

Parameter	Description	Value/units
g_0	Minimal stomatal conductance	0.001 molm ⁻² s ⁻¹
g_m	Upscaling of stomatal conductance to canopy	3.26 mms ⁻¹
H_{max}	Water maximum holding capacity	500 mm
k_1	Photosynthesis co-limitation coefficient	0.93
k_{10}	Function Q_{10} parameter	0.57
k_{11}	Function Q_{10} reference temperature	25 °C
k_{12}	CO ₂ Michaelis-Menten constant parameter	30 Pa
k_{13}	CO ₂ Michaelis-Menten constant parameter	2.1
k_{14}	O ₂ Michaelis-Menten constant parameter	30.000 Pa
k_{15}	O ₂ Michaelis-Menten constant parameter	1.2
k_{16}	Maximum ratio between intern and extern CO ₂	0.9
k_{17}	Critical moisture deficit	0.1
k_{18}	Rubisco carboxylation rate parameter	2
k_{19}	Rubisco carboxylation rate parameter	0.3
k_2	Photosynthesis co-limitation coefficient	0.83
k_{20}	Rubisco carboxylation rate parameter	36 °C
k_{21}	Light extinction coefficient for direct IPAR (sun)	0.5/sen(90°)
k_{22}	Light extinction coefficient for direct IPAR (shade)	0.5/sen(20°)
k_3	Oxygen atmospheric concentration	21.200 Pa
k_4	Quantum efficiency	0.08 mol electrons/Ein
k_5	Light scattering rate	0.15
k_6	J_L parameter	2
k_7	Ratio between photosynthesis limited by light and by rubisco carboxylation	0.5
k_8	Photorespiration point compensation parameter	5.2
k_9	Photosynthesis co-limitation coefficient	0.1
rc_{min}	The minimum stomatal resistance	100 sm ⁻¹
V_{cmax}	Maximum rate of Rubisco carboxylation	0.00004 molCO ₂ m ⁻² s ⁻¹
γ_m	Maximum Priestley-Taylor coefficient	1.391