

Category	: International Rice Research Conference
Select Theme	: Food systems for the future
Endorsement email	:
Keyword 1	: Strategic foresight
Keyword 2	: The future of food (systems)
Keyword 3	: The future of rice farming
Title of Entry	: Rice Potential Yield Check: A visualization tool for identifying potential yields and best sowing dates of rice varieties across Asia
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Select only one type of presentation : 3-5 minute flash talk

Abstract : The Rice Potential Yield Check is a web-based online visualization tool, which provides information on the climatic potential yield of a particular variety, with its corresponding day of sowing, for several years across different locations. The tool generates the graphical representations of the minimum, maximum and mean rice potential yields. The climatic potential yield is the result of ORYZA crop model simulation under potential production, where crop growth occurs in condition with generous supply of water and nutrients, and growth rates are determined by varietal characteristics and weather conditions associated with solar radiation and daily temperatures. Currently, there are 20 popular varieties available for specific locations in South and Southeast Asia and the climactic potential yields of these varieties were simulated for 1998 until 2011. Information on the rice climatic potential yield can be beneficial in deciding the most likely suitable variety that can be established at a certain location. The tool can be used to visualize the different climatic potential yield of a particular cultivar, which is significant in decision-making if that particular variety is appropriate to be planted at a certain area. It also provides a graphical representation of the weather information with the daily minimum, maximum, and mean temperatures, during crop growth at given sowing dates. These generated graphs can be useful to establish the best sowing dates of different rice varieties across Asia for several years.

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