

## WATER LOGGING TOLERANT CLONE FOR CULTIVATION IN MARGINAL LAND

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*ABSTRACT* : TRA garden series clones Sanyasithan 8 (SNT-8), Sanyasithan 9 (SNT-9), Sanyasithan 10 (SNT-10) and Sanyasithan 27 (SNT-27) were evaluated under full root zone submergence to ascertain the degree of tolerance to water logging (flooding). The sleeve grown plants were kept under full root zone submergence for a period of 45 days. Morphological, physiological and biochemical changes were quantified at different time interval upto 45 days. Finally, SNT-10 was found to be the highly tolerant clone to water logging.

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*Key words*: **Waterlogging, Photosynthesis, transpiration, water use efficiency (WUE), proline and wax, SNT-10**

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