Economic losses in dairy farms due to heat stress in sub-tropics: evidence from North Indian Plains Bishwa Bhaskar Choudhary and Smita Sirohi

SUPPLEMENTARY FILE

Calculation of THI for Karnal district of Indian state Haryana for the period 2001-2010

Based on the availability of maximum and minimum temperature and relative humidity the we worked out THI based on the following equation (Ravagnolo *et al.* 2000) : THI = (9/5 temperature ${}^{0}C + 32$) - (11/2 - 11/2 × relative humidity) × (9/5 temperature ${}^{0}C$ -26). Maximum, minimum and average THI were estimated; incorporating maximum temperature and minimum relative humidity (RH at 2.22 pm) in the equation gave maximum THI (THI_Max), minimum temperature and maximum relative humidity (at 7.22 am) was used to work out minimum THI (THI_Min), and average THI (THI_Avg) was obtained using average temperature and average relative humidity.