

Research Communication

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Impact of Variation in Thermal Working Environment on Cardiac Performance in Bengalee Male Crop Cultivators of a Southern District of West Bengal

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During different agricultural tasks, the crop cultivators work manually in the agricultural field, which may have some impact on the cardiac performance of the human resources engaged in paddy cultivation. Keeping this in view, a study has been undertaken, to assess the thermal environmental conditions and impact of workplace heat exposure, and workload on cardiac performance in 39 male paddy cultivators (age range 21 - 30 years) primarily engaged in manual reaping task during 'Boro' type of paddy cultivation time in the southern area of Hooghly district. Data on physical and physiological parameters of study participants were collected. Indicators of cardiac strain were calculated. The result of the present study indicated that there was strain in male crop cultivators primarily engaged in reaping task in paddy cultivation because of the nature of the work and the exposure to the thermal environment.
