

Wind Chill Formula.

WIND CHILL ($\text{Cal}/\text{m}^2/\text{hr}$) =

$$\left(\left(\sqrt{w_s (\text{m sec}^{-1}) \times 100} + 10.45 \right) - w_s \right) \times (33 - T_c)$$

where

$w_s \equiv$ wind speed (in m sec^{-1})

$T_c \equiv$ temperature (in $^{\circ}\text{C}$)