

Dr SK Bhardwaj Professor and Head

Specialization: Climate Change, Soil and Water Pollution Monitoring, EIA and Ecosystem restoration studies

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Ongoing Research Projects

- Gramin Krishi Mausam Sewa (GKMS) funded by India Meteorological Department, Ministry of Earth Science (Nodal Officer).
- Forecasting Agricultural Output using Space Agro meteorology and Land based observations (FASAL) funded by Ministry of agriculture and farmers welfare (Principal Investigator).
- Assessment of Impacts of Climate Variability/Change on Apple Crop Productivity and Quality in Himachal Pradesh funded by Department of Horticulture, Shimla (HP) (Principal Investigator).

Important Research Publications

More than 150 research papers were published in the Journals of National and International repute out of which 10 are given below,

- Mehta P, Jangra MS, Bhardwaj SK and Paul S. 2022. Variability and time series trend analysis of rainfall in the mid- hill sub humid zone: a case study of Nauni, *Environ Sci Pollut Res.* **29** (53): 80466-80476.
- Muskaan, Aggarwal RK and Bhardwaj SK. 2022. Effect of anti-hail net installations on microclimate around apple plants in orchards of Himachal Pradesh. *Journal of Agrometeorology.* **24** (1): 83-85.
- Pandit J, Bhardwaj SK and Sharma AK. 2021. Urban sustainability of Solan district Himachal Pradesh, India. *Current science* **120** (7): 1246-1249.
- Singh AK, Bhardwaj SK and Devi S. 2021. Microbiological status of drinking water sources and its relationship with human health in Solan, India. *Environmental Monitoring Assessment.* **193** (32) 1-11.
- Bhavika S, Bhardwaj SK, Sharma S, Nautiyal R, Kaur L and Alam NM. 2019. Pollution tolerance assessment of temperate woody vegetation growing along the National Highway-5 in Himachal Pradesh, India. *Environmental Monitoring and Assessment.* **191**: 1-14.
- Kashyap R, Verma KS, Uniyal SK and Bhardwaj SK. 2018. Geospatial distribution of metal (loids) and human risk assessment due to intake of contaminated groundwater around an industrial hub of northern India. *Environmental Monitoring and Assessment* **190**(3): 136.
- Vadiya P, Bhardwaj SK and Sood S. 2017. Land use and Land cover changes in Kullu valley of Himachal Pradesh. *Indian Journal of Agricultural Sciences* **88**(6): 902-6.
- Sharma B, Sharma S, Bhardwaj SK, Ndungu CK and Dutt B. 2015. Ethno botanical uses of common plant species growing along the National Highway 5 from Solan to Shimla in Himachal Pradesh. *World Journal of Pharmacy and Pharmaceutical Sciences* **4**(2): 1210-1218.
- Bhardwaj SK, Sharma SD and Kumar P. 2012. Effect of conjoint use of bio-organics and chemical fertilizers on yield, soil properties under French. *Archives of Agronomy and Soil Science* **58**: 759-763.

- Bhardwaj SK, Sharma IP and Sharma SD. 2010. Water distribution, application efficiency and growth of young apple plants under drip irrigation in mid- Himalayas. *Indian Journal of Horticulture* **67**: 146-149.

Books and manuals

- Bhardwaj S, Sharma I P and Verma S. 2010. Sustainable management of micro-watershed resources of North Western Himalayan region. Directorate of Extension Education, Dr YSP UHF, Nauni, Solan (HP). p53.
- Bhardwaj S, Chandel R, Sapehia RS and Gupta S. 2011. Precision farming of Horticultural crops. Directorate of Extension Education, Dr YSP UHF, Nauni, Solan (HP).p175.
- Bhardwaj S K, Verma S, Verma S C, Sharma S D and Bhardwaj R. 2012. Crop production under changing climatic situations in Solan. Published by Department of Environmental Science, UHF, Nauni, Solan (H P). p141.
- Bhardwaj S K, Jangra MS and Sharma R. 2018. Climate variability/change impacts on mountain ecosystem vis-à-vis crafting adaptation and mitigation strategies for sustainable livelihood in Himachal Pradesh. Proceeding of Brain storming meeting. p22.
- Jangra M S and Bhardwaj S K. 2019. Experimental Climate Science, Directorate of Extension Education, Dr YSP UHF, Nauni, Solan (HP). p150.

Awards & Recognitions

- Handled nine externally funded projects each as PI and Co-PI along with two inter-institutional projects.
- Established linkages with Queen's University Belfast, UK in respect of Environmental Studies.
- Got international green university award, 2022 for the university by presenting university level green initiatives in Green School conference 2022 executed by SUNY Maritime college, New York as an activity incharge of green initiatives and got Cleanliness and Beautification Award-2017 at university level.
- Member of State Expert Appraisal Committee of the State constituted by MOEF&CC, GoI, New Delhi.
- Member of Board of studies of Department of Environmental Science of HPU Shimla & HP Central University, Dharmshala.
- Undertaken International training-cum-exposure visits on innovative Hi-tech ecofriendly fruit production approach in Australia w.e.f. March 14-28, 2023 under IDP project and on "R & D in irrigation and fertigation in controlled environment" Organized by CINADCO, at Bet Dagan in Israel w.e.f. Nov 10-Dec 4, 2003.