

Dr PK Baweja

Principal Scientist (Agromet)

Specialization: Micro-climate studies, Forest Fire Modeling.

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Ongoing Research/Extension Projects:

- Forecasting Agricultural Output using Space, Agrometeorology and Land based observations (FASAL) since March, 2013-till date—funded by Ministry of Earth Science, IMD, GOI, N-Delhi.
- Climate Smart Model Village 2023 funded by Department of Horticulture & Food Processing, Uttarakhand, Govt. of Uttarakhand, Dehradun.

Important Research Publications

- Sati A, Rawat, KS, Baweja HS, Baweja PK, Bisht N, Gupta KK and Kandari DS 2022. Statistical analysis of the last 30 years of space borne precipitation data of Uttarakhand by non-parametric tests. *Earth and Environmental Science*. (Accepted)
- Rawat K S, Baweja HS, Baweja PK, Bisht N and Gupta KK 2022. Assessment of standard anomaly index (SAI) of last 30 years space borne precipitation data of Uttarakhand. *Earth and Environmental Science*. (Accepted)
- Sati A, Khali H, Kandari DS, Rawat KS, Baweja HS, Baweja PK and Bisht N 2022. Statistical analysis of the last 30 years of space borne precipitation data of Uttarakhand by parametric tests. *Earth and Environmental Science*. (Accepted)
- Kumar Akash, Baweja HS, Diltia BS and Baweja PK 2020. Studies on alternative holding solutions for improving vase life of cut carnation (*Dianthus caryophyllus* L.) *International Journal of chemical Studies* 8(5): 2593-2596.
- Parmar T, Baweja HS, Diltia BS and Baweja PK 2020. Impact of environmental factors and mulching on growth, quality and yield of carnation (*Dianthus caryophyllus* L.) cv. 'Loris' of carnation (*Dianthus caryophyllus* L.) *International Journal of Chemical Studies* 8(5): 1879-1882.
- Kumar Akash, Baweja HS, Diltia BS and Baweja PK, Chahal AS, Sharma V and Vanshdeep 2020. Effect of low temperature dry storage on vase life of cut carnation (*Dianthus caryophyllus* L.) flowers. *Journal of Pharmacognosy & Phytochemistry* 9(6): 1923-1925.
- Mehta D, Baweja Parminder Kaur and Aggarwal RK 2019. Developing fire danger model using logistic regression analysis for mid-hills of Himachal Pradesh. *Journal of Agrometeorology* 21(4): 510-514.
- Mehta P, Baweja PK, Bhardwaj SK and Aggarwal RK 2018. Impact of canopy and seasonal dynamics on different forest soil microbial community composition in mid hills of Himachal Pradesh. *Int. J. Current. Microbiology. & Applied. Sciences* 7(9): 494-502.
- Mehta D, Baweja PK and Aggarwal RK 2018. Forest Fire risk assessment using fuzzy analytic hierarchy process. *Current World Environment* 13(5): 307-316.
- Mehta P, Baweja PK and Bhardwaj SK 2017. Seasonal micro-climatic variation in physical and chemical characteristics of soil on different forest eco-systems under mid-hills conditions of Himachal Pradesh. *Indian Journal of Ecology* 44(4): 717-721.
- Mehta P, Baweja PK and Aggarwal RK 2017. Impact of micro-climatic variations on forest ecosystem in mid hills of Himachal Pradesh. *Current World Environment* 12(1): 97-106.

- Parminder Kaur Baweja 2011. Rainfall variability and probability for crop planning in Solan, Himachal Pradesh. *International Journal of Farm Science*1(1):75-88.
- Parminder Kaur Baweja 2002. Predicting grain yield in maize: canopy temperature based regression indices. *Journal of Agrometeorology*4(2):177-179.

Books and Manuals

- Baweja PK, Aggarwal RK and Bhardwaj SK 2018. *Gramin Krishi Mausam Seva: Ek Jhalak*. Hindi Edition. Department of Environmental Science, DrYS Parmar UHF Nauni Solan (HP) India p100+2.
- Baweja PK, Aggarwal RK and Bhardwaj SK 2019. *Bhugolic Prasthion PrAdharit Krishi Dristikon*. Hindi Edition. Department of Environmental Science, DrYS Parmar UHF Nauni Solan (HP) India p60+2.
- Baweja PK 2017. Textbook on Agrometeorology. Department of Environmental Science, Dr YS Parmar UHF Nauni Solan (HP) India p125.
- Baweja PK 2016. *Pala Niyantran*. Hindi Edition. Department of Environmental Science, Dr YS Parmar UHF Nauni Solan (HP) India p70.
- Baweja PK, Bhardwaj SK and Aggarwal RK 2014. A Manual on Practical Agrometeorology. Department of Environmental Science, Dr Y S Parmar, UHF, Nauni-Solan (HP) India p80.
- Verma KS and Baweja PK 2011. *Mausam Ke Purvanuman Ka Krishi Par Parbhav*. Hindi edition. Department of Environmental Science, Dr YS Parmar UHF Nauni Solan (HP) India p60+1.

Awards & Recognitions

- Executive Member of South Asian Forum on Agricultural Meteorology SAFOAM- 2021.
- International Recognition Award-2021 conferred during international mushroom festival held at Haridwar by Department of Horticulture, Govt. of Uttarakhand during October 18-20, 2021.
- Pride of Solan Award-2017 felicitated by Deputy Commissioner, Solan during felicitation Function held at Hotel Paragon by Amar Ujala on March 25, 2017.
- Executive member of Indian Meteorological Society since 2016.
- Certificate of Appreciation- 2014 conferred by DDGM, Ministry of Earth Science, Govt. of India, New-Delhi 110 003 for meritorious services under GKMS Project.
- 1st Runner up Oral Presentation Award-2014 for Research Paper during International Symposium on NASA-2014 held at GB Pant University of Agriculture & Technology Pantnagar Uttarakhand w.e.f. October 15-18, 2014.
- Second Prize in Poster Presentation-2006 National Symposium on Changing Concepts of Forestry in 21st Century for of Research paper held at College of Forestry, Dr. Y S Parmar, UHF, Nauni-Solan.

Academics

- Guided 15 graduates at MSc level and 2 ongoing students as Major Advisor.
- 3 PhD scholars are working under my guidance as Major Advisor in Environmental Science.