

# **Online-only Table 1 Available trait information in PalmTraits 1.0.**

From: [PalmTraits 1.0](#), a species-level functional trait database of palms worldwide

Header	Description	TOP category	Type	Unit	Coverage (# species)	Coverage (% species)
<b>Taxonomy</b>						
SpecName	Taxonomic name of species (binomial nomenclature) following the World Checklist of palms <sup>186</sup>	—	Text	—	2557	100
accGenus	Accepted genus name from the World Checklist of palms <sup>186</sup>	—	Text	—	2557	100
accSpecies	Accepted species name from the World Checklist of palms <sup>186</sup>	—	Text	—	2557	100
PalmTribe	Name of palm tribe from the World Checklist of palms <sup>186</sup>	—	Text	—	2557	100
PalmSubfamily	Name of palm subfamily from the World Checklist of palms <sup>186</sup>	—	Text	—	2557	100
<b>Growth form and habit</b>						
Climbing	Whether palm species has climbing habit or not, or both if populations vary in this trait	whole plant growth form	Binary	Climbing (1), non-climbing (0), both (2)	2557	100
Acaulescent	Whether palm species has an acaulescent growth form (leaves and inflorescence rise from the ground, i.e. lacking a visible aboveground stem) or not, or both if populations vary in this trait	whole plant growth form	Binary	Acaulescent (1), non-accaulescent (0), both (2)	2557	100
Erect	Whether palm species has an erect stem (rather than an acaulescent or climbing growth form) or not, or both if local populations vary in this trait	whole plant growth form	Binary	Erect (1), non-erect (0), both (2)	2559	100
StemSolitary	Whether stems are solitary (single-stemmed) or clustered (with several stems), or both if populations vary in this trait	—	Binary	Solitary (1), non-solitary (0), both (2)	2182	85
<b>Armature</b>						
StemArmed	Whether bearing some form of spines at the stem or not, or both if populations vary in this trait	—	Binary	Armed (1), non-armed (0)	2502	98
LeavesArmed	Whether bearing some form of spines on the leaves or not, or both if populations vary in this trait	—	Binary	Armed (1), non-armed (0)	2437	95
<b>Stem size</b>						
MaxStemHeight_m	Maximum stem height	whole plant height	Continuous	m	2110	83
MaxStemDia_cm	Maximum stem diameter	—	Continuous	cm	1954	76
	Understory palms are defined as short-					

UnderstoreyCanopy	stemmed palms with a maximum stem height $\leq 5$ m or an acaulescent growth form, canopy palms with maximum stem height $> 5$ , following classification in ref. <sup>50</sup>	—	Categorical	Understorey, canopy, both	2291	90
<b>Leaf</b>						
MaxLeafNumber	Maximum number of leaves	—	Count	—	1305	51
Max_Blade_Length_m	Maximum length of the blade (the flat expanded part of a leaf as distinguished from the petiole)	leaf length trait	Continuous	m	1897	74
Max_Rachis_Length_m	Maximum length of the rachis (the axis of the leaf beyond the petiole)	leaf length trait	Continuous	m	1531	60
Max_Petiole_length_m	Maximum length of the petiole (the stalk of the leave)	petiole length	Continuous	m	1209	47
<b>Fruit</b>						
AverageFruitLength_cm	Average length of the fruit as provided in a monograph or species description	dispersule length	Continuous	cm	2052	80
MinFruitLength_cm	Minimum fruit length as provided in a monograph or species description	dispersule length	Continuous	cm	906	35
MaxFruitLength_cm	Maximum fruit length as provided in a monograph or species description	dispersule length	Continuous	cm	916	36
AverageFruitWidth_cm	Average width of the fruit as provided in a monograph or species description	dispersule width	Continuous	cm	1993	78
MinFruitWidth_cm	Minimum fruit width as provided in a monograph or species description	dispersule width	Continuous	cm	994	39
MaxFruitWidth_cm	Maximum fruit width as provided in a monograph or species description	dispersule width	Continuous	cm	1002	39
FruitSizeCategorical	Species classified into small-fruited palms (fruits $< 4$ cm in length) and large-fruited palms (fruits $\geq 4$ cm in length), following ref. <sup>50</sup>	—	Categorical	small, large	2052	80
FruitShape	Description of fruit shape as provided in a monograph or species description	—	Categorical	Ellipsoid, elongate, fusiform, globose, ovoid, pyramidal, rounded	1791	70
FruitColorDescription	Verbatim description of fruit color (e.g. red to dark purple, green to orange to red, purple-brown) as provided in a monograph or species description	—	Descriptive	—	1848	72
MainFruitColors	Main fruit colors summarized from fruit color descriptions (black, yellow, orange, red, purple etc.)	—	Descriptive	—	1799	70
Conspicuousness	Main fruit colors classified into conspicuous colors (e.g. orange, red, yellow, pink, crimson, scarlet) vs. cryptic colors (brown,	—	Categorical	conspicuous, cryptic	1799	70

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black, green, blue, cream, grey, ivory, straw-coloured, white, purple)

1. The ‘header’ column gives the column names of the trait dataset which is provided as a tab-limited text file<sup>181</sup>. The other information summarizes the description, category of the thesaurus of plant characteristics (TOP)<sup>203</sup>, data type, unit and species coverage information (number and percentage) of the taxonomy and trait data.

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