

Division of Land and Water Management

Personal Details



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Research Interest

Crop - weather interactions, Micrometeorology, Climate change impact study, GIS, Microclimate under agrivoltaic system (AVS) and Crop simulation model (CSM).

Research Highlights

Impact of elevated CO₂ and temperature on rice-wheat cropping system, Modelling approaches to simulate solar radiation under agrivoltaic system.

Memberships / Fellowships

- Life member of Association of Agrometeorologists, Anand (Gujarat)
- Life member of Society for Upliftment of Rural Economy, Varanasi (UP)

Technology Developed

Publication Details

Research Paper

Ghasal,P.C., Bir, D., Yadav, A., **Prakash.Ved** and Verma R.K.(2014).Productivity and profitability of rice varieties under different methods of establishment.*Ann. Agric. Res.*, 35 (3): 298-303.

PrakashVed,Niwas,Ram.,M.L.Khichar, Dinesh Sharma, Manmohan and Baljeet Singh (2015).Agrometeorological indices and intercepted photosynthetically active radiation in cotton crop under different growing environments.*J. Cotton Res. Dev.* 29 (2) 268-272.

Dwivedi, S.K., Kumar, S., **PrakashVed**,Mondal, S. and Mishra, J.S. (2015).Influence of rising atmospheric CO₂ concentrations and temperature on morpho-physiological traits and yield of rice genotypes in sub humid climate of eastern India.*American Journal of Plant Sciences*, 6, 2339-2349.

Singh, A.K., Singh, S.S.,**PrakashVed**., Kumar, S.andDwivedi, S.K. (2015).Pulses Production in India: Present Status, Bottleneck and Way Forward.*Journal of AgriSearch* 2(2): 75-83.

Prakash,Ved.,Niwas, R., Khichar, ML. and Nayak, M. K.(2016). Influence of abiotic

factor on leaf curl virus disease in different cotton cultivars under two growing environments. *The Ecoscan*.10 (1 & 2):111-115.

Nayak, M. K., Patel, H. R., Kumar, A. and **PrakashVed.** (2016). Study of Soil Moisture Depletion Under Different Irrigation Levels by CROPWAT Simulation Model. *Advances in Life Science*.5(16):6180-6184.

Prakash, Ved.,Dwivedi, S. K., Kumar, S., Mishra, J. S.,Rao, K. K., Singh,S. S. and Bhatt, B. P. (2017). Effect of elevated CO₂ and temperature on growth and yield of wheat grown in sub-humid climate of eastern Indo-Gangetic Plain (IGP).*MAUSAM*, 68, 3: 499-506.

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Premdeep, Niwas, R.,Khichar, M.L.,**Prakash, Ved.** andKumar, S. (2017). Energy use efficiency, growth and yield of cotton cultivars under different thermal environments. *TheBioscan*. 12(4):1939-1943.

Prakash, Ved.,Mishra, J.S., Kumar, R., Kumar Ravikant, Kumar, S., Dwivedi, S.K.,, Rao, K. K. and Bhatt, B. P. (2017). Thermal utilization and heat use efficiency of sorghum cultivars in middle Indo Gangetic Plains. *Journal of Agrometeorology*19 (1): 29-33.

Samala, S.K., Rao, K.K.,Poonia S.P., Kumara,R.,Mishraa,J.S., **Prakash, Ved.,** S. Mondal, Dwivedia, S.K., Bhatta, B.P., Sushanta Kumar Naikc , Choubeya, AK. , V. Kumard , R.K. Malikb, and DonaldeA.M. (2017).Evaluation of long-term conservation agriculture and crop intensification in rice-wheat rotation of Indo-Gangetic Plains of South Asia: Carbon dynamics and productivity.*European Journal of Agronomy*. 90: 198–208.

Prakash, Ved.,Niwas, Ram. And Nayak, M.K. (2017).Cotton leaf curl virus disease progression in relation to weather under two growing environments.*New Agriculturist*, 28(1):1-9.

Mishra,J.S., Kumar, R., Ravikumar, R.,Kumar, **Prakash,Ved.,**Rao,K. K.and Bhatt,B.P. (2017). Production potential of improved grain sorghum cultivars (Sorghum bicolor) under staggered plantings in non-traditional areas of Eastern India.*Indian Journal of Agronomy*. 62 (1): 74-80.

Kumar, S., Kumar, R., Mishra, J.S.,Dwivedi, S.K .,**Prakash, Ved.,**Rao, K.K.,Singh, A.K., Bhatt, B.P.,Singh, S.S.,Haris, A.A., Kumar, V.,Srivastava, A.K., Singh, S. and Yadav A. (2018). Productivity and profitability of rice (Oryzasativa) genotypes as influenced by crop management practices under middle Indo-Gangetic Plains.*Indian Journal of Agronomy*.61(1):45-49.

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dynamics and productivity of fababean (*Vicia faba* L.). *Journal of Agrometeorology*.20 (1):36-39.

Kumar, Ujjwal., Bharati, R.C., Chaubey, R.K., Rao, K.K., **Prakash, Ved.** and Kumar, A. (2018). Gender perspective of conservation agriculture. *Indian Journal of Agricultural Sciences*.88(8):1202-1207.

Chhabra, V., Haris, A., **Prakash, Ved.**, Upadhyay. H. (2018) . Cropping systems and their effectiveness in adaptation and mitigation of climate change. *Plant Archives*. 18 (1):1175-1183.

Samal, S.K., Dwivedi, S.K., Rao, K.K., Choubey, A.K., **Prakash, Ved.**, Kumar, S., Mishra, J.S., Bhatt, B.P. and Moharana P.C. (2020). Five years' exposure of elevated atmospheric CO₂ and temperature enriched recalcitrant carbon in soil of subtropical humid climate. *Soil and Tillage Research*.202:104707.

Singh, A.K., Singh, L., Yasin J.K., Raman, R. K., Sundram, P.K., Jeet, P., Saurabh, K., **Prakash, Ved.**, Upadhyaya, A., Kumar, U. (2021). Traits preferred by birds to attack on standing wheat crop under temperate condition and its prediction through random forest model. *Journal of AgriSearch*. 8(1):21-25.

Book Chapter

Prakash, V., Kumar, S., Dwivedi, S.K., Rao, K.K., Mishra, J.S. (2016). Impact, Adaptation Strategies and Vulnerability of Indian Agriculture towards the Climate Change. *Conservation Agriculture*. Springer, Singapore, 437-457.

Dwivedi, S.K., Kumar, S., **Prakash, V.**, Mishra, J.S. (2016). Effect of climate change on growth and physiology of rice-wheat genotypes. *Conservation Agriculture*. Springer, Singapore, 527-543.

Kumar, S., Dwivedi, S.K., **Prakash, V.**, Rao, K.K., Mishra, J.S. (2016). Diversity among rice landraces under static (ex situ) and dynamic (on-farm) management: a case from North-Western Indian Himalayas. *Conservation Agriculture*. Springer, Singapore, 509-526.