

**Dr MS Jangra**  
Principal Scientist

Specialization: Agricultural Meteorology, Weather forecast and Agromet Advisories, Climate Change, Environmental Science

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### Ongoing Research Project

- Gramin Krishi Mausam Sewa, funded by India Meteorological Department, DST, Ministry of Earth Sciences. (Principal Investigator).
- Forecasting Agricultural output using Space, Agro-meteorology and Land based observations (FASAL) funded by Ministry of Agriculture and Farmers Welfare. (Co-PI).

### Important Research Publications

- 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.
- Singh M and Sharma M. 2022. Pheno-thermal response of Chrysanthemum under different environments in mid hills of Himachal Himalayas. *Mausam* **73** (4): 959-66.
- Kaur S and Singh M. 2020. Modeling the crop growth – A review. *Mausam* **71**(1): 103-114.
- Singh M and Niwas R. 2018. Rainfall variability analysis over north-west India in context to climate change using GIS. *Climate Change* **4**(13): 12-8.
- Singh M, Niwas R and Godara AK. 2018. Trend of chilling hours over north-west India. *Journal of Agrometeorology* **20** (3): 262-4.
- Singh M, Niwas R and Anurag. 2018. Rainfall trend analysis in north-west India. *Journal of Agrometeorology* **20** (3): 265-7.
- Singh M, Niwas R, Godara AK, Rajeev and Khichar ML. 2017. Pheno-thermal response of pears in western Indo Gangetic plain. *Mausam* **68** (4): 745-50.
- Singh M, Niwas R, Khichar ML and Rajeev. 2016. Trend and variability in potential evapotranspiration over north-west India. *Journal of Agrometeorology* **18**(2): 335-8 (NAAS Rating 6.55).
- Singh M, Niwas R, AK Godara and ML Khichar. 2015. Pheno-thermal response of plum genotypes in semi arid region of Haryana. *Journal of Agrometeorology* **17** (2): 230-3.
- Singh M and Bhatia HS. 2012. Thermal indices in relation to crop phenology and fruit yield of apple. *Mausam* **63**(3):449-54.

### Books and Manuals

- Jangra MS. 2017. Gramin Krishi Mausam Vigyan, A Notion Press Publication, Chennai. p350.

### Awards & Recognition

- Received first prize in oral presentation during National Seminar on Agrometeorological Intervention for Enhancing Farmers Income organized by the Association of Agrometeorologists (AAM) at Kerala Agricultural University, Thrissur w.e.f. January 20-22, 2020.

- Received first prize in oral presentation during International Symposium on “Advances in Agrometeorology for managing climatic Risk of Farmers” held at JNU, New Delhi w.e.f. February 11-13, 2019.
- Received best poster presentation award during National seminar on “New Frontiers and Future Challenges in Horticultural Crops” organized by PAU, Ludhiana w.e.f. March 15-17, 2012.