

Appendix A. Formulas used to describe structural parameters in the live fuel stratum of tropical freshwater forested wetlands

Variable	Formula	Variable description	Reference
<i>Basal area</i>	$BA = (\pi * 4 ([ND])^2)$	BA = total basal area in m ² /0.1 ha $\pi = 3.1416$ ND = normal diameter	Ramos et al. (2004)
<i>Absolute/Relative Coverage</i>	$C_A = ((d_1+d_2)/2)^2 * \pi$ $C_R = (Cov_i/Cov_t)*100$	C_A = absolute coverage d₁ and d₂ = canopy diameters $\pi = 3.1416$ C_R = relative coverage Cov_i = absolute coverage of individuals of a species Cov_t = absolute coverage of individuals of all species	Zarco-Espinoza et al. (2010)
<i>Relative Frequency</i>	$F_R = f_i/N*100$	F_R = relative frequency f_i = number of occurrences of a species N = number of occurrences of all species	Gentry y Ortiz (1993)
<i>Relative Density</i>	$D_R = n_i/N*100$	D_R = relative density n_i = number of individuals of a species N = number of individuals of all species at each sampling site	Villavicencio and Valdez (2003)
<i>Dominance Relative</i>	$D_{OR} = (\alpha_i/\alpha)*100$	α_i = basal area of a species at each sampling site α = total basal area of all species at each sampling site	Villavicencio and Valdez (2003)
<i>Importance Value Index</i>	$IVI = D_R+D_{OR}+F_R$	D_R = relative density D_{OR} = relative dominance F_R = relative frequency	Villavicencio and Valdez (2003)
<i>Forest Value Index</i>	$FVI = ND_R+H_R+C_R$	ND_R = Normal diameter relative (ND absolute of a species entre ND absolute of all species). H_R = relative height (absolute height of a species between absolute height of all species). C_R = (Canopy diameter of all species/sampled area)*100	Zarco et al. (2010)
<i>Holdrige Complexity Index</i>	$HCI = (d*a*h*s) / 100$	d = number of trees in the sample unit /0.1 ha. a = total basal area (m ² /0.1ha). It was calculated with the formula $\pi*4(DAP)^2$ h = average stand height in meters s = total number of species in the sample unit (0.06 ha).	Holdrige et al. (1971)