Abstracts and Souvenir, ISAF-NRCAF, Jhansi : 77.

Dadhwal, K.S. and Mehta, H. (2011). Rooting behaviour of high yielding provenances of Bhimal (*Grewia optiva* J.R. Drummond ex Burret) . In: *National, Symposium on Agroforestry for Environmental services, livelihood security and climate resilient agriculture : Challenges and Opportunities* (Rajendra Prasad, D.R. Palsaniya, N. Gurunathan and S.K. Dhyani Eds.). Abstracts and Souvenir, ISAF-NRCAF, Jhansi : 12.

Dadhwal, K.S. and Mehta, H. (2011). Rooting behaviour of high yielding provenances of Bhimal (*Grewia optiva* J.R. Drummond ex Burret ) a multipurpose tree of North Western Himalayas. In : *National Symposium on Agroforestry for Environmental Services, Livelihood Security and Climate Resilient Agriculture: Challenges And Opportunities*. December 3-5. Indian Society of Agroforestry Jhansi (UP) and National Research Centre for Agroforestry, Jhansi (UP) : 12.

Dadhwal, K.S.; Ghosh, B.N. and Sharma, N.K. (2012). Status of Organic Farming in Indian Himalayan States. In : *Conference on Livelihood and Environmental Security through Resource Conservation in Eastern Region of India*. Abstract, IASWC, Dehradun CSWCRTI, RC, Koraput OUAT, Bhubaneswar : 108.

Ghosh, B.N. and Dadhwal, K.S. (2011). Balanced and integrated fertilizer use with emphasis on potassium for enhanced productivity and resource conservation in North-Western Himalayan Region. In: 44<sup>th</sup> Annual Convention of ISAC and National Symposium on Balanced Fertilizer to Sustainable Soil Health, Crop Production and Food Security. Souvenir cum-Abstracts, GBPUA&T, Pantnagar : 146.

Ghosh, B.N.; Dogra, P.; Sharma, N.K. and Dadhwal, K.S. (2012). Effect of Conservation Agriculture on Yield, Soil Conservation and Economics in Maize-Wheat Cropping System in North-west Himalayan Region. In : *Conference on Livelihood and Environmental Security through Resource Conservation in Eastern Region of India*. Abstract, IASWC, Dehradun CSWCRTI, RC, Koraput OUAT, Bhubaneswar : 121.

Kaushal, R.; Tewari, S.; Banik, R.L.; Chaturvedi, O.P. and Dadhwal, K.S. (2012). Technology of Mass Multiplication of Bamboos by Branch Cuttings. In : *National Conference on Forest, Environment and Climate Change : Issues and Challenges*. Abstracts, Department of Forestry, Wildlife and Environmental Sciences, Guru Ghasidas University, Bilaspur (Chhattisgarh) : 152-153.

Mehta, H. and Dadhwal, K.S. (2011). Bhimal (*Grewia optiva* J.R. Drumm. Ex Burret) based agroforestry systems for resource conservation and production in north western Himalayas. In: *IUFRO Symposium on Short Rotation Forestry: Synergies for Wood Production and Environmental Amelioration*, February 10-12. Dept of Forestry and Natural Resources, PAU, Ludhiana : 54-55.

Mehta, H. and Dadhwal, K.S. (2011). Bhimal (*Grewia optiva*) for resource conservation and fodder productivity in hilly region of North West Himalayas. In: *National Symposium on Forage Resource and Livestock for Livelihood, Environment and Nutritional Security*, September 10-11. Range Management Society of India, Jhansi and Indian Grassland and Fodder Research Institute at IG&FRI Jhansi : 119.

Mehta, H.; Dadhwal, K.S. and Chaturvedi, O.P. (2010). Multilocation evaluation of high yielding provenances of Bhimal (*Grewia optiva* J.R. Drummond Ex Burret) A multipurpose agroforestry tree species of North Western Himalayas. *National Seminar on Biodiversity, Ecosystem and Climate Change: The Challenge Ahead* : 32.

- Panwar, Pankaj and Pal, Sharmistha (2011). Carbon sequestration and soil fertility improvement in plantation and agroforestry systems in lower Himalayan region National Symposium on Agroforestry for environmental services, livelihood security and climate resilient agriculture: Challenges and opportunities (Eds: Rajendra Prasad, D.R. Palsaniya, N. Gurunathan and S.K. Dhyani) Dec.3-5 : 58.
- Patil, S.L.; Mondal, Biswajit.; Bagdi, G.L.; Channabasappa and Reddy, K.K. (2011). Relative Performance of Watershed Development Projects under Different Institutional Structures in Semi-Arid Tropics of Andhra Pradesh. In: National Workshop on Dryland Development and Maximum Crop Productivity (May,12-13) held at Deptt. of Soil & Water Conservation Engineering, Agricultural Engineering Collage and Research Institute, TTAU, Coimbatore : 116.
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