

## NOTATION

$a, b$	: calibration factors in Blaney-Criddle equation
$a_s$	: fraction of extraterrestrial radiation reaching the earth on an overcast day
$a_s+b_s$	: fraction of extraterrestrial radiation reaching the earth on a clear day
$c$	: adjustment factor, radiation method
$C$	: correction or calibration factor, modified Penman equation
$C_E$	: elevation coefficient
$C_H$	: humidity coefficient
$C_M$	: monthly coefficient
$C_s$	: sunshine coefficient
$C_T$	: temperature coefficient
$C_W$	: wind velocity coefficient
$E$	: elevation, m
$E_m$	: mean elevation of stations considered, m
$E_{pan}$	: pan evaporation, mm day <sup>-1</sup>
$e^{\circ}(T)$	: saturation vapour pressure at air temperature $T$ , kPa
$e^{\circ}(T_{min})$	: saturation vapour pressure at daily minimum temperature, kPa
$e^{\circ}(T_{max})$	: saturation vapour pressure at daily maximum temperature, kPa
$ET$	: Evapotranspiration, mm day <sup>-1</sup>
$ET_0$	: grass reference crop evapotranspiration, mm day <sup>-1</sup>
$ET_r$	: alfalfa reference crop evapotranspiration, mm day <sup>-1</sup>
$ET_c$	: crop evapotranspiration, mm day <sup>-1</sup>
$e_a$	: actual vapour pressure, mbar
$e'_a$	: actual vapour pressure, kPa
$e_2$	: vapour pressure of the month at mean maximum temperature, mbar
$e_1$	: vapour pressure of the month at mean minimum temperature, mbar

$e_s$	: saturation vapour pressure at daily mean air temperature, mbar
$e'_s$	: saturation vapour pressure, kPa
$e_s - e_a$	: saturation vapour pressure deficit, mbar
FAO	: Food and Agriculture Organization
FET	: fetch distance, m
G	: soil heat flux $\text{mm day}^{-1}$
G'	: soil heat flux, $\text{MJ m}^{-2} \text{day}^{-1}$
$K_c$	: crop coefficient
$K_{c \text{ ini}}$	: crop coefficient during the initial growth stage
$K_{c \text{ mid}}$	: crop coefficient during the mid-season growth stage
$K_{c \text{ end}}$	: crop coefficient at the end of the late season growth stage
$K_p$	: pan coefficient
N	: maximum possible sunshine daylight hours in a day, hour
n	: actual duration of sunshine in a day, hour
n/N	: relative sunshine duration
p	: mean daily percentage of total annual sunshine hours
P	: Mean vapour pressure, mb
$R_a$	: extraterrestrial radiation, mm/day
$R'_a$	: extra terrestrial radiation, $\text{MJ m}^{-2} \text{day}^{-1}$
$RH_{\text{max}}$	: daily maximum relative humidity, %
$RH_{\text{min}}$	: daily minimum relative humidity, %
$RH_{\text{mean}}$	: average daily relative Humidity, %
$RH_m$	: mean of mean relative Humidity over the period considered, %
$R_n$	: net radiation, $\text{mm day}^{-1}$
$R'_n$	: net radiation, $\text{MJ m}^{-2} \text{day}^{-1}$
$R_s$	: solar or short wave radiation, mm/day
$R'_s$	: solar or short wave radiation, $\text{MJ m}^{-2} \text{day}^{-1}$
$R_{ns}$	: net solar or shortwave radiation, $\text{MJ m}^{-2} \text{day}^{-1}$

$R_{nl}$	: net long wave radiation, $\text{MJ m}^{-2} \text{ day}^{-1}$
$R_{so}$	: clear-sky solar or clear-sky shortwave radiation, $\text{MJ m}^{-2} \text{ day}^{-1}$
$R_s/R_{so}$	: relative solar or relative shortwave radiation
$s_p$	: relative sunshine duration, $n/N$
$T$	: air temperature, $^{\circ}\text{C}$
$T_m$	: mean daily temperature over the period considered, $^{\circ}\text{C}$
$T_{\max}$	: daily maximum air temperature, $^{\circ}\text{C}$
$T_{\max\cdot\text{K}}$	: daily maximum air temperature, $^{\circ}\text{K}$
$T_{\text{mean}}$	: daily mean air temperature, $^{\circ}\text{C}$
$T_{\min}$	: daily minimum air temperature, $^{\circ}\text{C}$
$T_{\min\cdot\text{K}}$	: daily minimum air temperature, $^{\circ}\text{K}$
$TD$	: difference between maximum and minimum daily air temperatures, $^{\circ}\text{C}$
$u_d, u_n$	: day and night time wind speeds respectively, $\text{m/s}$
$u_z, u_2$	: wind speed measured at height $z$ m and 2m respectively, $\text{m s}^{-1}$
$U_2$	: wind speed measured at height 2m, $\text{km day}^{-1}$
$W$	: weighting factor
$w$	: mean wind speed measured at height 0.6m over the period, $\text{km day}^{-1}$
$z$	: height of wind speed measurement, $\text{m}$
$\alpha$	: albedo
$\Upsilon$	: Psychrometric constant, $\text{mb } ^{\circ}\text{C}^{-1}$
$\Upsilon'$	: psychrometric constant, $\text{kPa } ^{\circ}\text{C}^{-1}$
$\Delta$	: slope of saturation vapour pressure curve, $\text{mb } ^{\circ}\text{C}^{-1}$
$\Delta'$	: slope of saturation vapour pressure curve, $\text{kPa } ^{\circ}\text{C}^{-1}$
$\sigma$	: Stefan-Boltzmann constant, $4.903 \cdot 10^{-9} \text{ MJ K}^{-4} \text{ m}^{-2} \text{ day}^{-1}$