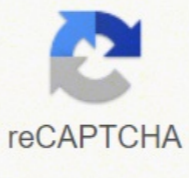




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Statistical Modeling of Crop-Weather Relationship in India: A Survey on Evolutionary Trend of Methodologies

Kirtti Ranjan Paltasingh
SMVD University
Jammu, India
Email: kirtti@smvdu.ac.in

Phanindra Goyari
Texas Christian University
Fort Worth, Texas, USA
Email: phanin12@gmail.com

ABSTRACT

Weather factors, like other inputs such as land, labor, seeds, irrigation, fertilizer, and pesticides are also direct inputs in crop production. In a state of agriculture where the adoption and diffusion of modern technologies is very low or almost nil, weather factors count more than other inputs because of their direct and indirect effects. Thus, the link between weather and crop yield will have implications on food supply and crop forecasting and management policies. It is of immense importance to the policymakers, agricultural scientists, agricultural economists, and meteorologists to understand this relationship. The methodology for studying this relationship has undergone many improvements over time. This paper attempts to review the studies in this area done in India and a few from abroad that brought an evolution in the methodology of crop-weather modeling.

Keywords: weather, crop yield, forecasting, modeling, supply response

JEL Classification: Q18, C51, C5





For the short term, we have data based on a single weather model that is known to deliver the best forecast for Palsera. If the range is wide, you know there's more uncertainty, and to not give too much credence to any one possible forecast outcome. Expect widespread areas of smoke and haze, reducing visibility at times. Winds NW and variable. Moonrise 13:21 Winds SE at 10 to 15 km/h. Generally clear. Winds WNW and variable. Generally clear. Winds ENE and variable. Moonrise 09:19 Partly cloudy. Winds NW at 10 to 15 km/h. Generally clear. Hazy. Winds ESE at 10 to 15 km/h. Low 7°C. Low 8°C. For the longer term, we have forecasts for the next two weeks based on an analysis of many different possible forecast outcomes that will give you a sense of not just what's most likely, but how the forecast could change in future updates as we get closer to any given date. Low 6°C. Winds WSW and variable. Generally clear. Winds WNW and variable. Moonrise 05:23 Generally clear. Winds E and variable. Moonrise 11:25 Partly cloudy. High 17°C. Neighboring places around Palsera - Nagla Dada, Lalgarhi, Basera, Khera Kishan, Nigauna, Nagla Kirpa, Nagla Saidpur, Bhadiar, Usra Rasulpur, Damwaka Cities, towns, villages - Agra, Aligarh, Amroha, Auraiya, Azamgarh, Baheri, Bahraich, Balrampur, Baraut, Bareilly, Basti, Bela, Bhadohi, Bijnor, Bisalpur, Budaun, Bulandshahr, Banda, Chanduasi, Chhibramau, Chandpur, Dadri, Deoband, Deoria, Etawah, Faizabad, Farrukhabad, Faridpur, Fatehpur, Firozabad, Gangoh, Gautam Budh Nagar, Ghaziabad, Ghazipur, Gola Gokarnath, Gondā City, Gorakhpur, Greater Noida, Gyānpur, Hardoi, Hasanpur, Hāpur, Hāthras, Jahāngīrābād, Jaunpur, Jhānsi, Jālaun, Kairana, Kannauj, Kanpur, Kasganj, Khatauli, Khurja, Kiratpur, Lakhimpur, Lalitpur, Loni, Lucknow, Lāharpur, Mahoba, Mainpuri, Mathura, Mau, Mawana, Meerut, Mirzāpur, Morādābād, Mughal Sarāi, Muradnagar, Muzaffarnagar, Najina, Najibabad, Nawābganj, Noida, Obra, Orai, Pilkhuwa, Prayagraj, Pilibhit, Raebareli, Renukoot, Rāmpur, Rāth, Sahaswān, Sāhāranpur, Sambhal, Shahjahanpur, Shamli, Sherkot, Shikohabad, Shāhābād, Sikandrabad, Sultānpur, Sitāpur, Tilhar, Tāndā, Ujhāni, Unnāo, Varanasi, Vrindāvan Mountains and hills - Bhān Toriya, Birāri, Chapri Pahār, Dahjanān Pahār, Dakhin, Dharwār, Kāmāsān, Kāinwasa, Kedār Pahārī, Khatri Pahār, Kotādei Hill, Kutka Pathār, Lambā, Lāhārgīrd Māta, Macpherson Pokh, Mahulanān, Marwa, Mirgārāni Pahār, Morola Pahār, Mudhwa, Pālī Pahārī, Richhna Pahār, Sahāliwā, Sundari Pahār, Uriya Lakes - Asheshwar Kund, Aurandh Tāl, Bammāli Kund, Bara Tāl, Chandār Kund, Chir Kund, Gaun Kund, Jasein Tāl, Kishori Kund, Krishna Kund, Madsīdān Kund, Mehūta Tāl, Moti Kund, Moti Jhil, Pādārgāngā Kund, Pālār Jhil, Ratan Kund, Samri Tāl, Shyām Kund, Singhman Pūkhā, Sobhanāth Tāl, Sūraj Kund, Tāl Chandokha, Tāl Guhāli, Yashoda Kund Don't show additional information again Next 7 Days Generally clear. Winds NNE and variable. Generally clear. Winds W and variable. Moonrise 03:06 Generally clear. If the range of possible outcomes is narrow, you can have high confidence in the forecast. You can see where there are thunderstorms currently ongoing, as well as where thunderstorms have occurred in recent weeks and months with our lightning analysis tool. Winds NNE and variable. Moonrise 06:24 Generally clear. Winds WNW at 10 to 15 km/h. Generally clear. Winds ESE at 10 to 15 km/h. Generally clear. We also have other products such as Meteograms and Forecast XL elsewhere on our site to give you additional options for figuring out the forecast for Palsera. Our HD satellite images of Palsera will show you whether there's sunshine currently in the area, or if clouds are making for a more gloomy day. Low 9°C. High 19°C. Winds ESE at 10 to 15 km/h. Partly cloudy. Winds WNW and variable. Moonrise 04:15 Generally clear. Winds E and variable. Moonrise 10:22 Generally clear. Winds ESE at 10 to 15 km/h. Moonrise 08:04 Partly cloudy. Weather News and Analysis January 28, 2022 Weather News and Analysis January 28, 2022 Weather News and Analysis January 28, 2022 Wetter Online January 27, 2022 Wetter Online January 27, 2022 Wetter Online January 27, 2022 Wetter Online January 27, 2022 Sunset today: 05:56pm Sunrise tomorrow: 07:08am Current weather - Here we've put together a glance at all the most important information about the current weather in Palsera (Uttar Pradesh, India). Low 11°C. Winds S and variable. Generally clear. Winds W at 15 to 25 km/h. Generally clear. Winds E and variable. Moonrise 10:53 Generally clear. High 18°C. High 20°C. Winds NNE and variable. Moonrise 09:51 Generally clear. Winds SE at 15 to 30 km/h. Showers. High 21°C. Winds NE and variable. Moonrise 12:00 Generally clear. Winds W and variable. Generally clear. Chance of rain 50%. Moonrise 08:44 Partly cloudy. Low 10°C. Forecast for the next few days - The weather forecast for Palsera is available in several different versions, all clearly and simply displayed here on the Weather Palsera page. Winds W at 10 to 15 km/h. Generally clear. Finally, current observations will tell you what current temperatures look like around Palsera at the moment, as well as if it's humid and/or windy. Winds NNW and variable. Moonrise 12:38 Generally clear.

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